

**62nd
AIIMS
ANNUAL REPORT
2017–2018**



ALL INDIA INSTITUTE OF MEDICAL SCIENCES

NEW DELHI - 110029

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All India Institute of Medical Sciences

The All India Institute of Medical Sciences (AIIMS) was established in 1956 as an institution of national importance by an Act of Parliament to develop patterns of teaching in undergraduate and post-graduate medical education in all its branches so as to demonstrate a high standard of medical education to all medical colleges and other allied institutions in India; to bring together in one place educational facilities of the highest order for the training of personnel in all important branches of health activity and to attain self-sufficiency in postgraduate medical education.

The Institute has comprehensive facilities for teaching, research and patient care. AIIMS conducts teaching programmes in medical and para-medical courses both at the undergraduate and postgraduate levels and awards its own degrees. Teaching and research is conducted in nearly 100 disciplines. AIIMS is a leader in the field of medical research with over Rs 100 crores in extramural grants received by its researchers in a year. AIIMS also runs a College of Nursing.

Various departments and centres manage practically all types of disease conditions with support from para-clinical departments. AIIMS also runs a 50-bedded hospital and the Comprehensive Rural Health Centre at Ballabgarh in Haryana and provides health cover to nearly 8 lakh people through the Centre for Community Medicine.



Content

Annual Report 2017–2018

1. Director’s Review.....	3
2. The Institute and Its Committees.....	8
3. Academic Section.....	12
4. Examination Section.....	19
5. General Administration.....	24
6. Main Hospital.....	26
6.1. Medical Records Department.....	27
6.2. Dietetics.....	38
6.3. Hospital Billing Section.....	39
6.4. Nursing Services.....	39
6.5. Welfare Unit.....	46
6.6. Medical Social Welfare Unit.....	47
7. College of Nursing.....	54
8. Research Section.....	65

Departments

9.1. Anaesthesiology, Pain Medicine and Critical Care.....	72
9.2. Anatomy.....	89
9.3. Biochemistry.....	104
9.4. Biomedical Engineering.....	118
9.5. Biophysics.....	121
9.6. Biostatistics.....	127
9.7. Biotechnology.....	138
9.8. Community Medicine.....	141
9.9. Dermatology and Venereology.....	158
9.10. Emergency Medicine.....	167
9.11. Endocrinology and Metabolism.....	171
9.12. Forensic Medicine and Toxicology.....	181
9.13. Gastroenterology and Human Nutrition Unit.....	185
9.14. Gastrointestinal Surgery and Liver Transplantation.....	194
9.15. Geriatric Medicine.....	200
9.16. Haematology.....	204
9.17. Hospital Administration.....	211
9.18. Laboratory Medicine.....	219
9.19. Medicine.....	231
9.20. Microbiology.....	239
9.21. Nephrology.....	253
9.22. Nuclear Magnetic Resonance.....	259
9.23. Nuclear Medicine.....	266

9.24.	Obstetrics and Gynaecology	272
9.25.	Orthopaedics	301
9.26.	Otorhinolaryngology.....	313
9.27.	Paediatrics	323
9.28.	Paediatric Surgery	360
9.29.	Pathology	372
9.30.	Pharmacology	389
9.31.	Physical Medicine and Rehabilitation.....	395
9.32.	Physiology.....	401
9.33.	Plastic, Reconstructive and Burns Surgery.....	419
9.34.	Psychiatry	424
9.35.	Pulmonary Medicine and Sleep Disorder.....	445
9.36.	Radiodiagnosis.....	452
9.37.	Reproductive Biology	470
9.38.	Rheumatology.....	475
9.39.	Surgical Disciplines	479
9.40.	Transfusion Medicine and Blood Bank.....	497
9.41.	Transplant Immunology and Immunogenetics	499
9.42.	Urology.....	504

Centres

10.1.	Cardiothoracic Sciences Centre.....	512
10.2.	Centre for Dental Education and Research.....	546
10.3.	Dr B.R. Ambedkar Institute Rotary Cancer Hospital.....	563
10.4.	Dr Rajendra Prasad Centre for Ophthalmic Sciences.....	607
10.5.	Jai Prakash Narayan Apex Trauma Centre	646
10.6.	National Drug Dependence Treatment Centre	680
10.7.	Neurosciences Centre.....	699

Central Facilities

11.1.	B.B. Dikshit Library.....	746
11.2.	Cafeteria	749
11.3.	Central Animal Facility	750
11.4.	Central Workshop	751
11.5.	Computer Facility	753
11.6.	Electron Microscope Facility	758
11.7.	Hostel Section.....	760
11.8.	Ethics Committee.....	762
11.9.	K. L. Wig Centre for Medical Education, Technology and Innovation (CMET-i).....	763
11.10.	Media and Protocol Division.....	767

12. Publications	777
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Finance Division

13.1.	Budget and Finance	864
13.2.	Audit Report.....	1038

AIIMS AT A GLANCE

2017–2018

Year of establishment 1956

Teaching Departments and Centres	42+7	Medical graduates	3134
Faculty members (Sanctioned 993)	689	Postgraduates	10017
Non-faculty staff (Sanctioned 11646)	9770	Nursing/paramedical graduates	3219
Undergraduate students	878	Publications in journals/abstracts	1695
Postgraduate students	1891	Chapters in books/Books and monographs	381

Hospital Services

Hospital/Centre	Outpatients (including casualty)	Admissions	Surgery (Operations/ procedures)	Beds		
				General	Private	Total
Main Hospital	20,88,171	1,15,276	96,439	997	165	1,162
Dr RP Centre	5,75,174	43,684	45,411	288	22	310
Dr BRA IRCH	1,71,778	42,687	10,329	167	15	182
Cardiothoracic Centre	2,04,976	12,331	4,141	226	33	464
Neurosciences Centre	1,36,300	9,414	3,314	174	31	
NDDTC*	1,64,642	1,201	–	50	–	50
CCM†	5,48,236	12,685	2,340	50	–	50
JPNA Trauma Centre	1,23,845	6,910	8,142	232	11	‡243
CDER	2,09,045	1,377	22,918	17	–	17
Outreach outpatients, Badsha, Jhajjar	1,33,171	–	–	–	–	–
Total	43,55,338	2,45,565	1,93,034	2,201	277	2,478

* inclusive of Trilokpuri, Sunder Nagri and Kotla Mubarakpur

† inclusive of PHC Dayal Pur

‡ including 30 Triage beds

Hospital performance indices

Parameters	Main Hospital		Cardiothoracic and Neurosciences Centre		JPNA Trauma Centre	
	2017-18	2016-17	2017-18	2016-17	2017-18	2016-17
Average length of stay (days)	9.3	9.8	9.8	9.6	8	10
Average bed occupancy rate (%)	86.4	86.9	87.9	91.5	68	83
Net death rate (%)	1.8	1.7	2.8	3.1	6	5
Combined crude infection rate (%)	6.0	6.9	–	–	–	–

CCM: Centre for Community Medicine

CDER: Centre for Dental Education and Research

Dr BRA IRCH: Dr B.R. Ambedkar Institute Rotary Cancer Hospital

Dr RP Centre: Dr Rajendra Prasad Centre for Ophthalmic Sciences

JPNA Trauma Centre: Jai Prakash Narain Apex Trauma Centre

NDDTC: National Drug Dependence Treatment Centre



1. Director's Review

I feel privileged to present the Sixty-second Annual Report and audited statement of accounts for the year 2017-2018.

The All India Institute of Medical Sciences, Delhi (AIIMS-Delhi) was created in 1956 as an autonomous institution through an Act of Parliament to serve as a nucleus for nurturing excellence in all aspects of health care. Today, it flourishes thanks to educators, students, scientists, practitioners, staff and clients, who embody the same passion as its founders. All are fiercely committed to serving humanity by advancing knowledge, improving health care and saving lives. I am grateful to this extraordinary community for the work that they do at AIIMS-Delhi each day.

Our achievements reflect our shared dedication to education, discovery and service, and I am pleased to highlight in this report some of the past year's remarkable accomplishments.

Green AIIMS

Under the Green AIIMS project, the Institute is making an effort to move away from conventional energy that pollutes the environment to alternate sources of energy. The Institute is setting up a recycling plant for processing organic waste to convert it to natural gas, water and bio-manure. Natural gas will be used in laboratories and kitchens, cafeterias and the hostel mess, and houses of the staff and faculty, as fuel. The water generated will be used for horticulture and cooling air conditioning plants while the bio-manure will be utilized in its gardens and lawns. The Institute has already joined hands with the Japanese conglomerate Hitachi, to set up a solar power generation unit in the hospital complex to reduce its electricity bill by 50 per cent over the next two years. The Japanese government's New Energy and Industrial Technology Development Organization (NEDO) is financing this project.

AIIMS-Delhi won the first prize for the year 2017-2018 for maintaining high standards of sanitation and hygiene under the Ministry of Health and Family Welfare's (MoHFW) Kayakalp award for the second year running.

Strengthening infrastructure

The Honourable Prime Minister laid the foundation stone for the National Centre for Ageing at AIIMS-Delhi, which will have a 200-bedded in-patient facility for the elderly. The National Centre for Ageing is likely to be completed by March 2020. In addition to clinical and training services, it will lead research into emerging public health challenges in view of increasing longevity of the Indian population. AIIMS is also in the process of developing a comprehensive master plan for expansion to handle the increasing patient load and research demands.

The National Cancer Institute (NCI) that is coming up in Jhajjar on the new campus is progressing rapidly towards completion. While outreach outpatient services are already being provided, inpatient services are expected to commence in 2019. When completed it will have 710 beds and will have the best medical facilities for patients with cancer, including a first-of-its-kind tissue repository.

The Jai Prakash Narayan Advanced Trauma Centre (JPNA Trauma Centre) has commissioned new wards and a new emergency operation theatre for minor procedures. The fragility fracture service providing ortho-geriatric services was also started. This service will have dedicated beds for geriatric patients with fractures needing special care. The Institute has opened a motorable tunnel-cum-surface road for quick transfer of patients between the hospital's main campus and the JPNA Trauma Centre to ensure timely medical help to patients. The link reduces the travel time between the Institute and its centre from 30 minutes to less than 5 minutes. A 360-bed dharmshala built by Powergrid Corporation of India as part of its Corporate Social Responsibility (CSR) activity for the stay of patients' attendants was also inaugurated.

Patients visiting the Institute will now be allotted specific timings and slots to meet their doctors, instead of having to stand in queue for hours. The OPD registration and laboratory collection timings have been extended for the convenience of patients. To ensure services for outstation patients and those unfamiliar with online platforms, 30% of slots have been reserved for same day appointments.

Learner at the centre

AIIMS-Delhi ranked first among India's medical colleges in the National Institutional Ranking Framework of the Ministry of Human Resource Development (MHRD) and all three independent surveys conducted by India Today, the Outlook and the Week in the year 2017-18. AIIMS-Delhi is also the only medical institution from India in the top 1,000 degree-granting institutions of higher education worldwide according to the Centre for World University Rankings. Our educators are ensuring that our dynamic curriculum, which blends basic, translational and clinical science, is producing the next generation of leaders in health care. For undergraduates and clinical trainees, the overall goal is to help learners become well rounded practitioners capable of solving problems and shaping novel therapies that benefit patients. For scientists

and clinician-researchers, the idea is to expose them to wide-ranging research—from probing the effects of environmental pollutants to developing molecular tools for gene editing and tissue engineering.

With its 7 centres comprising of various teaching departments and facilities and 42 stand-alone Departments, and a manpower of over 10,000 including over 680 faculty members, AIIMS- Delhi produces a large number of medical graduates, specialists (MD/MS), super-specialists (DM/MCh), PhD scholars and allied health and basic sciences experts, including nurses and paramedical professionals. During the year, we enrolled 966 scholars in various courses. The Institute also provided postgraduate training to 723 short-term trainees. AIIMS-Delhi also continued to play a mentorship role for other AIIMS and conducted entrance examinations and counselling leading to final selection of students to the MBBS and BSc (Honours) Nursing courses for them.

AIIMS-Delhi offers health care providers and medical scientists a best-in-class catalog of pedagogically innovative and authoritative learning opportunities. A number of new courses were added to the already rich palette offered at AIIMS. The Paediatrics Department started a new Doctor of Medicine (DM) program in Paediatric Medical Oncology. The department of Dermatology and Venereology obtained approval for three post-MD (Doctor of Medicine) fellowship programmes in Immunodermatology and Bullous Disorders, Paediatric Dermatology, and Dermatotomy and Lasers.

Our commitment to learning involves extending AIIMS knowledge to an expanding group of learners through innovative technologies and educational opportunities. The institute has initiated a project funded by the National Knowledge Network for designing and developing e-learning courses in health and medical sciences using virtual teaching. It aims to develop focused and organized supplemental teaching material for medical, nursing and para-medical courses in regions facing shortage of medical teachers. A project involving the delivery of the e-content to students at North Eastern Indira Gandhi Regional Institute of Health and Medical Sciences, Shillong and Regional Institute of Medical Sciences, Imphal established the feasibility and effectiveness of this programme. A number of departments at AIIMS are also contributing to the provision of resource material to postgraduate students all over India for the e-PG-Pathshaala project of the National Mission on Education through ICT (NME-ICT) of the MHRD and University Grants Commission. The Neonatology Division of the Department of Paediatrics is using e-learning for disseminating evidence-based practices on newborn health for healthcare professionals. Currently, three e-learning courses are being offered: Sick Newborn Care, Newborn Nursing and Continuous Positive Airway Pressure.

The Centre for Community Medicine (CCM) conducts courses for faculty development on operational research at the national level under the Human Resource Development Health Research Scheme of Government of India. The Department of Haematology was granted the status of Regional Training Centre by International Society of Hemostasis and Thrombosis in collaboration with the Institute of Experimental Hematology and Transfusion Medicine, University Clinic, Bonn.

The Dr Rajendra Prasad Centre for Ophthalmic Sciences (RPCOS) has established a National Ophthalmic Surgical Skills Development Centre with a high-end virtual reality simulator for intraocular surgical training for cataract and vitreo-retinal surgery. AIIMS-Delhi is also trying to integrate virtual teaching modules, using graphics and technology in its curriculum to help students understand the human body and the diseases they will encounter better.

AIIMS-Delhi exposes clinician and science leaders working in healthcare fields to the real-world settings of medicine to new trends in science and health care delivery. The institute offered Continuing Medical Education to thousands of physicians and healthcare professionals to help improve skills, knowledge and performance. We organized/hosted over 200 workshops, symposia, conferences and training programmes in collaboration with various national and international agencies.

In keeping with principles of human capital development that envisages a healthy well-trained workforce, AIIMS-Delhi has initiated a wellness clinic for its students and residents. It consists of mental health professionals including psychologists and counsellors who help aspiring medical professionals deal with stress and emotional exhaustion. A round-the-clock helpline for medical students and doctors has also been instituted.

Research and Discovery

This era is marked by the startling pace of new discoveries and the proliferation of ever-advancing technologies. Our Institute is at the epicenter of a dynamic network of research and discovery related to biomedicine. AIIMS-Delhi continues to be the top medical institution in terms of research output in India. It published over 1500 research papers in national and international journals and over 350 monographs, books and chapters in books during the year.

The Research Section serves as a catalyst for research at AIIMS-Delhi. We are expanding and deepening our research infrastructure, investing in cross-disciplinary collaborative research, and enhancing therapeutically oriented and translational research education. The faculty and scientists at the institute conducted over 710 funded research projects that attracted more than Rs 116 crores worth of extramural research grants. In addition, the research section disbursed grants amounting to Rs 3.54 crores for 91 new Intramural Research Projects to fast forward fledgling research careers.

AIIMS-Delhi and La Trobe University of Australia signed a MoU through which they will collaborate in various areas of dentistry and medicine including nanotechnology and antimicrobial resistance. The RPCOS has established collaborative links with a number of institutions of higher learning and excellence in the USA including the National Eye Institute of the National Institute of Health. Over a dozen initiatives will be taken up by the JPNA Trauma Centre, AIIMS and the Defence Research and Development Organization (DRDO) to conduct research in the field of combat casualty. This will include advanced MRI-based studies on recovery following head injuries.

The Paediatric Neurology Division of the Department of Paediatrics now houses a Centre for Advanced Research and Excellence (CARE) for Childhood Neurodevelopmental Disorders, which will include neuromotor impairments, motor delay, language delay, cognitive delay and epilepsy. The state-of-the-art centre will perform high end diagnostic and therapeutic research and act as an education and training hub. To achieve these ends the Centre will collaborate with the Institute of Genomics and Integrative Biology, and IIT-Delhi. The Division of Nephrology of the Department of Paediatrics has been recognized by the Indian Council of Medical Research (ICMR) as Advanced Centre for Research in Nephrology. The Division of Neonatology of the Department of Paediatrics, as part of its ICMR CARE activities contributed to the National Ethical Guidelines for Research involving Children. The WHO Collaborating Centre (WHO-CC) at the Department of Paediatrics for neonatal health is engaged in research pertaining to quality of care of preterm neonates being treated in special newborn care units. The major objective of this activity is to reduce the incidence of retinopathy of prematurity in preterm neonates by implementing evidence-based practices. The work is funded by the Queen Elizabeth Diamond Jubilee Trust, UK.

In the past year, our medical scientists have made transformative discoveries. A new form of diabetes, labeled Diabetes Type 4 was recently described by researchers at RPCOS. This syndrome is brain specific diabetes with central nervous system insulin resistance and mitochondrial dysfunction leading to retinal ganglion cell loss and glaucomatous neurodegeneration. It will potentially lead to rethinking about glaucoma and its treatment.

In collaboration with the Ministry of Ayurveda, Yoga and Naturopathy, Unani, Siddha and Homoeopathy, the Institute will soon come up with guidelines on yoga 'asanas' that are beneficial to combat certain ailments, in line with the Honourable Prime Minister's appeal to focus on treatment of diseases through the ancient Indian disciplines. These guidelines will be based on ongoing research on conditions like migraine and chronic obstructive pulmonary disease at the Centre for Integrative Medicines and Research, AIIMS-Delhi in partnership with Swami Vivekananda Yoga Anusandhana Samsthana (S-VYASA), Bengaluru.

A number of patents were obtained/applied for, e.g. the Department of Biochemistry obtained a patent (US patent PCT/IB2014/061350; US Patent number US 9,868,960 B2) on Placental Like Alkaline Phosphatase (PLAP) promoter mediated cell targeting. The Department of Biotechnology filed patents related to tuberculosis (TB) diagnostic technologies and kits. The Ocular Pharmacology and Pharmacy Division of RPCOS patented a Sterile Phase Inversion & Dispensing Technology (TransReCon) for unstable drugs at points of ophthalmic care at remote locations in India.

Innovation

In line with the Honourable Health Minister's call for innovation for effective and affordable health care, AIIMS has worked at ensuring that promising basic science insights get translated into new treatments. At the RPCOS, recent introduction of bioengineered corneas has opened new avenues in the field of corneal transplantation. Researchers at AIIMS-Delhi and IIT-Delhi have developed a low-cost device that can be worn over the nose to purify polluted air as a convenient alternative to face masks. The device uses active molecular technology to filter air and has a feedback system via a mobile app that assesses the amount of protection achieved. Researchers at AIIMS-Delhi and IIT-Delhi have also prepared a device which can detect hearing impairment early in young children. This low cost device can be used by laymen. In collaboration with IIT-Delhi, the JPNA Trauma Centre is developing affordable 'artificial skin' to bridge the gap in demand and supply of skin donation. The JPNA Trauma Centre in partnership with DRDO will soon be testing a specially designed needle to stop oxygen escaping from the lungs during chest injury, a sponge to control bleeding, and an extract from flowers to heal burns under the 'combat casualty' banner.

Clinical care

Practitioners have to incorporate new advances into their clinical care; but they must also provide leadership in terms of directing research toward the most pressing clinical problems and unmet needs. In the current era, where healthcare is proving to be a major challenge because of the high costs of medical treatment, AIIMS continues to provide affordable, yet evidence-based treatment of the very highest quality to the poorest of the poor. The AIIMS main hospital and its centres - Cardiothoracic and Neurosciences Centres (CN Centres), JPNA Trauma Centre, Dr BR Ambedkar Institute Rotary Cancer Hospital (BRAIRCH), RPCOS, Centre for Dental Education and Research (CDER), National Drug Dependence Treatment Centre (NDDTC) - have a total bed strength of 2478. During the year, AIIMS at the main hospital, its various centres and outreach locations attended to over 43 lakh outpatients, 2.45 lakh inpatients and did over 1.8 lakhs operations/

procedures at optimal patient care service parameters with average bed occupancy of about 86%, average hospital stay of about 9.3 days; and at a low net death rate of less than 2%. AIIMS serves healthcare needs both within and outside India, particularly in South and Southeast Asia.

This year also saw the initiation of some specialized clinics and laboratories. In a bid to detect cancer at an early stage, the BRAIRCH started a Preventive Oncology Clinic. A cervical cancer vaccination drive has also been initiated under its aegis. The CDER launched its Advanced Oral Histopathology laboratory. The Department of Dermatology and Venereology started Paediatric Dermatology and Photodermatology clinics, and also the Leprosy clinic in collaboration with the Department of Plastic, Reconstructive and Burns Surgery. The Department of Neurology started a rural outreach clinic at Ballabgarh, Haryana.

The CDER has launched a 3D Cone Beam CT Scan (CBCT) facility. The CBCT technology will help in treatment planning by creating virtual patients on computer screens and 3D models on which the surgery can be practiced before operating in the theatre. The technology will also be used for educating patients about expectations from a treatment. With a rise in cases of burn injuries and reconstruction surgeries involving skin, the JPNA Trauma Centre is planning to establish a skin bank facility. The facility will accept cadaver donations from brain dead persons and will use technology to preserve donated skin for a period of 4-5 years.

The RPCOS is now equipped to offer the plaque brachytherapy facility to treat eye tumours. Plaque brachytherapy is a form of local radiation delivered to the eye via a radioactive device that is stitched onto the eye. This facility will benefit children suffering from retinoblastoma, and adults suffering from ocular melanoma.

The Department of Paediatrics continues to be the driver for the Quality Improvement program at AIIMS. As a WHO-CC it also disseminates quality improvement (QI) modules to organizations through its on-line resources, face-to-face workshops and the Point of Care Continuous Quality Improvement (POCQI) module. Many South East Asian region countries have initiated QI work in their areas. Workshops for Improving Quality of Hospital Care for Maternal and Newborn Health in India have also been conducted for all six AIIMS and various Centres of Excellence in the country.

Nations' health

On a broader scale we are informing the healthcare of the nation on many fronts. The Centre for Community Medicine (CCM) provides leadership for elimination of iodine deficiency diseases in India, Bangladesh and Sri Lanka. It also serves as the Regional Institute for HIV Sentinel Surveillance under the MoHFW. The Department of Haematology contributed to the National Policy for Control of Thalassaemia and Haemoglobinopathies of the MoHFW. The RPCOS has been instrumental in re-alignment of the Indian definition of blindness under the National Programme for Prevention of Visual Impairment & Blindness, with the international definition as recommended by WHO. The centre also took a lead on re-classification of visual disability and disability certification under the Ministry of Social Justice and Empowerment.

The JPNA Trauma Centre is leading a multi-centric project on building capacities for infection control, surveillance of healthcare associated infections and antimicrobial resistance, funded as a cooperative agreement by the Centre for Disease Control, USA. A total of 36 hospitals, representing more than 120 intensive care units (ICUs) are a part of this surveillance network. This is also a novel initiative to integrate the national Kayakalp program and the existing healthcare associated infections surveillance framework. The 'Indian Registry on Rare Disease' was launched under the National Initiative for Rare Diseases led by the ICMR, AIIMS, Paediatric Research and Education Society of India (PRESIDE) and Jawaharlal Nehru University (JNU).

The MoHFW has designated CDER as the National Centre of Excellence for implementation of the National Oral Health Programme. The Department of Pharmacology was designated as the Medical Device Monitoring Centre for the Materio-vigilance Program of India by MoHFW.

A study conducted by NDDTC has put a number to the well-known problem of substance abuse by street children. One in every three street children in Delhi indulges in substance abuse. Tobacco use is the most common, followed by alcohol, inhalants, cannabis, heroin, opium, pharmaceutical opioids, sedatives and injecting drugs. Four-fifths of the street children faced problems like injuries, accidents, physical violence and sexual exploitation due to drug abuse. In collaboration with the MoHFW, RPCOS is conducting the National Blindness Survey that will provide reliable estimates of prevalence and causes of avoidable blindness and visual impairment among those aged 50 years and above in the general population in India. Initial findings of the survey suggest that cataract is the cause of blindness in about two-thirds of the population. The National Trachoma Prevalence Survey and the Trachoma Rapid Assessment Survey were completed in 2017 and Trachoma survey reports that have declared India free of active trachoma infection were released.

The Department of Geriatrics launched the Intergenerational Learning Centre initiative under the aegis of the Union Ministry of Culture. It involves retired citizens in teaching underprivileged children at government schools. Students benefit from the tutoring, and senior citizens from their healthy and meaningful involvement with children. A round-the-clock, toll-free helpline for information on children with neuro-developmental problems, e.g. autism and developmental delay was launched by the Division of Paediatric Neurology to facilitate care to patients and reduce the burden on the hospital.

Support services

The Institute is conducting counselling sessions for its security personnel, who are often the first point of contact for patients and their relatives, in its efforts to make them people-friendly. The move came in response to patient feedback received as part of 'Mera Aspataal (My Hospital)' initiative launched by MoHFW earlier that identified staff behaviour as a reason for dissatisfaction among patients visiting AIIMS.

In a bid to encourage the use of Hindi, AIIMS is offering cash incentives to clerical staff to sign up for a six-month Hindi stenography and typing training course. The training is being conducted on the directions of the Department of Official Languages under the Ministry of Home Affairs, as part of the 'Hindi Shikshan Yojana.'

Over the past six decades the institute has gained credibility and value in academics, research and optimum health care services, setting a benchmark for the rest of the country. AIIMS-Delhi remains devoted to producing the knowledge and ideas that promise a healthier world for all people.

Randeep Guleria
Director

2. The Institute and Its Committees

INSTITUTE BODY

1. **Shri Jagat Prakash Nadda** President
Minister of Health and Family Welfare
Nirman Bhawan, New Delhi 110011
2. **Professor Ram Gopal Yadav, MP (Rajya Sabha)** Member
8-A, Lodhi Estate, New Delhi 110003
3. **Shri Ramesh Bidhuri, MP (Lok Sabha)** Member
H.No. 179, Sunpath House,
Village Tughlakabad, New Delhi 110044
4. **Shri Parvesh Sahib Singh Verma, MP (Lok Sabha)** Member
1/14B, Shanti Niketan, New Delhi
5. **Shri R. Subrahmanyam** Member (from 28.2.2018)
Secretary, Department of Higher Education,
Ministry of Human Resource Development,
Government of India, Shastri Bhawan, New Delhi 110001
- Shri Kewal Kumar Sharma** Member
Secretary, Department of Higher Education,
Ministry of Human Resource Development,
Government of India, Shastri Bhawan, New Delhi 110001
(28.4.2017 to 27.2.2018)
6. **Professor M.K. Bhan** Member
Former Secretary, Department of Biotechnology,
Ministry of Science and Technology, New Delhi
7. **Shrimati Preeti Sudan** Member (from 24.11.2017)
Secretary (Health and Family Welfare),
Ministry of Health and Family Welfare, Government of India
Nirman Bhawan, New Delhi 110011
- Shri C.K. Misra** Member (up to 23.11.2017)
Secretary (Health and Family Welfare),
Ministry of Health and Family Welfare, Government of India
Nirman Bhawan, New Delhi 110011
8. **Professor Yogesh Kumar Tyagi** Member (Ex-Officio)
Vice Chancellor,
University of Delhi, Delhi 110007
9. **Dr Jagdish Prasad** Member (Ex-Officio)
Director General of Health Services,
Government of India,
Nirman Bhawan, New Delhi 110011
10. **Dr D.S. Rana** Member
Chairman, Board of Management
Sir Ganga Ram Hospital, New Delhi 110060
11. **Dr (Smt) Vijay Laxmi Saxena** Member
Coordinator Bioinformatics
Infrastructure Facility Centre of DBT (Government of India)
Head, Department of Zoology, Dayanand Girls P.G. College,
Kanpur, Uttar Pradesh
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|-----|--|------------------------------------|
| 12. | Dr Mahesh B. Patel
F-001, Shilalekh Tower, Opposite Police Stadium,
Shahi Baug, Ahmedabad 380004, Gujarat | Member |
| 13. | Dr D.G. Mhaisekar
Vice Chancellor, Maharashtra University of Health Sciences,
Dindori Road, Mhasrul, Nashik 422004, Maharashtra | Member |
| 14. | Dr N. Gopalkrishnan
Professor (Nephrology), Madras Medical College,
Chennai, Tamil Nadu 600003 | Member |
| 15. | Shrimati Vijaya Srivastava
Additional Secretary and Financial Adviser
Ministry of Health and Family Welfare, Government of India
Nirman Bhawan, New Delhi 110011 | Member |
| 16. | Professor Randeep Guleria
Director, AIIMS | Member Secretary |
| 17. | Shri Arun Singhal
Joint Secretary, Ministry of Health and Family Welfare,
Government of India, Nirman Bhawan, New Delhi 110011 | Special Invitee (up to 28.02.18) |
| | Shri Lav Agarwal
Joint Secretary, Ministry of Health and Family Welfare,
Government of India, Nirman Bhawan, New Delhi 110011 | Special Invitee (from 1.3.18) |
| 18. | Professor Balram Airan
Dean, AIIMS | Special Invitee (up to 31.12.2017) |
| 19. | Dr D.K. Sharma
Medical Superintendent, AIIMS | Special Invitee |

GOVERNING BODY

- | | | |
|-----|---|---------------------------------|
| 1. | Shri Jagat Prakash Nadda | President |
| 2. | Professor Ram Gopal Yadav, MP (Rajya Sabha) | Member |
| 3. | Shri Ramesh Bidhuri, MP (Lok Sabha) | Member |
| 4. | Shrimati Preeti Sudan | Member (from 24.11.2017) |
| | Shri C.K. Misra | Member (up to 23.11.2017) |
| 5. | Shri R. Subrahmanyam | Member (from 28.2.2018) |
| | Shri K.K. Sharma | Member (28.4.2017 to 27.2.2018) |
| 6. | Dr D.S. Rana | Member |
| 7. | Dr Jagdish Prasad | Member |
| 8. | Dr Mahesh B. Patel | Member |
| 9. | Dr D.G. Mhaisekar | Member |
| 10. | Shrimati Vijaya Srivastava | Member |
| 11. | Professor Randeep Guleria
Director, AIIMS | Member Secretary |

STANDING FINANCE COMMITTEE

1. **Shrimati Preeti Sudan** Chairperson (from 24.11.2017)
Shri C.K. Misra Chairperson (up to 23.11.2017)
2. **Shri Parvesh Sahib Singh Verma, MP (Lok Sabha)** Member
3. **Dr Jagdish Prasad** Member
4. **Shri R. Subrahmanyam** Member (from 28.2.2018)
Shri K.K. Sharma Member (28.4.2017 to 27.2.2018)
5. **Dr M.K. Bhan** Member
6. **Dr D.G. Mhaisekar** Member
7. **Shrimati Vijaya Srivastava** Member
8. **Professor Randeep Guleria** Member Secretary
Director, AIIMS

STANDING ACADEMIC COMMITTEE

1. **Dr Mahesh B. Patel** Chairperson
2. **Dr Jagdish Prasad** Member
3. **Dr M.K. Bhan** Member
4. **Shri R. Subrahmanyam** Member (from 28.2.2018)
Shri K.K. Sharma Member (28.4.2017 to 27.2.2018)
5. **Dr D.G. Mhaisekar** Member
6. **Dr D.S. Rana** Member
7. **Dr (Smt) Vijay Laxmi Saxena** Member
8. **Professor Randeep Guleria** Member Secretary
Director, AIIMS

STANDING ESTATE COMMITTEE

1. **Professor Ram Gopal Yadav, MP (Rajya Sabha)** Chairman
2. **Shri Parvesh Sahib Singh Verma, MP (Lok Sabha)** Member
3. **Dr D.S. Rana** Member
4. **Dr Jagdish Prasad** Member
5. **Professor Yogesh Kumar Tyagi** Member
6. **Shrimati Vijaya Srivastava** Member
7. **Dr N. Gopalkrishnan** Member
8. **Professor Randeep Guleria** Member Secretary
Director, AIIMS

STANDING HOSPITAL AFFAIRS COMMITTEE

1.	Shri Parvesh Sahib Singh Verma, MP (Lok Sabha)	Chairman
2.	Shri Ramesh Bidhuri, MP (Lok Sabha)	Member
3.	Dr D.S. Rana	Member
4.	Dr (Smt) Vijay Laxmi Saxena	Member
5.	Dr M.K. Bhan	Member
6.	Dr D.G. Mhaisekar	Member
7.	Dr N. Gopalkrishnan	Member
8.	Professor Randeep Guleria Director, AIIMS	Member Secretary

STANDING SELECTION COMMITTEE

1.	Dr D.S. Rana	Chairman
2.	Dr Jagdish Prasad	Member
3.	Dr D.G. Mhaisekar	Member
4.	Professor M.K. Bhan	Member
5.	Dr Mahesh B. Patel	Member
6.	Shri R. Subrahmanyam	Member (from 28.02.2018)
7.	Dr N. Gopalkrishnan	Member
8.	Professor Randeep Guleria	Member Secretary

3. Academic Section

Dean

Balram Airan (up to 31.12.2017)

Y.K. Gupta (from 14.2.2018)

Associate Dean

Rajeev Kumar

Registrar

Sanjeev Lalwani

The Academic Section develops policy and plans, and executes academic activities. These activities encompass the undergraduate, postgraduate and doctoral programmes for medical, nursing and paramedical courses. These activities are conducted by the undergraduate, postgraduate and paramedical cells.

UNDERGRADUATE EDUCATION

The section handles post-admission formalities for new students, develops and revises curricula and administers teaching programmes including internal assessment of undergraduate students admitted to various courses. The courses include MBBS, BSc (Hons) Medical Technology in Radiography and Ophthalmic Techniques, BSc Nursing (Post-certificate) and BSc (Hons) Nursing courses.

Bachelor of Medicine and Bachelor of Surgery (MBBS)

The pattern of education in MBBS course was reviewed and re-structured in July 2004. The MBBS course is of 5½ years duration and comprises of three phases and internship. The details are as follows:

Phase	Duration (years)	Training
First	One	Pre-clinical
Second	One-and-a-half	Para-clinical
Third	Two	Clinical
Internship	One	Compulsory rotation in various departments

At present, every year 100 Indian students (50 General category, 15 Scheduled Caste, 8 Scheduled Tribe and 27 Other Backward Classes) are admitted. These admissions are made based on merit through an All-India Entrance Examination. For Orthopaedic physically handicapped (OPH) candidates 5% reservation is provided on horizontal basis. In 2017-18, for these 100 seats, 3,64,242 applications were received and 2,84,737 candidates appeared in the entrance examination held on 27 May 2017. Seven foreign nationals were admitted on the recommendations of the Ministry of External Affairs, Government of India. The MBBS students on rolls as on 31 March 2018 were 415 including 78 interns.

In this year, 9 meritorious MBBS students were awarded scholarships for securing first, second and third positions in the first, second and final professional examinations.

Paramedical and Nursing Education

In 2017-18, 79 students (39 General category, 11 Scheduled Caste, 6 Scheduled Tribe and 21 Other Backward Classes, 2 Foreign Nationals) were admitted in BSc (Hons) Nursing course. For BSc Nursing (Post-certificate) course, 26 students (13 General category, 3 Scheduled Caste, 2 Scheduled Tribe, 7 Other Backward Classes and 1 Foreign National candidates were admitted.

For BSc (Hons) Ophthalmic Techniques, 19 students (10 General category, 3 Scheduled Caste, 1 Scheduled Tribe and 4 Other Backward Classes, 1 Foreign National) and BSc (Hons) Medical Technology in Radiography, 10 students (4 General category, 1 Scheduled Caste, 1 Scheduled Tribe and 3 Other Backward Classes, 1 Foreign National) were admitted. The number of students on roll in these courses on 31 March 2018 was:

Course	Number of students
<i>Nursing</i>	
BSc Nursing (Post-certificate)	50
BSc (Hons) Nursing	306
<i>Paramedical</i>	
BSc (Hons) Ophthalmic Techniques	70
BSc (Hons) Medical Technology in Radiography	37

POSTGRADUATE EDUCATION

The Academic Section looks after all activities pertaining to admission and training of postgraduate students including junior and senior residents. It handles all activities related to Fellowship, PhD, DM, MCh, MD, MS, MDS, MCh/DM (Direct 6 years course), MBiotechnology (MBiotech) and MSc courses in different disciplines.

Admissions to all postgraduate courses for Indian nationals as well as sponsored candidates are made through an All-India Entrance Examination held twice a year for all postgraduate courses except MSc and MBiotech courses, for which the examination is held once a year. Under sponsored category, foreign nationals are admitted through the same entrance examination. In 2016-17, 716 students were admitted in various courses. The number of postgraduate and doctoral students on roll as on 31 March 2018 was 1844 and is detailed below:

Admissions in various courses

S. No.	Name of course	July 2017	January 2018	Total
1	MSc/MBiotech/MSc Nursing (August)*	78	–	78
2	MD/MS/MDS/MCh/DM	240	152	392
3	DM/MCh	96	100	196
4	PhD	17	17	34
5	Fellowship	9	16	25
	Total	440	285	725

*Admissions are done once in a year.

Postgraduate students on roll

S. No.	Name of course	Number of students on roll
1	PhD	430
2	DM	361
3	MCh	175
4	Fellowship programme	29
5	MD	602
6	MS	71
7	MDS	40
8	MSc/MBiotech/MSc Nursing	146
	Total	1854

Subject-wise distribution of PhD students on roll

S. No.	Subject	Open	Sponsored
1	Anaesthesiology (Dr BRA IRCH)	5	0
2	Anaesthesiology and Intensive Care (JPNATC)	1	0
3	Anatomy	34	0
4	Biochemistry	39	0
5	Biophysics	32	0
6	Biostatistics	5	0

S. No.	Subject	Open	Sponsored
7	Biotechnology	5	0
8	Blood Bank	0	1
9	Cardiac Anaesthesiology	1	2
10	Centre for Community Medicine	1	0
11	Cardiac Biochemistry	1	0
12	Clinical Neuropsychology, NS Centre	3	0
13	CTC (Stem Cell)	2	0
14	College of Nursing	0	0
15	Cardiac Radiology	1	0
16	Cardiothoracic and Vascular Surgery	2	0
17	Community Ophthalmology (Dr RP Centre)	2	1
18	Dental Surgery	1	0
19	Dermatology and Venereology	5	0
20	Emergency Medicine	2	0
21	Endocrinology and Metabolism	9	0
22	Forensic Medicine	7	0
23	Gastroenterology and Human Nutrition Unit	9	0
24	Geriatric Medicine	2	0
25	Haematology	7	0
26	Laboratory Medicine	13	0
27	Laboratory Oncology	2	0
28	Medical Oncology (Dr BRA IRCH)	6	0
29	Medical Physics (Dr BRA IRCH)	4	0
30	Medicine	3	0
31	Microbiology	24	2
32	Neurobiochemistry	1	0
33	Neuropsychology (Neurosciences)	3	0
34	Neurology	20	0
35	Neurosurgery	4	1
36	Nuclear Magnetic Resonance	10	0
37	Nuclear Medicine	4	0
38	Neuroradiology	0	0
39	Obstetrics and Gynaecology	0	1
40	Ocular Biochemistry (Dr RP Centre)	5	0
41	Ocular Microbiology (Dr RP Centre)	1	0
42	Ocular Pathology (Dr RP Centre)	3	0
43	Ocular Pharmacology (Dr RP Centre)	5	0
44	Ophthalmology (Dr RP Centre)	5	1
45	Paediatrics	9	0
46	Paediatrics (Clinical/Epidemiology)	0	2
47	Paediatrics (Genetics/Basic Sciences)	6	1
48	Pathology	7	0
49	Pharmacology	18	0
50	Physiology	36	0
51	Psychiatry (Addiction Psychology)	1	0
52	Psychiatry (Clinical Psychology)	10	0
53	Psychiatry (Addiction Psychiatry)	3	0
54	Psychiatry (Clinical Psychiatry)	1	0

S. No.	Subject	Open	Sponsored
55	Pulmonary Medicine and Sleep Disorders	6	1
56	Radiation Oncology (IRCH)	2	0
57	Reproductive Biology	7	0
58	Radiotherapy	0	4
59	Surgery	3	3
60	Trauma Surgery	0	1
61	Transplant Immunology and Immunogenetics	7	0
62	Stem Cell	3	0
63	Centre for Integrative Medicine and Research (CIMR)	1	0
	Total	409	21

Subject-wise distribution of DM students on roll

S. No.	Subject	Open	Sponsored
1	Addiction Psychiatry (NDDTC)	10	1
2	Cardiac Surgical Intensive Care	0	0
3	Cardiac Anaesthesiology	14	2
4	Cardiology	22	3
5	Clinical Haematology	11	3
6	Clinical Pharmacology	3	1
7	Critical Care Medicine	21	2
8	Endocrinology	8	3
9	Gastroenterology	14	4
10	Haematopathology	8	3
11	Infectious Diseases	14	2
12	Medical Genetics	3	0
13	Medical Oncology	21	3
14	Neonatology	9	3
15	Nephrology	7	5
16	Neuro-Anaesthesiology and Critical Care	17	2
17	Neurology	31	3
18	Neuroimaging and Interventional Neuroradiology	4	1
19	Onco-Anaesthesia, Dr BRAIRCH	15	0
20	Paediatric Cardiology	3	2
21	Paediatric Nephrology	3	3
22	Paediatric Neurology	9	3
23	Paediatric Pulmonology and Intensive Care	3	3
24	Pulmonary, Critical Care and Sleep Medicine	12	3
25	Reproductive Medicine	2	0
26	Therapeutic Medicine	5	1
27	Vascular Radiology	9	1
	Total	278	57

Subject-wise distribution of MCh students on roll

S. No.	Subject	Open	Sponsored
1	Breast, Endocrine and General Surgery	5	1
2	Cardiothoracic and Vascular Surgery	26	1

3	Gastrointestinal Surgery	12	3
4	Gynaecologic Oncology	3	2
5	Head-Neck Surgery and Oncology	3	2
6	Minimal Access Surgery and General Surgery	7	1
7	Neurosurgery	17	2
8	Paediatric Surgery	5	3
9	Plastic and Reconstructive Surgery	11	2
10	Surgical Oncology	12	3
11	Trauma Surgery and Critical Care	12	1
12	Urology	8	2
	Total	121	23

Subject-wise distribution of Fellowship students on roll

S. No.	Subject	Open	Sponsored
1	Bariatric and Metabolic Surgery	1	0
2	Renal Transplant Surgery	0	0
3	Paediatric Cardiac Anaesthesia	1	0
4	Epilepsy Surgery and Functional Neurosurgery	2	0
5	Spine Surgery	1	0
6	Skull Base and Cerebrovascular Surgery (NS)	2	0
7	Paediatric Neurosurgery	0	0
8	Skull Base Surgery (ENT)	1	0
9	Uro-Oncology	0	0
10	Minimal Invasive Urology (Laparoscopic and Robotics)	2	0
11	Geniourinary Reconstructive Surgery (Adult)	0	0
12	GI Radiology	2	1
13	Thoracic Radiology	0	0
14	Paediatric Radiology	1	0
15	Minimally Invasive Gynaecological Surgery	1	1
16	Uro-Gynaecology	1	0
17	Blood and Marrow Transplantation	0	0
18	Stroke	1	0
19	Cleft and Craniofacial Orthodontics	1	0
20	Neuro-Critical Care	2	0
21	Aortic Surgery	2	0
22	Maternal Foetal Medicine (MFM) in Department of Obstetrics and Gynaecology	1	1
23	Clinical Research Methodology and Evidence Based Medicine	4	0
	Total	26	3

Subject-wise distribution of MCh (6 years course) on roll

S. No.	Subject	Open	Sponsored
1	Neurosurgery	21	0
2	Paediatric Surgery	10	0
	Total	31	0

Subject-wise distribution of DM (6 years course) on roll

S. No.	Subject	Open	Sponsored
1	Infectious Diseases	26	0
	Total	26	0

Subject-wise distribution of MD/MS/MDS students on roll

S. No.	Subject	Open	Sponsored
1	Anaesthesiology	44	3
2	Anatomy	17	0
3	Biochemistry	13	0
4	Biophysics	11	0
5	Community Medicine	23	2
6	Dermatology and Venereology	17	3
7	Emergency Medicine	22	2
8	Forensic Medicine	08	0
9	Hospital Administration (MHA)	08	4
10	Laboratory Medicine	08	1
11	Medicine	52	3
12	Microbiology	14	0
13	Nuclear Medicine	13	3
14	Obstetrics and Gynaecology	39	3
15	Ophthalmology	105	1
16	Paediatrics	33	3
17	Pathology	27	2
18	Pharmacology	13	1
19	Physical Medicine and Rehabilitation	09	2
20	Physiology	16	0
21	Psychiatry	30	3
22	Radiodiagnosis	25	0
23	Radiotherapy	09	2
24	Geriatric Medicine	14	3
25	Palliative Medicine	08	1
26	Transfusion Medicine	5	0
27	Orthopaedics	18	4
28	Otorhinolaryngology (ENT)	19	3
29	Surgery	53	3
30	Conservative Dentistry and Endodontics	9	1
31	Orthodontics	9	3
32	Prosthodontics	8	2
33	Oral and Maxillofacial Surgery	8	3
34	Pedodontics and Preventive Dentistry	6	0
	Total	713	61

Subject-wise distribution of MSc students on roll

S. No.	Subject	Open	Sponsored
1	Anatomy	10	1 (Foreign National)
2	Biochemistry	10	–
3	Biophysics	02	–
4	Pharmacology	10	1 (Foreign National)
5	Physiology	09	–
6	Perfusion Technology	12	–
7	Biotechnology	27	–
8	Nuclear Medicine Technology	18	–
9	Reproductive Biology	8	–
	Total	106	2

Subject-wise distribution of MSc (Nursing) students on roll

S. No.	Subject	Open	Sponsored
1	Cardiological/CTVS Nursing	6	1 (Foreign National)
2	Neurosciences Nursing	6	–
3	Paediatric Nursing	7	–
4	Psychiatric Nursing	5	–
5	Oncological Nursing	6	1 (Foreign National)
6	Nephrological Nursing	5	–
7	Critical Care Nursing	6	–
	Total	41	2

TRAINING PROGRAMMES

There is a provision for short term, long term and elective training for students and employees of various organizations in India as well as abroad. During 2017-18, 723 persons underwent training as mentioned below:

S. No.	Training	Number of trainees
1	Short term training: Indian nationals	662
2	Short term training: Foreign nationals	24
3	Long term training: Indian nationals	4
4	Elective training: Foreign nationals (UG students)	31
5	WHO fellows: Indian nationals	2
6	WHO fellows: Foreign nationals	0
	Total	723

Permission was granted for organizing 217 conferences/workshops to various department/faculty members.

COMMITTEE MEETINGS

The Academic Section organized meetings of the Academic Committee, Staff Council, Dean's Committee, Faculty and Research Presentations as per details given below:

S. No.	Committee	Number of Meetings
1	Academic Committee	1
2	Staff Council	1
3	Dean's Committee	1
4	Faculty (General Discussions)	8
5	Research Presentations	8

CONVOCATION

The 45th Annual Convocation was held on 16 January 2018 at the Jawaharlal Auditorium, AIIMS, New Delhi. The Honourable President of India, Shri Ram Nath Kovind addressed the convocation. He distributed Institute Medals/Awards to outstanding meritorious students and delivered the Convocation Address. The President, AIIMS and Honourable Minister of Health and Family Welfare, Government of India, Shri J.P. Nadda distributed the degrees.

4. Examination Section

Dean (Examinations)

S. Datta Gupta

Associate Dean (Examinations)

Ashok Kumar Jaryal

Assistant Controller of Examinations

O.P. Sharma

Accounts Officer

D.K. Gupta

EXAMINATIONS

During the period under review, the Examination Section conducted the following Professional and Entrance Examinations:

Postgraduate and Undergraduate Professional Examinations

S. No.	Month and year	Examination	Number of students			
			Appeared	Absent	Passed	Failed
1.	May 2017	DM	24	–	23	1
2.	-do-	MCh	18	–	18	–
3.	-do-	MD	120	1	116	3
4.	-do-	MS	20	–	17	3
5.	-do-	MDS	8	–	8	–
6.	-do-	Master in Hospital Administration	2	–	2	–
7.	-do-	Fellowship Programme	1	–	1	–
8.	-do-	MSc Courses	35	–	34	1
9.	-do-	MBiotechnology	10	–	10	–
10.	-do-	MSc (Nursing) Phase-I	22	–	22	–
11.	-do-	MSc (Nursing) Phase-II	22	–	22	–
12.	-do-	Second MBBS (Supplementary)	11	1	8	1 1RWH
13.	-do-	Final MBBS (Supplementary)	7	1	3	2 1RWH
14.	-do-	BSc Nursing (Post-Basic) Phase-I	27	1	23	3
15.	-do-	BSc Nursing (Post-Basic) Phase-II	20	–	20	–
16.	-do-	BSc (Hons) Nursing Phase-I	72	–	61	3 8 NE
17.	-do-	BSc (Hons) Nursing Phase-II	78	–	77	1
18.	-do-	BSc (Hons) Nursing Phase-III	70	–	70	–
19.	-do-	BSc (Hons) Nursing Phase-IV	71	–	67	4 NE
20.	July 2017	First Professional MBBS	78	–	67	11
21.	-do-	Bachelor of Optometry Phase-I	17	–	8	9
22.	-do-	Bachelor of Optometry Phase-II	17	–	9	8
23.	-do-	Bachelor of Optometry Phase-III	13	–	10	3
24.	-do-	BSc (Hons) Medical Techniques in Radiography Phase-I	10	–	8	2
25.	-do-	BSc (Hons) Medical Techniques in Radiography Phase-II	9	–	8	1

S. No.	Month and year	Examination	Number of students			
			Appeared	Absent	Passed	Failed
26.	-do-	BSc (Hons) Medical Techniques in Radiography Phase-III	9	–	9	–
27.	August 2017	First MBBS Professional (Supplementary)	7	–	2	5 NE
28.	November 2017	BSc (Hons) Ophthalmic Techniques Phase-I (Supplementary)	7	–	5	2
29.	-do-	BSc (Hons) Ophthalmic Techniques Phase-II (Supplementary)	9	–	7	2
30.	-do-	BSc (Hons) Ophthalmic Techniques Phase-III (Supplementary)	3	–	3	–
31.	-do-	BSc (Hons) Medical Techniques in Radiography Phase-I (Supplementary)	2	–	1	1
32.	-do-	BSc (Hons) Medical Techniques in Radiography Phase-II (Supplementary)	1	–	1	–
33.	December 2017	Second MBBS	75	–	66	3 6 NE
34.	-do-	Final MBBS	74	6	65	3
35.	-do-	BSc (Post Basic) Nursing Phase-I (Supplementary)	3	–	3	–
36.	-do-	BSc (Post Basic) Nursing Phase-II (Supplementary)	2	–	2	–
37.	-do-	BSc (Hons) Nursing Phase-I (Supplementary)	3	–	3	–
38.	-do-	BSc (Hons) Nursing Phase-II (Supplementary)	1	–	1	–
39.	-do-	BSc (Hons) Nursing Phase-III (Supplementary)	14	–	14	–
40.	-do-	BSc (Hons) Nursing Phase-IV (Supplementary)	5	–	5	–
41.	-do-	DM	33	–	32	1
42.	-do-	MCh	17	–	15	2
43.	-do-	MD	81	1	79	1
44.	-do-	MS	15	–	15	–
45.	-do-	MDS	8	–	8	–
46.	-do-	Master in Hospital Administration	1	–	1	–
47.	-do-	Fellowship Programme	12	–	12	–
48.	-do-	MSc Courses	1	–	1	–
49.	-do-	MSc (Nursing) Phase-I	1	–	–	1
50.	-do-	MSc (Nursing) Phase-II	–	–	–	–
51.	January 2018	Final MBBS (Compartmental examination)	1	–	1	–
Total			1167	9	1062	68+28

Entrance Examinations for Undergraduate and Postgraduate Courses

S. No.	Courses	Date of examination	Number of applicants	Number who appeared
1.	MD/MS/MDS (AIIMS), July Session 2017	7.5.2017	27791	22275
2.	DM/MCh/MD (Hosp Admn.) July Session 2017	8.4.2017	3326	2667
3.	Fellowship Programme July 2017 Session	15.4.2017	78	34
4.	MBBS (AIIMS) August Session 2017	28.5.2017	364242	284737

S. No.	Courses	Date of examination	Number of applicants	Number who appeared
5.	Online BSc (Hons) Nursing 2017	18.6.2017	10021	6495
6.	Online BSc Nursing (Post-Basic) 2017	10.6.2017 (Evening)	472	301
7.	Online BSc (Hons) Paramedical Courses 2017	10.6.2017 (Morning)	2797	1342
8.	Online MSc Courses 2017	24.6.2017 (Evening)	945	573
9.	Online MSc Nursing 2017	24.6.2017 (Morning)	2962	1925
10.	Online MBIotechnology Entrance Examination 2017	15.7.2017	641	268
11.	Senior Residents Recruitment Examination, July 2017 Session	4.6.2017	1536	1140
12.	PhD July Session 2017	8.9.2017	317	228
13.	Senior Residents Recruitment Examination, January 2018 Session	25.11.2017	1086	773
14.	MD/MS/MDS (AIIMS) January 2018 Session	12.11.2017	52263	44967
15.	DM/MCh/MD (Hosp Admn,) January 2018 Session	5.11.2017	2926	2164
16.	PhD January 2018 Session	10.2.2018	305	235
17.	Fellowship Programme January 2018 Session	18.11.2017	84	48
		Total	471792	370172

Candidates Passed in PhD Viva-Voce: 60 (Sixty)

Examinations for Recruitment

S. No.	Name of examination	Online CBT* examination	Number who applied	Number who appeared
1.	Personal Assistant (<i>Departmental</i>)	6.8.2017	44	44
2.	Personal Secretary (<i>Departmental</i>)	6.8.2017	11	05
3.	Stenographer (<i>Departmental</i>)	6.8.2017	14	09
4.	Medical Social Service Officer Grade-II	19.8.2017	243	69
5.	Workshop (Rehabilitation and Artificial limbs [R and AL])	19.8.2017	21	08
6.	Pharmacist Grade-II	26.8.2017	4037	1004
7.	Assistant Security Officer	3.9.2017	403	146
8.	Nursing Officer	11.9.2017	32187	18954
9.	Workshop (R and AL) Technician Grade-II (Leather Worker)	16.9.2017	15	02
10.	Medical Record Technician (<i>Departmental</i>)	16.9.2017	289	255
11.	Programmer	23.9.2017	960	127
12.	Public Health Nurse	23.9.2017	1501	174
13.	Security cum Fire Guard (Online CBT Exam) (Stage-I)	7.10.2017	4865	1468
14.	Physical Standard Test (Stage-II)	6.11.2017	151	145
15.	Physical Efficiency Test (Stage-III)	27.11.2017– 28.11.2017	138	126
16.	Library attendant Grade-II	16.12.2017	19	07
17.	Store keeper (General)	16.12.2017	189	87
18.	Draftsman Grade-III	16.12.2017	122	62
19.	Lower Division Clerk (Skill test)	21.1.2018	34	26
	Total		45243	22718

*CBT Computer based test

Entrance Examinations conducted

1. AIIMS PG Entrance Examination for admission to MD/MS/MDS courses was conducted on 7 May 2017 for July 2017 session at 54 centres (Delhi 7, Outstation 47) and 12 November 2016 for January 2018 session at 116 centres (Delhi 6, Outstation 110), respectively. The results were declared on 13 May 2017 and 18 November 2017, respectively.
2. Selections for various Post-Doctoral (super-specialty) courses, viz. DM/MCh/Fellowship/MD (Hospital Administration) for July 2017 and January 2018 sessions were made on the basis of a 2-stage performance evaluation between 8 and 26 April 2017, and 5 and 22 November 2017, respectively.
3. The Institute also conducted online test for Senior Residents/Senior Demonstrators for July 2017 session on 4 June 2017 and for January 2018 session on 25 November 2017, respectively.
4. Selections of candidates for registration to PhD programme for July 2017 and January 2018 sessions were made on the basis of 2-stage performance evaluation between 8 and 22 September 2017, and 10 and 23 February 2018, respectively.
5. The Entrance Examination for admission to MBBS course of AIIMS including six new AIIMS-like Institutes for August 2017 session was held in 537 (Local 13 and outstation 524) centres in 169 cities of India on 28 May 2017.
6. BSc (Hons) Nursing Entrance Examination was held in Delhi and 6 AIIMS (Bhopal, Bhubaneswar, Jodhpur, Patna, Raipur and Rishikesh) on 18 June 2017 in CBT online mode.
7. The Entrance Examination for admission to MSc course was held on 24 June 2017 and MBiotechnology courses August 2017 session was held in Delhi on 15 July 2017 in online mode.
8. The Entrance Examination for admission to MSc Nursing course was held on 24 June 2017 in Delhi only in CBT online mode. The admission was made by allotment of seats on merit basis through counseling on 1 August 2017.
9. BSc Nursing (Post-Basic) Entrance Examination was held in Delhi in CBT online mode on 10 June 2017 followed by the personal assessment of candidates on 23 June 2017.
10. The Entrance Examination for admission to Para-Medical courses, namely BSc (Hons) in Bachelor of Optometry and BSc (Hons) Medical Technology in Radiography for August 2017 session was held in Delhi in CBT online mode on 10 June 2017. The admissions to these two courses were made by allotment of seats on merit basis through counseling on 1 July 2017 and 11 July 2017 and open counseling on 19 September 2017.
11. The Entrance Examinations for fellowship programme for July 2017 session and January 2018 session were conducted in Delhi on 15 April 2017 and 18 November 2017, respectively.

Participation in other events

1. The Examination Section actively participates in the counseling for admission to AIIMS-PG, MBBS, BSc (Hons) Para-Medical, MSc (Nursing) courses and personal assessment for BSc (Nursing) Post-Certificate course.
2. Examination Section is also providing technical expertise to various Universities and Institutions in India for conducting their Entrance Examinations.

SIGNIFICANT EVENTS

The Examination Section, AIIMS plays a very pivotal role in conducting AIIMS Entrance and Recruitment Examinations. It is important to mention here that Entrance Examinations are conducted for Admission of students in various undergraduate and postgraduate courses of AIIMS, New Delhi as well as for other 6 AIIMS situated at Bhopal, Bhubaneswar, Jodhpur, Patna, Raipur and Rishikesh as per the direction of Ministry of Health and Family Welfare, Government of India, New Delhi. Sometimes as per direction of the Ministry, in addition to other examinations some Recruitment Examinations are being conducted to cater to the needs of Ministry and other 6 AIIMS.

To conduct these Examinations in more transparent, secure and efficient manner, Examination Section has revamped its conduct of Examination System from 2015 onwards. Since then all examinations, entrance or recruitment, are being conducted only through online (CBT) mode. In 2017-18, Examination Section has made a record of conducting the largest number of recruitment examinations in a year. This year more than 19 recruitment examinations were conducted in addition to 17 entrance examination.

To understand the quantum of work at Examination Section, the MBBS Entrance Examination 2017 was conducted through online (CBT) mode in 167 cities, 537 centres spread all over the country for 3,64,242 candidates in two shifts. It is the largest online examination in Medical Education in India conducted in a single day.

During the year, the Examination Section made some significant improvements in conducting examinations as well as improving governance in the Section. The details are as under:

- To improve the quality of examinations in terms of transparency, vigilance and fairness, the Examination Section has made mandatory installation of CCTVs in all Entrance and Recruitment Examinations from this year.
- To become more self-sufficient, the Examination Section has installed 240 desktops in both the Examination Halls for conducting Professional and other Entrance Examinations within the Section.

- To improve governance, the Examination Section has installed Visitor Management system and Access Control system in the Section.
- The Examination Section received approval for travel of Group B and C staff on Examination Duty by air (Air India). This facility has been useful in reducing disturbance to hospital services while conducting examinations. After availing this facility, Group B and C staff deployed across the country, travel by air to the destination and return on the same or next day after completing the examination. Earlier due to long distance travel by train, the staff was away for a longer period. Thus significant man hours are being saved with benefit to hospital services.
- To improve the payment system during online registration process in addition to SBI, the Paygov., Payment gateway has been launched. Now, candidates do not have any problem regarding their payment.
- The Examination Section has initiated booking hotels and Air ticket facilities for External Examiners coming from across the country for conducting practical/viva-voce examinations, etc. This process has helped the examiners, departments and other stakeholders as this process they do not have to pay any money from their pocket and all the processes are completed by the Examination Section through their service provider on credit basis as per agreement. In this process a good initiative has also been taken of issuing cheques towards the examiners TA/DA Bill just after completing the Practical/viva voce examinations.
- The Examination Section is grateful for the infrastructure assistance and help rendered by Central Industrial Security Force (CISF) in conducting the Physical Efficiency Test (PET) for posts of Fire-cum-Security Guard. The said posts could not be filled for several years due to non-availability of infrastructure for conducting the PET.
- The Examination Section has initiated Online Seat Allocation Process for the first time for PG Entrance Examination in November 2017. This was conducted from all rounds except for the Open Round for PG courses in Medical and Dental specialties in AIIMS, New Delhi and other AIIMS-Bhopal, Bhubaneshwar, Jodhpur, Raipur and Rishikesh. Candidates do not have to travel to Delhi for counselling, and selected candidates can now join directly in the respective AIIMS.

5. General Administration

Deputy Director (Administration)

Dr K. Rajeswara Rao (upto 20 April 2017) R.K. Sudhanshu (from 20 April 2017 to 28 February 2018)
Subhasish Panda (from 9 March 2018)

Deputy Secretary

Dr M. Bajpai

Chief Administrative Officer

Dr Maneesh Singhal (up to 7 May 2017) Dr Sanjay Kumar Arya (from 8 May 2017)

Superintending Engineer

Manjul Rastogi

Chief Procurement Officer

Anil Bhatia (up to 19 October 2017)

Chief Security Officer

Satyendra Kumar (from 16 January 2018)

Deputy Chief Security Officer

R.S. Rawat

Executive Engineers

Vidya Bhushan Vinod Kumar Sharma Deepak Kumar Bhutale
Joginder Malhotra Pradeep Kumar (from 1 December 2017) S.K. Rao (from 1 February 2018)

Senior Administrative Officer

Ajay Kumar Deo Nath Sah

Administrative Officer

Binod Kumar Singh Narender Kumar Renu Bhardwaj
Pallav Kumar Chhitej Lalit Oraon Chakravarthy E.V.S.
Satish Kumar Singh Bhupinder Singh Gill (from 16 June 2017) Raj Kumar (from 16 June 2017)
Rajendran Pillai G. (from 22 June 2017) Anita Tete (from 4 August 2017) Nikhil Bhatnagar (from 1 January 2018)

Assistant Administrative Officer

Sunder Lal Chamoli Ealia P.I. Bhoop Singh (from 29 December 2017)
Narender Kumar Gupta Sasidharan Nair KG Mohanan P.S.
(all from 29 December 2017)

Senior Stores Officer

Pradeep Kumar Gupta

Store Officers

Rakesh Kumar Sharma Narender Kumar
Bhawani Ram Arvind Kumar Sharma

The general administration, including personnel and establishment security, estate, matters related to engineering services department, stores, vigilance and public relations activities of the institute are controlled and supervised by the Deputy Director (Administration). There are various branches looking after the above mentioned areas. Each branch is headed by a senior officer with supportive officers and staff members.

Responsibilities of establishment section and general administration include appointments, arranging meetings of the statutory committees, management of estate and property, purchase of equipment, materials and consumables, security arrangements, employees' welfare, etc.

The total sanctioned staffs of the institute are 11,767 and include staff of all Centres/Main Hospital/D.O. The number of group-wise sanctioned strength and staff in-position is given below.

S. No.	Category/Group	Sanctioned Strength	In-position
1.	Faculty	993	689
2.	'A'	624	406
3.	'B'	6177	5171
4.	'C'	4845	4193
	Total	12,639	10,459

Composition of SC/ST Cell at AIIMS, New Delhi

Liaison Officer

Dr Rajpal, Professor of Ophthalmology
Dr R. P. Centre, AIIMS

Administrative Officer

Anita Tete

Upper Division Clerk

Anil Kumar Tejwani

During the year 2017-2018 various representations from SC/ST category employees were received in the SC/ST Cell, AIIMS which is as under:

Total number of representations received:	3
Total number of cases resolved/disposed off:	1
Total number of cases under consideration:	2

Brief summary of the cases is as under:

1. Complaint of Sh. Ghanshayam Dagar, against social humiliation and mental harassment. The matter has been disposed off.
2. Representation of Shri Mukesh Kumar, Laboratory Technician, Genetic Department against Ms Rashmi Shukla regarding humiliation, mental harassment and discrimination by caste catch words.
3. Representation of Shri Lal Chand, Sanitary Attendant Hostel against Mrs Sunil, Hostel Warden, regarding torture and use of unparliamentary language.

6. Main Hospital

Medical Superintendent

D. K. Sharma

Department of Hospital Administration

Professor and Head

Sidhartha Satpathy

Professors

I.B. Singh

Sanjay Kumar Arya

Associate Professors

Nirupum Madaan

Amit Latwal

Anoop Daga

Mahesh R.

Assistant Professors

Angel Rajan Singh

Parmeshwer Kumar

Vijaydeep Sidharth

Kanika Jain

Abdul Hakim

Bed Complement

Bed Category	Main Hospital	Cardiothoracic and Neurosciences Centre	Centre for Dental Education and Research
General	836	317	17
Intensive Care	92	74	0
Observation	69	9	0
Private Ward	165	64	0
Total	1162	464	17

Hospital Performance Indices

Parameters	Main Hospital		CNC		CDER	Inference
	2017-2018	2016-2017	2017-2018	2016-2017	2017-2018	
Average length of stay (days)	9.3	9.8	9.8	9.6	5.5	Effective utilization of beds for regular admissions
Average bed occupancy rate (%)	86.4	86.9	87.9	91.5	71.9	Fair occupancy
Net death rate (%)	1.8	1.7	2.8	3.1	0.02	Low mortality rate despite a large number of critically ill patients admitted
Combined crude infection rate (%)	6.0%	6.9%	–	–	–	

6.1. Medical Records Department

Chief Medical Record Officer (Acting) and Sub-Registrar, Births and Deaths

Patty S. Lyngdoh

EDUCATION

1. A group of 25 BSc (PB) Nursing 1st year students have joined the College of Nursing, AIIMS visited Medical Record Section, Main Hospital and a brief lecture was delivered on Medical Record Management at AIIMS by the Chief Medical Record Officer (Actg.)/Jr. Medical Record Officer on 4 August 2017
2. Mr. Ashok Kumar, Jr. Medical Record Officer was nominated to deliver a lecture/presentation on the topic of Hospital Statistics at JPN Apex Trauma Centre in the workshop cum CME Programme on 22 May 2017
3. Dr S.S. Gupta, Medical Superintendent, Patna AIIMS and Dr Vijay Tadia, Sr. Resident Hospital Administration, AIIMS visited the Medical Record Department and Raj Kumari Amrit Kaur OPD and get to know about the functioning of the Medical Records and a brief discussion about Medical Record Management was discussed in order to start a proper MRD in their hospital on 4 September 2017. They also visited the scanning room and a detailed was held discussion about the future aspect of digitalized record

TRAININGS

1. Mr. Sandeep M. Singh, Jr. Medical Record Officer, Main Hospital has been nominated for one year Medical Record Officer training programme organized by the CBHI, Ministry of Health and Family Welfare, Government of India at Safdarjung Hospital, New Delhi during the year

COURT ATTENDANCE

1. A total number of **611** summons/notices were received in the Medical Record Section (Main Hospital) from various courts of Delhi and outside Delhi. The concerned doctors/consultants (as per case) and staffs from the Medical Record Department have been deputed to attend the court on behalf of AIIMS Hospital to depose/settle the case

Aid in Medical Education and Research

1. Approximately **6600** medical case records (Case sheets) have been retrieved and issued to the residents authorized by the concerned consultants for research, education and other official purposes

Computerization and Digitization of Medical Records

1. Central Admission Office and Hospital Enquiry Section of Main Hospital including Medical Records Section, Ward areas of Main Hospital and C.N. Centre have been computerized and inter-connected with the software of NIC
2. Digitization of inpatient medical records of Main Hospital was started from the year 2014 for easy retrieval of records. More than 1.20 lakhs images of case records of the patients have been scanned for future reference

In-Patient Services

1. The yearly statistical health bulletin at a glance of Main Hospital, C.D.E.R. and C.N. Centre of AIIMS is given at Table I
2. The AIIMS hospital has maintained its tradition of services and quality of patient care in spite of increasing number of patients who visited the hospital from all over India as well as from abroad. A total of **1,38,398** patients were admitted during the financial year in various clinical units of Main Hospital, C.N. Centre and C.D.E.R. The details of patient load are given in Table II and Figures 1 and 2. The details of deaths department-wise and its indices are given in Table III
3. A total number of **1,26,812 Surgical Procedures** (Major and Minor) were performed during the year in various Surgical Disciplines of Main Hospital, C.N. Centre and Centre for Dental and Education Research (CDER; Table IV)
4. Medical record of indoor patients are systematically classified and categorized for easy retrievals for the purposes of education, research/thesis, presentation, insurance, court cases etc. These records are stored in the compactors according to C.R. Numbers. All the in-patient records of Main Hospital, C.N. Centre and Centre for Dental and Education Research (CDER) are maintained separately by Medical Record Section of the Main Hospital
5. In addition to the above activities, the following departments have commissioned their special clinics in OPD and inpatient admissions to facilitate the care of health services during this year:

S. No.	Name of Clinic	Location
1.	Obesity and Metabolic Disorder Clinic, Department of Medicine	Medicine OPD
2.	Department of Neuroimaging and Interventional Neuroradiology	Room No. 18 CNC OPD
3.	Photodermatology, Phototherapy and Paediatric Dermatology, Department of Dermatology and Venereology	Room No. 1143

1. The number of beds have been increased in the following centre/departments for inpatient admissions to facilitate health services:

S. No.	Centre/Department	No. of Beds	Location	Date Commissioned
1.	C.N. Centre	42 (General)	C. N. Centre	21 October 2017 (after renovation)
2.	Plastic reconstructive and burn surgery	1 (General)	C-7 Ward	1 March 2018
3.	Orthopaedics	6 (General)	AB-1 Ward	20 March 2018

Central Admission Office and Hospital Enquiry

1. The Central Admission Office and Enquiry (CAO&E) of AIIMS functions round the clock for 365 days without break
2. All admissions to the inpatient areas of Main Hospital, C.N. Centre and C.D.E.R. are made through this office. It functions like the heart of the institute and performing important functions like patient registration for initiation of Admission Slip (Face-Sheet) and issuing of attendant passes etc
3. The Admission Office also gives information to several ministries as well as to the higher authorities of AIIMS about the hospitalization of VIPs/VVIPs
4. In addition, the office also functions as a general enquiry providing prompt and accurate information regarding the patients and the institute. The staffs working there are on shift duties and are manned by receptionists, Jr. Medical Record Officer and Medical Record Technicians etc

Out Patient Department and Specialty Clinics

1. A total number of **20,88,171 patients** attended various General Out-Patients Department (OPD), Specialty Clinics and Emergency Department of the Main Hospital, AIIMS. The details of the out-patients load profile are given in Table V

Medical Records: Revamping and Cleanliness

1. The Medical Records Section has undergone major spatial reorientation in the past year with the shifting of records in the 1st Floor near the Store Section from the Main Record Room. The basement has been cleaned and partially vacated. These services have been appreciated under the **Kaya-Kalp** Scheme. All records has been catalogued and stored on-site in compactors. The team of Kaya-Kalp representative visited the Medical Record Section, Main Hospital and are fully satisfied with the way it functions, maintenance and destruction policy of the medical records. The following pictures were taken during their visit in the Medical Record Department:





Other Activities:

S. No.	Name of Activity	Total Numbers
1.	Amendments made in the Inpatients Records during the year	750
2.	Amendments made in the Birth Records during the year	343
3.	Amendments made in the Death Records during the year	421
4.	Admission and other charges exempted for indigent patients and patients admitted under JSSK Scheme in Main Hospital and CDER	20,956
5.	Admission and other charges exempted for indigent patients and patients admitted under JSSK Scheme in C.N. Centre	963

The statistical data for the year 2017-2018 (Annual Report) has been prepared/compiled by Mr. Rajbir Singh, Medical Record Technician under the supervision of Chief Medical Record Officer (Actg.).

Table I. Yearly Statistical Health Bulletin

Sr. No.	Item	Main Hospital		CT and NS Centres		CDER
		2017-2018	2016-2017	2017-2018	2016-2018	2017-2018
1.	Patients admitted	1,15,276	1,11,608	21,745	21,272	1377
	a. Adults and Children	1,12,781	1,08,949	–	–	–
	–Regular	34,940	34,013	13,388	13,742	838
	–Short	77,841	74,936	8,357	7,530	539
	b. Newborn infants	2495	2659	–	–	–
	–Regular	2495	2657	–	–	–
	–Short	–	2	–	–	–

2.	Patients discharged (including LAMA, absconded, discharge on request and deaths)	1,11,708	1,07,285	21,249	20,549	1351
	a. Adults and Children	1,09,284	1,04,686	–	20,549	–
	–Regular	34,264	32,954	13,118	13,362	808
	–Short	75,020	71,732	8131	7187	543
	b. Newborn infants	2424	2599	–	–	–
	–Regular	2424	2597	–	–	–
	–Short	–	02	–	–	–
3.	Total Days of Care	4,15,059	4,19,302	1,37,342	1,35,373	4942
	a. Adults and children	3,97,173	4,00,787	–	–	–
	–Regular	3,22,153	3,29,055	1,29,211	1,28,186	4399
	–Short	75,020	71,732	8131	7187	543
	b. Newborn infants	17,886	18,515	–	–	–
	–Regular	17,886	18,513	–	–	–
	–Short	–	2	–	–	–
4.	Average length of stay of regular patients	9.3%	9.8%	9.8%	9.6%	5.4%
	a. Adults and children	9.4%	10.0%	–	–	–
	b. Newborn infants	7.4%	7.1%	–	–	–
5.	Total patient care days (as per daily census)	3,41,746	3,49,335	1,38,171	1,37,939	4454
	a. Adults and children	3,39,062	3,46,408	–	–	–
6.	Daily average number of patients (as per daily census)	936	957	379	378	12
	a. Adults and children	929	949	–	–	–
	b. New born Infants	7	8	–	–	–
7.	Average bed occupancy (%)	86.4	86.9	87.9	91.5	71.9
	a. Adults and children (%)	85.7	86.2	–	–	–
	b. Newborn infants (%)	0.7	0.7	–	–	–
8.	Births in hospital	2495	2659	–	–	–
	a. Male	1284	1386	–	–	–
	b. Female	1209	1269	–	–	–
	c. Intersex	02	04	–	–	–
9.	Total inpatient deaths (including newborns)	3327	3035	887	944	01
	a. Deaths under 48 hours	1319	1181	307	311	–
	b. Deaths over 48 hours	2008	1854	580	633	01
	c. Gross death rate (%)	3.0	2.8	4.2	4.6	0.02
	d. Net death rate (%)	1.8	1.7	2.8	3.1	0.02
10.	Total attendance in casualty	1,51,891	1,62,523	–	–	–
	a. Deaths	1609	1925	–	–	–
	b. Brought dead	1135	1286	–	–	–
11.	OPD attendance including special clinics (Main Hospital)	19,36,280	18,41,854	–	–	–
	a. New cases	7,49,073	7,37,103	–	–	–
	b. Old cases	11,87,207	11,04,751	–	–	–

Table II. Department-Wise Admissions (Main Hospital, CN Centre and CDER)

Department	Admissions		Discharges (Including LAMA, Absconded, OR, Deaths)		Total Days of Care		Average Length of Stay
	Regular	Short	Regular	Short	Regular	Short	Regular
Anaesthesiology (Pain Clinic)	0	650	0	631	00	631	0.0
Dermatology and Venereology	756	2546	733	2499	9465	2499	12.9
Endocrinology and Metabolism	438	167	443	164	7955	164	18.0
Gastroenterology and Human Nutrition	2030	2508	1972	2420	19,969	2420	10.1
Gastrointestinal surgery and Liver transplantation	922	393	897	396	12,906	396	14.4
Geriatric Medicine	882	688	878	679	8618	679	9.8
Haematology	950	13,420	952	13,282	18,087	13,282	19.0
<i>Medicine</i>							
Unit I	1094	247	1072	216	11,049	216	10.3
Unit II	1258	459	1213	422	11,785	422	9.7
Unit III	1025	332	1063	297	9485	297	8.9
Nephrology	1102	9263	1016	8896	17,458	8896	17.2
Newborn	2495	00	2424	00	17,886	00	7.4
Neonatal ICU	171	11	183	9	1359	9	7.4
Nuclear Medicine	339	265	254	346	433	346	1.7
<i>Obstetrics and Gynaecology</i>							
Unit I	2282	2190	2335	2101	16,195	2101	6.9
Unit II	2259	2177	2144	2145	14,138	2145	6.6
Unit III	2159	1970	2106	1881	15,438	1881	7.3
Orthopaedics I	1238	2032	1337	1756	11,111	1756	8.3
Orthopaedics II	1265	2056	1190	1887	10,777	1887	9.1
Otorhinolaryngology I	600	1411	528	1323	4483	1323	8.5
Otorhinolaryngology II	501	1302	499	1375	4528	1375	9.1
Otorhinolaryngology III	534	1330	582	1221	4183	1221	7.2
Oncology (Main)	441	00	439	00	2266	00	5.2
Paediatrics I	1104	4249	1049	4164	8490	4164	8.1
Paediatrics II	679	1611	683	1607	7210	1607	10.6
Paediatrics III	998	9362	921	9157	8101	9157	8.8
Paediatric Surgery	1534	1917	1502	1875	15,789	1875	10.5
Physical Medicine and Rehabilitation	37	00	36	00	1250	00	34.7
Psychiatry	304	00	242	00	8548	00	35.3
Pulmonary Medicine and Sleep Disorders	986	4908	971	4653	10,125	4653	10.4
Plastic Reconstructive and Burns Surgery	363	208	356	171	1661	171	4.7
Radiotherapy	4	00	4	00	7	00	1.8
Rheumatology	17	1415	15	1408	165	1408	11.0

Surgery I	1140	840	1057	766	9550	766	9.0
Surgery II	1424	801	1441	633	9183	633	6.4
Surgery III	892	582	1011	461	8705	461	8.6
Surgery IV	1518	885	1446	727	9380	727	6.5
Urology	1694	5646	1694	5452	12,301	5452	7.3
Total (Main)	37,435	77,841	36,688	75,020	3,40,039	75,020	9.3

Cardiology	4311	4560	4264	4500	28,852	4500	6.8
Cardiothoracic and Vascular Surgery	3443	17	3421	17	36,638	17	10.7
Neurology I	1065	770	1027	732	9300	732	9.1
Neurology II	774	814	739	819	7360	819	10.0
Neurology III	870	725	823	726	8918	726	10.8
Neurosurgery I	1363	746	1275	728	19,067	728	15.0
Neurosurgery II	1378	512	1384	438	17,884	438	12.9
Neuroradiology	184	213	185	171	1192	171	6.4
Total (CNC)	13,388	8357	13,118	8131	1,29,211	8131	9.8
CDER	838	539	808	543	4399	543	5.4

Figure 1. Gender distribution of patients in Main Hospital, CN Centre and CDER

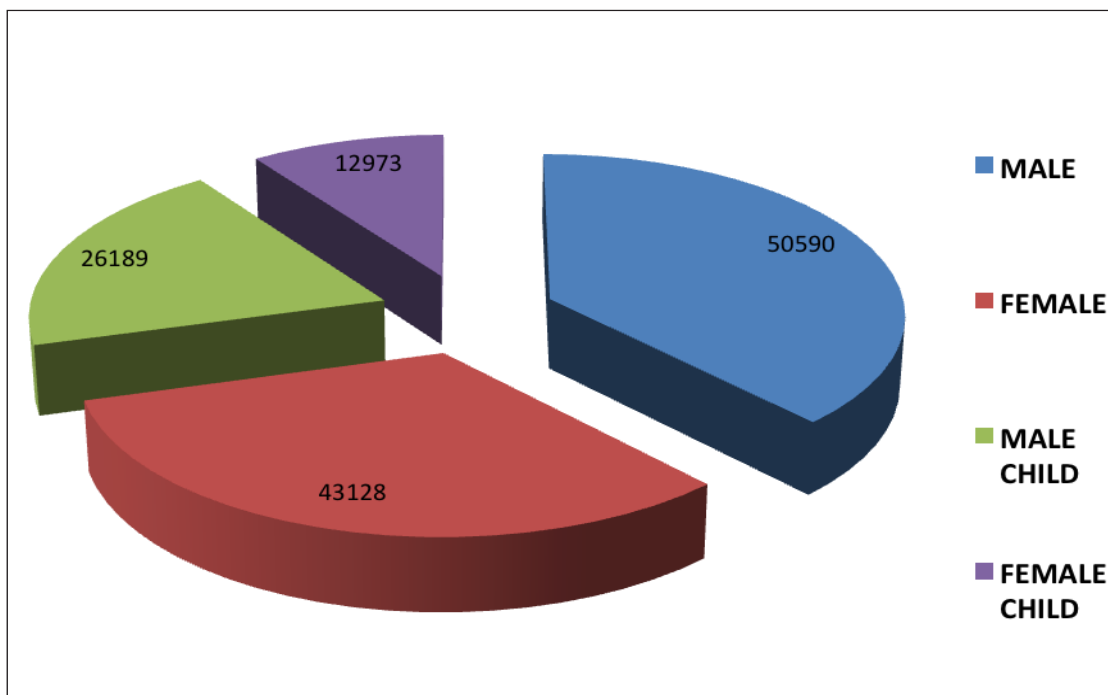


Table III. Department-Wise Deaths in Main Hospital and CN Centre*

Department	Total Deaths	Deaths under 48 hours	Deaths over 48 hours	Gross Death Rate (%)	Net Death Rate (%)
	00	00	00	0.0	0.0
Dermatology and Venereology	6	1	5	0.2	0.2
Endocrinology and Metabolism	6	00	6	1.0	1.0

Department	Total Deaths	Deaths under 48 hours	Deaths over 48 hours	Gross Death Rate (%)	Net Death Rate (%)
Gastroenterology and Human Nutrition	581	263	318	13.2	7.7
Gastrointestinal Surgery and Liver Transplantation	64	14	50	4.9	3.9
Geriatric Medicine	222	73	149	14.3	10.0
Haematology	340	122	218	2.4	1.5
Medicine I	338	148	190	26.2	16.7
Medicine II	365	152	213	22.3	14.4
Medicine III	295	133	162	21.7	13.2
Nephrology	157	54	103	1.6	1.0
Newborns	31	14	17	1.3	0.7
Neonatal ICU	11	02	09	5.7	4.7
<i>Obstetrics and Gynaecology</i>					
Unit I	4	1	3	0.09	0.07
Unit II	3	2	1	0.07	0.02
Unit III	6	2	4	0.2	0.1
Orthopaedics I	6	00	6	0.2	0.2
Orthopaedics II	5	00	5	0.2	0.2
Otorhinolaryngology I	5	4	1	0.3	0.05
Otorhinolaryngology II	6	1	5	0.3	0.3
Otorhinolaryngology III	5	2	3	0.3	0.2
Oncology (Main)	213	136	77	48.5	25.4
Paediatrics I	61	21	40	1.2	0.8
Paediatrics II	58	24	34	2.5	1.5
Paediatrics III	97	32	65	1.0	0.6
Paediatric Surgery	64	16	48	1.9	1.4
Psychiatry	1	00	1	0.4	0.4
Pulmonary Medicine and Sleep Disorders	224	58	166	4.0	3.0
Radiotherapy	2	1	1	50.0	33.3
Surgery I	42	8	34	2.3	1.9
Surgery II	38	8	30	1.8	1.5
Surgery III	28	10	18	1.8	1.2
Surgery IV	32	13	19	1.5	0.9
Urology	11	4	7	0.2	0.1
Total (Main)	3327	1319	2008	3.0	1.8

Cardiology	298	175	123	3.4	1.4
Cardiothoracic and Vascular Surgery	274	41	233	8.0	6.9
Neurology I	60	21	39	3.4	2.2
Neurology II	59	16	43	3.8	2.8
Neurology III	36	11	25	2.3	1.6
Neurosurgery I	79	19	60	3.9	3.0

Department	Total Deaths	Deaths under 48 hours	Deaths over 48 hours	Gross Death Rate (%)	Net Death Rate (%)
Neurosurgery II	78	23	55	4.3	3.1
Neuroradiology	3	1	2	0.8	0.6
Total (CNC)	887	307	580	4.2	2.8

*There were no deaths in the following departments: Anaesthesiology (Pain Clinic), Nuclear Medicine, Physical Medicine and Rehabilitation, Plastic Reconstructive and Burn Surgery, and Rheumatology.

Figure 2. Geographical distribution of inpatients in Main Hospital, CN Centre and CDER

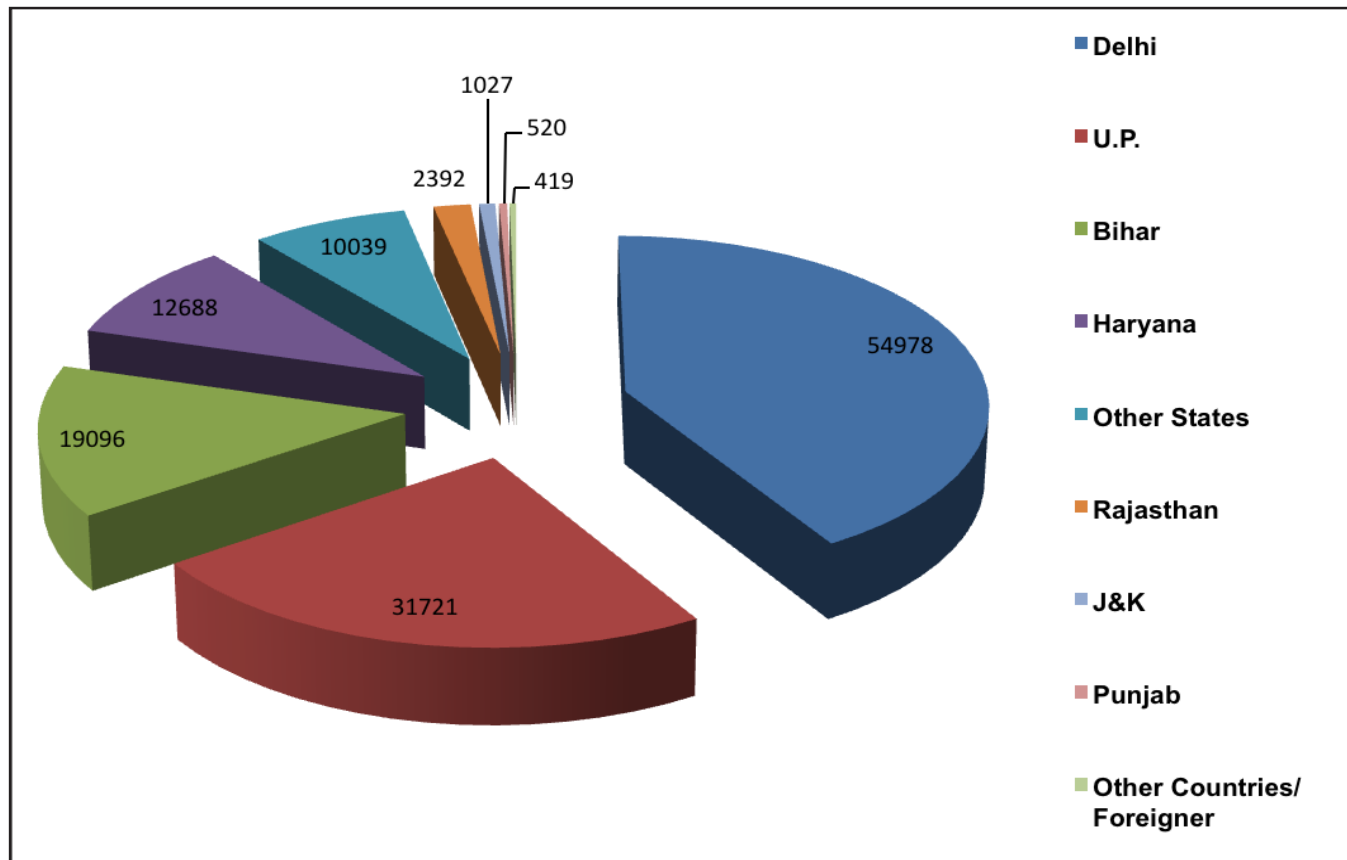


Table IV. Surgical Procedures Done in the Main hospital, CN Centre and CDER

Department	Major	Minor		Total
		In-Patient Cases	Outpatient Cases	
Surgery I	871	499	4013	5383
Surgery II	1278	465	2694	4437
Surgery III	835	276	2744	3855
Surgery IV	1260	620	3318	5198
Gastrointestinal Surgery and Liver Transplantation	618	00	00	618
Urology	1664	621	12,283	14,568
Obstetrics	1242	1098	00	2340
IVF OT	00	1154	00	1154
Gynaecology I	1039	539	00	1578
Gynaecology II	1092	822	00	1914
Gynaecology III	636	597	00	1233

Foetal Medicine	00	818	00	818
Otorhinolaryngology I	902	843	7706	9451
Otorhinolaryngology II	883	673	7456	9012
Otorhinolaryngology III	929	669	7947	9545
Orthopaedics I	1892	728	00	2620
Orthopaedics II	1692	1323	00	3015
Paediatric Surgery	1724	515	00	2239
Casualty	00	221	00	221
Plastic Reconstructive and Burn Surgery	369	162	1548	2079
Anesthesiology (Pain Clinic)	54	612	00	666
Haematology	04	00	00	04
Physical Medicine and Rehabilitation	00	00	4409	4409
Dermatology and Venereology	00	00	10082	10082
Total (Main)	18,984	13,255	64,200	96,439

Cardiothoracic and Vascular Surgery	4141	00	00	4141
Neurosurgery I	1488	78	00	1566
Neurosurgery II	1643	105	00	1748
Total (CN Centre)	7272	183	00	7455

Dental Surgery/CDER	740	482	21,696	22,918
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Table V. Department-Wise Attendance in Outpatients in Main Hospital, CN Centre and CDER

Specialty		New Cases	Old Cases	Total
Medicine	General	69,760	1,05,007	1,74,767
	Specialty Clinics			
	Obesity and Metabolic Disorders	181	134	315
Rheumatology	General	4917	16,745	21,662
	Specialty Clinics			
	Rheumatology	57	5024	5081
Geriatric Medicine		18,032	37,181	55,213
Pulmonary Medicine and Sleep Disorders	General	13,009	21,069	34,078
	Specialty Clinics			
	Sleep Disorder	198	301	499
	Lung Cancer	460	2193	2653
	ILD-PAH	264	1219	1483
	Combined Pulmonary Surgery	255	465	720
Nuclear Medicine		2075	9163	11238
Endocrinology		13,106	36,733	49,839
Nephrology	General	11,823	41,107	52,930
	Specialty Clinics			
	Transplant	111	10,859	10,970
	Renal Transplant Counseling	509	1741	2250

Haematology		9425	11,377	20,802
Gastroenterology		27,102	44,861	71,963
Pediatrics	General	37,087	57,820	94,907
	Specialty Clinics			
	Well Baby	561	08	569
	Follow up Tuberculosis	245	1461	1706
	Renal	306	2543	2849
	Paediatric Neurology	979	4916	5895
	Paediatric Chest	488	3721	4209
	High Risk Neonatal	310	1706	2016
	Genetic and Birth Defects	2847	1093	3940
	Oncology	308	2209	2517
	Child Development	1092	1994	3086
	Endocrinology	159	1263	1422
	Neurocysticercosis	201	1401	1602
	P.C.S.C.	163	1209	1372
	Rheumatology	327	2058	2385
	Myopathy	397	1426	1823
	Paediatric Gastroenterology	466	2168	2634
Autism	181	347	528	
Dermatology	General	37,155	55,254	92,409
	Specialty Clinics			
	STD (Dermatology Surgery)	1417	2778	4195
	Allergy	596	2269	2865
	Leprosy	254	2491	2745
	Psoriasis	326	1942	2268
	Dermo-Surgery	1121	1027	2148
	Vitiligo	337	1944	2281
	Phototherapy	108	103	211
	Photo Dermatology	85	80	165
	Paediatric Dermatology	109	78	187
Psychiatry	General	17,583	67,188	84,771
	Specialty Clinic			
	Child Guidance	677	930	1607
Surgery		61,381	49,641	1,11,022
Plastic Reconstructive and Burn Surgery		2533	2503	5036
Urology		17,660	41,300	58,960
Gastrointestinal Surgery and Liver Transplantation		3616	6941	10,557
Paediatric Surgery	General	8430	16,667	25,097
	Specialty Clinics			
	Hydrocephalus	2	72	74
	Urology	600	2642	3242
	P.S.T.C.	104	878	982
Anaesthesiology	Pain	923	2453	3376
	Pre-Anesthesia	7098	832	7930

Orthopaedics	General	54,671	97,341	1,52,012
	Specialty Clinics			
	Physiotherapy	30,138	24,657	54,795
	Occupational Therapy	2201	5282	7483
	Hydrotherapy	1016	5302	6318
	Follow up	00	13,893	13,893
	Tuberculosis	31	316	347
	Scoliosis	620	1418	2038
	Hand	1167	1440	2607
	C.T.E.V.	233	2837	3070
	Sports	12	37	49
	Fragility Fracture and Liaison Services	66	219	285
	Bone and Soft Tissue Sarcoma	15	42	57
	Otorhino-laryngology including RUAS	General	64,969	75,045	1,40,014
Specialty Clinics				
Audiology		245	164	409
R.U.A.S. (Speech)		4331	3521	7852
Con. Imp. (Hearing)		214	323	537
Voice		532	228	760
Vertigo		175	315	490
Rhinology		336	159	495
Obstetrics and Gynecology	General	43,050	90,549	1,33,599
	Specialty Clinics			
	IVF	1706	5653	7359
	Family Welfare	4605	3937	8542
	Antenatal	1370	4417	5787
	Endo-Gynaecology	89	138	227
	High Risk Pregnancy	92	12,096	12,188
Radiotherapy		401	1209	1610
Physical Medicine and Rehabilitation	General	14,627	23,390	38,017
	Specialty Clinics			
	Prosthetics and Orthotics	3127	7945	11,072
	Disability Evaluation	00	108	108
	OPD (PT Section)	00	17,427	17,427
	OPD (OT Section)	00	9062	9062
	OPD (MSSO)	1656	1380	3036
Others	Emergency/Casualty	1,06,939	44,952	1,51,891
	E.H.S.	1,27,235	84,822	2,12,057
	Nutrition	10,627	00	10,627
Grand Total		8,56,012	12,32,159	20,88,171

6.2. Dietetics

Chief Dietician

Dr (Mrs) Alka Mohan Chutani

Senior Dietician

Dr (Mrs) Parmeet Kaur

Dietician

Ms Swapana Chaturvedi

Assistant Dietician

Ms Gurdeep Kaur

Ms Vasundhara Singh

Ms Anjali Bhola

Ms Monita Gahlot

Ms Rekha Pal

Department of Dietetics takes care of the therapeutic dietary needs of approximately 2000 indoor patients every day. There are various kinds of diet being sent to the patients based on nutritional screening and nutritional assessment done by the dieticians in their respective wards. The approximately year data of different kind of diet sent to the indoor patients of main hospital and centres are as follows:

Total number of indoor patients served different diets (Main Hospital and Centres)

S. No.	Type of Diet	Number
1.	Normal	3,90,898
2.	Private ward	86,788
3.	Semisolid	59,968
4.	Therapeutic	1,67,517
5.	Enteral feeds	74,366
	Total	7,79,537

In additional nutrition counseling OPD and clinics are also run by the department and associated centres where counseling of each patient is done after detail nutritional assessment. Similarly indoor patients are also given individualized diet charts and counseling. The approximate number of indoor and OPD patients counseled by the department are:

Total Number of Patients Given Outdoor and Indoor Nutrition Counseling (Excluding Endocrinology, Paediatrics Ward and Centres)

Parameters	OPD Counseling	Indoor Counseling	Total
Male	5699	2172	7871
Female	4928	2143	7071
Total	10,627	4315	14,942

DEPARTMENTAL ACTIVITIES

FSSAI License

Department food service kitchen got license under Food Safety and Standards Act (FSSAI), 2006 on 18 May 2017 for 5 years.

Medical Checkup and Vaccination

Annual medical check up and vaccination done for food handlers as a part of FSSAI, 2006 regulation.

In House Training

Personal hygiene training given to the food handlers by Infection Control Team on 13 December 2017 and 5 January 2018.

Kaya Kalp

Updated and reinforced sanitation checklist for the following areas:

1. Personal hygiene of the staff
2. Daily trolley cleanliness
3. Offices
4. Wash rooms
5. Pantries
6. All cooking areas
7. Outside area
8. Gas bank area
9. Staff room

Developed signage boards for the following areas

1. Cooking areas
2. Chapati machine
3. R.O. water
4. Gas bank
5. Staff toilet
6. Enforced practice of caps, shoe cover, gloves and head gears by staff
7. Reinforced practice of putting dry and wet waste separately

Idli Introduction

Standardized and introduced Idli snack twice a week at evening tea time for private ward patients.

Institute Day

Developed poster on “Obesogenic environment” for Institute Day held on 25 September 2017.

CNE (Continuing Nutrition Education)

1. Food safety and hygiene practices for food handlers, 14 June 2017, Dr Anshu (IHM, PUSHA)
2. Use of statistics in nutrition research, 6 December 2017, Dr Vandana Sabarwal (Institute of Home Economics)
3. ERAS (Enhanced recovery after surgery) protocol, 27 February 2018, Dr Anita Jatana (Apollo Hospital)

6.3. Hospital Billing Section

The donations received and payments made to patients during the financial year 2017-2018 are:

Donations received from donors (Bank interest+Donations+Poor fund boxes):	Rs. 17,84,717
Payment made to 219 + 249 = 468 patients:	Rs. 8,61,050

(The amount disbursed to poor patients is from the donations received from donors during the year as well as from the previous balance lying in the “AIIMS POOR FUND ACCOUNT”).

6.4. Nursing Services

In-Service Education Unit

Organization of Nursing Services

Chief Nursing Officer (acting) Ms Kamlesh Chandelia

Nursing service is an integral part of AIIMS, which aims at high quality nursing care to the patients and community. The professional nurses work in an environment that encourages professionalism and expertise in providing comprehensive patient care with the members of allied disciplines in the hospital.

Staff Strength

The main stratum of workforce in AIIMS is constituted by the well trained professional nurses from different departments. Staffing in nursing service is based on SIU (Staff Inspection Unit) norms in AIIMS.

Staff Strength in Hospital/Centres	
Chief Nursing Officer	1 (Acting CNO)
Nursing Superintendent (NS)	4
Deputy NS	34
Assistant NS	129
Senior Nursing Officer	899
Nursing Officer	3187
Total	4254

Continuing Nursing Education

Nursing staff education is carried out throughout the year by in-service and continuing education programs to update the clinical knowledge of practicing nurses thereby aiming at improving standard of nursing care at AIIMS.

Nursing In-Service Education Program

A well structured in-service education program has been initiated since January 2011. Initially it started with twice a week class of one hour each, which was later on increased to thrice in a week. Two classes in a week are conducted for the bedside nurses (Nursing Officer and Senior Nursing Officer), where as one class in a week is for senior nurses (Sister in-charges and above).

Facilitator: Ms Kamlesh Chandelia
Mentor: Ms Hanumati Devi
Educator: Ms Rebecca J. Herald, SNO (HR)
Ms Poonam Anand, SNO (up to June 2017)
Ms J. Subbulakshmi NO
Ms Srinithya Raghavan SNO (from July 2017)

Since January 2014 'National Program for Health Care of the Elderly (NPHCE)', monthly workshop for nurses from main hospital been conducted with support from Department of Geriatrics. Nursing educators are also facilitating sessions in the workshop.

Clinical Teaching

Clinical teaching initiated in AB, C, D wings of the main hospital with an objective of upgrading standard of nursing care and solving practical issues in the area itself. This initiative was started w.e.f 1 January 2015, with an active participation of bedside nurses and supervisory nursing personnel of the clinical areas.

1. 126 sessions conducted in AB wing under supervision of Ms Rebecca Herald
2. 56 sessions conducted in C wing under supervision of Ms J. Subbulakshmi
3. 34 sessions conducted in D wing under supervision of Ms Poonam Anand and Ms Srinithya Raghavan
4. 101 classes have been conducted in Old Pvt Block, New Pvt Block, COPD, New Emergency and OPD

A well planned orientation program was conducted for BSc PC Batch of 2017-2019.

In Service Education Weekly Classes

A total of 1273 nurses from different departments in Main Hospital attended the Inservice Education Weekly Classes. The following lectures were delivered:

Classes for Senior Nursing Officers/ANS/DNS/NS/CNO

1. Kaya kalp
2. Legal and ethical issues in nursing
3. Conflict management
4. Stress management
5. Oncology nursing management
6. Breast disorders
7. Patient safety
8. Antibiotics and resistance
9. Antibiotic stewardship

Classes for Nursing Officers

- | | |
|---|-------------------------------|
| 1. Respiratory Emergencies-I | 6. Breast disorders |
| 2. Respiratory Emergencies-II | 7. Antibiotics and resistance |
| 3. Fluid and electrolyte balance and disturbances | 8. Vaso active drugs |
| 4. Oncology nursing management | 9. Kaya kalp |
| 5. Patient safety | |

A total of 119 lectures were taken on the above topics in different batches. The number of nursing personnel who attended the in-service education classes were:

DNS: 21 ANS: 97 Senior Nursing Officer: 368 Nursing Officer: 792

Conferences and Workshops Conducted

1. 16-17 December 2017, GERICON 2017 at AIIMS. Total Participants: 50
2. 11-12 January 2018, NURSICON 2018 at AIIMS. Total Participants: 50

Conferences and Workshops Attended

Nurses from different departments in Main Hospital attended several National and International conferences/workshops. These were:

1. 24-26 April 2017, Advanced Cardio Vascular Life Support Course at CMET, AIIMS. Participants: 3
2. 17-21 April 2017, CNE on Educational Innovation in Nursing at RAK College of Nursing, New Delhi. Participants: 1
3. 16 May 2017, Nursing Update on Diabetic Retinopathy at RP Centre, AIIMS. Participants: 5
4. 15-16 July 2017, National Conference on Emergency Medicine at IHC, Lodhi Road. Participants: 57
5. 27-29 July 2017, Second National Conference on Research Basics at Shillong. Participants: 2
6. 24-26 July 2017, BLS and ACLS Providers Course at ITC, CMET. Participants: 2
7. 7 September 2017, Critical Care Update at MS Seminar Room, AIIMS. Participants: 24
8. 8-10 September 2017, 30th Annual International Symposium on Paediatric Surgical Research and an Update on Newborn and Fetal Surgery, New Delhi. Participants: 1
9. 11-12 September 2017, Emerging Perspectives in Nursing Care at Srinagar. Participants: 5
10. 11-13 September 2017, 7th International CME Workshop and Conference on Cost Effective Use of Technology in e-Health Care at Conference Hall, AIIMS. Participants: 1
11. 29 September-1 October, 12th World Congress on Clinical Preventive Cardiology and Imaging at Amristar, Panjab. Participants: 18
12. 7 October 2017, Asian Society of Mastology Conference at NAMS, New Delhi. Participants: 10
13. 16 Oct 2017, Good Bedside Transfusion Practices at CMET. Participants: 15
14. 26 October 2017, Geriatric Workshop. Participants: 38
15. 29 October 2017, 5th Annual General Meeting and Conference of the Ostomy Society at AIIMS. Participants: 3
16. 2-5 November 2017, 19th National Conference of Pediatric Intensive Care at Chandigarh. Participants: 9
17. 6-11 November 2017, Nursing Services Administration and Quality Management Programme at AHA House, NOIDA. Participants: 2
18. 6-10 November 2017, Training Course in Management for Senior Nursing Administrators at NIHFW, New Delhi. Participants: 3
19. 14 November 2017, International Diabetes Day Awareness Programme at MS Seminar Room, Participants: 34
20. 16 November 2017, Geriatric Workshop. Participants: 28
21. 20 November 2017, Advanced Pediatric Nursing Care at CMET, AIIMS. Participants: 19
22. 1 December 2017, Interactive Symposium on HIV/AIDS and Health Care Workers at AIIMS. Participants: 32
23. 20 January 2018, ECMO Critical Care for Nursing at IHC, Lodhi Road. Participants: 10
24. 22-23 January 2018, HAI Surveillance and Software Use for Data Entry and Analysis at JPNATC, New Delhi. Participants: 24
25. 1 February 2018, Excellence in Infection Control Surveillance at JPNATC, New Delhi. Participants: 5
26. 5 February 2018, Workplace Well Being at CMET. Participants: 20
27. 19 February 2018, Workshop on Patient Safety at CMET. Participants: 16
28. 19-23 February 2018, Emerging Innovative Trends in Nursing and Its Impact on Quality Patient Care at RAK, College of Nursing, New Delhi. Participants: 1

29. 23 February 2018, Wound Dressing Material Nurses Awareness Programme at MS Seminar Room. Participants: 20
30. 26 February 2018, Workshop on CLABSI at RLS Board Room AIIMS. Participants: 15
31. 1-2 March 2018, Simulation Education at CMCH, Vellore. Participants: 1
32. 5-6 March 2018, Mental Health at Workplace at CMET. Participants: 10
33. 7 March 2018, Workshop on Handling Disabilities and Practical Know How at CMET. Participants: 15
34. 8 March 2018, Women; Mental Health and Cardiac Care at RLS Board Room, AIIMS. Participants: 7
35. 8-10 March 2018, Recent Trends in Nursing; Care, Compassion and Innovation at CMET. Participants: 10
36. 15 March 2018, Quality Care and Infection Control at Conference Hall, AIIMS. Participants: 2
37. 16-17 March 2018, Second New Millennium Smart Nursing International Conference at Dr RML Hospital, New Delhi. Participants: 5
38. 27-28 March 2018, QI Leadership and Capacity Building Workshop. Participants: 4
39. 29-30 March 2018, Annual Training Course in Pediatric Nephrology. Participants: 6

Workshop on 'Research Ethics and Publication (REAP)' CMET, AIIMS, New Delhi: 19 April 2017: 12 participants; 14 June 2017: 18 participants

CNE on Rheumatology at MS Seminar Room, AIIMS: 28 April 2017: 25 participants; 22 August 2017: 25 participants; 19 December 2017: 28 participants

CNE on Computerization at CMET, AIIMS: 24 May 2017: 12 participants

Training of Nurses on Deceased Organ and Tissue Donation, ORBO, AIIMS.

Date/Month/Year	Participants	Date/Month/Year	Participants
19 April 2017	20	20 September 2017	22
17 May 2017	17	12 October 2017	19
14 June 2017	19	23 January 2018	17
23 August 2017	22	19 February 2018	13

Wound Care and Pressure Sore Prevention Workshop at CMET, AIIMS: 8 August 2017: 14 participants; 3 October 2017: 17 participants; 12 December 2017: 16 participants

Quality Improvement Workshop at AIIMS: 8 May 2017: 42 participants

Workshop on 'Personality Development and Communication Skills', CMET, AIIMS: 3 June 2017: 4 participants

Workshop on CRTP and ECG Course, AIIMS

Date/Month/Year	Participants
24 January 2018	6
7 February 2018	6

Date/Month/Year	Participants
7 March 2018	6
21 March 2018	5
20 February 2018	7

A total of 987 nursing personnel attended a 68 workshop/conferences in the year 2017-2018 excluding consultancy and participation as experts

NS: 2 DNS: 32 ANS: 87 Senior Nursing Officer: 266

Nursing Officers: 600

Competent nurses from different departments participated and performed as facilitators for skill stations and hands-on-training sessions in various workshops, CME and National conferences conducted last year.

Patient awareness programs organized:

Health talk, role play and poster competitions are frequently organized in different clinical areas to update nursing knowledge and public awareness.

1. Newborn week awareness programme - D3 and MCU
2. Blood donation camp - EHS OPD
3. Breast care awareness programme - D7 Ward and HD

Quality Improvement Initiative

Quality improvement initiative has been started since 2015 under leadership of Professor A.K. Deorari. A number of QI projects have been taken up in the institute. Few of the projects have been presented at National as well as International forums. Half day workshops on QI exclusively for nurses have been organized. Till date, total of 250 nurses got sensitized regarding QI.

Deputation of Nursing Personnel for Higher Studies

Nursing services at AIIMS focus on improving the nursing care by facilitating abundant opportunities for higher studies. After 5 years of regular services, nurses are eligible for pursuing higher studies with full pay. Seven nurses were pursuing post basic BSc nursing program and 11 MSc nursing program during this year.

Coordination and Organization of Educational Visits for Various Nursing Educational Institutions

Nursing educators in AIIMS conducted orientation for groups from different educational institutions across India as listed below:

1. Late Rathibai Prabhu Das Patel College, Gujarat on 27 April 2017 (35 BSc students and 2 faculty)
2. ITBP Referral Hospital, Greater NOIDA on 25 May 2017 (17 staff nurses and 1 faculty)
3. IKON College of Nursing, Bengaluru on 6 June 2017. (46 BSc students and 2 faculty)
4. Ramaiah Institute of Nursing, Bengaluru on 20 June 2017. (35 BSc students and MSc and 2 faculty)
5. Pragyan College of Nursing, Bhopal, MP on 11 July 2017. (10 MSc students and 2 faculty)
6. Seva Mandal Education Society College of Nursing, Mumbai on 5 September 2017. (24 BSc students and 2 faculty)
7. Fortis College of Nursing, Mulund, Mumbai on 31 October 2017. (38 BSc students and 2 faculty)
8. Lakshmi Memorial College of Nursing on 5 December 2017 and 7 December 2017 (35 BSc students and 2 faculty)
9. SDU College of Nursing, Kolar, Karnataka on 23 January 2018. (35 BSc and PC students and 2 faculty)
10. MS Ramaiah Institute College of Nursing, Karnataka on 29 January 2018. (35 BSc students and 2 faculty)
11. Smt Nagarathamma College of Nursing, Bengaluru on 6 February 2018. (25 BSc and PC students and 3 faculty)
12. HM Patel College of Nursing, Anand, Gujarat on 7 February 2018. (42 BSc students and 2 faculty)
13. CMC College of Nursing, Vellore on 6 March 2018. (35 MSc students and 2 faculty)
14. Bangalore Medical College and Research Institute, Bengaluru on 15 March 2018. (42 BSc students and 2 faculty)
15. A total of 483 visitors from various hospitals got orientation about AIIMS

Issuing Credit Hours Certification

A total of thirteen nurses were issues certificates of credit hours for registration in Nursing Council.

Critical Care Workshop

A full day workshop on Critical Care Update for nurses working in Emergency and Intensive Care Units with the support of Faculties from Emergency Medicine, Anesthesiology and General Medicine. Certificates were also issued for the same.

Contribution as Facilitators

NIE team facilitated various educational activities inside and outside AIIMS such as

1. Promotional Training Programme at ITBP, Greater NOIDA
2. Nurses role in Deceased Organ and Tissue Transplantation at CMET

Coordination with K L Wig CMET

Coordinated with CMET for various educational activities planned for nursing personnel at AIIMS.

Activities planned for the upcoming year

1. Educational training for Deputy Nursing Superintendents and Assistant Nursing Superintendents in collaboration with KL Wig CMET
2. Periodical Critical Care Updates for nurses with the support of Faculties from Emergency Medicine, Anesthesiology and General Medicine
3. Periodical workshop on Mental Health at Workplace for clinical nurses

INFECTION CONTROL NURSES ACTIVITIES

Main Hospital 2017-2018

Infection Control Committee

- | | |
|----------------------------|--|
| 1. Dr D.K Sharma | Medical Superintendent, AIIMS |
| 2. Dr Arti Kapil | Professor, Department of Microbiology |
| 3. Dr Rakesh Lodha | Professor, Department of Paediatrics |
| 4. Dr Rashmi Ramachandran | Additional Professor, Department of Anaesthesia |
| 5. Dr Anoop Daga | Associate Professor, Department of Hospital Administration |
| 6. Dr Karan Madan | Assistant Professor, Department of Pulmonary Medicine |
| 7. Dr Gagandeep Singh | Assistant Professor, Department of Microbiology |
| 8. Dr Jhuma Sankar | Assistant Professor, Department of Paediatrics |
| 9. Ms Pushplata | DNS, Infection Control |
| 10. Ms Elpreda. M. Victor | Infection Control Nurse |
| 11. Ms M.R.E. Vasanth | Infection Control Nurse |
| 12. Ms Betty Maria Binu | Infection Control Nurse |
| 13. Mr Mukesh Kumar Saini | Infection Control Nurse |
| 14. Mr Dhawal Dwivedi | Infection Control Nurse |
| 15. Mr Kunj Bihari Gauttam | Infection Control Nurse |

HICCOM core committee meets periodically to discuss day to day activities and interventions. HICCOM administrative rounds conducted periodically with infection control core committee, identified problems discussed and rectified.

Activities of HICCOM

1. Organized AIIMS NURSICON-2018 for 100 nursing personnel on 11-12 January 2018 under Swachhata Action Plan. Theme of the conference was “Excellence in nursing and infection control practices”
2. Conducted HICCOM (Hospital Infection Control Committee) half day training programme for nurses and various health care workers
3. Various sessions conducted for newly recruited nurses on hospital infection control practices and bio medical waste management with application based training
4. The ICNs took a session on role of infection control nurse in “Clinical Nursing Update” organized by College of Nursing, AIIMS for a group of 30 in-service nursing personnel
5. Involved in the teaching program for nursing students of College of Nursing, AIIMS related to infection control prevention and practices
6. Conducted classes for Main Kitchen staff for a group of 50 employees on hand hygiene practices and importance of immunization
7. Planned, organized and immunized Main Kitchen staff for Hepatitis B and other required vaccines
8. The ICNs took two sessions on infection control practices for ITBP staff during their promotional training programme organized at Greater NOIDA in April and May 2017
9. The ICNs were participated as resource persons for sessions on infection control practices at Maharaja Agrasen Hospital, New Delhi for nursing staff
10. The ICNs took active participation in organizing and conducting “Kaya Kalp” 2017-2018 rounds
11. The ICNs took active part in selection of content, photograph and designing in the development of BMW android application, formulation of BMW manual
12. The ICNs contributed in content and finalization of revised edition of Infection Control Manual

13. SOPs of Needle stick injury and spill management protocols in the form of charts were prepared, distributed and displayed in all clinical areas of AIIMS
14. The ICNs took classes on CLABSI and BMW management with hands on practices in CLABSI workshop in IRCH AIIMS under Swachhta Action Plan
15. Sensitized resident doctors on infection control practices and BMW management (app based practice)
16. Organized and taken classes on BMW management using BMW app for all ANS's of main building

Activities of Infection Control Nurses:

1. Individual area rounds conducted by Infection Control Nurses on daily basis using checklist and whenever need arises, onsite training programme were conducted in the clinical areas and problems are rectified after discussing with the infection control core committee
2. Surveillance activities: Surveillance of environmental culture and sterility samples taken monthly basis and reports recorded and distributed to all respective areas and discussed to reinforce proper protocols to follow as per the hospital policy

Surveillance Samples Collected during April 2017-March 2018 (Main Hospital, AIIMS)

Total Surveillance Samples	Total Environmental and Sterility Samples	Total In-use Solutions Samples	Total Sterile Samples		Total Unsterile Samples	
			Environmental and Sterility Samples	In-use Solutions Samples	Environmental and Sterility Samples	In-use Solutions Samples
7582	5365	2217	4267	1862	1098	355

1. Data analysis carried out monthly wise for all surgical units and all ICUs and the Performa of data analysis are distributed to all concerned professor in-charges of surgical units and ICUs

Annual Health Care Associated Infection (HCAI) Rate

Area	Total Major Surgeries/Admissions	HCAI	(%)
Surgical Units	15,519	549	3.5
ICUs	4993	700	14

$$\text{Combined HCAI Rate: } \frac{(549 + 700) \times 100}{20512} = 6\%$$

1. Annual combined data analysis of surgical units and ICUs calculated and the same is distributed to Dr Arti Kapil, Professor In-charge Microbiology Hospital Infection Control, Professor D.K. Sharma Medical Superintendent, Ms. Kamlesh Chandelia, Chief Nursing Officer, Dr Anoop Daga, Office In-charge Infection Control from hospital administration and to Medical Record Section
2. Monthly surveillance and data for Surgical Units and ICUs calculated and submitted to MRD Section for monthly news letter
3. Bio medical waste rounds conducted bi-weekly along with senior resident - Hospital Administration, Sanitary Inspector and DNS Floor Supervisor
4. Ministry of Health and Family Welfare has launched “Kaya-Kalp” - Clean hospital campaign under Swachh Bharat Abiyan. Clean and Green AIIMS Campaign Guidelines have been formulated. AIIMS is uniquely poised to lead this movement of Kaya Kalp transformation by being the agent of change and adopting these guidelines
5. AIIMS awarded with 1st position for Kaya Kalp - Clean Hospital Campaign under Swachh Bharat Abiyan consecutively for the second time
6. WHO Hand Hygiene Day observed and poster competition organized

6.5. Welfare Unit

Patients and employees welfare services were organized by the Welfare Officer, Mrs Preeti Ahluwalia.

Patients Welfare

Patients's Care: Rs 71,80,000/- (approximately) raised as donation

Purpose	Donation	Donor
For treatment and surgery of poor and needy patients who are undergoing treatment in the Main Hospital and Centres	Rs 23,79,740	Roshni Foundation
	Rs 5,69,200	Sahu Jain Trust
	Rs 2,63,000	Jawahar Bhawan Trust
	Rs 1,72,200	IILM Foundation
	Rs 1,20,328	Baij Nath Bhandari Public Charitable Trust
	Rs 1,00,000	Rajendra Bhawan Trust
	Rs 1,30,000	Ms Stuti Sharma
	Rs 77,547	Other donors
	Rs 16,855	Sewa Prkalp Mahila Mandal Trust
	AIIMS Poor Fund Account	Rs 3,00,000	Mrs Dwarka Prasad Trust
	Rs 35,000	Mrs Preeti Bhatnagar
	Rs 21,000	Aashirwad Foundation Trust
	Rs 22,600	Other donors
IRCH Poor Patient Fund Account	Rs 25,000	Mrs Meenakshi Malhotra
Anti-cancer drugs provided free to cancer patients	Rs 26,92,841	Gopal Foundation
	Rs 2,55,205	Dr Chetan Memorial Divine Trust

Contribution received under Corporate Social Responsibility: Rs 50 lakhs

Purpose	Contribution	Company Name (Contributor)
For Promoting Preventive Health Care-Safe Health Company Practices in the Hospital	Rs 18,00,000	Sidhant Housing and Development
	Rs 8,50,000	Panchsheel Investment Company
	Rs 13,50,000	DLF Urva Real Estate Developers and Services Private Ltd
	Rs 10,00,000	Madhur Housing and Development Company

In addition to above, poor patients are being guided and assisted to avail of financial assistance for their treatment from Rashtriya Arogya Nidhi, P.M. National Relief Fund, Health Minister's Discretionary Grant and other governmental agencies. Poor patients are also guided and assisted to avail of financial help from the Hospital Poor Fund Account and for exemption of levy charges, investigation charges, etc.

Promotion of Menstrual Hygiene

Sanitary Pads/Napkins Vending Machines were installed in the Ladies Toilet situated at RAK OPD AIIMS and Gynae OPD for promotion of menstrual hygiene management for female patients and female workforce at AIIMS. The said project has been undertaken by Sewa Prkalp Mahila Mandal Trust (Regd.) and the trust is responsible for its management and operation.

Dharamshalas

There are three Vishram Sadans being run as a welfare activity i.e. to provide shelter to outstation patients and their attendants who are undergoing treatment at AIIMS. The Rajgarhia Vishram Sadan (RVS), Sureka Vishram Sadan (SVS) and Shri Sai Vishram Sadan (SSVS) provided shelter to over 21,000 patients and their attendants who were undergoing treatment at the institute and its centres. A pick and drop facility from the Sadans to the hospital is also being run during day time by the institute for the benefit of the patients and their attendants.

A play room facility has been provided in Rajgarhia Vishram Sadan for the children staying in the Vishram Sadans. This facility is being run on Monday, Wednesday and Friday from 2:30 p.m. to 4:30 p.m. by Cancer Patient Aid Association (CPAA). In addition, CPAA organizes Yoga Class once a week for the benefit of the inmates. CPAA also celebrated Holi

and Diwali festival with the inmates of the Sadans. Sapna (NGO) distributed 58 milk packets daily and 60 packets of ration once in a week to the poor patients of the Vishram Sadans. Further, free food i.e. lunch and dinner was provided free to inmates of three Sadans by Sureka Public Charity Trust in the Canteen of SVS which is being run by the trust.

Rain Basera:

A Rain Basera facility was set up in November 2012 near Sureka Vishram Sadan and is being managed by Delhi Urban Shelter Improvement Board. The facility provides shelter to poor and needy outstation patients and their attendants who are undergoing treatment at AIIMS.

Employees Welfare

Appointment on Compassionate Grounds

Cases for appointment on compassionate grounds were dealt with. Counseling services and moral support was provided to the family members so as to assist them to accept/overcome the great loss they had suffered and thereby enable them to shoulder the responsibilities befallen upon them.

Committee for Addressing Complaints of Sexual Harassment at AIIMS, New Delhi

The formation of the committee for dealing with complaints regarding sexual harassment of women at AIIMS which had been initiated in 1999, has since then provided an effective complaint redressal mechanism for the female staff working at AIIMS. The said committee enquires into the complaints received. The meetings are also attended by a member of an NGO who has been recommended by Delhi Commission for Women. The inquiry report along with the recommendations are forwarded to the competent authority for necessary action. This is with the objective to ensure as far as possible, a safe, secure and healthy environment for women by prohibiting their harassment at work place.

Women Grievance Cell

A Women Grievance Cell has been constituted at AIIMS in January 2014 to resolve grievances/complaints made by:

1. female students of the institute
2. women employees of the institute who are working on a regular, temporary, ad hoc, project, temporary status, daily wages, contract or other than outsourced

The Women Grievances Cell deals with the grievances received as per its terms of reference.

Counseling Services

Counseling services were provided to employees, patients and their relatives so as to enable them to overcome/adjust to their physical, social, emotional, economic, familial and marital problems and thereby enhance their social functioning.

Redressal of Grievances

Services for redressal of grievances to staff and patients are being provided.

6.6. Medical Social Welfare Unit

Chief Medical Social Service Officer

Mr B.R. Shekhar

Supervising Medical Social Service Officer

Mr Pankaj Kumar

Ms Gurmit Kaur

Introduction

The foundation of Medical Social Welfare Unit in AIIMS was laid in 1960 when the first Medical Social Worker was appointed in the Main Hospital. The Medical Social Welfare Unit is working under the supervision of Medical Superintendent from the very beginning. The integration of Medical Social Services has yielded very positive results as it provided a social, psychological and financial support for the patients and alleviated the distress while receiving the treatment. The Medical Social Welfare Unit, Main Hospital has 13 MSSO taking care of OPDs and Wards of 19 significant departments in main hospital. In addition to a team of Medical Social Service Officers, there are 20 Part-Time Social Guides (PTSG) and one Hospital Attendant working under the Unit for Patient Care and Guidance.

The professional competency of a MSSO is formed through a Post-Graduate Degree in Social Work which gives a rigorous training by study of Social Work Methodology, Medical and Psychiatric Social Work, Psychology, Sociology, Human Resource Management, Statistics, Social Policy and Administration and Research Methodology in addition to the Concurrent Field-work, Dissertation and Block placement in specialized social-work agencies.



Our motto: “Committed to patients, committed to AIIMS”

Our Objectives:

1. To create a therapeutic-network among the doctor, paramedical staff, the patient, the family and the community
2. To facilitate a holistic-healing leading towards a complete physical, psychological, social and vocational rehabilitation
3. To ensure the protection of the basic human rights of the patients
4. To facilitate the various services for the poor and indigent patients
5. To coordinate with the Hospital Administration and treating faculties to facilitate the basic patient welfare services
6. To impart training and orientation of medical social work to the social work students
7. To conduct and coordinate the research studies initiated by our unit and other departments of AIIMS

Designation	Number of Staff
Medical Social Service Officer Gr. I	1
Medical Social Service Officer Gr. II	9

Financial assistance to poor and indigent patients for treatment





1. Total 926 cases of Rashtriya Arogya Nidhi (RAN) for financial assistance of approximately Rs 40 crores has been approved by the sub-committee and Rs 2,12,778,864 has been sanctioned from MOHFW
2. Corporate Social Responsibility (CSR) donations for poor and indigent patients (arranged financial assistance of approximately Rs 2,40,65,841 for 220 patients)
3. Arranged approximately Rs 5,00,000 through trust and voluntary donors for 150 poor and indigent patients
4. Rs 2,27,729 collected through Poor Fund Donation Box and deposited in AIIMS Poor Fund
5. Helped 468 poor patients for Rs 8,61,050 through AIIMS Poor Fund

Free medicines and other donations for poor and indigent patients:

1. Free medicines worth Rs 14,78,742 to 14,600 OPD patients through voluntary donation at MSWU
2. Free medicines/surgical items to approximately 450 admitted patients from AIIMS

Exemptions of hospital levy charges and railway concession

1. Exemptions of different hospital levy charges including CT, MRI, PET and HLA, etc. of approximately 14,500 BPL/poor patients
2. Exemption on recommendation of treating/concerned faculty for approximately 3000 patients
3. Railway concession facility provided to approximately 10,000 outstation patients

Counseling and guidance

1. Counseled and guided approximately 35,000 patients
2. Special counseling and guidance given to approximately 5000 patients during Dengue, Chikungunia and Swine Flu period

Rehabilitation and referral through casualty

1. Rehabilitated approximately 195 patients: Medico-Legal Cases (MLC) and Non-MLC Unknown/ Unattended/ Destitute/Orphan
2. Facilitated the shifting of approximately 9500 patients to Safdarjung Hospital and other Government hospitals for admission through casualty MSSO due to non-availability of the beds
3. Facilitated the referral of patients to pvt. hospitals for free treatment under EWS category as per the Hon'able High Court Order

Authorization of Organ Transplant under THOA Act

Thirteen cases of Unrelated Kidney Donors were scrutinized, assessed, documented and presented before the Renal Transplant Authorization Committee as per the THOA, 1994.

Training and Orientation



1. Imparted Social Work Training to 27 students of social work came from different colleges across the country
2. Five Orientation Sessions on 'Medical Social Services in hospital setting' were given to approximately 75 MSW students from different colleges across India

Special Celebrations

1. Diwali Celebration and Magic Show in AB-5 ward on 17 October 2017: The Medical Social Welfare Unit organized a Magic Show and Diwali Celebration in the presence of the Director, DDA, Medical Superintendent, Senior Financial Advisor, and HOD, Pediatric Surgery
2. Displayed a comprehensive poster of Medical Social Welfare Unit titled "Environment and Health" in the Institute Day Celebration and Exhibition



3. Celebrated World Social Work Day on 20 March 2018 with Medical Superintendent, Deputy Director (Administration), Faculty members and staff.



Other contributions:

1. NMLC to MLC conversion 150 and patient data correction 20 in Casualty
2. Continued the digitalization process for the social services and online-exemption through e-hospital
3. The Chief MSSO gave his contributions to the Hospital Health and Hygiene Promotion Sub-Committee (KAYAKALP)

EDUCATION

Teaching activities:

1. Mr B.R. Shekhar, Chief MSSO chaired the Scientific Award Paper session in 5th Annual National Conference of All India Association of Medical Social Work Professionals on Social Work Intervention in Health/Mental Health Setup in GMCH, Chandigarh on 24 March 2018
2. Ms Leema Maiti, MSSO presented a paper on “Social Work Intervention- Relocation and Rehabilitation of Without attendant/ Unknown/ Destitute patients from Department of Emergency Medicine, AIIMS, New Delhi” in 5th Annual National Conference of All India Association of Medical Social Work Professionals on Social Work Intervention in Health/Mental Health Setup in GMCH, Chandigarh on 24 March 2018
3. Exam Duty: With the approval of Director, Dean (exam) has nominated B. R. Shekhar (Chief MSSO) and Pankaj Kumar (Supervising MSSO) as Officer-in-charge for conducting 6 CBT mode entrance examinations for MBBS, MD/MS and other courses
4. Total 9 workshops on Nonviolent Communication (NVC) conducted by Mr. Vivek Kumar Singh, MSSO for Nareshwadi Learning Centre (Dahanu), K.J. Somaiya Medical College (Mumbai) and The Somaiya School (Mumbai) from 23-29 September 2017
5. Regular sessions were conducted by Mr. B.R. Shekhar, Chief MSSO for MHA students (Hospital Administration) at Medical Social Welfare Unit, Main Hospital on Role of MSSO in Hospital Setting

Training Activities by Medical Social Welfare Unit:

1. Social Work Training-Block Placement: Total 23 students of Social Work from different school and colleges were given Block Placement Training in Medical Social Work in hospital setting
2. Social Work Training-Concurrent Field Work: 2 students from Delhi School of Social Work (DSSW) and 2 students of BR Ambedkar College, Delhi completed their yearlong Concurrent Field Work
3. Social Work Orientation Session: 5 orientation sessions on ‘Medical Social Services in hospital setting’ were given by Mr. B.R. Shekhar (Chief MSSO), Mr. Pankaj Kumar (Supervising MSSO) and Mr. Vivek Kumar Singh (MSSO) to the Social Work Student groups along with their faculty members

Seminar/Workshop/Conference attended in AIIMS

1. First National Conclave on Psychological Trauma, Child Protection and Mental Illness, 27-28 March 2018, AIIMS, New Delhi, Participants: B.R. Shekhar, Chief MSSO and Abhishek Rajput, MSSO
2. Psychosocial and Interpersonal Skills, 28 February 2018, AIIMS, New Delhi, Participant: Vivek Kumar Singh, MSSO
3. Capacity Building for Tobacco Cessation, 30 May 2017, Conference Hall, AIIMS, New Delhi, Participants: Mr. B.R. Shekhar, Chief MSSO/Mr. Anil Mali, MSSO/Md. Shahid, MSSO/Mr. Akhilesh Kr. Chaurasiya, MSSO
4. **Name of the Workshop:** Psychosocial and Interpersonal Skills
Date and Place: 20 April 2017, AIIMS, New Delhi
Attended by: Vivek Kumar Singh, MSSO
5. **Name of the Workshop:** Orientation training program regarding organ donation organized by ORBO
Date and Place: 2017, CMET AIIMS, New Delhi
Attended by: Mr. B.R. Shekhar, Chief MSSO/Ms. Gurmit Kaur, Supervising MSSO/Md. Shahid, MSSO/Mr. Akhilesh Kr. Chaurasiya, MSSO/Mr. Abhishek Rajput, MSSO

Seminar/Workshop/Conference/Symposium attended outside AIIMS

1. Drug Abuse Prevention—Social Work Perspective, 10-11 February 2018 CUHP, Himachal Pradesh, Participant: Pankaj Kumar, Supervising MSSO
2. 5th Annual National Conference of All India Association of Medical Social Work professionals on Social Work Intervention in Health/Mental Health Setup, 24 and 25 March 2018, GMCH, Chandigarh, Participants: B.R. Shekhar, Chief MSSO/Gurmit Kaur, Supervising MSSO/Ms Neerja Sapra, MSSO/Mr Aftab Alam Shah, MSSO/Md. Shahid, MSSO/Ms Leema Maiti, MSSO
3. 5th Indian Social Work Congress, 10-12 November 2017 at SSUS, Kochi, Kerala, Participants: Mr Abhishek Rajput, MSSO

PATIENT CARE SERVICES BY MEDICAL SOCIAL WELFARE UNIT:

1. Psycho-social and economic assessment and social diagnosis: The MSSO helps the patient to get the benefits from different schemes for poor patients through their psycho-social and economic assessment
2. Facilitating free medicines and surgical items: Consultation comes from various wards to the MSSO for the socio-economic review along with the recommendation of the Chief MSSO which helps poor/indigent patients to get free medicines/surgical items
3. Similarly poor/indigent patients getting follow-up in OPDs get help from the MSSO for free medicines/surgical items
4. Exemption of Hospital Levy Charges of BPL patients and indigent patients: The MSSO exempts various hospital investigation and admission charges after the recommendation of the Chief MSSO on the basis of socio-economic assessment of the patients
5. Facilitation of services available for EWS (Economically Weaker Section) patient: As per the Honorable High Court Orders, all individuals who have a family income of Rs 1 lakh or below are categorized as EWS and they are entitled to free medical treatment in 46 private hospitals in Delhi which have been built on land acquired at concessional rates from the government
6. Facilitation of financial assistance through RAN (Rashtriya Arogya Nidhi): RAN (Rashtriya Arogya Nidhi) is a centrally sponsored scheme under the Ministry of Health and Family Welfare which started in 1997 with an aim to provide financial assistance to patients, living below poverty line who are suffering from major life threatening diseases. The RAN cases are counseled and documented by Mr. Pankaj Kumar, Supervising MSSO and he represents these cases in the AIIMS RAN Sub-Committee with Mr. B.R. Shekhar, Chief MSSO
7. Coordination of Renal Authorization Committee and assessment of unrelated Kidney Donors: The cases of Unrelated Kidney Donors are referred to Mr. B.R. Shekhar, Chief MSSO/Nodal Officer for the renal authorization. The Chief MSSO, Mr. Anil G. Mali, MSSO and Mr. Vivek Kr. Singh, MSSO do the counseling, coordination and documentation to present the cases in the Renal Authorization Committee (RAC) as per The Transplantation of Human Organs Act (TOHA), 1994
8. Counseling services: The Medical Social Welfare Unit is acting as the first contact point of the patients when they enter AIIMS. The patients and their attendants not only receive basic information but the MSSO gives psycho-social counseling and guidance to them throughout their stay in the hospital

9. Coordination and rehabilitation of Medico-Legal Cases (MLC) and Non-MLC Unknown/Unattended/Destitute/Orphan patients: The Casualty MSSO coordinates with all the stakeholders to rehabilitate the Unknown, Without Attendant, Destitute, Orphan patients through government/NGOs
10. Financial help through AIIMS Poor Fund: In case of immediate need and urgency, the poor/ indigent patients can get financial help from AIIMS Poor Fund. The MSSO does the socioeconomic assessment and facilitates this service through Chief MSSO
11. Providing Railway concession facility: The Medical Social Welfare Unit provides Railway concession to patients suffering from Cancer, Aplastic Anemia, TB, Leprosy, Thalassemia, Kidney Transplant, Dialysis, and Deaf and Mute patients as per the guidelines of the Ministry of Railways. This facility results into a very good treatment, follow-up and compliance from the patients
12. Providing accommodation facilities to outstation patients and their attendants
13. Research and training: Imparting training to NSS, BSW, MSW students from different colleges across India and conducting and coordinating the research studies
14. Health promotional and educational activities: Disseminating Health-education and Health-awareness through IEC material and Health-camps (eg. Blood Donation Camp, AIDS Awareness Camp, Health Awareness Meetings)
15. Planning and Administration
 1. Coordination with the Hospital Administration and various departments to improve the patient welfare activities and create a more patient-friendly environment
 2. Managing various information and guidance services in the main hospital through Part-time Social Guides
16. Fund-raising and networking: Coordinating and networking with various Corporate Social Responsibility (CSR) Units, Trusts and Donors for Patient Welfare
17. Emergency Medical Social Services (Round-the-clock) in Casualty:
 1. Providing all Medical Social Services round-the-clock including shifting and rehabilitation of patients, creating a smooth work-flow in the casualty
 2. Looking after the Medical Social Services of the entire hospital during odd hours
 3. Special services during Epidemics, Disasters and Natural Calamities for managing the patient care efficiently
 4. One Stop Centre (OSC): Coordination, Counseling and Advocacy for victims of Gender Based Violence

7. College of Nursing

Principal

Dr Manju Vatsa

Lecturers

Dr Sandhya Gupta
Dr Kamlesh K Sharma
Mr L Gopichandran
Dr Pragya Pathak
Ms Cecilia MS
Ms Y Surbala Devi

Dr Rachel Andrews (up to 31 October 2017)
Ms Shashi Mawar (from 21 February 2018)
Ms Sibi Riju
Ms Ujjwal Dahiya
Ms Manju Singh
Ms Smita Das

Dr Deepika C Khakha
Dr Poonam Joshi
Ms Aditi P Sinha
Ms Rimple Sharma
Ms Levis Murry
Mr Ajesh Kumar TK

Ms. Milan Tirwa

Senior Nursing Tutor

Ms Gita Razdan

Nursing Tutor

Ms Kiran Singh Simak
Ms Babita Sahoo
Ms Seema Sachdeva

Ms Gayatri Batra
Dr Philomina Thomas
Ms Anubha D (Study leave from
1 August 2017)
Mr Hansaram

Ms Sucheta
Ms Meena Ara
Ms Neelima Raaj

Ms Nemkholam

Ms Monika Sabharwal

HIGHLIGHTS

EDUCATION

This academic year 72 BSc (Hons.) Nursing, 22 BSc Nursing (P.B.) students and 22 MSc Nursing students graduated from the college.

1. Undergraduate

- i. BSc (Hons.) Nursing—72 students graduated from the four year course
- ii. BSc Nursing (Post Basic)—22 students graduated from the two year course

2. Postgraduate

1. MSc Nursing—22 students graduated from MSc Nursing two year course
Twenty one students have joined the program this year in the following specialties:
 - a. Oncological Nursing (4)
 - b. Critical Care Nursing (3)
 - c. Pediatric Nursing (3)
 - d. Neurosciences Nursing (3)
 - e. Nephrological Nursing (3)
 - f. Cardiological/CTVS Nursing (3)
 - g. Psychiatric Nursing (2)
2. The College of Nursing conducted orientation/briefly sessions for:
 - Two groups of visitors from various educational institutions from India
 - Presentation on Nursing Training in Quebec at “Sandrive Chauveau Sauve”, University of Montreal, Canada

CMEs/Workshops/Symposia/National and International Conferences

1. Workshop on Advance Pediatric Care (Pediatric Update), 20 November 2017, 39 Nurses from AIIMS attended the workshop, Dr Poonam Joshi, Ms Cecilia M S and Ms. Rimple Sharma: Lecturers were coordinators
2. Presentation-Workshop on “Tools for Scientific Writing and Information Retrieval”, 9th Annual Conference at IANN, MMU Ambala—organized on 16 December 2017, Dr Manju Vatsa, Principal was the coordinator

3. 7th Annual IANN Conference at MMU Ambala—organized on 16-18 December 2017. Dr Manju Vatsa, Principal was the Chairperson
4. Workshop on “Wellbeing in Workplace” on 5 February 2018, 33 Nurses from AIIMS attended the workshop. Dr Sandhya Gupta, and Ms. Levis Murry, Lecturers were coordinators
5. Workshop on “Quality Care and Patient Safety—A Priority Not an Option” organized on 19 February 2018, 28 Nurses from AIIMS attended the workshop, Dr Kamlesh K Sharma, Mr. Ajesh Kumar T.K., Lecturers were coordinators
6. Workshop on “Mental Health at Workplace” organized on 5 March 2018, 28 Nurses from AIIMS attended the Workshop, Dr Deepika C Khakha, and Ms Y. Surbala Devi, Lecturers were coordinators
7. Medical Surgical Nursing Update organized on 8 March 2018, 23 Nurses from AIIMS attended the workshop, Ms Aditi Sinha, Lecturer was coordinator

Lectures delivered

Manju Vatsa

1. Aims and objectives, National Workshop, 18 April 2017, RAK College of Nursing, New Delhi
2. Violence against medical professionals in India, Panelist for Symposium on Violence against Medical Professionals in India, Joint Program of AHA and IMA, 29 April 2017, IMA Auditorium, New Delhi
3. Role of communication skills among nursing professionals, Quality Improvement Sensitization Workshop for Nurses, 8 May 2017, AIIMS, New Delhi
4. Palliative and institutionalized care of older persons, Training Course on Health Care Management of Elderly, 9 October 2017, NIHFV, New Delhi
5. Quality assurance in nursing, Training Course on Management for Senior Nursing Administrators, 9 November 2017, NIHFV, New Delhi
6. Experimental research designs, Video Conferencing, PhD Consortium, 13 November 2017, Indian Nursing Council, New Delhi
7. RCT's and Quasi experimental research designs, Video Conferencing, PhD Consortium, 14 November 2017, Indian Nursing Council, New Delhi
8. Research critique, Video Conferencing, PhD Consortium, 15 November 2017, Indian Nursing Council, New Delhi
9. Current models of care and new directions in neonatal health, National Neonatal Conference on Enhancing Excellence and Innovations in Newborn Care, 23 November 2017, CMC, Vellore
10. Nursing as a career-family nursing care, Annual CNE, 1 December 2017, College of Nursing, RIMS, Imphal, Manipur
11. Writing a research paper, Workshop on Tools for Scientific Writing and Information Retrieval, 7th Annual Conference of Indian Association of Neonatal Nurses, 15 December 2017, MM College of Nursing, MM University, Mullana, Ambala
12. Moderator for panel discussion on “Innovative and effective solutions and approaches to improve neonatal care”, 7th Annual Conference of Indian Association of Neonatal Nurses, 17 February 2018, MM College of Nursing, MM University, Mullana, Ambala
13. Evidence based practice, Video Conferencing, PhD Consortium, 20 February 2018, Indian Nursing Council, New Delhi

Deepika C Khakha

1. Depression let's talk about it, Professor in TNAI World Health Day on 7 April 2017, Green Park, New Delhi
2. Role of effective communication in Paediatric ICU, Quality Improvement Project, 12 April 2017, AIIMS, New Delhi
3. Types of research design, Workshop on Nursing Research for Evidence Based Nursing Practise, 4 May 2017, PGIMER, Dr Ram Manohar Lohia Hospital, New Delhi
4. Types of experimental designs, Workshop on Nursing Research For Evidence Based Nursing Practise, 5 May 2017, PGIMER, Dr Ram Manohar Lohia Hospital, New Delhi
5. Types of research design, Workshop on Nursing Research for Evidence Based Nursing Practise, 28 June 2017, PGIMER, Dr Ram Manohar Lohia Hospital, New Delhi
6. Types of experimental designs, Workshop on Nursing Research for Evidence Based Nursing Practise, 29 June 2017, PGIMER, Dr Ram Manohar Lohia Hospital, New Delhi
7. Types of research design, Workshop on Nursing Research for Evidence Based Nursing Practise, 19 July 2017, PGIMER, Dr Ram Manohar Lohia Hospital, New Delhi

8. Types of experimental designs, Workshop on Nursing Research for Evidence Based Nursing Practise, 20 July 2017, Dr Ram Manohar Lohia Hospital, New Delhi
9. Stress management for nursing students, Induction Program, 3 August 2017, Rufaida College of Nursing, New Delhi
10. Nursing education: Professionalism a way forward, 27th Annual General Body Meeting of RUPCHA, 11 August 2017, Naveenta, Okhla, New Delhi
11. Communication skills and conflict management, CNE, 16 August 2017, CNC, AIIMS, New Delhi
12. Zika transmission and advice in pregnancy and prevention and management of perinatal transmission of HIV/AIDS, National Workshop on "Current Midwifery Practice in India: Role and Scope of Nurse Midwives", 31 August 2017, Greater NOIDA, UP
13. Centralization of nursing registrations: Need of the hour, 7th International CME, Workshop and Conference on 'Cost Effective use of Technology in e-Healthcare', 12 September 2017, AIIMS, New Delhi
14. Ethical issues in nursing practice, CNE for Nursing Officers at CNC, 4 October 2017, AIIMS, New Delhi
15. Physical and emotional changes in adolescents, Parent Education Workshop, 7 October 2017, Fr Agnel, New Delhi
16. Mental health, Guest Lecture Series of 25 Lectures at Central Institute of Psychiatry, 22-26 October 2017, Ranchi, Jharkhand
17. Promotion of mental health, World Congress of Mental Health, 5 November 2017, New Delhi
18. Quality assurance in nursing, Workshop on Nursing Administration, 30 November 2017, Dr RML Hospital, New Delhi
19. Management of burnout syndrome, Workshop on Nursing Administration, 7 December 2017, Dr RML Hospital, New Delhi
20. Social, economical, and psychological changes in ageing, 15th Annual Conference of Indian Academy of Geriatrics, GERICON 2017, 16 December 2017, AIIMS, New Delhi
21. Lesser explored research design: Mixed methods, National Nursing Conference, 18 January 2018, AIIMS, Jodhpur
22. Quality of nursing research: At present and way forward, National Nursing Conference, 18 January 2018, AIIMS, Jodhpur
23. Quality assurance in nursing, Workshop on Nursing Administration, 15 February 2018, Dr RML Hospital, New Delhi
24. Management of burnout syndrome, Workshop on Nursing Administration, 22 February 2018, Dr RML Hospital, New Delhi
25. Counselling skills: Need of the hour, Workshop on Mental Health at Workplace, 6 March 2018, AIIMS, New Delhi
26. Management of burnout syndrome, 10th Annual Conference of WCC, 8 March 2018, AIIMS, New Delhi

Kamlesh Kumari Sharma

1. Concepts of Heart Failure Clinic, CNE for Nursing Officers on Nurse-Led Heart Failure Management Program at AIIMS, 5 April 2017, AIIMS, New Delhi
2. Heart Failure Clinics: The experience, Cardiovascular Research Convergence 2017, 20 August 2017, AIIMS, New Delhi
3. Vaccination updates, The plenary session on the theme recent updates in neonatal pharmacology, 7th Annual Conference of Indian Association of Neonatal Nurses, IANN, 17 December 2017, Maharishi Markandeshwar College of Nursing, Mullana, Ambala
4. Quality assurance and nursing audit: An overview, Quality Care and Patient Safety: A Priority and Not an Option, 19 February 2018, AIIMS, New Delhi
5. Chest compression, Nursing update on NRP, Organized by College of Nursing, AIIMS, 20 March 2018, CRHSP Ballabgarh, Ballabgarh

Poonam Joshi

1. Triage, Triage Workshop, 4 October 2017, JPNA, Trauma Centre, AIIMS, New Delhi
2. Overview of pediatric critical care, Pediatric Critical Care Nursing, 20 October 2018, AIIMS, New Delhi
3. Neonatal resuscitation, Pre-Conference Workshop, 7th Annual Conference of Indian Association of Neonatal Nursing, 15 December 2017, MM College of Nursing, Mullana, Haryana
4. Total parental nutrition, 7th Annual Conference of Indian Association of Neonatal Nursing (Main Conference), 16 December 2017, MM College of Nursing, Mullana, Haryana
5. Triage, Triage workshop, 20 January 2018, JPNA Trauma Centre, AIIMS, New Delhi
6. Emerging roles in nursing, Excellence in Nursing Services and Infection Control, NURSICON, 11-12 January 2018, Department of Nursing Services, New Delhi

Shashi Mawar

1. Depression among elderly, World Health Day Celebration, 7 April 2017, RML, Delhi
2. Panel discussion, Quality Assurance in Nursing, Challenges in Nursing in 21st Century, National Conference on Emerging Perspectives in Nursing Care, 11-12 September 2017, Srinagar
3. Communication strategies to improve patient safety, 2nd Annual Patient Safety Conference, 22-23 September 2017, Nehru Place, New Delhi
4. Highlights on integrated approaches on cardiac rehabilitation: Management of hypertension among older population in community by a nurse led program, World Congress on Clinical and Preventive Imaging, 29 September-2 October 2017, Amritsar
5. Public health response to population ageing, National Health Programme for Elderly, GERICON 2017, 16-17 December 2017, AIIMS, Delhi
6. Panel discussion on how Indians use technology in health care, Health Clave 2018 International Conference on Technological Impact on Epidemiology and Health Care, 2-3 February 2018, AIIMS, Mohali
7. Panel discussion on why nursing is loosing its Sheen in India, Smart Nursing Conference 2018, 16-17 March 2018, KIMS Institute, Delhi

L. Gopichandran

1. True collaboration at work environment, National Conference, 18 August 2017, KIMS Institute, Bangalore
2. Heart failure—Telemonitoring, CNE, 20 November 2017, Safdarjung Hospital, New Delhi
3. Nurse Led Heart Failure Clinic, CEUTECH International Conference, 12 November 2017, AIIMS, New Delhi
4. Nurse Led Breast Care Program, ASOMCON International Conference, 7-9 October 2017, Delhi
5. Nurse Led Heart Failure Clinic, CNE, 10 October 2017, LHMC and Sri Kalavathi Hospital, New Delhi
6. Creative educational strategies and challenges in nursing, National Conference, 25 October 2017, SRM University, Chennai
7. Comprehensive management of febrile neutropenia, SOLACE, International Conference, 20 January 2018, Kochin, Kerala
8. Current scenarios in first aid, National Workshop, 23 February 2018, KGMU Institute of Nursing, Lucknow

Sibi Riju

1. Experience sharing by the care givers in management of elderly at home, 15th Annual Conference of the Indian Academy of Geriatrics—Nursing Conference, 17 December 2018, AIIMS, Delhi
2. Neurological assessment, Recent Trends in Nursing—Medical Surgical Update, 9 March 2018, AIIMS, Delhi

Cecilia MS

1. Psychosocial aspects of care of elderly, GERICON 2017, 16-17 December 2017, AIIMS, New Delhi

Manju

1. Introduction to research: Definition, characteristics, objectives, Workshop on Nursing Research for Evidence Based Nursing Practice, 2 May 2017, Department of Continuing Nursing Education, RML Hospital, New Delhi
2. Processing and analysis of data: Descriptive and analytical statistics, Workshop on Nursing Research for Evidence Based Nursing Practice, 6 May 2017, Department of Continuing Nursing Education, Dr RML Hospital, New Delhi
3. Management of frailty, Annual Conference of Indian Academy of Geriatrics—GERICON 2017, 17 December 2017, AIIMS, New Delhi
4. Kidney disease in women and men: How are they different, World Kidney Day, 9 March 2018, Dr RML Hospital, New Delhi

Yumnam Surbala Devi

1. Self care in psychological first aid, 21st World Congress of Mental Health, Organized by World Federation of Mental Health, 2-5 November 2017, New Delhi
2. Refusal skills, Training Programme on Substance Abuse for Nurses, 2-9 March 2017, NDDTC, Ghaziabad
3. How to say NO, One Day Training Programme for Nursing Students, 5 March 2017, Ghaziabad

Smita Das

1. Care of patient on ECMO, ECMO Critical Care for Nursing, 20 January 2018, AIIMS, New Delhi
2. Cancer prevention strategies—What's new? National Cancer Awareness Day, Symposium on "Together We Can Beat Cancer", 7 November 2017, AIIMS, New Delhi
3. Team Dynamics and Conflict Management Techniques, Workshop on Empowering Nursing Leadership, 30 November 2017, AIIMS, New Delhi

Rimple Sharma

1. Sleep disorders in elderly, GERICON, 16-17 December 2017, AIIMS, New Delhi
2. Research designs, CNE, 16 February 2018, Dr RML Hospital, New Delhi

Levis Murry

1. Tools for Quality Improvement (QI), QI Sensitization Workshop for Nurses, 5 August 2017, Conference Room AIIMS, New Delhi
2. Feeding of normal and low birth weight babies, Essential Newborn Care Course—Online, 16 August 2017, NHKC, AIIMS, New Delhi
3. Special considerations: Resuscitation of premature babies, ethics and end of life care, IANN National Conference—Pre Conference NRP Workshop, 15 December 2017, MM College of Nursing, Mullana, Haryana
4. Initial steps of resuscitation, Neonatal Resuscitation Workshop, 20 March 2018, CHSRP Ballabgarh, Haryana

Ajesh Kumar

1. Aggression management among patients having mental disorders, World Congress of Mental Health, 2-5 November 2017, New Delhi
2. Elderly abuse and neglect, GERICON 2017, 16-17 December 2017, JLN, AIIMS, New Delhi
3. Patients rights and nurses responsibilities, Nursing Update, 18 February 2018, CMET, AIIMS, New Delhi

Milan Tirwa

1. Hand off, Effective Communication During Patient Handover, 16 March 2018, DGHS, Karkardooma, New Delhi
2. Injury based triage, Triage Protocol Workshop, 20 January 2018, Trauma Centre, AIIMS, New Delhi
3. Injection safety, Biomedical Waste Management, 27 January 2018, DGHS, Karkardooma, New Delhi
4. Chest trauma, Injuries and Triage, Strengthening Trauma and Emergency Care Workshop on Triage Protocol, 24 and 25 October 2017, SMS Hospital, Jaipur
5. Conflict Management, Leadership, Conflict Management and Communication Skills, 19 December 2017, DGHS, Karkardooma, New Delhi

Gayatri Batra

1. Values in healthcare, Conducted by Professor Usha Kiran, April 2017, CMET, AIIMS, New Delhi
2. Pitfalls in healthcare and methods to overcome them, Global Nursing Conference, 30 November to 2 December 2017, Las Vegas, USA

Babita Sahoo

1. Management of caregiver burden of the elderly, 15th Annual Conference of the Indian Academy of Geriatric, 17 December 2017, AIIMS, New Delhi

Philomina Thomas

1. Indian nurse migrants in six countries—Findings from a questionnaire based survey, Healthcare ‘Guestworkers’ on the Move in Asia and Europe organized by Goethe University and Hessen State Ministry for Higher Education, 23 June 2017, Frankfurt am Main, Germany, Indian nurse migrants in six countries—Findings from a questionnaire based survey
2. Endotracheal intubation, quality nursing care: Optimising neonatal outcomes organized by Indian Association of Neonatal Nurses and MM College of Nursing, Mullana, 15 December 2017, Mullana, Ambala, Haryana
3. Migration of nurses, Dissemination Meeting on WHO study organized by Department of Health and Family Welfare, Government of Kerala in collaboration with WHO, 24 January 2018, Trivandrum

Oral papers/posters presented

1. Anita, Khakha DC, Bhargava R. A study to assess personality, psychological distress and adjustment difficulties among nursing students at AIIMS, World Congress of Mental Health, 2-5 November 2017, New Delhi
2. Thomas M, Khakha D, Satapathy S. Suffering in silence: A study to assess the perceived stress, quality of sleep and caregiver burden among caregivers of mentally ill clients in AIIMS, World Congress of Mental Health, 2-5 November 2017, New Delhi
3. Syiemlieh B, Thomas M, Anita, Khakha D. A Bitter truth: Loneliness among elderly attending OPD, GERICON 2017, 2017, AIIMS, New Delhi
4. Dwivedi D, Pattanayak RD, Khakha D, Dey AB. The walk through the woods: Concerns and challenges of the caregivers of dementia patients, GERICON 2017, 2017, AIIMS, New Delhi
5. Dave K, Khakha DC. A survey study to assess the elderly patients’ knowledge about anticoagulation therapy, GERICON 2017, 16 December 2017, AIIMS, New Delhi
6. Anita, Khakha D. Depression among elderly attending AIIMS Geriatric OPD, GERICON 2017, 16 December 2017, AIIMS, New Delhi

7. Thomas M, Khakha D. The next potential patient: A study to assess caregiver burden among family caregivers of elderly patients, GERICON 2017, 16 December 2017, AIIMS, New Delhi
8. Singh M, Khakha D, Bakshi S, Sharma R, Patra BN, Khakha CC. An innovative way to reduce parenteral distress and improve coping of parents having children with Leukemia, 55th Annual Conference of Indian Academy of Pediatrics, 5 January 2018, Nagpur
9. Sharma KK, Vatsa M. Seeking help for domestic violence: Exploring women's coping experiences, 45th Annual National Conference, Indian Association of Preventive and Social Medicine (IAPSM) and 19th Maharashtra State Joint Conference of IAPSM and Indian Public Health Association (IPHA), 11 March 2018, Smt Kashi Bai Navale Medical College and General Hospital, Pune, Maharashtra
10. Sharma KK, Vatsa M. Prevalence and pattern of domestic violence against women during pregnancy, in Delhi, 62nd Annual National Conference of Indian Public Health Association (IPHACON 2018), 10 February 2018, Department of Community Medicine, KGMU, Lucknow, UP
11. Rai M, Sharma KK, Seth S, Pathak P. A randomized controlled trial to assess the effectiveness of nurse based heart failure management programme, CNE on Nurse-Led Heart Failure Management Programme, 5 April 2017, AIIMS, New Delhi
12. Lorate RA, Sharma KK, Dhar A, Jagia P. Prevalence of Chronic Venous Disease (CVD) and effectiveness of structured exercise protocol among nurses with CVD, August 2017, New Delhi
13. Dabas S, Joshi P, Aggarwal R, Yadav RK, Kachhwa G. Randomized controlled trial to assess the impact of relaxation technique on stress, anxiety and milk output among postpartum mothers of hospitalized neonates admitted in NICU, AIIMS, New Delhi, 37th Annual Conference of NNF, NEOCON, 7-10 December 2017, Gurgaon, Haryana
14. Vanita, Joshi P, Dua A, Sapra S. Developmental status of children operated for EA and TEF along with caregivers' stress, quality of life and coping abilities: A pilot study, National Nursing Conference on Enhancing Excellence and Innovations in Newborn Care, 23-24 November 2017, CMC, Vellore
15. Gopichandran L, Srivastava A, Vanamail P. Factors influencing pain dimensions in patients with chronic tension type headache attending tertiary health care facility: An exploratory survey, Global Nursing Conference, 30 November-2 December 2017, Las Vegas, USA
16. Mawar S, Koul P, Prakash R, Rai S, Mani K. Management of hypertension among older population in community by a Nurse Led Program, GERICON 2017, 16-17 December 2017, AIIMS, New Delhi
17. Sharma R. An innovative way to reduce parental distress and improve coping of parents having children with leukemia, 55th Annual IAP Conference, 5 January 2018, Nagpur
18. Murry L, Kaur R, Das S, Salvation J, Sharma A, Kant S. Initiating breastfeeding within an hour of birth in Labor Ward of Secondary Level Hospital, IANN National Conference, 16 December 2017, MMUCON, Mullana, Ambala
19. Yumnam DS, Gupta S. A co relational study of addictive behavior, smart phone gaming, gambling and depressive symptoms among college students, First National Conference on Addictive Psychiatry (NCAP), 27-29 November 2017, AIIMS, New Delhi
20. Chongloi N. Effectiveness of Individually Packed Sterile Guaze versus Drum Packed Gauze on the incidence of Surgical Site Infection (SSI) in Surgical Ward, AIIMS, New Delhi, Indian Nursing Conference 2018 (INC), 24 February 2018, Nehru Yuva Kendra Sangathan, New Delhi
21. Chongloi N. Study to assess and evaluate the effectiveness of application of ice cube prior to giving subcutaneous injection of heparin on pain perception and ecchymosis of patients with cardiovascular problems, Euro Heart Failure 2018 Conference, 19-21 February 2018, France
22. Sachdeva S. Quality initiative in reducing nebulisation administration in red triage area from baseline to 50% in emergency ward AIIMS, New Delhi, Indian Nursing Conference 2018 (INC), 24 February 2018, Nehru Yuva Kendra Sangathan, New Delhi
23. Sachdeva S. Understanding mechanism of injury in trauma patients, AIIMS Traige Protocol Workshop, 28 March 2018, AIIMS Trauma Centre, New Delhi

RESEARCH

Funded projects

Ongoing

1. A study to assess the knowledge and skills of nurse related to basic and advance CPR and to evaluate the impact of training programme on real time assessment of resuscitation and its outcome in a tertiary level care facility, Smita Das, AIIMS, 1 year, 2018, Rs 3.7 lakhs
2. Effectiveness of nurse-led structured telephone heart failure management programme—A RCT, Gopichandran L, AIIMS, 1 year, 2017-2018, Rs 2 lakhs

Completed

1. Effectiveness of nurse led program on management of diabetes among elderly, Shashi Mawar, Intra Mural Grant, 2 years, 2015-2017, Rs 3.5 lakhs

Departmental projects

Ongoing

1. A study to assess the effectiveness of structured patient education programme on knowledge regarding anticoagulation and INR control among patients undergoing mechanical valve replacement at AIIMS, New Delhi
2. A study to assess the effectiveness of critical care nursing protocol for acute decomposed heart failure patients in CCU, AIIMS, New Delhi
3. A study to assess the effectiveness of structured health education program on knowledge and attitude regarding consanguinity leading to congenital heart defects in children among 18-25 years of selected college of Delhi
4. A study to assess adherence to analgesics, adjuvants and determinants of its deviation among patients with cancer pain at Dr BRAICH, AIIMS, New Delhi
5. A randomized control trial to assess the effectiveness of recorded maternal voice on child's co-operation and pain perception during bone marrow examination among children with cancer at IRCH, AIIMS, New Delhi
6. A study to evaluate the effect of video based education on knowledge of caregivers of children with acute leukemia regarding prevention of infection during chemotherapy at AIIMS, New Delhi
7. A study to assess the knowledge and attitude of patient about OSA and CPAP therapy with a view to develop a booklet at AIIMS, New Delhi
8. A descriptive study to assess the cognitive function and quality of life of post traumatic brain injury patients attending neurosurgery OPD at JPNATC with a view to develop informational booklet
9. A descriptive study to assess the impact of migraine on work productivity and disability due to migraine and to assess the knowledge regarding migraine prevention with an aim to develop an educational booklet for migraine patients attending neurology OPD at AIIMS, New Delhi
10. A study to evaluate the effectiveness of low intensity intradialytic exercises in serum urea creatinine clearance in CKD patients undergoing hemodialysis at a tertiary care hospital
11. An observational study to assess the medication administration practices and gaps related to transcription, administration and documentation in general wards of AIIMS, New Delhi
12. A study to assess the risk and effectiveness of an education booklet on knowledge of chronic kidney disease among hypertensive and diabetic patient at AIIMS, New Delhi
13. A descriptive study to assess the knowledge, attitude, practices perceived barriers and support regarding palliative and end of life care among critical nurses working in ICU, AIIMS, New Delhi
14. A study to assess effectiveness of structured teaching programme on knowledge of antiarrhythmic drugs among ICU nurses
15. Activity analysis of the nurses who are working in casualty/emergency of AIIMS, New Delhi
16. A study to assess the parental stress and psychological health of women having single parenting experience in Delhi, NCR
17. A study to determine the effect of nutritional status at the time of admission of critically ill children in PICU on the outcomes
18. A study to assess the knowledge and practices on diabetic care among the caregivers of children with type 1 diabetes mellitus
19. A study to assess the prevalence and knowledge about oral health problems among children undergoing chemotherapy and their caregivers with a view to develop an information booklet at AIIMS, New Delhi
20. A study to assess knowledge and attitude of family members of hematological cancer patient regarding hematopoietic stem cells donation at BRAIRCH, AIIMS, New Delhi
21. An exploratory study to assess the impact of internet addiction among college students on various aspects of life with a view to develop information booklet
22. Male nurses' perception as a nursing professional, and attitude of female colleagues, nurse managers, and patients towards male nurses, at AIIMS, New Delhi
23. Quality improvement project on Initiating breastfeeding within an hour of birth in Labor Ward of CHSRP, Ballabgarh
24. Prevalence of depression and its risk factors in postpartum mothers at AIIMS, New Delhi
25. Knowledge and attitude of undergraduate students, AIIMS regarding organ donation
26. Comparative study to assess the Continuous aspiration of subglottic suction VS conventional ET suction in reducing VAP in ICU, AIIMS, New Delhi

Completed

1. A study to assess personality, psychological distress and adjustment difficulties among nursing students at AIIMS
2. A comparative study to assess the knowledge regarding stroke its risk factor and prevention among cardiac patients with and without stroke at CNC OPD at AIIMS
3. A cross sectional study to assess alexithymia and depression among haemodialysis patients seeking treatment at the AIIMS with a view to develop a module for its management for the care givers

4. A cross sectional study to assess body image disturbance and self esteem among adolescents with acne visiting dermatology OPD AIIMS with the view to develop 'information booklet on psychological aspect of management of acne'
5. A descriptive study to assess the development of children along with parental stress, quality of life and their coping abilities in children operated for tracheoesophageal fistula at AIIMS
6. A descriptive study to assess the perceived needs and satisfaction of care among family members of patients with acute decompensated heart failure at emergency department, AIIMS
7. A randomized control trial to assess the impact of relaxation technique on stress and milk output on post-partum mothers of hospitalized neonate in NICU, AIIMS, New Delhi
8. A study to assess knowledge regarding identification of delirium in various ICU patients among ICU staff nurses working in AIIMS, New Delhi, with a view to develop a protocol
9. A study to assess resilience of adult family caregivers of patients having schizophrenia and its related disorders in AIIMS, New Delhi
10. A study to assess self efficacy, knowledge and the problems faced by the patients who have undergone renal transplantation at AIIMS, New Delhi, with a view to develop 'Renal transplant education booklet'
11. A study to assess the effect of laughter yoga on stress, quality of sleep and caregiver burden among caregivers of mentally ill clients in AIIMS, New Delhi
12. A study to assess the effectiveness of an Information, Education, Communication (IEC) package on compliance to Glaucoma medication regarding knowledge and practice among the caregivers of children attending glaucoma clinic AIIMS, New Delhi
13. A study to assess the effectiveness of planned simulation teaching regarding the use of defibrillation on the knowledge and the practice among nurses working in emergency department and critical care unit AIIMS, New Delhi
14. A study to assess the employment rate and factors affecting the employment in people with epilepsy
15. A study to assess the factors associated with delay in diagnosis of carcinoma breast and carcinoma oral cavity among the OPD and IPD patients at Dr Bheem Rao Ambedkar Institute Rotary Cancer Hospital, AIIMS, New Delhi
16. A study to assess the level of fatigue and presence of functional deficit in adult patients undergoing upfront surgery for solid tumors in pre-surgical and post-surgical phase in AIIMS
17. A study to assess the lived in experiences of critically ill patients who were on mechanical ventilation in medical surgical ICU, AIIMS, New Delhi
18. A study to assess the quality of life and supportive care needs of the post-operative patients with oral cancer and their caregiver's burden in BRA IRCH, AIIMS
19. A study to find out relapse of tobacco seeking behavior in tobacco users, recovering from stroke and the related contributing factors, AIIMS, New Delhi
20. An experimental study to assess the effectiveness of chewing gum on bowel motility among patients who have undergone elective abdominal surgery and admitted in GI Surgery Ward/ICU, AIIMS, New Delhi
21. An RCT to assess the effectiveness of structured teaching on knowledge about disease and quality of life among acute decompensated heart failure patients in AIIMS, New Delhi

Collaborative projects

Ongoing

1. Feasibility and acceptability of nurse led neonatal follow-up clinic: A pilot study, Neonatology Division, Pediatrics
2. Disease knowledge, treatment adherence and self efficacy among adolescents with Thalassemia major and their parents' perspective with a view to develop informational booklet on "Living with Thalassemia", Hematology
3. A cross sectional study to assess the prevalence of depression and its risk factors among postpartum women attending Obstetric Outpatient Department and Immunization Clinic at 6 weeks postpartum at AIIMS, New Delhi

PUBLICATIONS

Journals: 17

Chapters in Books: 2

PATIENT CARE

1. The faculty and students participated in outdoor and indoor patient care activities of all clinical departments of the institute
2. The faculty and students organized and conducted:
 - i) Over 100 health education sessions in urban community
 - ii) Organized 25 exhibitions and role plays in urban community. Topics were related to current problems and all the role plays were on important World Health Days

- iii) Students conducted nine health surveys in Urban Community. Dr Kamlesh Kumari Sharma coordinated and supervised
- iv) Three awareness programmes for public and class 6-10 students at Trilokpuri
- v) Participated in and coordinated student participation in “Swasthya Chetna and Jan Sampark Abhiyan”; NCD, Screening and Awareness Camps at Pragati Maidan, New Delhi, 14-21 November 2017, 37th India International Trade Fair organized by Ministry of Health and Family Welfare

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Dr Manju Vatsa continued as Founder President, Indian Association of Neonatal Nurses; General Body and Nursing Education Committee Member, Indian Nursing Council (INC); Core group member, INC PhD Consortium; Peer team member, Nagiratnam College of Nursing, Bengaluru, Choithram College of Nursing, Indore, Mother Theresa PG and Research Institute of Health Sciences, Puducherry, for National Assessment and Accreditation Council of UGC; Member, UGC Expert Committee for Inspection of Symbiosis Deemed University, Pune, Sri Venkateswara Deemed University, Gajraula, Amroha, Krishna Institute of Medical Sciences, Karad, Maharashtra, Meenakshi Academy of Higher Education (Deemed University), Chennai; Inspector for Guru Gobind Singh Indraprastha University for College of Nursing, Dr RML Hospital, for INC for Birla Institute of Medical Research, College of Nursing Gwalior for Nurse Practitioner Course, and College of Nursing, AIIMS, Bhubaneswar for starting PG Courses in Nursing; Member selection committees for AIIMS Rishikesh, AIIMS Bhubaneswar, Institute of Liver and Biliary Sciences, New Delhi, Chaudhary Charan Singh University, Meerut for Santosh Deemed University and Kalka College of Nursing; Participated in various committees of AIIMS: Staff Council, Convocation, Institute Day, Selection Committee (PB Nursing), AIIMSONIANS of America Award Selection Committee, Anti Ragging Squad, Counseling for admission to MSc nursing and for 7 AIIMS for BSc (Hons) nursing, Revision of RR’s for nursing personnel, Selection Committee for MISSION DELHI project of Department of Cardiology etc.; Judge for Hindi Essay Competition and Hindi Poetry competition by Hindi Section, AIIMS during Hindi Pakhwara Celebrations; Examiner for MSc Nursing at BPKIHS, Dharan, Nepal, PhD viva examination Guwahati University, and MSc Nursing for Baba Farid University of Health Sciences Punjab; Nominated executive member of AIIMSONIANS; Expert for MOHFW—To develop emergency life support courses for nurses and ROP Task Force; Expert, NHSRC for NCD-TAG meeting for developing training material for healthcare professionals; Member, Board of studies in nursing for PGIMS Rohtak and Jamia Hamdard University, New Delhi; Member, Research Ethics Committee for Nursing at SGT University, Gurgaon; Chairperson, ‘Task shifting for Chronic NCDs’, Workshop for nursing professionals post conference workshop, NCD Congress 2017, PGI, Chandigarh, 7 November 2017; Chief Guest, Inauguration of National Neonatal Conference on Enhancing Excellence and Innovations in Newborn Care, CMC, Vellore, 23 November 2017; Chairperson, Nurses role in substance use disorders, Addiction Psychiatry Conference, Department of Psychiatry, AIIMS, 29 November 2017; Guest of Honour, Lamp Lighting Ceremony, College of Nursing, RIMS, Imphal, Manipur, 1 December 2017; Chairperson, Keynote address: Strategies for making every newborn survive, 7th Annual Conference of Indian Association of Neonatal Nurses, MM College of Nursing, MM University, Mullana, Ambala, 16 December 2017; Guest of Honour, Inauguration of 1st Nursing Conference on Excellence in Nursing Practices and Infection Control, NURSICON, College of Nursing, AIIMS, 11 January 2018; Chairperson, Evidence based nursing practice, 1st Nursing Conference on Excellence in Nursing Practices and Infection Control, NURSICON, College of Nursing, AIIMS, 12 January 2018; Guest of Honour, Inauguration of workshop on prevention of central line associated blood stream infections, College of Nursing, BRAIRCH, AIIMS, 26 February 2018; Guest of Honour, Inauguration of 10th Annual Conference of Society of Cardiac Anesthesiology for workshop on women and cardiac and mental health, AIIMS, 8 March 2018; Chairperson, Session on pregnancy and kidney disease and dialysis, Symposium on kidney diseases, World Kidney Day 2017, Department of Nephrology, AIIMS; Judge for Poster Presentations, 1st National Conclave on Psychological Trauma, Child Protection and Mental Illness, 27-28 March 2018, AIIMS, New Delhi; Chairperson, Task shifting for chronic NCD’s, Post conference workshop, World NCD Congress 2017, 7 November 2017, PGI, Chandigarh; Chairperson, ‘Nurses role in substance use disorders’, Addiction Psychiatry Conference, Department of Psychiatry, 29 November 2017, AIIMS, New Delhi; Chairperson evidence based nursing practice, 1st Nursing Conference on Excellence in Nursing Practices and Infection Control, NURSICON, College of Nursing, 12 January 2018, AIIMS, New Delhi; Chairperson, Keynote address: Quality improvement in neonatal health, 7th Annual Conference of Indian Association of Neonatal Nurses, 16 February 2018, MM College of Nursing, MM University, Mullana, Ambala; Chairperson, Pregnancy and kidney disease and dialysis, Symposium on kidney diseases, World Kidney Day 2017, Department of Nephrology, 8 March 2018, AIIMS, New Delhi

Dr Deepika C Khakha was member of World Health Organization’s (WHO) Global Clinical Practice Network (GCPN), an international community of mental health and primary care professionals committed to furthering research and practice in global mental health; Member, Doctoral Committee, PhD nursing student, College of Nursing, AIIMS, New Delhi; Expert for content validity of MSc nursing student of Delhi University on Living with HIV/AIDS: A qualitative study to assess the quality of life of adolescents (13-19 years) attending selected ART Centre in Delhi; MSc thesis adjunct for Baba Farid University of Health Sciences; Chaired Award Paper at GERICON 2017 on 16 December 2017; Organizing secretary for GERICON 2017 on 16 -17 December 2017; Curriculum Revision Committee of IGNOU for Psychiatric Nursing Course; Scientific Committee of Conference on Trauma Conclave held in March 2018; Expert at the Ethics Committee of

ILBS, attended meeting on 13 January 2018; Expert for content validity of a Geriatric Training Program at Helpage India, 26-28 February 2018; Chaired a session on World Kidney Day at Dr RML Hospital on kidney disease in women and men: How are they different on 9 March 2018; Subject expert, Doctoral Committee of Baba Farid University of Health Sciences; PhD thesis adjudicator for Dr MGR Medical University; Organizing Secretary, Workshop on Mental Health at Workplace, 5-6 March 2018, AIIMS, New Delhi; Judge/Co-Chair of Free Paper Presentation on First National Conclave on Psychological Trauma, Child protection and mental illness on 27 March 2018 at AIIMS, New Delhi; Scientific Committee of First National Conclave on Psychological Trauma, Child protection and mental illness on 27-28 March 2018 at AIIMS, New Delhi; Supervision, Workshop on nursing administration, 10 March 2018, Kalawati Saran Hospital, New Delhi; Member, Editorial/Advisory Board, Journal of Nursing Science and Practice, Indian Journal of Advanced Nursing, Scholar Report and Journal of Comprehensive Nursing Research and Care; Reviewer for International Journal of Health and Allied Sciences, Baba Farid University Nursing Journal, Journal of Advanced Research in Nursing Science, Annals of Nursing and Practice, Journal of Community Medicine and Public Health Care, Current Psychiatry Reviews, Journal of Affective Disorders, Journal of Community Health Management, Journal of Education Technology in Health Sciences, Asian Journal of Psychiatry, British Journal of Mental Health Nursing, American Journal of Psychiatry and Neuroscience and Journal of Alternative, Complementary and Integrative Medicine.

Dr Kamlesh Kumari Sharma was selected for and currently pursuing the 1-year Part Time Fellowship Programme in 'Clinical Research Methodology and Evidence Based Medicine' under CMET with Professor Kameshwar Prasad as Chief Co-coordinator at AIIMS since 20 January 2018; Reviewer, International Journal of Advanced Research in nursing science and midwifery; Guiding PhD candidates (two) of National Consortium for PhD nursing by Indian Nursing Council in collaboration with Rajiv Gandhi University of Health Sciences, Bengaluru (12th Batch); Member, Doctoral Committee, College of Nursing, AIIMS, New Delhi; Expert member to review 'Certificate in Community Health for Nurses' course developed by School of Health Sciences, IGNOU, in collaboration with Ministry of Health and Family Welfare, Government of India; Chaired session as judge for research presentations on 12 September 2017, in the 7th International CME, Workshop and Conference on 'Cost Effective Use of Technology in e-Healthcare', 11-13 September 2017, AIIMS, Organized by Department of IT and Emergency Medicine, AIIMS, New Delhi; Member, Board of Studies in nursing for Swami Rama Himalayan University, Dehradun, Uttarakhand; Ad-hoc inspector, Indian Nursing Council (INC), Conducted two inspections in July and October 2017; External examiner for UG and PG Programmes for seven universities; Adjudicated PhD thesis of University of Health Sciences, Assam; Central Assistant Public Information Officer, College of Nursing since July 2010; Student Nurses Association (SNA) advisor till August 2017; Deputy hostel superintendent, New Nurses Hostel, Masjid Moth, AIIMS since 8 December 2014; Attended seven national/local workshops/conferences.

Dr Shashi Mawar chaired session communication with ECMO Team, SWAC-ELSO Fifth Annual Conference, India Habitat Centre, 18-21 January 2018, AIIMS, Delhi; Chaired session on "Infection preventive practices in peripherally inserted central line", Workshop on prevention of central line associated blood stream infections, 26 February 2018, Dr BRAIRCH, AIIMS, Delhi; Chaired session on "Drugs used for Chronic kidney diseases", Kidneys and women health, 8-9 March 2018, Dr BRAIRCH, AIIMS, Delhi.

Mr L Gopichandran received AIIMSONIANS of America Book Prize Award—Excellence in nursing for best research work at AIIMS Institute Day celebration, 25 September 2017; Enrolled in Part Time Fellowship Programme on clinical research methodology and evidence based medicine conducting by Clinical Epidemiology Unit with CMET (2017-2019 Batch); Appointed external examiner at AIIMS Rishikesh, AIIMS Bhopal, AIIMS Jodhpur, ILBS CON Delhi, Baba Farid University.

Ms Levis Murry guided students in co curricular activities as Students' Nurses Association (SNA) advisor; Was external examiner for MSc nursing, Baba Farid University of Health Sciences, Punjab; Participated in two workshops.

Ms Manju Singh chaired the scientific sessions on "urinary tract infection in women" and "antenatal care and the kidneys" on World Kidney Day Symposium on kidney diseases on 8 March 2018 at AIIMS, New Delhi.

Ms Sucheta Yadav did content validity of Geriatric Training for elderly at Helpage India, New Delhi, 26-28 February 2018; Master Trainer for Training of Trainers for Elderly, Pilot Project Helpage India at Shimla, 21-25 March 2018.

Mr Hansaram did anti-ragging rounds in the hostel in August 2017; Did allocation of Lecture Theatre; facilitated clinical teaching in the form of bedside discussion, clinical demonstration and case presentation; Deputed as Faculty In-Charge for entrance and recruitment exams held by the institute.

Ms Cecilia MS involved in the training of trainers a home care pilot project by Helpage India and has handled various topics related to home care of elderly. This project was held at Cuddalore, Tamil Nadu, 9-13 April 2018; Resource person in modulating the curriculum for training of trainers regarding home care management for a pilot project of Helpage India at the Helpage India Office, Qutub Institutional Area from 26-28 February 2018; Involved in recruitment Board of

Recruitment of Staff Nurses for a project by Geriatric Department, AIIMS; Resource faculty for recruitment exam for staff nurses to AIIMS; Examiner for AIIMS, New Delhi and Bhopal.

Ms Gayatri Batra attended two conferences; Performed activities required for as assigned staff secretary; Assistant Student Nurse Association advisor and organized SNA Election, SNA Farewell, SNA Meeting, Diwali Celebration, General Body Meeting, Intra-College Competition, College Day–Kaleidoscope, Intra College Panel Discussion, New Year Celebration, Lohri Celebration, Holi Celebration and State Level Inter College Group Dance Competition.

Student Nurses: Participation and awards/prizes won in various state level inter-college extracurricular activities: Poetry competition (2nd prize), Floor decoration (2nd prize), Henna designing (1st prize), Pebble painting (1st prize), Solo dance competition (1st prize), Personality contest (1st prize), Personality contest (2nd prize) and Quiz competition (1st prize).

8. Research Section

Dean (Research)

Chitra Sarkar

Associate Dean (Research)

Vineet Ahuja

Administrative Officer

Smt. Renu Bhardawaj

Accounts Officer

Smt. Meenakshi Dabral

Stores Officer

Sh. Narender Kumar

Research is a major thrust area for the faculty and scientists of AIIMS. Research Section acts as the nodal facilitator for supporting all research activities at AIIMS and by providing efficient administration, guidelines and maintaining accounts and stores management of research funds, appointment of research staff, payment and purchase of equipment, etc. Research Section plays an important facilitator role for extramural research projects funded by various national and international agencies such as ICMR, DST, DBT, CSIR, Ministry of Health and Family Welfare, WHO, Wellcome Trust and inter-country scientific collaborations and encouraging research by providing intramural grants.

The Section has three functional units, viz. Administrative, Accounts and Stores. Additionally, a Technology Transfer and Patent Cell guides the faculty/scientists in issues related to intellectual property rights (IPR) and filing appropriate patents. The day-to-day work is managed by the Dean (Research) and Associate Dean (Research), a team of senior officials and assistants looking after administration, finance and store purchase. The Research Section appoints research, technical and non-technical support staff in the extramural research projects and the staff thus appointed are called Project Staff. All machinery, equipment, chemicals, contingencies, etc. are purchased through the Research Section. The Section deals with all the research related work as per guidelines framed for this purpose.

The extramural research in AIIMS is managed under the guidance of the Dean's Research Committee (DRC).

INTRAMURAL RESEARCH GRANTS (Basic and Clinical Sciences)

The intramural research projects for the year 2017–18 are listed below.

S. No.	Project code	Principal Investigator	Project title	Funds allocated (Rs.)
1	A-502	Sumit Malhotra	Health and nutrition behaviour need assessment of community based youth in a rural area of north India	400000
2	A-503	Jasbir Kaur	Role of circulating endothelial progenitor cell markers in human retinoblastoma	500000
3	A-504	Rama Chaudhry	Characterization of bacteriocins produced by Lactobacillus and assessment of their antimicrobial profile	500000
4	A-505	Avinash Chakrawarty	Impact of Nordic walking training on functional status in the very old: A randomized control trial	100000
5	A-506	Deepak Agrawal	VEGF: As a potential systemic marker of local angiogenic activity in cerebral arteriovenous malformations and response to gamma knife surgery	495000
6	A-507	Sanjeev Lalwani	Post mortem histopathological study of post TBI (Traumatic Brain Injury) induced axonal injury using silver and ABPP stains in corpus callosum brain stem and thalamus	480000
7	A-508	Richa Aggarwal	Evaluation of urinary biomarkers TIMP-2 and IGFBP7 for early prediction of acute kidney injury after traumatic crush injuries	350000
8	A-509	Surender K. Sharawat	The clinical significance of HOTAIR and HOTAIRM1 long non-coding RNAs in paediatric acute myeloid leukaemia	400000

S. No.	Project code	Principal Investigator	Project title	Funds allocated (Rs.)
9	A-510	Neetu Bhari	Effect of Q-switched Nd-YAG laser on the clinical, pigmentary and immunological markers in patients with lichen planus pigmentosus: A pilot study	460000
10	A-511	Vikender Singh	Effect of nonsurgical periodontal therapy on metallothioneins expression and levels in serum, saliva and gingival crevicular fluid: An interventional study	459500
11	A-512	Ranveer Singh Jadon	Study of leptospira and scrub typhus in patients presenting with acute undifferentiated febrile illnesses	425000
12	A-513	Neeraj Kumar	To elucidate in oxidative stress mediated regulation of turnover and translation regulatory mRNA binding proteins (TTR-RBPs) during embryo development	500000
13	A-514	Mayank Singh	Validation of USP37 (Ubiquitin specific peptidases 37) as a prognostic and diagnostic marker in osteosarcoma	500000
14	A-515	Chandra Prakash Prasad	Role of phosphofructokinase-P (PFKP) in breast cancer	500000
15	A-516	Sachin Kumar	Elucidating the mechanism of regulation of PD-L1 expression in lung cancer—Role of epigenetics and copy number alterations: A pilot study	500000
16	A-517	Manish Jain	High resolution genomic screening using SNP microarray to find out genomic causes in idiopathic Sertoli cell only syndrome (SCOS) cases	500000
17	A-518	Manoj Kumar	Identification of glucose related protein 78 (GRP78) as a biomarker for tumour behaviour in patients of renal cell carcinoma (RCC)	490000
18	A-519	Kanika Sahni	A prospective split face randomized controlled study comparing injection of autologous fat alone versus autologous fat mixed with platelet rich plasma for age-related facial volume deficit especially tear trough deformity; with isolation and characterization of adipose derived stem cell	482000
19	A-520	Shipra Agarwal	Cellular and molecular heterogeneity of normal superior and inferior parathyroid glands at different ages	474000
20	A-521	Surya Kumar Dube	Study of muscle enzyme elevation in neurosurgery and its relevance in postoperative acute kidney injury: A pilot study	257500
21	A-522	David Victor Kumar Irugu	Study and morphometric analysis of temporal bones by micro dissection	185000
22	A-523	Deepak Pandey	To study the effects of dietary flavonoids on prostate epithelial cells growing under the influence of prostate stromal cells	500000
23	A-524	Akanksha	Cardio-respiratory and hormonal responses to oscillatory lower body negative pressure in healthy subjects	460000
24	A-525	Bharat Bhushan	Study of PKC signaling in ovarian serous carcinoma	500000
25	A-526	Kajal Jain	Does the foetal immune response in case of neonatal early onset sepsis begin in utero?	495000

S. No.	Project code	Principal Investigator	Project title	Funds allocated (Rs.)
26	A-527	Manoj Kumar Tembhre	Defining the role of neutrophil extracellular traps (NETs) in immune regulation and inflammation	500000
27	A-528	Atul Batra	Expression of SIRT1 in osteosarcoma	500000
28	A-529	Prashant Pratapsingh Ramteke	Utility of newer immunohistochemistry markers in proper characterization of small B-cell non-Hodgkin's lymphomas	500000
29	A-530	Lalit Kumar	Pre and post-transplant evaluation of natural killer cell subsets and natural killer T cells in multiple myeloma	370000
30	A-531	Vinay Goyal	Repetitive transcranial magnetic stimulation in Parkinson's disease	300000
31	A-532	Aanchal Kakkar	Evaluation of HPV status and its correlation with AKT/mTOR signaling pathway activation in oral and oropharyngeal squamous cell carcinomas	400000
32	A-533	Renu Bhatia	Effect of transcranial magnetic stimulation on pain modulation in trigeminal neuralgia patients	400000
33	A-534	Seema Kaushal	Molecular sub-typing of muscle invasive bladder cancer (MIBC) on the basis of immunohistochemical markers	425000
34	A-535	Archna Singh (I)	Exploring functional implications of altered mitochondrial copy number in pediatric acute lymphoblastic leukaemia	500000
35	A-536	Rakhee Yadav	Endoplasmic reticulum (ER) stress in obesity induced adipose tissue dysfunction and inflammation	300000
36	A-537	Simran Kaur	QEEG based neural correlates of perceptual dominance	325000
37	A-538	Soumita Bagchi	Prevalence and significance of serum galactose deficient IgA1 in Indian patients with IgA nephropathy: A case control study	500000
38	A-539	Shalimar	Effect of H. pylori eradication therapy in patients with NAFLD having H. pylori co-infection: A pilot open label randomized controlled clinical study	500000
39	A-540	Manoj Kumar Sahu	Effect of vitamin D supplementation on postoperative surgical outcomes in children with cyanotic congenital heart disease undergoing open heart surgery: A randomized controlled trial	225000
40	A-541	Smita Das	A study to assess the knowledge and skills of nurse related to BLS & ACLS and evaluate the impact of training programme on real time assessment of resuscitation and its outcome in a tertiary level care facility	370000
41	A-542	Nishkarsh Gupta	Effectiveness of forced air warming and infusion of high dose of amino acid solution on intraoperative hypothermia and coagulation dysfunction in patients undergoing head and neck cancer surgeries: A prospective randomized non-inferiority study	345000
42	A-543	Rakesh Kumar	Effectiveness of brief cessation advice on abstinence from tobacco smoking among patients with tuberculosis and non-communicable diseases (hypertension, diabetes) attending a secondary level hospital, Ballabgarh, Haryana	180000
43	A-544	Geetanjali Bade	Comparison of inflammatory and oxidative stress markers in exhaled breath condensates of smoker COPD and biomass smoke exposed COPD	500000

S. No.	Project code	Principal Investigator	Project title	Funds allocated (Rs.)
44	A-545	Vishnu V Y	Citicoline in acute ischaemic stroke undergoing revascularization therapy (CAISR)	250000
45	A-546	Gagan Hans	H-MR spectroscopy based evaluation of metabolic abnormalities in right dorsolateral prefrontal cortex in patients with obsessive compulsive disorder—A pilot study	90000
46	A-547	Dheeraj Kumar Koli	Evaluation of inflammatory markers metalloproteinase-8 (MMP-8) and cathepsin-k (CTSK) levels in immediate loaded and delayed loaded dental implants: A randomized controlled pilot study	400000
47	A-548	Piyali Mandal	Psycho-social correlates of drug use among attendees of women's clinic of National Drug Dependence Treatment Centre	50000
48	A-549	Biswadip Chatterjee	Comparison of serum corticotrophin releasing factor (CRF) level in detoxified opioid-dependent subjects with healthy controls	200000
49	A-550	Arvind Kumar	To study current practice in the management of bacterial urinary tract infection in patients at AIIMS, New Delhi with focus on current antibiotic usage and clinical outcomes	100000
50	A-551	Manoj Kumar	Identification of lead compounds against a novel drug target shikimate kinase for the development of anti-TB drug to combat multi-drug resistance	400000
51	A-552	Uddipan Das	Structural characterization of sulphate activation complex from Mycobacterium tuberculosis	400000
52	A-553	Thoudam Debraj Singh	To study the role of oestrogen-related receptor gamma (ERRy) as a potential biomarker in thyroid cancer	400000
53	A-554	Anil Kumar Goswami	Prevalence of disability among elderly persons residing in an urban resettlement colony of Delhi	400000
54	A-555	Riyaz Ahmad Mir	Expression and mutational analysis of recently discovered R2TP complex and its bridging proteins in diffuse large B-cell lymphoma (DLBCL)	300000
55	A-556	Amrita Chawla	A prospective study to evaluate the clinical success of a tooth coloured metal free self-curing resin-based material as an alternate to silver amalgam for class-II posterior restoration	221000
56	A-557	Kumar Sandeep	Early and late development of castration resistant prostate cancer and its correlation with androgen receptor ligand binding domain mutations	370000
57	A-558	Aditya Kumar Gupta	Assessing the efficacy of rituximab (anti CD 20 antibody) added to standard chemotherapy versus standard chemotherapy alone in achieving lower minimal residual disease after induction phase of chemotherapy in CD 20 positive children with acute lymphoblastic leukaemia: A pilot study	350000
58	A-559	Prafulla Kumar Maharana	Study of candidate gene mutation in keratoconus in Indian subjects	460000
59	A-560	Harlokesch Narayan Yadav	Formulation and evaluation of lipid based nanoparticle of epalrestat in experimental diabetic neuropathic pain in Wistar rats	300000
60	A-561	Gaurav Sharma	Influence of HLA and KIR genes on Chikungunya infection in north Indian population	400000

S. No.	Project code	Principal Investigator	Project title	Funds allocated (Rs.)
61	A-562	Virendra Kumar	NMR metabolomics of childhood acute lymphoblastic leukaemia and its correlation with progression of disease	350000
62	A-563	Subhradip Karmakar	A candidate gene approach to identify common driver mutations in pancreatic ductal adenocarcinoma (PDAC) in Indian patients	500000
63	A-564	L Gopichandran	A randomized control trial to assess the effectiveness of nurse-led structured telephonic heart failure management programme on selected health related outcome variables at 3 months	200000
64	A-565	Prashant Jauhari	Serum sICAM5 and MMP9/TIMP1 ratio: Potential predictors of disease activity in children with encephalopathy with electrical status in sleep (ESES) syndrome	310000
65	A-566	Debesh Bhoi	Serratus anterior plane block in modified radical mastectomy: A pilot study to compare the efficacy of two different techniques	120000
66	A-567	Gagandeep Singh	To study the prevalence of histoplasmosis in patients with HIV	300000
67	A-568	Deepali Jain	Correlation of immunologic milieu and PD-L1 in non-small cell lung carcinoma	400000
68	A-569	Danveer Bhadu	Role of toll-like receptor 4 in acute gouty arthritis	230000
69	A-570	Raja Pramanik	Expression and significance of Notch signalling-associated proteins, Notch 1, Notch2, Notch 3, Hes1 and p21 in oesophageal squamous cell carcinoma: A retrospective study	493000
70	A-571	Dewang Angmo	Exploring the role of endocannabinoids in primary glaucoma	450000
71	A-572	Megha Brijwal	Detection and genotype distribution of BK polyomavirus in renal transplant recipients	420000
72	A-573	Swati Phuljhele Aalok	A comparative study to evaluate the efficacy of idebenone in comparison with placebo in Leber's hereditary optic neuropathy patients—A pilot study	432000
73	A-574	Mukesh Kumar	Comparative evaluation of nasoenteric feeding and percutaneous radiologic gastrostomy for enteric support in patients with moderate and severe dysphagia due to neoplasms of oropharynx or oesophagus: A randomized controlled trial	500000
74	A-575	Ritesh Kumar	Prospective assessment of radiation induced lung injury (RILI) in breast cancer patients undergoing adjuvant post-operative three dimensional conformal radiotherapy (3DCRT)	200000
75	A-576	Roopa Rajan	Botulinum toxin injection for treatment of dystonic hand tremor: A randomised placebo-controlled, parallel group trial	490000
76	A-577	Ethayathulla A S	Biophysical and structural characterization of curcumin as a potential ligand to restore p53 Y220 mutant function in human cancer	490000
77	A-578	Saroj Kumar	Characterization of fibroblasts to understand the possible role in breast cancer progression by FTIR imaging	450000

S. No.	Project code	Principal Investigator	Project title	Funds allocated (Rs.)
78	A-579	S D Sunder Singh Samuel	Evaluation of the frequency of polymorphisms affecting lead and mercury toxicity among children with cerebral palsy	245000
79	A-580	Ranjan Gupta	Endogenous TLR4 ligands MRP8/14 and Tenascin-C as biomarkers of lupus nephritis disease activity: Cross sectional and longitudinal assessment	400000
80	A-581	Deepa Dash	Association of host leukotriene A4 hydrolase gene polymorphism with the clinical outcome of patients with tubercular meningitis	490000
81	A-582	Roshan Bhad	Comparative assessment of stress and coping among adolescents with recent inhalant abuse: A case-control study	350000
82	A-583	Yatan Pal Singh Balhara	An exploratory case-control study to assess the protective genetic factors against alcoholic liver disease among population from northern part of India	500000
83	A-584	Rajesh Kumar Meena	Quantitative analysis of the variants of the far lateral approaches in Neurosurgery—A cadaveric study	475000
84	A-585	Amol Raheja	Microsurgical comparison of operative exposure of internal acoustic canal through middle fossa and retrosigmoid hearing preservation skull base approaches—A laboratory investigation	500000
85	A-586	Saurabh Kedia	Efficacy of enriched fecal microbiota transplantation in patients with treatment naive ulcerative colitis: A randomized controlled trial	485000
86	A-587	Sujata Satapathy	Feasibility and efficacy testing of newly developed of non-computer based cognitive training intervention kit for 6–11-year-old children with ADHD	360000
87	A-588	Uma Kanga	Killer immunoglobulin receptor-human leukocyte antigen (KIR-HLA) interactions: Significance in haematopoietic stem cell transplantation	400000
88	A-589	M Jeeva Sankar	Comparative genomic analysis of Klebsiella spp. isolated from hospitalized neonates and immediate hospital environment	500000
89	A-590	Hariprasad. G	Proteomics of axillary sentinel lymph node tissues in early breast cancer: Implications for identification of biomarker to guide surgical intervention	490000
90	A-591	Ritesh Kumar Netam	Effect of hypothalamic inflammation on glucose sensing neurons in arcuate in high fat diet induced obesity rat model	500000
91	A-592	Dr. Shorya Vardhan Azad	To study variable gene expression of collagen and associated degradative enzymes present in human vitreous in patients with myopia vs. normal population	250000

The total amount sanctioned for intramural research projects for 2017-18 was Rs 3,54,24,000 (Rs Three crore fifty-four lakhs twenty-four thousand only). A total of **173** intramural projects are currently running.

EXTRAMURAL RESEARCH PROJECTS

During 2017–18, the Research Section received extramural research support of Rs. 116 crores from various national and international agencies. A total of **710** extramural projects were ongoing. The grants from different funding agencies were as follows

S. No.	Funding agency	Number of projects	Amount (Rs. in crores)
1.	DBT	117	20 crore
2.	DST	158	16 crore
3.	ICMR	162	29 crore
4.	International agencies	71	23 crore
5.	Other agencies	184	27 crore
6.	Centre of Excellence projects	7	Not applicable
7.	Clinical trials	11	Data not available

AIIMS ENDOWMENT FUND

Infosys chair

Dr Dean Brenner, University of Michigan, USA, was the Infosys Chair at the Dr BR Ambedkar Institute Rotary Cancer Hospital, AIIMS.

Projects granted

The following faculty members have been sanctioned a project each:

1. Ritu Gupta, Additional Professor, Department of Laboratory Oncology, Dr BR Ambedkar Institute Rotary Cancer Hospital, AIIMS.
2. Anita Chopra, Assistant Professor, Department of Laboratory Oncology, Dr BR Ambedkar Institute Rotary Cancer Hospital, AIIMS.

Travel scholarship

Twenty students (PhD students, Junior Residents and Senior Residents) have been awarded travel scholarship.

OTHER ACTIVITIES

The following activities have been initiated for the benefit of the faculty/scientists.

1. Clinical investigator development program: Being a Principal Investigator
2. Courses on research methodology for postgraduates

9.1. Anaesthesiology, Pain Medicine and Critical Care

Professor and Head		
M.K. Arora (up to 31 October 2017)	Ravinder Kumar Batra (from 1 November 2017)	
Professors		
Rajeshwari Subramaniam	Anjan Trikha	Maya Dehran
Dilip R Shende (Dr RP Centre)	Lokesh Kashyap	Ganga Prasad
Virender Kumar Mohan	Vimi Rewari	Vanlal Darlong
Renu Sinha (Dr RP Centre)	Jyotsana Punj	Babita Gupta (JPNA Trauma Centre)
Ravindra Kumar Pandey	Anjolie Chhabra	Chhavi Shawney (JPNA Trauma Centre)
Rashmi Ramachandran		
Associate Professors		
Dalim Kumar Baidya (CDER)	Devalina Goswami (CDER)	
Assistant Professors		
Preet Mohinder Singh	Puneet Khanna	Bikash Ranjan Ray
Rahul Kumar Anand	Praveen Talawar	Debesh Bhoi
Shailendra Kumar (IVF)	Manpreet Kaur	Anuradha Borle
Souvik Maitra	Thilaka Muthiah	Akhil Kant Singh
Kanil Ranjith Kumar (Dr RP Centre)	Rakesh Kumar	Kulbushan Saini
Nishant Patel	Arshad Ayub (Dr RP Centre)	Yudhayvir Singh (JPNA Trauma Centre; Contract)

HIGHLIGHTS

Dr Ravinder Kumar Batra took over as the Head of the Department of Anaesthesiology, Pain Medicine and Critical Care on 1 November 2017. The faculty members are doing clinical work, teaching and research with zest, interest and enthusiasm. The department was able to complete **30** research projects (non-funded) and **93** non-funded projects are continuing. **One** new funded project is initiated with financial support from AIIMS in addition to **three** previous ongoing funded project. During the year department continued to work on **6** interdepartmental research projects and completed **3** such projects. Department organized **4** conferences/workshops/CME involving multiple internationally well-known speakers/academicians. Many of the departmental faculty received recognition/awards at national level from various government agencies for their contribution towards Anaesthesia, Pain Medicine and Critical Care.

Faculty members delivered more than **150** talks on challenging topics at various national and international platforms. The department published **80** papers in well-reputed national and international journals. In addition, many faculty members were elected/reappointed into the editorial boards of various reputed national/international journals. The present year marked the path of progress in all fields of anaesthesia keeping in mind high standards targeted by our institute.

Our department has collaborated with Department of Anesthesiology, Washington University in St. Louis, USA for an exchange program. Professor Anshuman Sharma and one trainee came to our department and worked as observers in the operation theatres and took part in the teaching program.

EDUCATION

Department of Anaesthesiology, Pain Medicine and Critical Care, during this year pursued actively in teaching of DM (Critical Care), Postgraduate students (MD Anaesthesiology), MBBS students and nursing both MSc and BSc. A refresher course in the form of workshop for ORA/OTA was also started. The one-year fellowship in Pain Medicine is being approved for the July 2018 academic session.

Classes/teaching sessions	
Classes for:	Number of Classes
1	DM Critical Care
	Seminars
	Case presentations
	Journal Club
	End Semester Exam
	Every 6 monthly

2	MBBS students (6th semester)	16
3	Post Graduate Teaching Program	
	Seminars	30
	Case Presentations	30
	Journal Club	29
	Tutorial	29
	End Semester Exam (Practical+theory)	Every 6 monthly
	Simulator Sessions	12
	Classes for New Junior Residents	14
	Nursing Students (MSc and BSc)	22

In addition, the department focused on—teaching inside the operating room that also included imparting practical skills to MBBS students, Interns, PG students, operating room technicians and nursing students (both MSc and BSc).

CMEs/Workshops/Symposia/National and International Conferences

The Department organized the following events during the year

1. Dr Ravinder Kumar Batra organized CME AIIMS-NBE Anaesthesia Clinical Tutorial-ANACT 2017 for DNB students at NBE Office, New Delhi on 14 and 15 April 2017
2. 5th AIIMS Ultrasound Guided Regional Anaesthesia (AURA) Workshop: 15 and 16 January 2018
3. 6th workshop for OT technician on infection control in operation theatre on 29 July 2017
4. 7th workshop for OT technicians in 24 February 2018
5. ISA Delhi Branch Monthly Meet: 20 March 2018

Lectures delivered

Ravinder Kumar Batra

1. Recent advances in paediatric anaesthesia, ISA-PG—Assembly 2017 Department of Anaesthesiology and Critical Care, UCMS and GTB Hospital, 21 August 2017, GB Pant Hospital, New Delhi
2. Tracheostomy—a short case, ISA-PG—Assembly 2017 Department of Anaesthesiology and Critical Care, UCMS and GTB Hospital, 21 August 2017, GB Pant Hospital, New Delhi
3. Obstructive jaundice, ANACT-2017, 14 April 2017, NBE Office, Dwarka, New Delhi
4. Cleft-lip and palatte, ANACT-2017, 14 April 2017, NBE Office, Dwarka, New Delhi
5. Tracheostomy, ANACT-2017, 14 April 2017, NBE Office, Dwarka, New Delhi

Rajeshwari Subramaniam

1. The Anaesthesiologist's role in environmental stewardship, 56th ISACON Delhi, 8 April 2017, Gurgaon, Haryana
2. Endocrine emergencies, South Zone ISACON Puducherry. Keynote address, 24 September 2017, Puducherry
3. Panel discussion: Post partum hemorrhage, AOA Hyderabad, 1 October 2017, Hyderabad
4. The EXIT procedure, AOA Hyderabad, 2 October 2017, Hyderabad
5. Anesthetic concerns in children with liver disease, Annual ISACON Kolkata, 25 November 2017, Kolkata
6. Moving away from the Jackson Rees Circuit, IAPA Hyderabad, 11 February 2018, Hyderabad
7. Hypoxic pulmonary vasoconstriction, RACE, 17 February 2018, Chennai

Anjan Trikha

1. Post traumatic stress disorders after pregnancy, CME on Obstetric Anaesthesia, 14 May 2017, Bengaluru
2. The art and science of treating celebrities, Ganga Anaesthesia Refresher Course, 23 June 2017, Ganga Medical Centre and Hospital, Coimbatore, Tamil Nadu
3. Mandibular distraction in children with severe obstructive sleep apnea, 8th Annual Conference and Workshop of All India Difficult Airway Association-National Airway Conference (NAC-2017), 8 September 2017, New Delhi
4. Sepsis Guidelines 2017; What's new? CME on the occasion of World Sepsis Day organized by Lucknow Critical Care Society-ISCCM, 16 September 2017, Gomti Nagar, Lucknow
5. Presentation on adverse events disclosure in obstetric anaesthesia; what and what not to tell? 10th National Conference AOA (AOACON-2017), 30 September-2 October 2017, Bengaluru

6. Consumer Protection Act and Anaesthesiologist, 10th National Conference AOA (AOACON-2017), 30 September-2 October 2017, Bengaluru
7. Importance of Pre-anaesthesia check up and post operative pain relief, Public Awareness Program under Haryana Swarna Jayanti Utsav, 23 October 2017, Pt B D Sharma PGIMS, Rohtak
8. Simulation in military medicine, 42nd ICMM World Congress on Military Medicine Secretariat, 22 November 2017, Vigyan Bhavan, New Delhi
9. Anaesthetic management of COPD patient for laparotomy, Ramachandra Anaesthesia Continuing Education RACE-2018, 15 February 2018, Sri Ramachandra University, Chennai
10. Toxic multinodular goitre for thyroidectomy, Ramachandra Anaesthesia Continuing Education RACE-2018, 15 February 2018, Sri Ramachandra University, Chennai
11. Anticoagulation and bridging therapy in Obstetric Critical Care Unit, Varanasi Obstetric Critical Care Course CME and Workshop CRITICARE-2018, 10 March 2018, Varanasi
12. BLS-ACLS, resuscitative Hysterotomy in parturient, Varanasi Obstetric Critical Care Course CME and Workshop CRITICARE-2018, 11 March 2018, Varanasi
13. Setting up HDUs/ICU—Help reducing MMR in India, Varanasi Obstetric Critical Care Course CME and Workshop CRITICARE-2018, 11 March 2018, Varanasi
14. Sedation, analgesia and paralysis during mechanical ventilation, AIIMS Plutocrat 2018, 29 March 2018, AIIMS, New Delhi
15. Non invasive ventilation, AIIMS Pulmo-crit 2018, 30 March 2018, AIIMS, New Delhi

Maya Dehran

1. Cardiopulmonary Resuscitation 2015 Guidelines, Maharaj Sawan Singh Charitable Hospital, 8 July 2017, Beas, Punjab
2. Cardiopulmonary Resuscitation 2015 Guidelines, Bhota Charitable Hospital, 9 July 2017, Distt Hamirpur, HP

Dilip Shende

1. Management of CAD patients; Pacemakers and ICD care during eye surgery, 4th Ophthalmic Forum of the India Society of Anesthesiologists Conference, 2-3 September 2017, LV Prasad Eye Institute, Hyderabad, Telangana
2. How I do it-Pain relief following TKR, 6th International Conference on Pain Management, The Society for Ultrasound in Anaesthesia and Goa Pain Clinic, 6-10 September 2017, Goa
3. Coordinator and faculty for workshop on Ultra Sound Guided (USG) blocks, 31st Madhya Pradesh Chapter of ISACON Workshop (ISA CON MP-2017), 30 September-2 October 2017, Chirayu Medical College and Hospital, Bhopal, Madhya Pradesh
4. Ultra sound guided central venous cannulations, 31st Madhya Pradesh Chapter of ISACON Workshop (ISA CON MP-2017), 30 September-2 October 2017, Chirayu Medical College and Hospital, Bhopal, Madhya Pradesh
5. Ultra sound guided lower extremity blocks, 31st Madhya Pradesh Chapter of ISACON Workshop (ISA CON MP-2017), 30 September-2 October 2017, Chirayu Medical College and Hospital, Bhopal, Madhya Pradesh
6. Ultra sound guided abdominal truncal blocks, 31st Madhya Pradesh Chapter of ISACON Workshop (ISA CON MP-2017), 30 September-2 October 2017, Chirayu Medical College and Hospital, Bhopal, Madhya Pradesh
7. Role of Target Controlled Infusion (TCI) in pediatric anaesthesia, Indian Association of Paediatric Anaesthesiologists 2018 (IAPA 2018), 10-11 February 2018, Hyderabad, Telangana
8. Pain relief after total knee replacement, 8th South Asian Regional Societies (SARPS) Congress-2018, 24-25 February 2018, Dhaka, Bangladesh
9. Anaesthesia for retinopathy of prematurity, Indian Association of Paediatric Anaesthesiologists 2018 (IAPA 2018), 10-11 February 2018, Hyderabad, Telangana

Lokesh Kashyap

1. Approach to a case of morbidly obese patient for laparoscopic surgery, 6th SGPGI Postgraduate Anaesthesiology Refresher Course, 23-25 February 2018, Lucknow, UP
2. Anaesthesia and analgesia in Thoracic Surgery—Challenges and solutions, AIIMS Symposium on Thoracic Surgery, 19-21 January 2018, AIIMS, New Delhi
3. Anesthetic challenges: Bariatric Surgery, BARIME 2017—1st National Post Graduate CME on Bariatric Surgery Scientific Program, 2 December 2017, AIIMS, New Delhi
4. Sedation and analgesia before endoscopy in liver disease, current perspectives in liver disease: CPLD 2017, Interventions in Hepatology, 7-8 October 2017, AIIMS, New Delhi

Virender Kumar Mohan

1. Fluoroscopic guided transforaminal epidural steroid injection, 2nd Cadaveric Interventions Pain Management Course, 28 July 2017, JPNATC, All India Institute of Medical Sciences, New Delhi
2. Percutaneous Microballoon compression in Trigeminal Neuralgia, International Conference on Recent Advances in Pain Management, 10-13 August 2017, Pune
3. Current evidence of intradiscal interventions in chronic back pain, International Conference on Pain Management, 6-10 September 2017, Goa
4. Basic and knobology of ultrasound, Indian Society for Anaesthesiologist-MP Conference, 30 September-2 October 2017, Chirayu Medical College, Bhopal
5. Ultrasound guided brachial plexus block, Indian Society for Anaesthesiologist-MP Conference, 30 September-2 October 2017, Chirayu Medical College, Bhopal
6. Ultrasound guided truncal interfascial plane blocks, Indian Society for Anaesthesiologist-MP Conference, 30 September-2 October 2017, Chirayu Medical College, Bhopal
7. Postsurgical chronic pain-The solution, 3rd Annual National Conference of Indian Society of Pain Clinicians, 10-12 November 2017, MGM Institute of Medical Sciences, Navi Mumbai
8. Basics and knobology of ultrasound, CME cum Orientation Course on Pain Management, 24-24 December 2017, Heritage Institute of Medical Sciences, Varanasi
9. Ultrasound guided pain interventions, CME cum Orientation Course on Pain Management, 24-24 December 2017, Heritage Institute of Medical Sciences, Varanasi
10. Ultrasound guided thoracic paravertebral block, 5th AIIMS Regional Anaesthesia (AURA) Workshop, 15-16 January 2018, JPNATC, All India Institute of Medical Sciences, New Delhi

Vimi Rewari

1. Transfusion trigger during transplantation- How realistic is restrictive! TRANCRIT 2017, 14 May 2017, Institute of Liver and Biliary Sciences, Delhi
2. Awareness during anaesthesia: Where are we? 9th Central Zone and 39th UP State Annual Conference of Indian society of Anaesthesiologists, 3 September 2017, Scientific Convention Centre, KGMU, Lucknow
3. H1N1 in pregnancy-Steering towards a safe motherhood, 10th National Conference of the AOA (AOA-2017), 2 October 2017, Devanahalli Road, Bengaluru
4. Medical publishing: Don't dump don't perish, 65th Annual Conference of Indian Society of Anaesthesiologists (ISACON 2017), 29 November 2017, Biswa Bangla Convention Center, Newtown, Rajarhat, Kolkata
5. TAP block and rectus sheath block, AIIMS Ultrasound Guided Regional Anaesthesia (AURA) Workshop, 15 January 2018, JPNA Trauma Center, AIIMS, New Delhi
6. Conducted Simulation Workshop on Airway, 8th Annual Conference of All India Difficult Airway Association (NAC-2017), 8-10 September 2017, VMMC and Safdarjung Hospital, New Delhi

Renu Sinha

1. Ophthalmic consideration in paediatric populations, 14th Asian Society of Paediatric Anaesthesiologists ASPA 2017, 4 June 2017, Mumbai
2. The silence of retinopathy of prematurity, 4th OFISACON 2017, 2 September 2017, LV Prasad Eye Institute, Hyderabad
3. How I do it: TAP block, 6th International Conference on Pain Management, 6 September 2017, Goa
4. Ultrasound: Basic principle and knobology, 27th Annual Conference Research Society of Anaesthesiology and Clinical Pharmacology 2017, 14 September 2017, Kanpur
5. Upper limb block: Surface and sonoanatomy, 27th Annual Conference Research Society of Anaesthesiology and Clinical Pharmacology 2017, 15 September 2017, Kanpur
6. Alternative methods of intubation, 27th ISACON East Zone 2017 and 30th ISACON Bihar-Jharkhand 2017, 15 October 2017, Tata Motors Hospital, Jamshedpur
7. Anaesthesia for pediatric ophthalmic surgery, 65th ISACON 2017, 27 November 2017, Biswa Bangla Convention Centre, New Town, Rajarhat, Kolkata

Jyotsana Punj

1. Master class-lecture/demonstration upper limb block, 6th International Conference on Pain Management (ICPM 2017), 6 September 2017, Goa

2. Ultrasound guided stellate guided nerve block, 8th Congress on Pain (SARPS-2018), 24 February 2018, Dhaka, Bangladesh
3. Introduction of course, basics of ultrasound, lectures and video demonstrations on TAP block/ultrasound airway/stellate ganglion lectures and video demonstrations on stellate ganglion nerve block/TAP block, Annual Academic Pain Sessions of College of Anesthesiologists and Intensivists of Sri Lanka, 9-10 November 2017, Lady Ridgeway Hospital for Children, Colombo, Sri Lanka
4. Basic airway management “Basics and Beyond”, CME and Workshop on Difficult Airway Management, 30 October 2017, Tomo Riba Institute of Health and Medical Sciences (TRIHMS), Naharlagun and ISA State Branch of Arunachal Pradesh, Itanagar, Arunachal Pradesh
5. USG guided peripheral nerve blocks for abdominal blocks/upper limb surgery, CME cum Workshop on Ultrasound Guided Nerve Blocks, 28-29 October 2017, Tomo Riba Institute of Health and Medical Sciences (TRIHMS), Naharlagun, Itanagar, Arunachal Pradesh
6. Lecture and hands on demonstration pediatric cardiopulmonary resuscitation, CME cum Workshop on Basic Life Support, 31 October 2017, Tomo Riba Institute of Health and Medical Sciences (TRIHMS), Naharlagun, Itanagar, Arunachal Pradesh
7. Hands on workshop on US guided nerve blocks, Upper extremity, Lower extremity, Truncal blocks, 1st Workshop on Application of Ultrasound on Regional Anaesthesia, 28-29 October 2017, Tomo Riba Institute of Health and Medical Sciences (TRIHMS), Naharlagun, Itanagar, Arunachal Pradesh
8. Difficult airway management workshop, 1st Workshop on Difficult Airway Management and CPR (Basic Life Support), 30-31 October 2017, Tomo Riba Institute of Health and Medical Sciences (TRIHMS), Naharlagun, Itanagar, Arunachal Pradesh
9. Ultrasound guided hands on workshop on peripheral nerve blocks, International Conference on Pain Management (6th ICPM), 6-10 September 2017, SGPGIMS and Society for Ultrasound in Anaesthesia and Goa Pain Clinic, Goa
10. Ultrasound guided hands on workshop on peripheral nerve blocks, Annual Academic Sessions, 9-10 November 2017, Faculty of Pain Medicine, College of Anaesthesiologists and Intensivists of Sri Lanka, Colombo, Sri Lanka

Babita Gupta

1. Workshop director -Ultrasound guided regional anesthesia workshop, AIIMS Ultrasound Guided Regional Anesthesia, 17-18 January 2018, JPNATC, AIIMS, New Delhi
2. Utility of ultrasound in anesthesia, Post Graduate Assembly, 28 August 2017, GTB Hospital, New Delhi
3. Damage control resuscitation, Indian Society of Anaesthesiologists-Mumbai, 15 October 2017, Sahara Star, Mumbai

Ravindra Kumar Pandey

1. Master class–lecture/demonstration lower limb nerve blocks, 6th International Conference on Pain Management (ICPM 2017), 6 September 2017, Goa
2. Pediatric pain: Assessment and Management, 8th Congress on Pain (SARPS-2018), 24 February 2018, Dhaka, Bangladesh
3. Introduction of course, basics of ultrasound, lectures and video demonstrations on paravertebral, PEC I and II, SAP block, lectures and video demonstrations on femoral, obturator and adductor canal block, Annual Academic Pain Sessions of College of Anesthesiologists and Intensivists of Sri Lanka, 9-10 November 2017, Lady Ridgeway Hospital for Children, Colombo, Sri Lanka
4. Anesthetic management with supraglottic airway devices and video-laryngoscopy “Basics and Beyond”, CME and Workshop on Difficult Airway Management, 30 October 2017, Tomo Riba Institute of Health and Medical Sciences (TRIHMS), Naharlagun and ISA State Branch of Arunachal Pradesh, Itanagar, Arunachal Pradesh
5. USG guided peripheral nerve blocks for lower limb surgery, CME cum Workshop on Ultrasound Guided Nerve Blocks, 28 and 29 October 2017, Tomo Riba Institute of Health and Medical Sciences (TRIHMS), Naharlagun, Itanagar, Arunachal Pradesh
6. Hands on demonstration cardiopulmonary resuscitation, CME cum Workshop on Basic Life Support, 31 October 2017, Tomo Riba Institute of Health and Medical Sciences (TRIHMS), Naharlagun, Itanagar, Arunachal Pradesh
7. Hands on workshop on US guided nerve blocks, Upper extremity, Lower extremity, Truncal blocks, 1st Workshop on Application of Ultrasound on Regional Anaesthesia, 28-29 October 2017, Tomo Riba Institute of Health and Medical Sciences (TRIHMS), Naharlagun, Itanagar, Arunachal Pradesh
8. Difficult airway management workshop, 1st Workshop on Difficult Airway Management and CPR (Basic Life Support), 30-31 October 2017, Tomo Riba Institute of Health and Medical Sciences (TRIHMS), Naharlagun, Itanagar, Arunachal Pradesh

9. Ultrasound guided hands on workshop on peripheral nerve blocks, International Conference on Pain Management (6th ICPM), 6-10 September 2017, SGPGIMS and Society for Ultrasound in Anaesthesia and Goa Pain Clinic, Goa
10. Ultrasound guided hands on workshop on peripheral nerve blocks, Annual Academic Sessions, 9-10 November 2017, Faculty of Pain Medicine, College of Anaesthesiologists and Intensivists of Sri Lanka, Colombo, Sri Lanka

Anjolie Chhabra

1. Portable ultrasound: What every anaesthetist must know, 7th National Conference of Academy of Regional Anaesthesia, 8 September 2017, Brilliant Convention Centre, Indore
2. Anaesthesia and IOP, 65th Annual National Conference of Indian Society of Anaesthesiologists, 27 November 2017, Biswa Bangla Convention Center, Kolkata
3. Thoracic paravertebral block—Current update, Cadaveric-Advanced Ultrasound Guided Regional Anaesthesia Course, 28 February 2018, JPNATC, AIIMS, New Delhi
4. Workshop, Interventional Perioperative Sonography, 26 August 2017, Max Superspeciality Hospital, New Delhi
5. Workshop, 7th National Conference of Academy of Regional Anaesthesia of India, 10 September 2017, Indore
6. Workshop, 33rd Annual National Conference of Indian Society for Study of Pain, 1 February 2018, Medanta Hospital, Gurgaon
7. Workshop, Cadaveric-Advanced Ultrasound Guided Regional Anaesthesia Course, 1 March 2018, JPNATC, AIIMS, New Delhi
8. Workshop faculty: US guided regional anaesthesia, 14th ISACONCG 2017, 7 October 2017, AIIMS, Raipur, Chattisgarh

Chhavi Shawney

1. Donor screening and management, In House Training of Nurses on Deceased Organs and Tissue Donation, Once a Month, AIIMS, New Delhi
2. Participated in workshop on ultrasound guided regional anaesthesia, Annual Academic Sessions and Precongress Workshops of Faculty of Medicine of College of Anaesthesiologists and Intensivists, 9-11 November 2017, College of Anaesthesiologists and Intensivists, Colombo, Sri Lanka
3. To study the reduction in intra- and post-operative analgesia requirement and quality of recovery after pre-emptive intrathecal morphine in patients with pelvic acetabular injuries undergoing stabilization, 71st Post Graduate Assembly in Anaesthesiology, 8-12 December 2017, New York

Rashmi Ramachandran

1. Anaesthesia for ophthalmic procedures, CME in Paediatric Anaesthesia-The Newborn and the Neonates, 24 March 2018, Lady Hardinge Medical College, Delhi
2. Approach to headache in post LSCS patient, 9th Central Zone and 39th UP State Annual Conference of Indian Society of Anaesthesiologists, 2 September 2017, KGMU, Lucknow
3. ROBOTICS: Sci-fi to healthcare, 56th Annual Conference of the Indian Society of Anaesthesiologists (Delhi State Chapter), 8 April 2017, SCOPE Convention Centre, CGO Complex, Lodhi Road, Delhi
4. 5th AIIMS Ultrasound Guided Regional Anaesthesia (AURA), 15 January 2018, JPNATC, AIIMS, New Delhi
5. 8th Annual Conference of All India Difficult Airway Association-National Airway Conference (NAC) 2017, 8-10 September 2017, New Delhi
6. 9th Central Zone and 39th UP State Annual Conference of Indian Society of Anaesthesiologists, 1-3 September 2017, King George's Medical University, Lucknow
7. 56th Annual Conference of the Indian Society of Anaesthesiologists (Delhi State Chapter, 8 and 9 April 2017, SCOPE Convention Centre, CGO Complex, Lodhi Road, Delhi

Dalim Kumar Baidya

1. Depth of anesthesia monitoring, ISACON Puducherry, 23-24 September 2017, JIPMER, Puducherry
2. Airway management, AIIMS Neurological Life Support Course (ANLS), 8-9 October 2017, JPNATC, AIIMS, New Delhi
3. Current fasting guidelines are outdated: CON, ISACON East Zone 2017, 13-15 October 2017, SNTI, Jamshedpur, Jharkhand
4. Basic and advanced modes of mechanical ventilation, ISACON East Zone 2017, 13-15 October 2017, SNTI, Jamshedpur, Jharkhand

5. Panel discussion on ACLS, ACCORDION 2017, 12 November 2017, India Habitat Centre, New Delhi
6. Preoperative CT scan for Thoracic Surgery in imaging for Anesthesiologist, ISACON 2017, 25 November 2017, Biswa Bangla Convention Centre, Kolkata
7. Sepsis management: Panel discussion, ISACON 2017, 29 November 2017, Biswa Bangla Convention Centre, Kolkata

Devalina Goswami

1. Anaesthesia in laparoscopy, 50th AMASI Skills Course, 22 September 2017, PGIMER, Dr RML Hospital, New Delhi
2. Anaesthesia for laparoscopy, AMASICON 2017, 26 October 2017, Le Meridien, Kochi, Kerala
3. USG blocks of the upper limb, ISSPCON 2017, 10 November 2017, MGM Medical College and Hospital, Navi Mumbai
4. Upper limb blocks-hands on, 5th AURA Workshop, AIIMS, 15 January 2018, JPNATC, AIIMS, New Delhi
5. Airway management in maxillofacial surgery, ISACON, 20 January 2018, Tezpur Medical College and Hospital, Tezpur, Assam
6. Panel discussion on high risk obstetric cases, ISACON, 20 January 2018, Tezpur Medical College and Hospital, Tezpur, Assam

Preet Mohinder Singh

1. Workshop on cardiopulmonary resuscitation, Annual meeting of Indian Association of Obstetric Anesthesiologists, 1 October 2017, Clarks Exotica, Bengaluru
2. Workshop on low flow anesthesia, Trauma Critical Care Update, 16 December 2017, Dayanand Medical College and Hospital, Ludhiana
3. Ethical debate-Medical errors-To fess or clam anaesthesia, Trauma Critical Care Update, 16 December 2017, Dayanand Medical College and Hospital, Ludhiana
4. Panel discussion-Hemodynamic monitoring, ISACON-64th Annual National Conference of ISA, 27 November 2016, DMC, Ludhiana
5. Workshop on upper limb blocks, Annual National Conference of Indian Society for Study of Pain (ISSPCON 2018), 1 February 2018, Medanta Medcity, Gurgaon

Puneet Khanna

1. USG of the airway (workshop), RSACP-2017, 14-15 September 2017, Kanpur
2. USG for vascular cannulation (workshop), RSACP-2017, 14-15 September 2017, Kanpur
3. Pediatric OSA, IAPA-CME in Paediatric Anaesthesia, 13 August 2017, Chandigarh
4. HBA1C in a diabetic patient is important in perioperative management, ISACON East Zone 2017, 13-15 October 2017, TMH, Jamshedpur
5. ERAS interesting cases, SAM-2017, 15 December 2017, Meerut
6. MS in pregnancy, 6TH SGPGI Postgraduate Anaesthesiology Refresher Course, 23-25 February 2018, Lucknow

Bikash Ranjan Ray

1. Chronic renal failure and bronchial asthma, ANACT-2017, 15 April 2017, NBE Office, Dwaraka, New Delhi
2. RUSH protocol (AAA) and musculoskeletal and soft tissue ultrasound, EM-SONO Course, 3 and 4 August 2017, JPNTC, AIIMS, New Delhi
3. Airway ultrasound (lecture and workshop), 8th National Annual Conference of All India Difficult Airway Association, 8 September 2017, AIIMS, New Delhi
4. Lung ultrasound and airway, lung workstation, AUTLS Course during CEUTEH-2017, 9 September 2017, JPNTC, AIIMS, New Delhi
5. Lecture and workshop on ultrasound in the hands of Anaesthesiologists (Lung US, ECHO, Nerve blocks), RSACPCON-2017, 14-16 September 2017, Kanpur Medical College, Kanpur, UP
6. Workshop on ultrasound guided nerve blocks and lecture on a pro-con debate, ISACON East Zone -2017, 13-15 October 2017, TMH, Jamshedpur, Jharkhand
7. RUSH protocol (AAA), EM-SONO Course, 18 December 2017, JPNTC, AIIMS, New Delhi
8. Ultrasound guided caudal and cadaveric workstation, AIIMS Ultrasound Guided Regional Anesthesia (AURA) Workshop, 15 January 2018, JPNTC AIIMS, New Delhi

9. HAI's and infection control workshop on surveillance and software use, HAI's and Infection Control Workshop, 22-23 January 2018, JPNTC, AIIMS, New Delhi
10. FAST (lecture and workstation), EM SONO Course, 30 January 2018, JPNTC, AIIMS, New Delhi
11. Workshop on ultrasound guided regional anaesthesia, 33rd Annual National Conference of Indian Society of Pain, 1 February 2018, Medanta Hospital, Gurgaon, Haryana
12. Anesthetic management of tonsillectomy, 6th SGPGI PG Refresher Course, 24-25 February 2018, SGPGI, Lucknow, UP
13. Workshop on cadaveric advanced ultrasound guided regional anesthesia, C- AURA 2018, 28 February and 1 March 2018, JPNTC, AIIMS, New Delhi
14. RUSH protocol (lecture and workstation), EM SONO Course, 13 March 2018, JPNTC, AIIMS, New Delhi

Rahul Kumar Anand

1. Role of ONSD in critically ill patients, RSACPCON, Kanpur
2. Role of ultrasound in neurocritical care, ISACON 2018, 26 November 2017, Kolkata
3. Airway management in critically ill patients, ISCCM 2018, 11 March 2018, Varanasi,
4. Ventilatory management in metabolic acidosis patients, Update in Nursing Care, 8 March 2018, AIIMS, New Delhi

Praveen Talawar

1. Pregnancy and cardiac diseases: Perioperative concerns, ANACT-2017, 15 April 2017, NBE Office, Dwaraka, New Delhi
2. Hypertension: Perioperative concerns, ANACT-2017, 15 April 2017, NBE Office, Dwaraka, New Delhi
3. Anaesthesia for MLS workshop on surgical airway, ISACON Puducherry, 23-24 September 2017, JIPMER, Puducherry
4. Perioperative fluid therapy: Panel discussion, ISACON East Zone-2017, 13-15 October 2017, TMH, Jamshedpur, Jharkhand
5. Workshop on ultrasound guided nerve blocks, ISACON East Zone-2017, 13-15 October 2017, TMH, Jamshedpur, Jharkhand
6. Donor screening and maintenance, In Service Training of Nurses on Deceased Organ and Tissue Donation, 23 January 2018, CMET, AIIMS, New Delhi
7. Workshop on ultrasound guided regional anaesthesia on cadavers, AIIMS Ultrasound Guided Regional Anesthesia (AURA) Workshop, 15 January 2018, JPNTC, AIIMS, New Delhi
8. Workshop faculty: Fluoroscopic guided chronic pain interventions on cadavers, 33rd Annual National Conference of Indian Society of Pain, 1 February 2018, JPNTC, AIIMS, New Delhi

Debesh Bhoi

1. Workshop faculty for USG guided regional anaesthesia, 27th ISACON-East Zone and 30th ISACON Bihar-Jharkhand 2017, 13-15 October 2017, Tata Main Hospital, Jamshedpur, Jharkhand
2. Anaesthesia for robotic surgery, 27th ISACON-East Zone and 30th ISACON Bihar-Jharkhand 2017, 13-15 October 2017, Tata Main Hospital, Jamshedpur, Jharkhand
3. Workshop faculty for AIIMS Ultrasound Guided Regional Anaesthesia (AURA), AURA 2018, 15-16 January 2018, JPNTC, AIIMS, New Delhi
4. Workshop faculty for ultrasound guided blocks for acute pain management, 64th ISSPCON 2018, 1 February 2018, Medanta-The Medcity, Gurgaon, Haryana

Shailendra Kumar

1. Workshop faculty, 6th ICPM, 6-10 September 2017, Goa
2. Workshop faculty: Ultrasound guided nerve blocks, 27th ISACON East Zone 2017 and 30th ISACON Bihar-Jharkhand 2017, 13-15 October 2017, Tata Main Hospital, Jamshedpur, Jharkhand

Manpreet Kaur

1. Ultrasound in trauma- FAST protocol, Conducted Workshop: Ultrasound in Trauma: FAST and Beyond, Trauma Critical Care Update, 16-17 December 2017, DMCH, Ludhiana
2. Quadratus lumborum block workstation, 5th AIIMS Ultrasound Guided Regional Anaesthesia Workshop, 16 January 2018, JPNA Trauma Centre, AIIMS, New Delhi

3. Anaesthetic management of a child with long QT syndrome for thoracoscopic sympathectomy, ISA Delhi, 20 March 2018, AIIMS, New Delhi

Anuradha Borle

1. Workshop on low flow anesthesia, Trauma Critical Care Update, 16 December 2017, Dayanand Medical College and Hospital, Ludhiana
2. Ethical debate-Medical errors-To fess or clam anesthesia, Trauma Critical Care Update, 16 December 2017, Dayanand Medical College and Hospital, Ludhiana
3. Panel discussion-Hemodynamic monitoring, ISACON- 64th Annual National Conference of ISA, 27 November 2016, DMC, Ludhiana
4. Workshop on upper limb blocks, Annual National Conference of Indian Society for Study of Pain (ISSPCON 2018), 1 February 2018, Medanta Medcity, Gurgaon

Thilaka Muthiah

1. Postoperative stridor-Prevention and management, Workshop: Rigid Bronchoscopy, ISACON Puducherry 2017, 22-24 September 2017, JIPMER, Puducherry
2. Workshop: Axillary nerve block and sciatic nerve block, 5th AIIMS Ultrasound Guided Regional Anaesthesia Workshop, 15 January 2018, JPNA Trauma Centre, AIIMS, New Delhi

Nishant Patel

1. Current fasting guidelines are outdated—Pro/con Debate, 27th ISACON East Zone 2017 and 30th ISACON Bihar-Jharkhand, The Joint Annual Conference of the ISA East Zone and ISA Bihar-Jharkhand, 13-15 October 2017, TATA Main Hospital, Jamshedpur, Jharkhand

Arshad Ayub

1. Perioperative fluid management in trauma, Indian Society of Anaesthesiologist, East Zone Conference, 13 October 2017, TATA Main Hospital, Jamshedpur
2. US guided regional anaesthesia, Workshop, Indian Society of Anaesthesiologist, East Zone Conference, 15 October 2017, TATA Main Hospital, Jamshedpur
3. Usg guided regional anaesthesia, Workshop, Cadaveric Advanced Ultrasound Guided Regional Anaesthesia, AIIMS, 28 February-1 March 2018, JPNATC, AIIMS, New Delhi

Oral papers/posters presented

1. Patnaik R, Chhabra A, Subramaniam R, Arora MK, Srivastav A, et al. Comparison of paravertebral block by anatomic landmark technique to ultrasound guided paravertebral block for providing anesthesia in patients undergoing breast surgery, Annual ESRA Conference, 30 September 2017, Lugano, Switzerland
2. Shende D, Ramkumar K. Comparison of sub-tenon and peribulbar block for postoperative analgesia in pediatric cataract, 36th Annual ESRA Congress 2017 organized by European Anaesthesia and Pain Medicine, 13-16 September 2017, Palazzo dei Congressi Lugano, Piazza, Indipendenza 4, Ticino; Miami, Lugano, Switzerland
3. Khanna P. Relieve the ICU pain: CPOT: Reliable and valid across multiple patient population, ANZICS, 20-24 April 2017, Singapore
4. Khanna P, Sinha R, Agarwal A, Dass C, Subramanaian R, Arora MK. Anesthetic management for ophthalmic surgical procedures in children with congenital Rubella Syndrome: A retrospective analysis, ESA, 3-5 June 2017, Geneva, Switzerland
5. Kashyap L, Tailang B, Khan SA, Arora MK, Prasad G, Mohan VK, Batra RK. Comparison between caudal epidural block and popliteal block for postoperative analgesia in children undergoing foot surgery, Annual Academic Congress 2018, College of Anaesthesiologists and Intensivists of Sri Lanka, 27-28 January 2018, Colombo, Sri Lanka
6. Kashyap L, Narsimha P, Mohan VK, Shende D, Arora M. Comparison of caudal epidural block with paravertebral block for renal surgeries in paediatric patients, SPA/AAP-2018 Phoenix, 23-25 March 2018, Phoenix, Arizona, USA
7. Mohan VK, Soni L. Diagnostic ultrasound guided medial branch block of dorsal ramus in facet arthropathy: Technical evaluation and validation by fluoroscopy, 4th New York Society for Regional Anaesthesia (NYSORA) International Symposium on Regional Anaesthesia, 22-24 March 2018, Dubai, United Arab Emirates
8. Rewari V, Ramachandran R, Trikha A, Pandey R, Lekha C, Sahni P. Continuous Transverses Abdominis Plane (TAP) block for postoperative analgesia after leino-renal shunt surgery (Oral paper), NZ Anaesthesia ASM 2017, 8-11 November 2017, Energy Events Centre, Rotorua, New Zealand

9. Pallavi T, Gupta B, Rewari V, Ramachandra R, Arulselvi, Kailavani, Farooque K. Effect of different anesthetic techniques on NETs in major orthopedic trauma surgeries, American Society of Anaesthesiologists, 21 October 2017, Boston, USA
10. Baidya DK, Maitra S, Goswami D, Muthiah T. Optimum time of LMA removal in adults: Randomized controlled trial, Annual Academic Congress of Sri Lankan Society of Anesthesiologists and Intensivists, 26-28 January 2018, Colombo, Sri Lanka
11. Goswami D, Nisa N, Sharma A, Baidya D, Dadhwal V, Arora MK. Oral paper on low dose ketamine for outpatient hysteroscopy: A prospective, randomized, double blinded study, 25th International Congress of the European Association of Endoscopic Surgeons, 16 June 2017, Messe Frankfurt Convention Centre, Frankfurt, Germany
12. Khanna P. Relieve the ICU pain: CPOT: Reliable and valid across multiple patient population, ANZICS, 20-24 April 2017, Singapore
13. Khanna P, Sinha R, Agarwal A, Dass C, Subramanian R, Arora MK. Anesthetic management for ophthalmic surgical procedures in children with congenital Rubella Syndrome: A retrospective analysis. ESA, 3-5 June 2017, Geneva, Switzerland
14. Khanna P. Seeing is believing, Believing is seeing photographs, Annual Academic Congress 2018, College of Anaesthesiologists and Intensivists of Sri Lanka, Colombo, Sri Lanka
15. Khanna P, Saini K, Sinha R, Kumar S, Maitra S. Correlation between duration of preoperative fasting and emergence delirium in pediatric patient undergoing ophthalmic examination under anesthesia as day care procedure-observational study, SPA/AAP-2018, 23-25 March 2018, Phoenix, Arizona, USA
16. Ray BR, Kundu R. TIMP-2 and IGFBP-7 for early detection of major surgery associate acute kidney injury: A systemic review and meta-analysis, Euroanaesthesia-2017, 3-5 June 2017, Geneva Convention Center, Geneva, Switzerland
17. Ray BR. Clinical photography competition, 34th Annual Academic Congress of Sri Lankan Society of Anesthesiologists, 26-28 January 2018, Taj-Samudra, Colombo, Sri Lanka
18. Mandal AK, Talawar P, Bhoi D, Singh A, Kumar A. ESP block in breast surgeries: Case series, IAPCON 2018, 23-25 February 2018, IRCH, AIIMS, New Delhi
19. Bhoi D, Chhabra A, Mohan VK, Talawar P, Srivastava A, Kataria K. Post mastectomy pain syndrome. Can regional block influence it? A Longitudinal study Based on Retrospective Data, 36th Annual, ESRA 2017, Congress, 13-16 September 2017, Lugano, Switzerland
20. Kumar S. Air embolism in CP angle tumour, 27th ISACON East Zone 2017 and 30th ISACON, Bihar-Jharkhand 2017, 13-15 October 2017, Jamshedpur, Jharkhand
21. Kumar S. Comparison of efficacy of two doses of intrathecal clonidine with hyperbaric bupivacaine in LSCS patient, College of Anaesthesiologists and Intensivists of Sri Lanka, 26-28 January 2018, Colombo, Sri Lanka
22. Khanna P, Kumar S. Correlation between duration of preoperative fasting and emergence delirium in pediatric patient undergoing ophthalmic examination under anesthesia as day care procedure-observational study, SPA/AAP-2018, 23-25 March 2018, Phoenix, Arizona, USA
23. Maitra S, Bhattacharjee S, Baidya DK. Comparison of non-invasive positive pressure ventilation and standard oxygen therapy in patients with acute hypoxemic respiratory failure: A meta-analysis of randomized controlled trials, Annual Academic Congress, College of Anaesthesiologists and Intensivists, 27-28 January 2018, Colombo, Sri Lanka
24. Maitra S, Bhattacharjee S, Baidya DK. Comparison between ultrasound guided technique and digital palpation technique for radial artery cannulation in adult patients: A meta-analysis of randomized controlled trials, 38th International Symposium of Intensive Care and Emergency Medicine, 20-23 March 2018, Brussels, Belgium
25. Singh AK, Talawar P, Bhoi D. Erector spinae block in liposuction for gynaecomastia: Our experience, 34th Annual Academic Congress of the College of Anaesthesiologists and Intensivists of Sri Lanka, 27 January 2018, Colombo, Sri Lanka

RESEARCH

Funded projects

Ongoing

1. Influence of anesthetic techniques on pro and anti-inflammatory effect in pelvic-acetabular and femur surgery, Babita Gupta, AIIMS, 2 years, 2015-2017, Rs 10 lakhs
2. Intraoperative lung protective ventilation in peritonitis patients undergoing emergency laparotomy: Randomized controlled trial, Dalim K Baidya, AIIMS, 2 years, 2015-2017, Rs 1.79 lakhs

3. To assess the analgesic efficacy of adjuvant magnesium sulphate added with Ropivacaine over Ropivacaine alone as a continuous infiltration in total abdominal hysterectomy wounds: A randomized controlled trial, Devalina Goswami, AIIMS, 1 year, 2016-2017, Rs 5 lakhs
4. Serratus anterior plane block in modified radical mastectomy: A pilot study to compare the efficacy of two different techniques, Debesh Bhoi, AIIMS, 2 years, 2017-2018, Rs 1.20 lakhs

Departmental projects

Ongoing

1. Analgesic efficacy and safety profile of glossopharyngeal nerve block using extraoral anatomical landmark technique vs ultrasound guided technique in patients with Eagles syndrome
2. A comparison of efficacy of prophylactic infusion of phenylephrine versus norepinephrine for the prevention of post spinal hypotension in parturients undergoing elective caesarean section-A randomized controlled trial
3. A study to find minimum effective volume of 0.5% ropivacaine for ultrasound guided costoclavicular block
4. A comparative pilot study of manual weaning versus automated weaning in critically ill patients
5. Accuracy of predictive equations in guiding tracheal intubation depth in children: A prospective observational study
6. Air Q ILA as a conduit for Orotracheal intubation in children: A comparison between supine and lateral position
7. Assessment of fluid responsiveness by changes in venous CO2 during passive leg raising maneuver
8. Assessment of role of Inferior Vena Cava Collapsibility Index (IVCCI) and variations in Carotid Artery Peak Systolic Velocity (CAPV) in prediction of post spinal anesthesia hypotension in spontaneously breathing patients: A pilot study
9. Association between pulmonary function tests and difficult airway in morbidly obese patients
10. Association of intraoperative blood glucose variability with postoperative outcomes in emergency laparotomy
11. Association of malnutrition with inhalational anaesthetic requirement and awakening during day care procedures in children
12. Assessment of efficacy of ultrasound guided corner pocket versus two aliquots injection techniques for supraclavicular block in upper limb orthopaedic surgeries: A prospective, randomized study
13. Assessment of role of Inferior Vena Cava Collapsibility Index (IVCCI) and variations in Carotid Artery Peak Systolic Velocity (CAPV) in prediction of post spinal anesthesia hypotension in spontaneously breathing patients: A pilot study
14. Anaesthetic implications of laparoscopic nephrectomy through transperitoneal and retroperitoneoscopic approach - A prospective observational study
15. Bilateral quadartus lumborum block vs bilateral transversus abdominis plane block for postoperative pain relief in TAPP laparoscopic hernia surgery: A randomised control trial
16. Clinical outcome, microbiological spectrum and antibiotic susceptibility of clinical isolates from adult intensive care unit in a tertiary care hospital in India
17. Comparative evaluation of efficacy of ultrasound guided supra-inguinal fascia iliaca block with infra-inguinal technique in preoperative positioning for central neuraxial block in patients with hip fracture
18. Comparison of ultrasound guided femoro-sciatic nerve block versus epidural analgesia for post-operative analgesia following excision of knee tumours-A randomized control study
19. Comparison between lactate clearance and neutrophil lymphocyte count ratio as a predictor of mortality in patients with sepsis
20. Comparison of safety and efficacy of self-pressurized vs conventional Air-Q intubating laryngeal airway in children: A prospective, randomized comparative study
21. Comparison between opioid based anaesthesia technique and opioid free anaesthesia technique in patients undergoing laparotomy for gynaecological malignancy: A randomized controlled trial
22. Comparison of low-fresh gas flow technique to standard technique of sevoflurane induction in children
23. Comparison of paravertebral block and Caudal epidural block undergoing renal surgery in pediatric patients
24. Comparison of time to intubate and intubation conditions with CMAC Miller blade size 1 and CMAC Macintosh blade size 2 in paediatric patients-A prospective randomized controlled study
25. Comparison of opioid based anesthesia technique and opioid free anesthesia technique in patients undergoing laparotomy for gynaecological malignancy: Randomized controlled trial
26. Comparison of opioid based and opioid free TIVA I laparoscopic gynaecological surgery: A randomized controlled trial

27. Comparison of lactate clearance and neutrophil lymphocyte ratio as predictor of mortality in patients with sepsis
28. Comparison of ultrasound guided gastric emptying between breastfed and formula fed infants below 6 months of age
29. Comparison of analgesic efficacy and safety profile of glossopharyngeal nerve block using ultrasound guided technique vs anatomical landmark technique in patients with eagle syndrome: A randomized prospective control study
30. Comparison of efficacy of Air-Q vs pro seal in children of age group (1-10 years) undergoing elective ophthalmic procedures: A randomized control trial
31. Comparison of efficacy and safety of AMBU AURO 40 Laryngeal mask and classic LMA during general anaesthesia in infants: A prospective randomised study
32. Comparison of Effect on neuromuscular blockade recovery between calcium gluconate coadministered with neostigmine and neostigmine only in pediatric patients: A pilot double blind randomized controlled trial
33. Comparison of serum nucleosomes and Tissue Inhibitor of Metalloproteinase1 (TIMP1) in predicting mortality in adult critically ill patients in sepsis
34. Correlation of oxygenation Index and oxygen saturation index in patients undergoing emergency laparotomy under general anesthesia: A prospective observational study
35. Correlation of the gastric residual volume determined by ultrasound and acceptance of enteral tube feed in medical/surgical ICU—An observational study
36. Determination of efficacy of dexamethasone in postoperative analgesia as an adjunct to ropivacaine in extra-oral mandibular nerve block in patients of maxillofacial surgery
37. Diagnostic ultrasound guided lumbar medial branch block of dorsal ramus in facet joint arthropathy: Technical feasibility and validity by fluoroscopy
38. Evaluation of the role of ultrasound biomicroscopy in retinoblastoma
39. Evaluation of diaphragmatic muscle mass in patients receiving pressure regulated volume controlled ventilation and synchronized intermittent mandatory ventilation for acute respiratory failure: A randomized controlled trial
40. Evaluation and comparison of 28 day mortality prediction by using serial values of NT-Pro BNP and Troponin I in patients with ARDS
41. Evaluation of the effects of a preoperative carbohydrate drink on post operative vomiting in paediatric strabismus surgery: A randomized controlled observer blinded trial
42. Evaluation of ultrasound guided erector spinae plane block in patients undergoing unilateral hip arthroplasty: A prospective single arm pilot study
43. Effects of regional anesthesia on perioperative inflammatory cytokines alteration and clinical complications
44. Effects of single dose intravenous dexmedetomidine for the supplementation of caudal analgesia in children—A prospective randomized comparative study
45. Effect of dexmedetomidine on emergence delirium and recovery parameters after desflurane or sevoflurane anaesthesia in children: A prospective observational randomized study
46. Effect of positive end expiratory pressure on atelectasis in patients undergoing major upper abdominal surgery under general anesthesia—A lung ultrasonography study
47. Effect of change in body weight on clinical outcomes in critically ill patients
48. Effect of addition of dexamethasone to ropivacaine for extraoral mandibular nerve block in patients undergoing mandibular surgeries under general anaesthesia
49. Effects of a preoperative carbohydrate drink on postoperative vomiting in paediatric strabismus surgery: A randomized controlled observer blinded trial
50. Effect of wrist angulation on ease of radial artery cannulation in pediatric population: Ultrasound-guided anatomical assessment
51. Effectiveness of mechanical ventilation simulator in assessment and management of patients, ventilator interactions in trainees
52. Effectiveness of enteral ivabradine for heart rate control in septic shock—A randomized controlled trial
53. Efficacy of decremental PEEP trial on postoperative oxygenation status in adult patients undergoing emergency laparotomy: A pilot randomized controlled trial
54. Efficacy of Air-Q® (Standard cuffed) vs ProSeal™ laryngeal mask airway in children undergoing elective ophthalmic procedures: A randomized clinical trial
55. End expiratory occlusion test and mini fluid challenge for predicting fluid responsiveness in acute circulatory failure

56. Epidemiology and prognostic utility of cellular components of hematological system in sepsis
57. Erector Spinae plane block for knee arthroscopy- A single arm prospective observational study
58. Estimation of minimum effective local anaesthetic [0.75% Ropivacaine] in target intraculter injection approach of ultrasound guided supraclavicular block: A prospective dose estimation study
59. Evaluation and comparison of 28 day mortality prediction by using serial values of NT-Pro BNP and Troponin I in patients with ARDS
60. Fascia Iliaca block above or below the Inguinal ligament? Evaluation of efficacy in total hip arthroplasty. A randomized prospective study
61. Fentanyl versus dexmedetomidine infusion in head and neck free flap surgery for comparison of hemodynamics and anesthetic requirements
62. Focused Airway Sonography (FAST) for evaluation of laryngeal mask airway placement: An observational study
63. Hemodynamic profile in the perioperative period in patients undergoing pheochromocytoma and paraganglionoma surgery with and without low dose diltiazem infusion
64. Impact of preoperative anxiety on propofol induced hypotension in children undergoing elective surgery under general anaesthesia: A prospective observational study
65. Integrated ultrasound protocol in predicting weaning success and extubation failure: A prospective observational study
66. Incidence of post operative cognitive decline in elderly patients undergoing open surgery under general anaesthesia using isoflurane or desflurane: A prospective observational study
67. Ketodex with glossopharyngeal nerve block vs propofol and Fentanyl with spray for therapeutic endoscopies
68. Lung ultrasound for diagnosis of ventilator associated pneumonia in critically ill
69. Perioperative blood glucose variability in non-diabetic patients with peritonitis undergoing emergency laparotomy: A prospective observational study
70. Perioperative analgesic efficacy of continuous quadratus lumborum block or continuous transversus abdominis plane block in patients undergoing renal transplant surgery - A randomized, double blind, controlled trial
71. Prognostic significance of preoperative blood lactate and lactate clearance in patients undergoing emergency laparotomy for perforation peritonitis: A prospective observational study
72. Prognostic significance of red blood cell transfusion trigger in critically ill patients with sepsis and septic shock: Prospective observational study
73. Prospective evaluation of risk factors and outcomes of ventilator associated conditions and infection related ventilator associated complications in trauma patients
74. Role of Neutrophil Gelatinase Associated Lipocalin (NGAL) as early biomarker of acute kidney injury in patients treated with colistin: A prospective observational study
75. Role of spot urine sodium in furosemide stress test in volume overloaded critically ill patients with acute kidney injury - A prospective study
76. Real time oblique in plane approach for axillary vein cannulation - A simple and novel approach
77. Safety, economic and environmental impact of desflurane in minimal flow anaesthesia (0.5 lit/min) with or without Nitrous Oxide, compared to isoflurane-air-oxygen used with low flow (1 lit/min) - A randomized open labelled single blinded study
78. Safety and efficacy of low dose intrathecal anaesthesia for outpatient laparoscopic tubal ligation
79. Safety and efficacy of intrathecal morphine for major pediatric lower abdominal procedures
80. Serial monitoring of Troponin I and Pro BNP as 28 days mortality predictor in ARDS patient
81. Serum procalcitonin, Interleukin-6 and sTREM-1 as diagnostic and prognostic markers in sepsis in Intensive Care unit
82. Temporal evolution of the Pcvco₂-Paco₂ / Cao₂-Ccvo₂ ratio versus serum lactate during resuscitation from septic shock
83. To assess the technical feasibility of ultrasound guided out of plane lumbar sympathectomy block and its confirmation by fluoroscopy in patients with peripheral arterial disease: A prospective observational study
84. To study the efficacy of serratus anterior plane block in patients undergoing trunk based flap surgeries-A pilot study
85. To evaluate the effects of a preoperative carbohydrate drink on postoperative vomiting in paediatric strabismus surgery: A randomized controlled observer blinded trial

86. To compare postoperative analgesia between ultrasound guided continuous Quadratus lumborum block with ultrasound guided Psoas compartment block in patients undergoing total hip arthroplasty under general anaesthesia
87. To evaluate the effects of a preoperative carbohydrate drink on postoperative vomiting in paediatric strabismus surgery: A randomised controlled observer blinded trial
88. To determine the optimal length for central venous catheter via axillary vein cannulation
89. To determine whether implementation of a new ICU delirium prevention bundle will reduce the incidence of delirium compared to standard of care protocol in mechanically ventilated patients
90. The effect of parental presence during anesthesia induction: On serum cortisol levels in children
91. The effect of ultrasound guided quadratus lumborum block on postoperative analgesia and neuroendocrine stress response in pediatric patients undergoing elective open pyeloplasty: A randomized control trial
92. Ultrasound assessment of airway for prediction of difficult laryngoscopy in obese patients: A prospective observational study
93. Ultrasound assessment of gastric emptying of clear fluids with different energy content in children: A crossover pilot study

Completed

1. A retrospective study in operated cases of TMJ ankylosis in a tertiary care centre
2. Anesthetic management for ophthalmic surgical procedures in children with congenital Rubella Syndrome: A retrospective analysis
3. Comparison of Sub-Tenon and peribulbar block for postoperative analgesia in pediatric cataract
4. Comparison of the Storz size 2 macintosh blade CMAC and size 2 D-blade CMAC in children with simulated cervical spine injury: A prospective randomized study
5. Comparison of paravertebral block by anatomic landmark technique to ultrasound guided paravertebral block for providing anesthesia in patients undergoing breast surgery
6. Comparison of peribulbar block and Sub-tenon infiltration in pediatric enucleation of the eye
7. Comparative sono-anatomy of “medial-oblique” probe position with classic “short axis” probe position for ultrasound guided axillary vein cannulation: A cross-over study
8. Comparison of the success of two techniques for the endotracheal intubation with C-Mac videolaryngoscope straight blade in paediatric patients: A randomized study
9. Comparative efficacy and safety of AMBU Aura 40 laryngeal mask and classic LMA during general anaesthesia in infants: A prospective randomised study
10. Correlation between duration of preoperative fasting and emergence delirium in pediatric patients undergoing ophthalmic examination under anesthesia: A prospective observational study
11. Double shot caudal versus single shot caudal for postoperative analgesia in paediatric patient undergoing infra umbilical surgeries
12. Effect of entropy guided low flow desflurane anaesthesia on laryngeal mask airway removal time in children undergoing ophthalmic surgery - A prospective, randomized, comparative study
13. Efficacy of Left Ventricular Outflow Tract Velocity Time Integral (LVOT VTI) and carotid artery VTI as predictor of volume responsiveness to Passive Leg Raising (PLR) in sepsis and septic shock patients by correlation with echocardiography guided stroke volume change (delta SV%) to PLR
14. Efficacy of diclofenac versus pentazocine for pain relief in patients with acute pancreatitis-Collaborative project with Department of Gastroenterology
15. Effect of dexmedetomidine on serum cortisol level and perioperative haemodynamics in children undergoing elective ophthalmic surgery—A prospective, randomized, comparative study
16. Evaluation of performance of C-MAC videolaryngoscope miller blade size zero blade for endotracheal intubation in preterm infants and neonates: A retrospective analysis
17. Impact of preoperative anxiety on propofol induced hypotension in female patients of elective surgery under general anesthesia
18. Knee-chest position and Subarachnoid block onset times in obstetric parturients: A RCT
19. Perioperative outcome of patients undergoing major pelvic surgeries in a tertiary health center in India: A retrospective analysis
20. Postoperative analgesia for open midline incisions in gynaecological oncology surgery: Ultrasound guided bilateral rectus sheath block with multimodal analgesia versus intrathecal morphine

21. To study the efficacy of ultrasound guided caudal morphine for providing perioperative analgesia in patients undergoing lumbosacral spine surgery
22. To study the efficacy of clonidine as an adjuvant to ropivacaine in ultrasound guided transversus abdominis plane block in adult renal transplant recipients—A double blinded randomized controlled trial
23. To assess the efficacy of local anesthetic wound infiltration in temporomandibular joint ankylosis surgery for control of post operative pain: Randomized controlled trial
24. To compare the efficacy of local anaesthetic wound infiltration in temporomandibular joint ankylosis surgery for control of post operative pain
25. To compare the analgesic efficacy of ultrasound guided quadratus lumborum block to ultrasound guided Transversus Abdominis Plane (TAP) block in patients undergoing operative laparoscopic gynaecological procedures under general anaesthesia
26. To observe the correlation between train of four count and diaphragmatic thickness fraction in myasthenia gravis patients undergoing minimally invasive thymectomy
27. The effect of type of fluid hydration on early graft function during live related renal transplantation
28. The influence of post-mastectomy pain syndrome on quality of life, its incidence, risk factors and preventive methods in a tertiary health center in Indian population: A longitudinal study based on retrospective data
29. Transforaminal epidural injection of local anaesthetic and dorsal root ganglion pulsed radiofrequency treatment in lumbosacral radicular pain- A randomized, triple-blind, active-control trial
30. Ultrasonic evaluation of gastric volume after fasting for 6 and 8 hours in diabetics and non-diabetics posted for elective surgery
31. To determine the minimum effective tourniquet cough pressure needed in paediatric orthopaedics extremity surgery by comparing surgical field haemodynamics and metabolic changes—A prospective randomized comparative study

Collaborative projects

Ongoing

1. Incidence and risk factors of back pain after cesarean section: A prospective observational study, gynecology and obstetrics
2. A study to assess the effectiveness of a planned simulation teaching on the knowledge and skill of nurses working in critical care unit of AIIMS, College of Nursing
3. A prospective study to evaluate the patterns of nicotine withdrawal in newly diagnosed head and neck squamous cell carcinoma patients and its impact on immediate post-operative outcomes, otorhinolaryngology-head and neck surgery
4. Effect of integrated Yoga on ART outcomes and psychological stress in patients undergoing In-Vitro-Fertilization (IVF) cycles: A prospective randomized controlled trial, obstetric and gynecology, Anesthesiology Pain Medicine and Critical Care Centre for Integrative Medicine and Research
5. Low pressure vs high pressure laparoscopic cholecystectomy, surgical disciplines
6. Outcome of patients undergoing pheochromocytoma and paraganglioma removal, urology

Completed

1. A study to assess the lived in experiences of critically ill patients who were on mechanical ventilation in medical-surgical ICU, College of Nursing, AIIMS, Delhi
2. A comparative study to evaluate the effectiveness of video teaching program v/s mannequin demonstration on basic life support to the family members of patients at high risk of cardiopulmonary arrest, College of Nursing
3. Association of vitamin D deficiency with duration of mechanical ventilation in critically ill adults in ICU: Observational study, College of Nursing

PUBLICATIONS

Journals: 50

Abstract: 1

Chapters in Books: 7

Books: 2

PATIENT CARE

Services Provided	No of cases done under GA/MAC
GI Surgery OT	353
General Surgery OT	2970
Dental Surgery OT	670
Plastic Surgery OT	331

Urology OT	1367
ENT OT	1083
Gynecology OT	1142
Paediatric Surgery OT	1548
Pain OT	528
Emergency Surgeries in Main OT (OT-12)	4537
Orthopedics OT	3259
Maternity OT (Diagnostic lap+ LSCS)	2996
IVF-OT	437
Ophthalmic OT	10509
AB 8 ICU- Statistics	
New Admissions	602
Discharged to ward	436
Expired	123
Peripheral calls attended by emergency duty team	1339
Peripheral Anesthesia Services	
MRI	450
CT Scan	833
MECT	495
Other Radiological Services (DSA, Lithotripsy)	265
Endoscopy	990
Pain Clinic (OPD)	3531

Total Anaesthesia Cases including emergencies -26665.

Total Peripheral GA and MAC cases (MRI/CT/MECT/DSA) -3033.

Total Peripheral Calls attended- 1339.

Pre-Anaesthesia Clinic Services increased from alternate day to 5 days a week w.e.f 15th January, 2018

Voluntary Community Services

Name of Faculty Dr Ravinder Kumar Batra	
1	Provided Anaesthesia Services in “Örtho Camp” at Shri Anandpur Trust Charitable Hopsital at Sukhpur, Distt Ashok Nagar, MP from 5-10 February 2018
Dr Maya Dehran	
1	Provided Anaesthesia Services to Bariatric surgical patients in a charitable laparoscopic surgery camp at MSSC Hospital, Byas, Punjab on 1 and 2 April 2017
2	Provided voluntary Community Services at Bhati Centre Radha Swamin Satsang, Delhi to the Specially Needed Group (SNG) patients during major gathering for Spiritual discourse for 7 days (October and November, 2017)
3	Did medical check up of the voluntary Sevadaar every Sunday of the year at Bhati Centre Radha Swami Satsang, Delhi
4	Provided medical and resuscitation services and care of critically ill patients till they are shifted to tertiary care hospital during major Satsang gathering at Bhati Centre Radha Swami Satsang, Delhi

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor Ravinder Kumar Batra was the “Guest of Honour”, for World Anaesthesia Day Celebrations Indian Society of Anaesthesiologists (Delhi Branch) at Maulana Azad Medical College on 15 October 2017. Subject Expert for selection of faculty at LHMC, UPSC, New Delhi, Himachal Pradesh, Rajasthan Public Service Commission and Institute of Liver and Biliary Sciences, New Delhi; Chairman of Curriculum Committee and Subject Expert of Life-Saving Anaesthesia Skills in Obstetrics, MOH, Government of India; National Board of Examinations, MOH, Government of India: Member and Co-ordinator “Speciality Board of Anaesthesiology”; Member, “Working Group Committee”; Member, Examination Ethics Committee; Member, Thesis Review Committee; Formation of OSCE stations in various specialities during post-graduate examinations at national level; Member, Virtual Medical Classroom Group at AIIMS; Ministry of Health, Government of India: Subject Expert and Member Curriculum Committee; Judge for Dr VA Punnoose Young Scientist Award, 12th Quarterly Scientific Meeting and Postgraduate Assembly, 7 May 2017, AIIMS, New Delhi; Chaired the session “Symposium on Thoracic Surgery, Contemporary Practices in Surgery Conference, 19-21 January 2018, AIIMS, New Delhi.

Professor Rajeshwari Subramaniam worked as Faculty-in-Charge of B. B. Dikshit Library for the last 4 years, have brought about major changes in library structure and function by increasing online subscriptions to nearly 1800 journals, liaising with publishers, renovating library and reading room.

Professor Anjan Trikha was nominated member of Academic Committee of Indian College of Anaesthesiologists; Nominated Chief Editor of Journal of Obstetric Anaesthesiologists and Critical Care.

Professor Dilip Shende presented the research paper-“Comparison of Peri-Bulbar blocks and Sub-Tenon block in pediatric enucleation of eye” at the SASA (South African Society of Anaesthesiology) held at Johannesburg, South Africa from 22-26 March 2017; Involved with development of pediatric HDU facility at RPC with multispecialty approach involving Ophthalmologists and Pediatricians; Chaired the Session, 14th Conference of Asian Society of Paediatric Anesthesiologist (ASPA, 2017), 3-4 June 2017, Grand Hyatt, Mumbai, Maharashtra.

Professor Ganga Prasad organized 5th workshop for OT technicians in February 2018; Member of Specification Committee of Anaesthesia Equipments for Post Graduate Institute of Medical Education and Research in New Delhi and Dr Ram Manohar Lohia Hospital, New Delhi; Member of Bureau of Indian Standard (BIS) for Anaesthesia Equipments, New Delhi; Member of Committee for Specification of Anaesthesia Equipments in Government E- Marketing (GeM); Drafted and initiated BSc (OT technology) course at AIIMS.

Professor Virender Kumar Mohan: Diagnostic ultrasound guided medial branch block of dorsal ramus in facet arthropathy: Technical evaluation and validation by fluoroscopy was judged as the best paper and awarded first prize in the poster competition at the 4th New York Society for Regional Anaesthesia (NYSORA) International Symposium on Regional Anaesthesia. (Best Paper Award).

Professor Vimi Rewari was the winner of the Best Preferred Oral Presentation at the New Zealand Anaesthesia Annual Scientific Meeting, 2017 held at Energy Events Centre, Rotorua, New Zealand from 8-11 November 2017 for my presentation entitled “Continuous Transverses Abdominis Plane (TAP) block for postoperative analgesia after leino-renal shunt surgery”.

Professor Jyotsana Punj was Co-Editor in Chief of International Journal of Perioperative Ultrasound and Applied Techniques (IJPUT) since 2014; Guest reviewer in Indexed journal: Indian Journal of Anesthesia (IJA), Journal of Anesthesiology and Clinical Pharmacology (JOACP), Journal of Clinical Anesthesia (JCA). Journal of Medical Case Report; Internal examiner for MD Exam of AIIMS; External examiner of MD anaesthesia for: JN Medical College Aligarh for setting of the paper/ evaluation of MD thesis (Anaesthesiology) and MD Anaesthesiology Examinations; Chief Co-ordinator of Ultrasound Guided Hands on workshop in International Conference of Pain Management, (6th ICPM 2017) organized by Department of Anaesthesiology, S.G.P.G.I.M.S, Lucknow; Chief Co-Ordinator of Ultrasound Guided Hands on workshop on peripheral nerve blocks in CME cum Workshop on ultrasound guided nerve blocks organized by: ISA State Branch Arunachal Pradesh and Department of Anesthesiology, Tomo Riba Institute of Health and Medical Sciences (TRIHMS), Naharlagun; Chief Co-Ordinator of Ultrasound Guided Hands on workshop on peripheral nerve blocks in CME cum Workshop on ultrasound guided nerve blocks organized by: ISA State Branch Arunachal Pradesh and Department of Anesthesiology, Tomo Riba Institute of Health and Medical Sciences (TRIHMS), Naharlagun; Chief Co-Ordinator of Hands on workshop on difficult airway management and BLS (CPR) in CME cum Workshop organized by: ISA State Branch Arunachal Pradesh and Department of Anesthesiology, Tomo Riba Institute of Health and Medical Sciences (TRIHMS), Naharlagun.

Professor Anjolie Chhabra was section editor for regional anaesthesia in trends in Anaesthesia and Critical Care (Elsevier journal).

Professor Ravinder Kumar Pandey was Editor in Chief of International Journal of Perioperative Ultrasound and Applied Techniques (IJPUT) since 2014; Reviewer in Indexed Journal: Indian Journal of Anesthesia (IJA), Journal of Anesthesiology and Clinical Pharmacology (JOACP), Journal of Clinical Anesthesia (JCA). Journal of Medical Case Report; Nominated as examiner for South Campus Delhi University for evaluation of MD thesis (Anesthesiology) and MD Anesthesiology Examinations; Chief Co-Ordinator of Ultrasound Guided Hands on workshop in International Conference of Pain Management, (6th ICPM 2017) organized by Department of Anaesthesiology, S.G.P.G.I.M.S, Lucknow; Chief Co-Ordinator of Ultrasound Guided Hands on workshop on peripheral nerve blocks in CME cum Workshop on ultrasound guided nerve blocks organized by: ISA State Branch Arunachal Pradesh and Department of Anesthesiology, Tomo Riba Institute of Health and Medical Sciences (TRIHMS), Naharlagun; Chief Co-ordinator of Hands on workshop on difficult airway management and BLS (CPR) in CME cum Workshop organized by: ISA State Branch Arunachal Pradesh and Department of Anesthesiology, Tomo Riba Institute of Health and Medical Sciences (TRIHMS), Naharlagun.

Professor Chhavi Sawhney: Ultrasonographic assessment of topographic anatomy of brachial plexus at infraclavicular fossa- Best paper award at RSACPCON 2017.

Dr Dalim Kumar Baidya passed European Diploma in Intensive Care (EDIC).

Dr Puneet Khanna: Grant by UGC to attend and present paper anesthetic management for ophthalmic surgical procedures in children with congenital Rubella Syndrome: A retrospective analysis in EUROANAESTHESIA CONGRESS in Switzerland from 3-5 June 2017; Grant by ICMR to attend and present the paper correlation between duration of preoperative fasting and emergence delirium in pediatric patient undergoing ophthalmic examination under anesthesia as day care procedure-observational study-in SPA/AAP. Phoenix, Arizona, 23-25 March 2018.

Dr Bikash Ranjan Ray: Grant for paper presentation at Euroanaesthesia 2017 at Geneva, Switzerland.

Dr Praveen Talawar drafted and initiated a fellowship in pain medicine in the department.

Dr Arshad Ayub has completed European Diploma in Anaesthesia and Intensive Care, part 1, 2017.

9.2. Anatomy

Professor and Head

T.S. Roy

Professors

A. Shariff
Rima Dada
T.C. Nag
(Electron Microscopy)

Pushpa Dhar
Arundhati Sharma (Genetics)

S.B. Ray
Renu Dhingra
Ritu Sehgal

Associate Professors

Saroj Kaler

Assistant Professors

Tony George Jacob
Seema Singh

Neerja Rani
S.C. Yadav
(Electron Microscopy-
Nanotechnology)

HIGHLIGHTS

The department has facilitated the organization of cadaveric workshops for many clinical departments and also helped in providing training the clinicians on various surgical maneuvers. Several guest and invited lectures were delivered by the faculty members of the department both in India and abroad. The faculty and students participated in several national and international conferences and presented their research work which encompassed areas of embryology, cell biology, neurosciences, genetics, and gross anatomy. The students of the department received several awards for their presentations which included Gold medals as well as prestigious travel grants from international scientific bodies. The faculty were sanctioned research grants from intramural and extramural funding agencies for their work and published their research in peer reviewed national and international journals. The faculty has acted as reviewers of research proposals of several funding bodies like DBT, DST, CSIR, ICMR, UGC, Ayush, etc. and have also been on the editorial board of journals of national and international repute. In addition to patient care through diagnostic tests, and counseling for various genetic and metabolic disorders the department has provided embalming service for transport as well soft embalming for various workshops.

EDUCATION

Innovative educational activity

A high resolution digital Histology Laboratory with a capacity of 150 students' workstations has been established in the department in the convergence block. Interactive digital display systems with facility for white boards have been installed in the Dissection Hall and Microanatomy Laboratory.

Undergraduate, postgraduate, paramedical teaching

Short and long term training

Short term training in the areas of genetics, plastination and electron microscopy was imparted to faculty members from different medical colleges and graduate students from in and outside Delhi. Undergraduate students of the Institute received

summer fellowship to carry out short term projects with various faculty members. Faculty members served as adjunct faculty at Jiwaji University, Gwalior for MSc neuroscience and molecular human genetics courses.

CMEs/Workshops/Symposia/National and International Conferences

The department provided soft embalmed cadavers and facilitated conduction of the following workshops.

1. Department of Surgical Disciplines organized Hands on Cadaveric Dissection Workshop and Conference of Asian Society of Mastology on 7 October 2017
2. Department of Surgical Disciplines organized 5th AIIMS Laparoscopic Surgery Cadaveric Workshop on 17-18 November 2017
3. Department of Neurosurgery, AIIMS, organized the Skull Base Neurosurgery Fellowship Practical Examination on 12 December 2017
4. Department of Obstetrics and Gynaecology organized 4th Hands on Laparoscopic Cadaveric Dissection Workshop in Gynae. Oncology on 6 January 2018
5. Department of Orthopaedics organized Cadaveric Hands on Workshop on 14 and 15 January 2018
6. Department of Anesthesiology organized 5th AIIMS Ultrasound Guided Regional Anesthesia Workshop on 15 and 16 January 2018
7. Department of Surgical Disciplines organized a CME on Contemporary Practices in Surgery: Symposium on Thoracic Surgery-2018 from 19-21 January 2018

Lectures delivered

T.S. Roy

1. Morphological changes in the human auditory pathway during aging, 12th Annual Conference of North State Chapter of Anatomical Society of India, 16-17 September 2017, Dehradun
2. Age-related changes in the expression of Glutamic Acid Decarboxylase (GAD67) and NMDA Receptor (NMDAR1) in the human inferior colliculus, Indian Academy of Neurosciences (IAN) 2017 and International Conference on 'Translational Neurosciences and its Application in Protection of Mental Health', 29-31 October 2017, Cuttack
3. Estimation of total capillary length in the human stria vascularis using design- based stereology, 65th National Conference of Anatomical Society of India, 30 November-2 December 2017, Raipur
4. Aging changes in the human stria vascularis—a design-based stereological study, World Neurocongress-2017, 9-10 December 2017, Aligarh
5. Auditory pathways, Neuroscience Program for MSc Students, 21 December 2017, Gwalior
6. Ascending pathways, Neuroscience Program for MSc Students, 21 December 2017, Gwalior
7. Limbic system, Neuroscience Program for MSc Students, 21 December 2017, Gwalior
8. Ascending and sensory pathways, CME on Central Nervous System Pathways, Axon Cables-connections, Disconnections and Corrections, 10 February 2018, Hyderabad
9. Anatomy of the spinal cord, CME on Spine and Spinal Cord, 15 March 2017, Jabalpur
10. Sensory pathways, CME on Spine and Spinal Cord, 15 March 2017, Jabalpur

A. Shariff

1. Learning Management Systems (LMS) overview, 2nd National Conclave on Virtual Teaching, 8-9 February 2018, New Delhi

Pushpa Dhar

1. Role of Antioxidant (AOX) supplementation on expression pattern of Calbindin (CB) in cerebellar cortex of rat pups following postnatal exposure to sodium arsenite, International Conference on Translational Neuroscience and Mental Health and XXXV Annual Meeting of Indian Academy of Neurosciences, 29-31 October 2017, Cuttack

Rima Dada

1. Oxidative DNA damage to paternal genome: Clinical implications and management, CME on Paternal Factors in Assisted Conception, 14 April 2017, Gurgaon
2. Locally-mediated analgesic effect of Bradykinin type 2 (B2) receptor antagonist HOE 140 during acute inflammatory pain in rats, 12th Annual Conference of the North States Chapter of Anatomical Society of India, 16-17 September 2017, Dehradun
3. Postoperative nociception in rats: Further characterization and alleviation, 35th National Conference of the Indian Academy of Neurosciences, 29-31 October 2017, Bhubaneswar

4. Postoperative pain in rats and its alleviation with Neuropeptide Y, 65th National Conference of Anatomical Society of India, 30 November-3 December 2017, Raipur
5. Development of the vertebral column, CME on Spine and Spinal Cord, 15-17 March 2018, Jabalpur
6. Reducing the rate of testicular aging by Yoga based lifestyle intervention, ICA (International Society of Andrology) 11th International Congress of Andrology, 6-9 May 2017, Copenhagen
7. Genetics of male infertility, "Diagnostic Genetics" National Symposium on Genetics in Clinical Medicine Session on Genetics of Reproductive Disorders, 15-17 September 2017, Thrissur
8. Deteriorating sperm health: Common causality in infertility, congenital malformations and childhood cancers, International Congress of academy of Clinical Embryologist, 17 September 2017, Hyderabad
9. Mendelian pattern of inheritance, HIMS, 10 October 2017, New Delhi
10. Atypical pattern of inheritance and epigenetics, HIMS, 12 October 2017, New Delhi
11. Sex and autosomal abnormalities, HIMS, 24 October 2017, New Delhi
12. Eye and its care, Durgabhai Deshmukh College, 25 October 2017, New Delhi
13. Genetics of ocular disorders, Durgabhai Deshmukh College, 29 October 2017, New Delhi
14. Oxidative stress and genetic factors in idiopathic oligozoospermia and NOA chairperson and guest speaker at CME, Developmental, Molecular and Clinical Aspects on Infertility, 4 November 2017, Telangana
15. YBLI improves QOL and cellular health in patients with complex lifestyle diseases, 27th Swadeshi Science Congress, Focal Theme: Science and Technology for Societal Development Organized by Swadeshi Science Movement, Kerala in Association with Amrita Vishwa Vidyapeetham, 7-9 November 2017, Kollam
16. Genetics of the human Y chromosome and its role in male infertility (Plenary Lecture), 27th Swadeshi Science Congress, Focal Theme: Science and Technology for Societal Development Organized by Swadeshi Science Movement, Kerala in Association with Amrita Vishwa Vidyapeetham, 7-9 November 2017, Kollam
17. Mindfulness meditation reduces intraocular pressure and lowers stress biomarkers and transcriptomic profile in primary open angle glaucoma: A RCT, 27th Swadeshi Science Congress, Focal Theme: Science and Technology for Societal Development Organized by Swadeshi Science Movement, Kerala in Association with Amrita Vishwa Vidyapeetham, 7-9 November 2017, Kollam
18. Unexplained infertility: Oxidative stress and dysregulated transcripts: Is there a cure, 65th Annual Conference of the Anatomical Society of India, 30 November-3 December 2017, Raipur
19. Molecular mechanisms underlying idiopathic male infertility, 23 Annual Meeting of Indian Society of Andrology, 1-3 December 2017, Lucknow
20. RIF: Sperm DNA damage and dysregulated transcripts, 23 Annual Meeting of Indian Society of Andrology, 1-3 December 2017, Lucknow
21. Unexplained infertility: Yoga to the rescue, Precongress Workshop, 13th Annual Conference of Indian Fertility Society, 8 December 2017, New Delhi
22. Prevention is better than cure in male infertility, Precongress Workshop, 13th Annual Conference of Indian Fertility Society, 8 December 2017, New Delhi
23. Management of autoimmune disease (RA) during pregnancy: Challenges and solutions, Precongress Workshop, 13th Annual Conference of Indian Fertility Society, 8 December 2017, New Delhi
24. Mitochondrial medicine and male infertility, 13th Annual Conference of Indian Fertility Society, 9-10 December 2017, New Delhi
25. Your health-Your choice, Durgabai Deshmukh College, 19 December 2017, New Delhi
26. Cytogenetic and molecular factors in male infertility, Special Invited Talk - Guest Speaker, 30 January 2018, New Delhi
27. Unexplained male factor infertility: Managing it the holistic way, 16th Annual Meeting of Society for Free Radical Research in India (SFRRI-2018) and International Conference on Translational Research in Free Radicals, Micronutrient Antioxidants and Functional Foods by Department of Laboratory Medicine, 18-20 February 2018, New Delhi
28. Sperm transcript dysregulation: Role in early pregnancy loss, ISSRF World Congress on Reproductive Health with Emphasis on Family Planning and Assisted Reproductive Technology, 24-25 February 2018, Hyderabad

Arundhati Sharma

1. Genetics on clinical implications of endocrine disorders, the 3rd Annual Conference of the Assam Endocrine Society, AESCON 2017, 9-10 September 2017, Guwahati
2. Pattern of single gene inheritance, NDMC Medical College and HRH, 14 November 2017, New Delhi

3. Non mendelian pattern of inheritance, NDMC Medical College and HRH, 18 November 2017, New Delhi
4. Autosomal and sex chromosomal abnormalities, NDMC Medical College and HRH, 18 November 2017, New Delhi
5. Genetic studies on alcohol and opioid dependence—an AIIMS experience, Emerging Trends in Addiction Psychiatry in the First National Conference on Addiction Psychiatry (NCAP), 27-29 November 2017, New Delhi

Renu Dhingra

1. Soft embalming: A newer interface in surgery and medical education, 12th Annual CME-cum-Conference of North State, 16 September 2017, Dehradun
2. Plastination: An advancement in long term preservation and adjunct to anatomy teaching), 12th Annual CME-cum-Conference of North State, 17 September 2017, Dehradun

T C Nag

1. Experimental oral iron administration: Histopathological investigations and expressions of iron regulatory proteins in rat retina with aging, XXXV Annual Meeting of Indian Academy of Neurosciences, 30 October 2017, Cuttack

Tony George Jacob

1. Developing psycho-social and interpersonal skill, Interpersonal Communication Skills, 20 April 2017, New Delhi
2. Interpersonal communication skills, Workshop on AIIMS-Personality Development, Communication and Presentation Skills, 3 June 2017, New Delhi
3. Basics of mentorship, Mentorship Programme for Faculty, Residents and Students, 25 October 2017, New Delhi
4. Thoracic wall and diaphragm, Cadaveric Workshop on Thoracoscopy and Thoracic Surgery, 27 March 2018, New Delhi

Subhash C Yadav

1. Targeted delivery system for cancer cells consist of multiple ligands conjugated genetically modified CCMV capsid on doxorubicin GNPs complex, International Conference on Electron Microscopy and Allied Techniques and XXXVIII Annual Meeting of EMSI, 17 July 2017, Chennai
2. Chimeric drug delivery system from plant virus capsid, Biotikos 2017 “Trends in Nanobiotechnology”, 29 September 2017, Delhi
3. Chimeric and targeted nano-particulate drug delivery system for subcutaneous cancer, SYSCON 2017-18 Bridging the Gap: Between Basic and Clinical Research from Bench to Bed Side, 11 January 2018, Delhi

Oral papers/posters presented

1. Ahmed A, Singh S, Rani N, Quadri JA, Shariff A. Morphology of the Enteric Glia in humans, World Neurocongress, 9-10 December 2017, Aligarh
2. Anam A, Seema S, Saba S, Vivek D, Neerja R, Subhash B, Quadri J A, Shariff A. Morphology of Enteric Glia, World Neurocongress, 9-10 December 2017, Aligarh
3. Arora P, Kshetrapal P, Bhatla N, Luthra K, Sharma A, Rani N, Mochan S, Gupta S, Saxena S, Dhingra R. Expression of MMP9 and TIMP1 in human placenta from early onset preeclampsia, 65th National Conference of Anatomical Society of India, 30 November-3 December 2017, Raipur
4. Arora P, Kshetrapal P, Bhatla N, Luthra K, Sharma A, Rani N, Mochan S, Gupta SK, Saxena S, Dhingra R. Study on the genetic expression of hydrogen sulphide producing enzymes in early onset preeclampsia, SYSCON, 12 January 2018, New Delhi
5. Arora P, Kshetrapal, Bhatla N, Luthra K, Sharma A, Rani N, Mochan S, Gupta S, Saxena S, Dhingra R. Effect of cystathionine gamma lyase on markers of trophoblast invasion ‘an in vitro study’: Implications in adverse pregnancy outcomes like preeclampsia, 20th International Conference on Cell Biology, 27- 31 January 2018, Hyderabad
6. Bahl A, Ray SB, Kaler S. A study of expression of Somatostatin and Neuropeptide in the dorsal root ganglia following hind paw incision, International Congress of Cell Biology, 27 January 2018, Hyderabad
7. Barwal IR, Kateriya S, Dinda AK, Yadav SC. Targeted delivery system for cancer cells by genetically modified CCMV capsid on doxorubicin GNPs Complex, 2nd Annual Conference, NANOBIOTECK- 2017, 6 December 2017, Trivandrum
8. Baxla M, Kaler S. Unilateral thyrolinguofacial trunk: An unusual anatomic variant a case report, 65th National Conference of Anatomical Society of India, 28 December 2017, Raipur
9. Bisht S, Chawla B, Dada R. Impact of simple lifestyle intervention Yoga/Meditation on improvement in the quality of life and semen quality in fathers of children affected with Retinoblastoma, 49th Annual Congress of the International Society of Paediatric Oncology, 12-15 October 2017, Washington DC

10. Bhukya S, Shariff A, Singh S, Nag TC, Quadri JA, Sarwar S. Morphology of the myenteric plexus of different gut segments of human foetuses, 70th Annual Meeting of Japan Society of Neurovegetative Research, 30 August 2017, Japan
11. Dhar P, Kumar P, Kaushal P. Role of antioxidant supplementation on sodium arsenite (NaAsO₂) induced developmental neurotoxicity in rat cerebellum, 47th Annual Meeting of Society for Neuroscience, 11-15 November 2017, Washington
12. Dhawan V, Kumar M, Malhotra N, Singh N. Sperm transcript dysregulation: Role in recurrent pregnancy loss, 33rd Annual Meeting of European Society of Human Reproduction and Embryology, 2-5 July 2017, Geneva
13. Dheeraj K, Singh S, Rani N, Pratap H, Yadav V, Raman S. Thickened costocoracoid ligaments with bilateral absence of subclavius, muscles, World Congress of Anatomists, 22- 24 September 2017, Gadag
14. Dheeraj K, Dhingra R, Sharma MC, Nag TC, Singh S, Rani N. Expression of CK19 in gastroneuroendocrine tumors, 65th National Conference of Anatomical Society of India, 1-3 December 2017, Raipur
15. Dheeraj K, Dhingra R, Sharma MC, Pal S, Kumar R, Singh S, Yadav V, Saxena S, Kumar S, Mochan S, Arora P, Rani N. Correlation of cKIT and expression and 68Ga-DOTANOC scans in gastroneuroendocrine tumors, 20th International Conference on Cell Biology, 27-31 January 2018, Hyderabad
16. Dheeraj K, Dhingra R, Singh S, Nag TC, Pal S, Rani N. Ultrastructural morphology of gastroneuroendocrine tumors, World Congress Cancer 2018, 3-5 February 2018, Jaipur
17. Dubey V, Singh S, Quadri JA, Sarwar S, Subhash B, Shariff A. Viral encephalitis: Epidemiology, prevention and control, 3rd IISF 2017, Sensitizing Youth to Flagship Programs of Government (SYPOG), 13-16 October 2017, Chennai
18. Ganapathy A, Tandon R, Kaler S. Cadaveric study of lung anatomy: A surgical overview, 19th International Conference on Human Anatomy and Physiology, 11 December 2017, Malaysia (Best oral presentation)
19. Ganapathy A, Banerjee A, Kaler S. Anomalous origin of bilateral testicular arteries: A case report, 19th International Conference on Human Anatomy and Physiology, 11 December 2017, Malaysia
20. Gautam S, Kumar SB, Chawla B, Dada R. Seminal oxidative stress and oxidative DNA damage: Clinical implications, ISSRF (International Conference on Reproductive Health with Emphasis on Strategies for Infertility, Assisted Reproduction and Family Planning and the 27th Annual Meeting of the Indian Society for the Study of Reproduction and Fertility, 23-25 January 2017, New Delhi
21. Gautam S, Bisht S, Tolahunase M, Kumar M, Dada R. Impact of social habits and lifestyle intervention on sperm DNA integrity: Clinical implications, XXIV North American Testis Workshop, ASA 2017, 19-22 April 2017, Miami (ASA Travel Award)
22. Gautam S, Bisht S, Kumar M, Chawla B, Kumar R, Dada R. Prevention is better than cure, ICA (International Society of Andrology) 11th International Congress of Andrology, 6-9 May 2017, Copenhagen
23. Gorla S, Maurya M, Kathpalia, Nag TC, Roy TS. Expressions of neuroprotective molecules in neonatal chick retina under continuous exposure to light, XXXV Annual Meeting of Indian Academy of Neurosciences, 30 October 2017, Cuttack
24. Grover T, Gupta R, Ambekar A, Singh R, Sharma A. Study on the genetic basis of alcohol dependence, 7th International Conference on Addictive Disorders and Alcoholism, 3-4 July 2017, Kuala Lumpur (ICMR)
25. Grover T, Gupta R, Ambekar A, Singh R, Vaswani M, Jain R, Sharma A. An association study of neurotransmitter gene markers with alcohol dependence, First National Conference on Addiction Psychiatry (NCAP 2017), 27-29 November 2017, New Delhi
26. Grover T, Gupta R, Singh R, Ambekar A, Jain R, Sharma A. Study on the genetic association of serotonin pathway and brain derived neurotropic factor gene variants with alcohol dependence, 70th Annual National Conference of Indian Psychiatric Society, 2018 (ANCIPS 2018) Ranchi, 5-8 February 2018, Ranchi
27. Grover T, Gupta R, Ambekar A, Bal C, Arora M, Singh R, Vaswani M, Sharma A. Role of Dopamine Transporter (DAT) in alcohol dependence—A genetic association and imaging study, 26th European Congress of Psychiatry 2018, 3-6 March 2018, Nice (CSIR Travel Award)
28. Gupta R, Grover T, Singh R, Ambekar A, Sharma A. SPECT-CT imaging and methylation status of dopamine pathway genes in alcohol dependence: A preliminary study, IBRO/APRC Associate School 2017, 5-10 June 2017, Shillong
29. Gupta R, Ambekar A, Grover T, Sharma A. Association of GRIN2A gene polymorphisms of glutamate pathway with heroin dependence in Indian population: A preliminary study, 7th International Conference on Addictive Disorders and Alcoholism, 3-4 July 2017, Kuala Lumpur
30. Gupta R, Singh R, Ambekar A, Grover T, Sharma A. Methylation status of dopamine pathway DAT and SNCA genes of the alcohol and opioid dependence, First National Conference on Addiction Psychiatry 2017 (NCAP 2017), 27-29 November 2017, New Delhi

31. Gupta R, Singh R, Ambekar A, Grover T, Sharma A. A study on the polymorphism and methylation status of dopamine pathway genes in alcohol dependence, XXV World Congress of Psychiatric Genetics 2017, International Society of Psychiatric Genetics, 13-17 October 2017, Orlando (IBRO Travel Grant)
32. Gupta R, Ambekar A, Grover T, Sharma A. Comparison of the socio-demographic, clinical and GRIN2A SNP profiles in alcohol and opioid dependent subjects, XXXV Annual Meeting of Indian Academy of Neuroscience, 29-31 October 2017, Cuttack (IBRO Travel Grant)
33. Gupta SK, Mochan S, Bhatla N, Luthra K, Kshetrapal P, Saxena S, Arora P, Rani N, Dhingra R. Effect of Hydrogen Sulphide on migration of trophoblast cells: An in vitro study, 20th International Conference on Cell Biology, 27-31 January 2018, Hyderabad
34. Gupta S, Katyal J, Gautam M, Kaler S, Ray SB. Comparative antinociceptive effect of morphine and cannabinoid receptor 1 agonist after chronic intrathecal administration in rats, World Congress of Neuroscience, 9 December 2017, Aligarh (Best Poster Award)
35. Jacob TG, Kumar M, Chaudhary P, Garg PK, Roy TS. Autophagy in experimental acute pancreatitis, National Conference of the Anatomical Society of India, 30 November-3 December 2017, Raipur
36. Kaler S, Gautam M, Gupta S, Ray SB. Characterization of the anti-nociceptive effect of DAMGO, a μ -Opioid receptor agonist in the rat, World Congress of Neuroscience, 9 December 2017, Aligarh
37. Kathpalia P, Nag TC, Sanyal T, Wadhwa S, Sharma A, Roy TS. Differential gene expression in hippocampus of neonatal chicks in response to prenatal sound stimulation at 110 dB, XXXV Annual meeting of Indian Academy of Neurosciences, 30 October 2017, Cuttack
38. Krishna H, Banerjee A, Singh S, Rani N. Unusual branching pattern of left gastric artery: A clinical interpretation, 65th National Conference of Anatomical Society of India, 1-3 December 2017, Raipur
39. Kumar P, Dhar P. Estrogen mediated immune regulation and neuroprotection in female rat hippocampus, Cajal Course "Ion channels in the brain in health and disease", 4-23 September 2017, France
40. Kumar P, Dhar P. Estrogen deficiency and neurodegeneration: An inflammatory tale, 47th Annual Meeting of Society for Neuroscience, 11-15 November 2017, Washington
41. Kumari C, Nag TC. The choroid speaks with age: The large vessel instability as a basis for retinal hypo-perfusion, 65th Annual Meeting of Anatomical Society of India (NATCON-65), 1 December 2017, Raipur
42. Kumar P, Pal I, Kaur C, Jacob TG, Vanamail P, Bharadwaj DN, Roy TS. Morphometric changes in human trochlear nerve with age: An electron microscopic study, World Neurocongress, 9-10 December 2017, Aligarh (Best Poster Award)
43. Kumar R, Jacob TG, Sharma U, Jagannathan NR, Roy TS. Longitudinal MRI-study of infarcted brain in transient ischemic stroke in rats, World Neurocongress, 9-10 December 2017, Aligarh
44. Kumar A, Sehgal R. Nerve growth factor secretion by breast phyllodes and its translational implications (poster), 11th European Breast Cancer Conference (EBCC-11), 23 March 2018, Barcelona
45. Kaur C, Kumar P, Nag TC, Thakar A, Bhardwaj DN, Jacob TG, Roy TS. Stereological investigation and morphometric classification of spiral ganglion neurons in the human cochlea, Annual Conference of the Society for Neuroscience, 11-15 November 2017, Washington DC
46. Kaur C, Kumar P, Jacob TG, Nag TC, Thakar A, Bhardwaj DN, Roy TS. Morphological classification of spiral ganglion neurons in the human cochlea, World Neurocongress 2017, 9-10 December 2017, Aligarh
47. Kaushal P, Kumar P, Mehra RD, Dhar P. Dendritic processes as targets for arsenic induced neurotoxicity: Protective role of curcumin, Annual Conference of ASI, 1-3 December 2017, Raipur (Gold Medal)
48. Kaushal P, Rani N. Persistence of the umbilical artery in medial umbilical ligament: Clinical aspects, 12th International Interim Conference/Workshop on Plastination, 2-7 July 2017, Durban
49. Malik E, Jyotsna V, Sharma A. Screening for MEN1, AIP and GNAS1 gene variations in anterior pituitary adenoma cases without family history, 47th Annual Conference of Endocrine Society of India (ESICON 2017), 13-15 October 2017, Thiruvananthapuram
50. Maurya M, Nag TC, Roy TS, Wadhwa S. Apoptosis and neuroprotective role of BDNF and regulatory pathway in postnatal chick retina exposed to light of variable photoperiods, XXXV Annual meeting of Indian Academy of Neurosciences, 30 October 2017, Cuttack
51. Mehta K, Kumar P, Kaur B, Pandey KK, Dhar P. Effect of exogenous curcumin on cognitive function in adult mice exposed chronically to AS₂O₃, World Congress of Anatomists, 22-24 September 2017, Gadag
52. Mehta K, Kaur B, Pandey KK, Dhar P. Role of resveratrol supplementation on hippocampal functioning of mice exposed to arsenic trioxide, World Neurocongress-2017 on Neurogenomics and Stem Cell Therapy, 9-10 December 2017, Aligarh

53. Mochan S, Bhatla N, Rani N, Gupta SK, Saxena S, Arora P, Dhingra R. sFlt-1 upregulates endoplasmic reticulum stress marker XBP1 in trophoblast cells, 65th National Conference of Anatomical Society of India, 30 November-3 December 2017, Raipur (Gold Medal)
54. Mochan S, Bhatla N, Luthra K, Sharma A, Rani N, Gupta S, Saxena S, Arora P, Dhingra R. sFlt-1 (sVEGFR1) induces placental endoplasmic reticulum stress in trophoblast cells via IRE1 axis of the ER stress pathway; implication in preeclampsia, SYSCON, 12 January 2018, New Delhi (Gold Medal)
55. Mochan S, Bhatla N, Luthra K, Sharma A, Rani N, Gupta SK, Saxena S, Arora P, Dhingra R. VEGF alleviates endoplasmic reticulum stress in trophoblast cells, herewith PERK arm: Implications in Preeclampsia, 20th International Conference on Cell Biology, 27-31 January 2018, Hyderabad
56. Pal I, Jacob TG, Dada R, Bhardwaj DN, Roy TS. Age related changes in the expression of Glutamic Acid Decarboxylase (GAD) in the human inferior colliculus, Keystone Symposium—Aging and Mechanism of Aging Related Disease, 15-20 May 2017, Yokohama (Travel Grant and Externship in Lab)
57. Pal I, Jacob TG, Dada R, Bhardwaj DN, Roy TS. Age-related changes in the expression of GAD67 and NMDAR1 in the human inferior colliculus, Annual Conference of the Society for Neuroscience, 11-15 November 2017, Washington DC (IBRO Travel Grant)
58. Pillutla S, Jacob TG, Thankar A, Bhardwaj DN, Roy TS. Stereological estimation of total capillary length in the human stria vascularis, Annual Conference of the Society for Neuroscience, 11-15 November 2017, Washington DC
59. Rani N, Dheeraj K, Dhingra R, Singh S, Pal S and Kumar R. Expression of cKIT protein as a prognostic marker in gastroneuroendocrine tumors, 12th International Interim Conference/Workshop on Plastination, 2-7 July 2017, Durban
60. Roy TS, Pillutla S, Jacob TG, Thakar A, Bhardwaj DN. Estimation of total capillary length in the human stria vascularis using design-based stereology, National Conference of the Anatomical Society of India, 30 November-3 December 2017, Raipur
61. Saini S, Jacob TG, Thakar A, Roy KK, Roy TS. Unbiased stereological quantification of neurons and astroglia in the developing human cochlear nucleus, IBRO-APRC Bangladesh Associate School of Translational Neuroscience and Research, Workshop, 23-27 September 2017, Bangladesh (IBRO Travel Grant)
62. Saini S, Jacob TG, Thakar A, Roy KK, Roy TS. Stereological estimation of NeuN and GFAP labeled cells in the developing human cochlear nucleus, Annual Conference of the Society for Neuroscience, 11-15 November 2017, Washington DC
63. Sarwar S, Quadri JA, Singh S, Nag TC, Roy TS, Shariff A. Fluoride exposure and its impact on development of nitrergic neurons in myenteric plexus, International Congress of Cell Biology 2018, 27-31 January 2018, Hyderabad
64. Sarwar S, Quadri JA, Subhas B, Anam A, Singh S, Nag TC, Roy TS, Shariff A. Effects of fluoride on enteric neurons, SYSCON, 12 January 2018, New Delhi
65. Saxena S, Kshetrapal P, Mochan S, Bhatla N, Luthra K, Sharma A, Gupta SK, Arora P, Rani N, Dheeraj K, Dhingra R. The role of Hydrogen Sulphide in mediating trophoblast cell invasion during placentation and its likely role in preeclampsia, 20th International Conference on Cell Biology, 27-31 January 2018, Hyderabad
66. Singh R, Gupta R, Ambekar A, Grover T, Jain R, Sharma A. A study on the association of monoamine pathway gene polymorphisms with alcohol dependence, 7th International Conference on Addictive Disorders and Alcoholism, 3-4 July 2017, Kuala Lumpur (CSIR Travel Award)
67. Singh R, Gupta R, Ambekar A, Grover T, Jain R, Vaswani M, Sharma A. Association study of monoamine pathway gene polymorphisms with alcohol dependence, First National Conference on Addiction Psychiatry 2017 (NCAP 2017), 27-29 November 2017, New Delhi
68. Singh R, Gupta R, Ambekar A, Jain R, Grover T, Sharma A. Study on the association of genetic variations in serotonin pathway genes with alcohol dependence, 70th Annual National Conference of Indian Psychiatric Society, 2018 (ANCIPS 2018) Ranchi, 5-8 February 2018, Ranchi
69. Singh S, Rani N and Gurjar H. A penetrating cranio-orbital injury navigating anatomy of anterolateral skull base, 26th Annual Conference of Neurotrauma Society of India, 11-13 August 2017, Ooty
70. Singh S, Sarwar S, Quadri JA, Anam A, Rani N, Nag TC, Shariff A. Ultra structural features of enteric ganglia in the human fetal colon, 65th Annual Meeting of Anatomical Society of India (NATCON-65), 1 December 2017, Raipur
71. Subhash B, Singh S, S Saba, Quadri JA, Nag TC, Shariff A. Morphology of enteric ganglia at different gut segments of human fetuses, International Society for Autonomic Neuroscience 2017 (ISAN 2017), 28 August-2 September 2017, Nagoya
72. Subhash B, Sarwar S, Quadri JA, Singh S, Nag TC, Shariff A. Ultra structural features of enteric ganglia in human fetus, 65th National Conference of Anatomical Society of India, 1-3 December 2017, Raipur

73. Subhash B, Singh S, Sarwar S, Quadri JA, Rani N, Nag TC, Shariff A. The ultra structural features of myenteric plexus in human fetal colon, International Congress of Cell Biology, 27-31 January 2018, Hyderabad
74. Tolahunase MR, Sagar R, Kumar R, Malhotra N, Singh N, Dada R. Yoga and meditation promotes quality of life by decreasing depression severity and cellular aging in male infertility: Randomized controlled trial, 42nd American Society of Andrology Annual Meeting, 22-25 April 2017, Miami
75. Tolahunase M R, Sagar R, Dada R. Molecular and clinical indicators of improved neuroplasticity by yoga and meditation: A randomized clinical trial in major depressive disorder, 1st World NCD Congress 2017, 4-6 November 2017, Chandigarh
76. Tolahunase MR, Sagar R, Yadav RK, Dada R. Effect of yoga and meditation on rate of aging, 27th Swadeshi Science Congress, 7-9 November 2017, Kollam
77. Tolahunase MR. Impact of mindful based stress reduction in depression, 13th Annual Conference, Fertilisation 2017, 8-10 December, 2017, New Delhi

RESEARCH

Funded projects

Ongoing

1. Age related morphological and neurochemical changes in the human inferior colliculus, T.S. Roy, AIIMS, 1 year, 2017-18, Rs 4.5 lakhs
2. Apoptosis and mitosis in developing human cochlear nucleus, T.S. Roy, ICMR-SRF, 1 year+, 2017-onwards, Rs 4.57 lakhs/year
3. Effect of angiotensin receptor modulation in rat middle cerebral artery occlusion: A morphological and biochemical study, T.S. Roy, DBT-JRF, 3 years, 2017-onwards, Rs 3.30 lakhs
4. To study the role of T-helper 17 (Th17) cells in arthritis patients in Indian population, A Shariff, ICMR, 3 years, 2015-18, Rs 45.0 lakhs
5. Evaluation of endemic fluorosis during anaemia: A pilot study, A. Shariff, DST, 3 years, 2016-19, Rs 25 lakhs
6. Study of the effects of chronic fluoride exposure on enterochromaffin cells of the entero endocrine system-A pilot study, A. Shariff, AIIMS, 1 year, 2016-17, Rs 5 lakhs
7. Analysis of sperm DNA damage in fathers of children with non familial childhood cancer, Rima Dada, ICMR, 3 years, 2015-18, Rs 36 lakhs
8. A translational randomized trial of yoga based lifestyle intervention for Major Depressive Disorder (MDD) management in India and analyzing biomarkers of cellular aging associated with it, Rima Dada, Ayush, 3 years, 2016-19, Rs 30 lakhs
9. Effects of lifestyle interventions and psychological stress on markers of aging, Rima Dada, ICMR, 3 years, 2017-20, Rs 40.0 lakhs
10. Effect of yoga on inflammatory biomarkers of rheumatoid arthritis, Rima Dada, AIIMS, 1 year, 2017, Rs 5 lakhs
11. Effect of yoga on rheumatoid arthritis, Rima Dada, DST, 2 years, 2017-19, Rs 54 lakhs
12. Genetic study of patients with refractory rickets and hypophosphatemia, Arundhati Sharma, ICMR, 3 years, 2015-18, Rs 30.0 lakhs
13. Genome-wide association study of phenotypic extremes in primary angle closure glaucoma, Arundhati Sharma, DBT, 3 years, 2016-19, Rs 54.0 lakhs
14. Expression patterns of iron regulatory proteins in rat retina with aging and in experimental iron overload, T.C. Nag, CSIR, 2 years, 2015-17, Rs 22.8 lakhs
15. Ultrastructural and immunohistochemical analysis of human choroidal vessels with normal aging, T.C. Nag, ICMR, 3 years, 2015-18, Rs 21.4 lakhs
16. Effect of pre-experimental starvation on the state of autophagy induction in caerulein-induced acute pancreatitis in mice, Tony George Jacob, AIIMS, 1 year, 2017-18, Rs 10 lakhs
17. Organization of the developing myenteric plexus in midgut, hindgut and ileocecalvalve in humans, Seema Singh, AIIMS, 2 years, 2015-17, Rs 10.0 lakhs
18. Role of H₂S in migration of trophoblastic cells and its impact on placentation—*An in vitro study*, Neerja Rani, AIIMS, 2 years, 2015-17, Rs 10.0 lakhs
19. Magnetic nanoparticles and quantum dots coupled visual confirmation of cervical cancer cells from cytology sample: A cost effective, Quick and Suitable Test for Rural Indian Setup, S.C. Yadav, SERB, 3 years, 2018-21, Rs 38.6 lakhs

Completed

1. Expression patterns of iron regulatory proteins in rat retina with aging and in experimental iron overload, TC Nag, CSIR, 3 years, 2015-17, Rs 22.8 lakhs
2. Development of Nano-drug delivery system for brimonidine for treatment of open angle glaucoma with lower dose, higher efficacy and prolonged action, S.C. Yadav, AIIMS, 2 years, 2016-18, Rs 9 lakhs

Departmental projects (including thesis/dissertations)

Ongoing

1. Effect of angiotensin receptor modulation in rat middle cerebral artery Occlusion: A morphological and biochemical study
2. Development of the human cochlear nucleus
3. Age changes in the human inferior colliculus
4. Age changes in the human spiral ganglion
5. Age changes in the human trochlear, abducent and cochlear nerve
6. Effect of curcumin on murine model of mild acute pancreatitis
7. Fluoride induced nephrotoxicity
8. Fluoride induced cardiomyopathies—An experimental study
9. Effects of fluoride exposure on development of enteric nervous system an experimental study
10. Study of the developing myenteric plexus in human fetuses
11. Effect of curcumin on mice basal forebrain structures following arsenic trioxide exposure
12. Effect of resveratrol supplementation on cognitive function and estrogen receptor
13. profile in hypothalamus and hippocampus of Arsenic trioxide-exposed adult female mice
14. Evaluation of the role of curcumin supplementation on Arsenic trioxide induced neurotoxicity in the basal ganglia of mice, Effect of resveratrol on arsenic trioxide induced cardiac toxicity in mice
15. Paternal factors in embryonic development
16. Molecular analysis in depression: A case control study
17. Telomere dynamics in male infertility
18. Genetic and molecular basis of retinoblastoma
19. To study phenotype genotype correlation in patients with 5 alpha reductase 2 deficiency and androgen insensitivity, Molecular basis of idiopathic male infertility
20. Meditation and its impact on POAG
21. Epidemiological studies in male infertility
22. Meditation based stress reduction: Is it therapeutic for Primary Open Angle Glaucoma (POAG)
23. Impact of short term Yoga based intervention on obesity
24. Molecular studies in Fibromyalgia
25. Impact of yoga and meditation on Epigenome in rheumatoid arthritis
26. Mutation analysis of candidate genes (NR5A1, DAX1, DHH, DMRT1, SOX9, SRY, WT1) in patients with gonadal dysgenesis and 46, XY karyotype
27. Impact of Yoga based intervention on quality of life of glaucoma patients
28. Mutation analysis in anti mullerian hormone gene in poor responders
29. A study on the genetic association and correlation of Monoaminergic and GABAergic pathway gene polymorphisms with brain imaging (PET/SPECT) in alcohol and opioid dependence
30. Epigenetic changes of dopaminergic pathway genes and association of GRIN2A gene polymorphism in alcohol dependence
31. Genetic study of posterior polar cataract
32. Study to identify the genetic basis underlying Stevens-Johnson Syndrome (SJS)
33. A study on the association of alcohol dependence with rs9927871 polymorphism in GRIN2A gene
34. Mutational studies in patients with refractory rickets and hypophosphatemia
35. Genetic and epigenetic profiling in patients of anterior pituitary adenoma
36. Study on the association of polymorphism, methylation and expression status of monoamine pathway genes with alcohol dependence

37. Association of GRIN2A and DRD4 gene polymorphism with opioid dependence
38. Study to evaluate genetic abnormalities in patients with recurrent spontaneous abnormalities
39. A study on the role of ADH and ALDH gene variants in alcohol dependence
40. Study to evaluate association of SNPs and epigenetic changes in neurotransmitter genes in opioid dependence
41. Characterization of a novel GHRHR mutation causing isolated growth hormone deficiency
42. Role of micro RNA-30 in cystathionine gamma lyase mediated trophoblast cell invasion and status in preeclampsia
43. Effect of Hydrogen Sulphide on migration of human trophoblast cells and its status in preeclampsia
44. Expression of miR-22, Specificity protein-1 and cystathionine beta synthase in pre-eclampsia and their role in trophoblast invasion
45. An association study of cystathionine beta synthase gene polymorphism in preeclampsia study title
46. Study of the association of matrix metalloproteinase-9 gene polymorphism in preeclampsia
47. Expression patterns of iron regulatory proteins in rat retina with aging and in experimental iron overload
48. Epigenetic regulation of brain-derived neurotrophic factor in the central auditory pathway and hippocampus of neonatal chicks exposed to prenatal sound stimulation
49. Light-induced oxidative stress and endogenous neuroprotective mechanisms in post-hatch chick retina
50. Light-induced outer retinal damage and its consequences in inner retina
51. Remodeling in horizontal cells following light-induced retinal damage in rat
52. Expression of cannabinoid type 1 and 2 receptors in breast tumors
53. Anatomical variations of the human middle cerebral artery
54. Role of sperm molecular factors in recurrent pregnancy loss
55. Morphological study of enteric glia in colorectal carcinoma
56. Study of association of MMP9 gene polymorphisms in preeclampsia
57. An association study of cystathionine beta synthase gene polymorphisms in preeclampsia
58. Morphological study of enteric glia in colorectal carcinoma

Completed

1. Comparison of histological tumor content in human gall bladder cancer with quantitative expression of β -Human chorionic gonadotropin and receptor interacting protein-1
2. The effect of Tri Methylamine n-Oxide (TMAO) on two murine models of acute pancreatitis
3. Age changes in the human stria vascularis
4. Study of the expression of parvalbumin and calbindin in the aging human inferior colliculus
5. Change in enteric nervous system and interstitial cells of Cajal in the distal loop of colon after diversion colostomy in rat
6. Study of morphology of enteric glia in the myenteric plexus of adult human colon
7. Study of the developing myenteric plexus in the human fetus
8. Experimental colonic diversion in rat model
9. Effect of neonatal phototherapy on testis
10. Effect of curcumin on morphological and biochemical changes in cardiac tissue of adult mice chronically exposed to arsenic trioxide
11. Genetic studies in fibromyalgia
12. Genetic studies in premature ovarian failure
13. Expression patterns of BDNF and Trk-B in neonatal chick retina exposed to light of variable photoperiods
14. Study of the morphology of pyramidal cells and astrocytes in CA1 region of hippocampus in suicidal deaths
15. Comparison of histological tumor content in human gall bladder cancer with quantitative expression of β -human chorionic gonadotropin and receptor interacting protein-1
16. The effect of Tri Methylamine n-Oxide (TMAO) on two murine models of acute pancreatitis
17. Age changes in the human stria vascularis
18. Study of the expression of parvalbumin and calbindin in the aging human inferior colliculus
19. Study of morphology of enteric glia in the myenteric plexus of adult human colon
20. Study of the developing myenteric plexus in the human fetus

21. cKIT and cytokeratin19 expression and ultra structural morphology of gastroneuroendocrine tumors
22. Study of association of MMP2 promotor polymorphisms with preeclampsia
23. cKIT and cytokeratin19 expression and ultra structural morphology of gastroneuroendocrine tumors
24. Study of association of MMP2 promotor polymorphisms with preeclampsia
25. Study of morphology of enteric glia in the myenteric plexus of adult human colon
26. Study of the developing myenteric plexus in the human fetus

Collaborative projects

Ongoing

1. Development of 3D/stereoscopy based virtual reality simulation platform for endoscopic neurosurgery training and pre-operative neurosurgical planning, Neurosurgery
2. Retinoblastoma: Genetic and molecular study, RP Centre
3. Genotype and phenotype correlation in POAG, RP Centre
4. Oxidative stress in pathogenesis of PCG, RP Centre
5. YKL40 levels in asthma, Biophysics
6. Levels of oxidative stress biomarkers in follicular fluid of women with PCOs undergoing IVF and its relation to outcome, Obstetrics and Gynaecology
7. Oxidative stress evaluation in amniotic fluid of couples with normal and couples pregnant with fetus with congenital malformation, Obstetrics and Gynaecology
8. Mutation analysis of seven genes (NR5A1, DAX1, DHH, DMRT1, SOX9, SRY, WT1) in patients with gonadal dysgenesis and 46, XY karyotype, Endocrinology
9. Effect of transcranial, magnetic stimulation on pain modulation status in fibromyalgia patients, Physiology
10. Impact of yoga and meditation on epigenome in rheumatoid arthritis, Medicine
11. To study the gene mutations in the patients with 46 XY DSD due to gonadal dysgenesis/agenesis, Endocrinology
12. Impact of YBLI on MDD-RCT, Psychiatry
13. Impact of short term Yoga based intervention in obesity, Physiology
14. Loss of sperm DNA integrity in childhood cancers, RP Centre
15. Yoga and impact on QOL in glaucoma, RP Centre
16. “Yoga Based Intervention” on inflammatory markers and gene expression profile in blood, aqueous and trabecular meshwork of primary open angle glaucoma patients: A randomized controlled trial, RP Centre
17. Evaluation of the effect of mindfulness based stress reduction in patients with advanced primary open angle glaucoma, RP Centre
18. Impact of preoperative steroids on trabeculectomy outcomes: A randomized controlled trial, RP Centre
19. Electroencephalographic changes in early and advanced glaucoma, RP Centre
20. Cytogenetic and molecular analysis in infertility, anatomy, AIIMS, Raipur
21. Role of Ashwagandha in management of infertility, Centre for Ayurveda, Guru Gobind Singh University
22. Genome wide analysis to explore stress, inflammation and cellular aging following short and long term yoga based intervention in obesity and DM, Physiology
23. Phase-III clinical trial with intravasal injectable male contraceptive-RISUG, Biomedical Engineering
24. Identification and characterization of novel genetic variants associated with cardiovascular diseases in diverse ethnic populations of India, Cardiology
25. Impact of advanced paternal age and poor; lifestyle on sperm epigenome: Possible etiology in autism spectrum disorder, Pediatrics
26. Genetic basis of SJS, RP Centre and Dermatology
27. Genetic of posterior polar cataract, RP Centre
28. Congenital adrenal hyperplasia—Psychological assessment, Endocrinology
29. MEN1 gene mutation in patients of primary hyperparathyroidism, pancreatic tumors and pituitary tumors and its clinical implications, Endocrinology
30. Genetics of angle closure glaucoma, RP Centre
31. Genetics of alcohol and drug dependence, NDDTC and Psychiatry
32. Genetics studies in hypophosphatemic rickets, Pediatrics

33. Genetic studies on opioid dependence and self-harm, NDDTC and Psychiatry
34. Genetic studies in recurrent spontaneous abortions, Obstetrics and Gynaecology
35. Role of Hydrogen Sulphide in migration of human trophoblast cells and its impact on placentaion: An in-vitro study, Obstetrics and Gynaecology
36. Radiological and microsurgical comparison of the operative exposures obtained through far lateral and transcondylar approaches in injected cadaveric human heads, Neurosurgery
37. Development of 3D/stereoscopy based virtual reality simulation platform for endoscopic neurosurgery training and pre-operative neurosurgical planning, Neurosurgery
38. Neurosurgery skills training facility with 3D endoscopic and 3D microscopic facility and central repository server for archival, streaming and teleconferencing—FIST DST FIST Program DST FIST Level 2, Neurosurgery
39. Support to Indian Institutes to Conduct Training Programme in the area of Operational Research Neurosurgery Skills Training, Neurosurgery
40. Evaluation of developmental of neurosurgery skills by hands on skills training and modules, Neurosurgery
41. Study on the effect of Hydrogen Sulphide on migration and invasion potential of trophoblast cell, Obstetrics and Gynaecology
42. Role of miR-22 and Hydrogen Sulphide in mediating trophoblast invasion and its impact on placental anomalies seen in preeclampsia, Obstetrics and Gynaecology
43. Organization of the developing myenteric plexus in midgut, hindgut and ileocecal valve in humans, Obstetrics and Gynaecology
44. Simple, quick and onsite early diagnostic kit for pathogen detection in asymptomatic stage, National Institute of Plant Genomic Research, New Delhi
45. A novel Immuno Nano Fluorescence Assay (INFA) system for noninvasive detection of prostate cancer using urine based protein biomarkers, PSA and MSMB, Pathology

Completed

1. Evaluation of development of neurosurgery skills by hands on skills training and interactive virtual training modules (web based, tele-education and real time evaluation), Neurosurgery
2. Genetic studies in LHON, RP Centre
3. Genetic studies in congenital cataract, RP Centre
4. Effect of dexamethasone and infliximab on the severity of L-arginine induced murine experimental acute pancreatitis, GI Surgery

PUBLICATIONS

Journals: 34

Abstracts: 24

PATIENT CARE

Genetic Diagnostic and Counselling Services

Karyotyping	742	Seminal ROS	462
Yq microdeletion analysis	106	Chromosome analysis	470
Molecular screening	230	Miscellaneous cases	61

Embalming of Dead Bodies

For transportation	640	For teaching/research	25
Soft embalming	27		

The department has performed soft embalming for the following cadaveric workshops

Cadaveric workshop (Course)	Specialty
Ortho: Pelvic and Acetabular	Orthopedic
Plastic Surgery	Plastic Surgery
AO Spine	Neurosurgery
Foot and Ankle	Orthopedics
Navigated Univation X (Unicondylar) Knee Course	Orthopedics
ENT Head and Neck Course	ENT
Neurosurgery Endoscopy	Neurosurgery
Pain Management	Anesthesia

Cadaveric workshop (Course)	Specialty
Neurosurgery Skull Base	Neurosurgery
Minimally Invasive Surgery	Neurosurgery
Orthopedics All Insice ACL and Meniscal Repair	Orthopedics
Spine Open	Neurosurgery
ANTC (BPI And Endoscopy)	Neurosurgery
IASA	Orthopedics
Head and Neck Course	ENT
Fracture Around the Knee	Orthopedics
Airway management	Anesthesiology
AIIMS Ultrasound Guided Regional Anesthesia (AURA)	Anesthesia
Surgery	Surgery
ISIC-Shoulder, Foot and Ankle Course	Orthopedics
CME Gynae Oncology	Gynae
ISSP Pain Course	Anesthesia
Modular Hip Arthroplasty (S Room) Masters Course	Orthopedics
Facial Plastics and Rhinoplasty Cadaveric Workshop	ENT
Functional Endoscopic Sinus Surgery	ENT
AIIMS Cadaveric Arthroscopic Rotator Cuff Repair	Orthopedics
AIIMS Cadaveric Thoracic Surgery Course (ACTC)	Surgery

Fluorosis Diagnostic Laboratory: Fluoride estimation

Urine	34	Blood/serum	32	Drinking water	40
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AWARDS, HONOURS AND SIGNIFICANT EVENTS

The students of the department received several awards for their research work. Two students received the IBRO Travel Grant (Indra Pal and Ranjan Gupta), one student was awarded the prestigious 2017 ECIP Travel Grant (Ranjan Gupta). Another student was awarded an externship in a lab along with a Travel Grant (Indra Pal). Students were also awarded the Dr T. Kodandaramaiah Memorial Gold Medal (Dr Parul Kaushal) for the best poster, the Dr Dharam Narayan Gold Medal (Dr Sankat Mochan) and Dr G P Talwar Gold Medal (Dr Sankat Mochan) for the best oral presentation. Apart from these, the students were also recipients of the ASA Travel Award (Surbhi Gautam) and numerous International Travel Grants by the Indian Council of Medical Research (ICMR) (Shlipa Bhisht, Tripti Grover) and Council for Scientific and Industrial Research (CSIR) (Shubhi Saini, Tripti Grover and Renu Singh).

Professor T.S. Roy continued as nominated member of the editorial board of the following journals: Journal of the Anatomical Society of India, Medicine. He continued as associate editor of the journal Pancreas. He is Central Public Information Officer (CPIO) for disclosure under RTI for Anatomy Department; he was Chairperson, Store Purchase Committee, DO, AIIMS, Institute Animal Welfare Committee, MBBS Curriculum Committee; he was Co-Chairperson, Institute Animal Ethics Committee; he was Member of the PhD Reforms Committee, Hospital Management Committee, Staff Council, Institute Day Celebration Committee, Centralized Core Research Facility and Anti Ragging Committee of AIIMS, member Core Committee for AIIMS Convocation, member of Cultural Committee of AIIMS. He was paper setter for MD Anatomy Gujrat University, for PhD course at National Brain Research Center (NBRC) Manesar; he was paper setter and external examiner for MD Anatomy Course at Delhi University, external examiner for 1st MBBS at AIIMS Rishikesh and North DMC Medical College and Hindu Rao Hospital, Malka Ganj, Delhi. He was external expert for selection of faculty members at AIIMS Jodhpur, PGIMER, Chandigarh, AIIMS Rishikesh, ESIC Medical College, Hyderabad, JIPMER, Puducherry and State Medical Institute, Gautam Budh Nagar, Greater Noida. He was reviewer for 16th Edition of Cunningham's Manual of Practical Anatomy (3rd Volume); ad-hoc reviewer for the journal, Pancreas, Journal of Anatomy, Journal of Anatomical Society of India and International Journal of Experimental Pathology. He was invited as member of the Prize Award Committee of AIIMS Postgraduate Clinical Thesis; Judge for poster session at 35th National Conference of the Indian Academy of Neuroscience; Cuttack, Odisha, judge for Young Anatomist Forum at 12th Annual Conference of North State Chapter of Anatomical Society of India, Jolly Grant, HIMS, Dehradun, poster session World Neurocongress, Aligarh; he was chairperson in the scientific session 56th Annual Conference of Anatomical Society of India, Raipur and was invited speaker scientific session in the Annual Conference of the Anatomical Society of India. Chaired Scientific Session SYSCON, AIIMS, New Delhi. Member of Selection Committee for Selection of Senior Demonstrator in Anatomy at University College of Medical Sciences, New Delhi, Maulana Azad Medical College, New Delhi. Conducted the Comprehensive Viva-voce

examination for PhD students at National Brain Research Centre, Manesar, Haryana, as external examiner. Conducted the practical examination and theory paper evaluation of Anatomy for 1st Professional and BSc (Hons.) Nursing examination at AIIMS, Rishikesh, as external examiner. He was an invited speaker in International Conference on Translational Neuroscience IAN-2017 at Cuttack, Odisha. He attended and presented poster at the Society for Neuroscience (SFN) Conference at Washington, DC, USA. He chaired session at the World Neurocongress-2017 at Aligarh Muslim University, Aligarh. He was visiting faculty in the MSc Neuroscience Program at Jiwaji University, Gwalior, Madhya Pradesh. He was member of Board of Studies in Anatomy, JN Medical College, Aligarh.

Professor A Shariff has been member of the Governing Body of the Goutam Budh Institute of Medical Sciences (GIMS), Greater Noida, UP, India. He is a member of the Departmental Promotion Committee, Member of Ethics Committee and Member of Library Committee. He is the Chairman, Committee for Procurement of IT Equipment for Exam Section, Store Purchase Committee for the Center for Dental Education and Research (CDER), Chairman, Telemedicine Facility and Professor-in-Charge of Computer Facility.

Professor P Dhar was elected as a fellow of the National Academy of Medical Sciences (India). She is a member of Board of Studies for MSc and MD (Anatomy) in Hamdard Institute of Medical Sciences and Research (HIMSAR). She is a member of Expert Committee for Selection of Senior Research Associates (Pool Scientists) in Medical Sciences by Human Resource Development Group, CSIR. She has been elected the national editorial board member of Journal of Forensic Medicine and Toxicology (JFCT). Her student was awarded a gold medal in Neuro-anatomy at the Anatomical Society Meet of India.

Professor SB Ray is a visiting faculty for MSc Neuroscience Course at Jiwaji University, Gwalior. He acted as the external examiner for regular and supplementary 1st Professional MBBS Examination in Anatomy at AIIMS, Bhubaneswar. He has obtained life membership of Northern States Chapter of Anatomical Society of India.

Professor Rima Dada and her students were awarded for their paper MSI-link between infertility and cancer by American Congress of Andrology at its annual meeting at Miami, USA; nominated as a fellow of The International Medical Science Academy and was also nominated by MCI and Accreditation Council for assessment and accreditation and academic audit of medical colleges; nominated as the in charge of Special Interest Group on Holistic Medicine by President of Indian Fertility Society; conducted Precongress Workshop on Holistic Medicine its role in reproductive health problems at Ferticon (Annual meeting of IFS); chaired session in 6 conferences; member of Expert Committee to Review Proposals for DM in Medical Genetics; selected as an editorial board member of 12 journals. She was expert editor for IJSR Journal in Health and Environmental Sciences Section; Jury member for Medical Research Council Fellowships, Edinburgh and for Royan International Research Awards in Reproductive Biomedicine and Stem Cells, Iran; member of ICMR task force on male infertility; reviewer of several journals; reviewed projects for DBT, ICMR, Indo-US Technology Forum and Wellcome Trust and member ICMR Expert Committee Meeting to Establish Centers for Advanced Research; evaluated 7 MD and 5 PhD thesis in genetics and was external examiner for PhD thesis in genetics; member Core Committee for AIIMS Convocation, Committee for Selection of DMA Medal for the year, member of Institute Biosafety Committee on Recombinant DNA Research, Member Institute Committee to Look at Improvement of Standard of Research Activities in Autonomous Institutions; member of Board for Framing Guidelines for PhD and PGs and determining faculty strength in various departments; faculty in charge students' union elections; member of the Undergraduate Curriculum Committee; invited for senior resident and faculty selection to various medical colleges; nominated by National Board of Examinations for Validation of Question Bank and also member of their various committees; member of Consultative Meeting on "Discussions for job roles for IVF/ART" organized by the Healthcare Sector Skill Council (HSSC), New Delhi; external faculty for genetics at Hamdard Institute of Medical Sciences, and Durgabhai Deshmukh College; participated in a documentary on impact of lifestyle and nutrition on health entitled "Meat kills-The evidence; her students selected for prestigious 68th Lindau Nobel Laureate Meeting in Germany and DST-DFG Programme to visit German research institutes and universities and also for Newton Bhabha PhD placement fellowship provided by British Council and DBT.

Professor Arundhati Sharma was appointed as an external expert for Faculty Selection in Genetics; examiner to viva-voce examination and continues to serve as one of the experts of the Metabolism and Molecular Research Society for mapping various genetic diseases prevalent in the northern part of India and to create a database of the common and rare mutations in this region. She also acted as an external examiner for PhD thesis and viva. She has reviewed several papers from national and international journals and reviewed projects from different funding agencies. She continues to be the external faculty for genetics at the Department of Molecular Human Genetics, Jiwaji University, Gwalior. She is a departmental counselor for the Student Mentorship Program and member of Anti-ragging Squad. Her students were awarded the prestigious 2017 ECIP Travel Grant to attend and present his work in Orlando and Travel Grants from ICMR, CSIR to present their work in International fora at Malaysia and France.

Professor Renu Dhingra was the Chairperson in Scientific Session in 65th National Conference of Anatomical Society of India, held at Pt. J N M Medical College, Raipur, Technical Advisor-Anatomy Musculoskeleton Ultrasound Society.

Continue to be the member of International Society of Plastination, executive member of DASMOS and member of Teaching Schedule Committee of AIIMS, member of the Academic Advisory Panel for virtual teaching in AIIMS, faculty In Charge Departmental Stores, external examiner for MTR Course at NDMC Hindu Rao Hospital and BDS Course at Maulana Azad Medical College. Expert for faculty selection of various government colleges. Reviewed projects from ICMR, postgraduate thesis from other medical colleges, research articles submitted to various journals.

Professor TC Nag reviewed manuscripts for Exp Eye Res, Biomedicine and Pharmacotherapy, Microscopy and Micro-analysis, and DST-SERB research projects for financial support. He was nominated as executive committee member to Electron Microscope Society of India for the period 2017-18.

Professor Ritu Sehgal was a member of the Medical Writers Group, Institute Day Exhibition Sub-Committees and of the Advisory Council of the AIIMS Student's Union Elections. She is currently involved in editing and writing anatomy textbooks as part of the Medical Writers Group, having completed editing the chapter 'Abdomen' in the First South Asia Edition of 'Gray's Anatomy for Students'. She served in the following capacities during the year under review: Central Assistant Public Information Officer (CAPIO) designated for Anatomy Department under Right to Information Act, 2005; Departmental counselor for the Student Mentorship Program; Member of Anti-Ragging Squad.

Dr Saroj Kaler Jhjhria was member, International Association for Study of Pain (IASP); Inspector of various Centers for Examination Section, AIIMS, New Delhi; continues to be a member of the Editorial Board of Indian Journal of Anatomy and Surgery of Head, Neck and Brain, member of the MBBS Curriculum Committee, member faculty for Institutional Anti-Ragging Squad. Her work was accepted for presentation in the 2018 Annual Meeting Planning Committee North American Neuromodulation Society at Caesars Palace in Las Vegas, Nevada. She has reviewed a thesis from Dharan Medical College, Nepal, has judged various events for Pulse organized by undergraduate students at AIIMS. She has helped to edit/revise two chapters in the first South Asia Edition of Gray's Anatomy for Students.

Dr Tony George Jacob was the AIIMS representative for AIIMS PG and UG Entrance Examination. He continues to be member of Editorial Committee for compilation of the AIIMS Annual Report and Reviewer for Scientific Reports, Pan-creatology, Medicine, Journal of Chemical Neuroanatomy, the National Medical Journal of India, Journal of Anatomical Society of India, Anatomical Sciences Education, Clinical Anatomy and International Journal of Experimental Pathology. He is a member of the Store Purchase Committees for the Departments of Anatomy, Microbiology and Central Animal Facility. He is also a member of the core committee for the setting up the Central Core Research Facility at AIIMS and the committee to start Human Thiel Cadaver Program at AIIMS, New Delhi for training in various surgical disciplines. He has set questions for the National Board of Examinations and evaluated their answer scripts. He was a judge for various events for the annual national conference of the Society for Young Scientists and the National Festival Pulse organized by undergraduate students at AIIMS, New Delhi.

Dr Neerja Rani served as an external examiner at the HIMSR Jamia Hamdard and PGIMS, Rohtak to conduct practical and viva-voce examination. She is a guest faculty at Jiwaji University, Gwalior for MSc Neuroscience Course. She was nominated a judge for poster competition at VMMC-New Delhi. She has participated in the workshop on 12th International Interim Conference/Workshop on Plastination, Durban, South Africa. Participated and contributed in organizing a workshop on Cadaveric Advanced Ultrasound Guided Regional Anesthesia (C-AURA) ICCES-BAPA Course, March, 2018. Reviewed Cunningham's Manual of Practical Anatomy (Volume 2).

Dr Seema Singh reviewed the articles of Journal of Human Anatomy, is a visiting faculty at Jiwaji University, Gwalior for MSc Neuroscience Course; Member of editorial board of the Human Anatomy Open Access Journal. She was nominated a judge for poster competition at VMMC-New Delhi. She has participated in the workshop on 12th International Interim Conference/Workshop on Plastination, Durban, South Africa. Participated and contributed in organizing a workshop on Cadaveric Advanced Ultrasound Guided Regional Anesthesia (C-AURA) ICCES-BAPA Course, March, 2018.

VISITING SCIENTIST

Dr Steven M. Erde, PhD, MD, Chief Information Officer, Assistant Professor of Oral Health Informatics, Columbia University College of Dental Medicine and Dr Bernd, Course director of Anatomy at Columbia University visited the department on 28 December 2017. They visited the Dissection Hall, plastination facility and various research laboratories. Dr Bernd demonstrated the electronic dissector developed by her at Columbia University and also discussed the anatomy curriculum and the undergraduate evaluation system being followed in AIIMS.

9.3. Biochemistry

Professor and Head

S.S. Chauhan (up to 28.12.2017)

Subrata Sinha (from 29.12.2017)

Professors

M.R. Rajeswari
Alpana Sharma

P.P. Chattopadhyay

Kalpna Luthra
Kunzang Chosdol

Associate Professors

Sudip Sen

Archana Singh-I

Assistant Professors

Archana Singh-II
Ashok Sharma
Rakhee Yadav

Jayanth Kumar P
Pragyan Acharya

Subhradip Karmakar
Riyaz Ahmad Mir
Pramod Kumar Gautam

HIGHLIGHTS

- **36 research projects** are ongoing in the department funded by various national and international agencies such as DBT, DST, ICMR, DRDO, UGC (ePG-Pathshala), Indo-Austrian, Wellcome Trust, Ministry of AYUSH and Intramural AIIMS, amounting to **Rs. 16.5 crores** and **10 research projects (Rs. 1.7 crores)** were completed this year.
- **43 departmental projects** and **41 collaborative projects** are ongoing with different faculty of the department.
- **48 research publications** and **8 abstracts** published in indexed National and International Journals.
- **33 Invited talks** were delivered by the faculty and **49 research papers** were presented by faculty/research students (oral/poster) at various national and international scientific forums.
- Three faculty members received **AIIMS Excellence Award-2017**.
- **US patent PCT/IB2014/061350** on Placental like alkaline phosphatase (PLAP) promoter mediated cell targeting was awarded (US Patent number US 9,868,960 B2).
- Faculty and students received various awards and prizes for oral presentations along with travel grant at various national and international conferences.
- 9 MSc, 13 MD, 8 SR and 22 registered PhD students are working in the department.
- The coursework for MD and MSc students teaching curriculum was further expanded to add more advanced classes in various topics encompassing the current advances in research.
- Department organized a Symposium on **World Immunology Day** on 29 April 2017 at AIIMS, New Delhi.
- Department is providing **clinical services** to the patients and performed different tests in total of **11,317 samples**.

EDUCATION

Undergraduate

The department conducted UG teaching program which includes MBBS (two semesters), Nursing (one semester) and BSc (Hons) Nursing (one semester). Upgradation of undergraduate manual and introduction of new practical on “clinical applications of gas chromatography” have been done.

Postgraduate

These include 9 MSc and 13 MD students. The department also has 22 PhD students. There are two DST women scientists and three N-PDF working as post doctoral students.

The postgraduate teaching curriculum was further expanded to add more advanced classes in the Molecular Biology, Cell Biology, Cell signaling and Immunology modules. More critical analysis sections have been added where the students present a research article pertaining to the module which was taught. They discuss the pros and cons of the techniques and the statistical analyses used in the paper which improves their analytical research ability.

New cases have been included in the ‘Clinical Case Discussion’ section where the Junior and Senior Residents present a particular patient’s clinical and laboratory findings over time which is followed by an in depth discussion about the diagnostic tests, quality control as well as the management of the patient. Six postgraduate students received training of

various techniques of Molecular Biology and Immunology.

Dr Subrata Sinha joined back after being away on deputation as Director, National Brain Research Centre, Manesar, on 29 December 2017. On return he is continuing with research on the molecular biology of human glioma as well as the genetics of dyslexia.

Prof. MR Rajeswari has successfully contributed to the reputed Digital India initiative in education, the National Mission on Education through Information & Technology (NME-ICT), Ministry of Human Resource Development (MHRD) on “Development of e-Content for the subject Biophysics for “e- PG PATHSHALA” (2017).

Prof Kalpana Luthra was facilitator in four workshops on CMET Training entitled “Microteaching for Newly Joined Faculty”, Second micro teaching workshop and Basic course workshop in Medical & Health Professions educations held at CEMET, AIIMS, New Delhi. She was guest lecturer to teach a course on immunology to MSc students in the University of Delhi, South Campus.

Conference Organized

- A Symposium on World Immunology Day on 29 April 2017 was organized by the department (Prof Alpana Sharma) at AIIMS under the auspices of Indian Immunology Society.

CMEs/Workshops/Symposia/National and International Conference

Lectures delivered

Shyam S. Chauhan

1. Cathepsin L promoter hypermethylation in chronic myeloid leukaemia down regulates its expression and alters the prognosis of the disease in blast crisis, National Seminar on Biotechnology in Health Care: Challenges and Opportunities, 18-19 March 2017, Department of Biotechnology, Jamia Hamdard, Hamdard Nagar, New Delhi
2. Cathepsin L and B as Potential Markers for Liver Fibrosis—Insights from Patients and Experimental Models, 44th Annual Conference of Clinical Biochemists of India, 4-6 December 2017, Department of Biochemistry, King George Medical University, Lucknow, UP

MR Rajeswari

1. Cell-free circulating micro RNAs as potential biomarkers for Friedreich’s ataxia, Indian Science Congress, 16-19 March 2018, Manipur University, Kanchipur, Imphal
2. DNA-triplex forming purine repeats in *Acinetobacter baumannii* genome and Their Association with Infection and Adaptation, World Congress on Genetics, Genomics and Personalised Medicine, 15-17 November 2017, Indian Institute of Science, Bangalore

Kalpana Luthra

1. Characterization of immune response in HIV-1 infected individuals and generation of anti-HIV-1 human monoclonal antibodies, Expert Lecture series under TEQIP III grant, University Institute of Engineering & Technology, 29 September 2017, University Institute of Engineering & Technology, Punjab University, Chandigarh
2. Attributes of good MCQs & Construction, 30th Annual ISDR Conference,, 30 September 2017, Centre for Dental Education and Research, AIIMS, New Delhi
3. Immunopathogenesis of HIV-1 infection and characterization of antibody responses in Indian subtype-C infected individuals, National Seminar on Recent Advances in Antiviral Drug Design against Emerging and Re-emerging Viral Diseases, 24 to 25 October 2017, Kalasalingam University, Krishnakoil, Tamil Nadu
4. Basics in the clinical laboratory 1: Fundamentals of laboratory technology and quality control. How a laboratory manages assays, ensures quality control, AIIMS-UM Research Methods Course, 17 November 2017, AIIMS, Bhubaneswar
5. Generation and characterization of Anti-HIV- 1 human recombinant monoclonals, 44th Annual Conference of Clinical Biochemist of India (ACBICON-2017), 5 December 2017, King George’s Medical University, Lucknow
6. Infectious disease and Immunity, Lecture Workshop titled “Ingenuity in Biological Sciences,” 11 January 2018, Gargi College, New Delhi
7. Immunopathogenesis of HIV-1 infection and generation of anti-HIV-1 recombinant monoclonal antibodies as potential candidates for passive immunotherapy, Trends and Challenges, 31 January – 1 February 2018, Zakir Husain Delhi College, New Delhi
8. Generation and characterization of human anti-HIV-1 recombinant scFv monoclonals, Seminars in molecular medicine & biotechnology, 20 February 2018, AIIMS, New Delhi

Alpana Sharma

1. Flow cytometry and its applications in Biomedical Research, National Workshop on 'Advancement in Immunology' jointly organised by VPCI and Indian Immunology Society, 12-13 October 2017, VP Chest Institute, Delhi University, Delhi
2. Clinical significance of HMGB1 expression and its associated molecules in cervical cancer, ESGO-2017, 4-7 November 2017, Convention Centre, Vienna, Austria
3. Regulation of signalling cascade by CD44 variants display promising therapeutic potential in Urothelial carcinoma of Bladder, 44th National Conference of Association of Clinical Biochemists of India—ACBICON 2017, 3-6 December 2017, KGMU, Lucknow
4. The sentinel of innate immune cells and their functional outcome in the immunopathogenesis of vitiligo, IMMUNOCON-2017, 14-16 December 2017, Nirma University, Ahmedabad
5. Herbal formulations: Emerging adjuvant therapies in hematological malignancies, International Conference on Unani Medicine, 10-11 February 2018, NASC Complex, PUSA, Delhi
6. Significance of antioxidants and minerals in food, Seminar on International Women's Day, 8 March 2018, Jamia Hamdard, Delhi

Kunzang Chosdol

1. Oncogenic role of FAT1 gene in human glioblastoma, WORLD NEUROCONGRESS - 2017, 9-10 December 2017, JNMC, Faculty of Medicine, Aligarh Muslim University, Aligarh, UP.

Sudip Sen

1. Degenerative Diseases and role of stem cell therapy, Invited Lecture, 22 February 2018, SCMM, JNU, New Delhi

Archana Singh II

1. Role of nitric oxide in innate immunity in Tuberculosis, IMMUNOCON 2017, 14-16 December 2017, Nirma University, Ahmedabad
2. Role of Vitamin D and its associated molecules in innate immunity in pulmonary Tuberculosis as compared to household contacts, ACBI 2017, 3-6 December 2017, KGMU, Lucknow

Subhradip Karmakar

1. TET2 proteins in Myeloid leukemia, EMT Indo Australia Meeting, 5-7 October 2018, IISC Bangalore, Bengaluru, Role of dietary factors in cancer, International Conference on Nutrition and Genetic Epidemiology, 6-8 November, Sri Lanka, Colombo

Ashok Sharma

1. Developing the Cancer Testis/Germline based Prognostic and Diagnostic Biomarker and Cyber Infrastructure for Early Detection of India Centric Cancer, EDRN International Forum Opportunities, Priorities and Collaboration 10th EDRN Scientific Workshop, 6-8 March 2018, Bethesda, USA
2. Epigenetic alterations and Cancer Testis/Germline POTE antigen activation in Epithelial Ovarian Cancer, Symposium on Accelerating Biology 2018: Digitizing Life, 9-11 January 2018, Centre for Development of Advanced Computing (C-DAC), University of Pune, Pune
3. Indian Health Policies (Participate in public discussion), Healthcare Conclave, 14 November 2017, New Delhi
4. Mendelian Randomization and Epigenetic Cancer Epidemiology Workshop, University of Bristol and the US National Cancer Institute, 9-13 October 2017, TMC, ACTREC, Mumbai
5. Introduction to Epigenetics (Plenary Lectures), Department of Biochemistry, Deshbandhu College organized its Annual Departmental Fest-Biospark 2017, 25 October 2017, Deshbandhu College, Delhi
6. Genome-Wide DNA Methylation & Genomic Instability Profiling and Evaluating Its Potential as a Biomarker and Immunotherapeutic Target for Ovarian Cancer, 7th Ramalingaswami Conclave, 29-31 August 2017, Institute of Bioresources & Sustainable Development (IBSD), Imphal, Manipur
7. Indian Health Policies (Participate in public discussion), Healthcare Conclave, 14 November 2017, New Delhi
8. Mendelian Randomization and Epigenetic Cancer Epidemiology Workshop, University of Bristol and the US National Cancer Institute, 9-13 October 2017, TMC, ACTREC, Mumbai

Dr Pragyan Acharya

1. Mentoring Experience at AIIMS, VMMC- AIIMS Faculty Mentor Sensitization, 25 October 2017, VMMC & Safdarjung, New Delhi

Dr Riaz Ahmad Mir

1. HPV E6 blocks Ecdysoneless (ECD), a “Bypass” for the recruitment of clients of R2TP complex, 44th National Conference of Association of Clinical Biochemists of India (ACIBICON 2017), 5 December 2017, KGMU, Lucknow

Oral Papers/Posters Presented

1. Mehra S, Panwar R, Thakur B, Kumar M, Singh R, Yadav R, Sahni P, Chauhan SS, Significance of Cathepsin B in Gallbladder Carcinogenesis, International Symposium on Proteases and Tumor Microenvironment, 24-26 July 2017, Monash University, Prato, Italy
2. Manchanda M, Das P, Gahlot G, Singh R, Roeb E, Roderfield M, Gupta S, Saraya A, Pandey RM, Chauhan SS, Cathepsin L and B as Potential Markers for Liver Fibrosis: Insights from Patients and Experimental Models, 10th General Meeting of the International Proteolysis Society, 28 October-1 November 2017, Banff, Canada
3. Hina Sharma, Rajeswari R. Moganty, Rohit Bhatia, Nand Kumar, Vishnu Sreenivas, M.V. Padma Srivastava, Role of rTMS in Ischemic Stroke recovery: A Clinical and growth factor estimation study, 10th World Congress on Neurorehabilitation, 7-10 February 2018, Mumbai Convention Centre, Mumbai
4. Moganty R. Rajeswari and Himanshu N. Singh, *Acinetobacter baumannii* genome containing DNA repeat sequences and their implications in drug resistance, 2018 Keystone Symposia Conference: Microbiome, Host Resistance and Disease, 4-8 March 2018, Banff, Canada
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21. Das D, Santosh V, Sharma A, Surveying the role of Dendritic Cells and its co-stimulatory markers in the immunopathogenesis of Pemphigus Vulgaris, IMMUNOCON 2017, 14-16 December 2017, Nirma University, Ahmedabad
22. Santosh V, Das D, Sharma A, Role of Gamma Delta T cells in Immunopathogenesis of Vitiligo, IMMUNOCON 2017, 14-16 December 2017, Nirma University, Ahmedabad
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25. Srinivas H, Nargis Malik, Yakhlesh Gupta, Chitragda Srivastava, Akanksha Kanojia, Parthaprasad Chattopadhyay, Chitra Sarkar, Ashish Suri, Deepak K. Gupta, Subrata Sinha & Kunzang Chosdol, Interaction of FAT1, HIF1 α and p53 in Glioma Progression, Hypoxia Meet, 29 January 2018, IIT Delhi, Delhi
26. Akanksha Kanojia, Safoora Rashid, Khushboo Irshad, Nargis Malik, Chitragda Srivastava, Srinivas H Gowda, Yakhlesh Gupta, Parthaprasad Chattopadhyay, Anoop Saraya, Nihar Ranjan Dash, Kunzang Chosdol, A positive correlation between the expression of FAT1 and pro-inflammatory markers in periaureicular carcinoma, Symposium on Coagulation Disorders and Metabolic Targets of Anti-Platelet Therapy: An Update, 11 November 2017, Maulana Azad Medical College, Delhi
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30. Khushboo Irshad Chitragda Srivastava Nargis Malik Chitra Sarkar Deepak Gupta Ashish Suri Parthaprasad Chattopadhyay Subrata Sinha Kunzang Chosdol, Association between the Expression of FAT1 and Anti-Inflammatory Signaling Molecules in Human Glioma, 22nd Annual Scientific Meeting and Education day of the Society for Neuro-Oncology, 16-19 November 2017, Marriott Marquis, San Francisco, California
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33. Manhas J*, Bhattacharya A, Bhat MA, Agrawal SK, Das P, Pal S, Deo SVS, Ghosh D, Sen S, Differential gene expression signature of cancer stem cells in human colorectal cancer, ISSCR Annual Meeting, 2017 (Poster), 14-17 June 2017, Boston, MA, USA

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35. Suparna Ghosh-Jerath, Suruchi Gupta, Preeti Kamboj, Archana Singh, Contribution of indigenous foods to diet quality and nutritional status of under 5 years old children of Santhal tribal community of Jharkhand, 49th Annual National Conference of Nutrition Society of India, 3 November, Assam Agricultural University, Jorhat, Assam
36. Vinnyfred Vincent, Himani Thakkar Sandeep Aggarwal, Asit Ranjan Mridha, Lakshmy Ramakrishnan, Archana Singh, Obesity and insulin resistance is associated with lower ATP binding cassette transporter A1 (ABCA1) expression in visceral adipose tissue, 85th EAS Congress, 25 April, Convention Centre, Prague, The Czech Republic
37. Himani Thakkar, Vinnyfred Vincent, Ambuj Roy, Sandeep Singh, R Lakshmy, Archana Singh, Comparison of HDL functionality in Acute Coronary Syndrome and Stable Coronary Artery disease subjects, 30th Annual Conference of Indian Society for Atherosclerosis Research: ISARCON-2017, 3 November, AIIMS, Patna
38. Palanichamy JK, Sharma G, Bobby E, Jain A, Chattopadhyay P, Chopra A and Bakhshi S, *Deciphering the role of IGF2BP1 in ETV6-RUNX1 positive leukemia*, EMBO/EMBL Symposium: From Single- to Multiomics: Applications and Challenges in Data Integration, November 2017, EMBL (European Molecular Biology Laboratory), Heidelberg, Germany
39. Sharma G, Bobby E, Jain A, Chattopadhyay P, Chopra A Bakhshi S and Palanichamy JK, *Investigating the link between C-MYC levels with IGF2BP1 expression in B-Acute Lymphoblastic Leukemia*, Wellcome Trust-DBT India Alliance Student Research Symposium, November 2017, IIT (Indian Institute of Technology), Chennai
40. Bobby E, Sharma G, Jain A, Mudassir M, Chattopadhyay P, Chopra A, Bakhshi S and Palanichamy JK, *Novel biomarker to diagnose ETV6-RUNX1 translocation in B-cell Acute Lymphoblastic Leukemia*, ESMO (European Society for Medical Oncology) – Asia 2017 Congress, November 2017, Suntec Singapore Convention & Exhibition Centre, Singapore
41. Sharma G, Bobby E, Jain A, Chattopadhyay P, Chopra A, Bakhshi S and Palanichamy JK, *The nexus between C-MYC and IGF2BP1 in B-Acute Lymphoblastic Leukemia*, ACBICON 2017 (Association of Clinical Biochemists Conference), December 2017, King George Medical College, Lucknow
42. Goswami S, Sharma G, Bobby E, Chattopadhyay P and Palanichamy JK, *Role of IGF2BP3 in migration and invasion of epithelial cancer cell lines*, ACBICON 2017 (Association of Clinical Biochemists Conference), December 2017, King George Medical College, Lucknow
43. Sharma G, Bobby E, Jain A, Chattopadhyay P, Chopra A, Bakhshi S and Palanichamy JK, *ETV6 as a regulator of the IGF2BP family of RNA binding proteins in Acute Lymphoblastic Leukemia*, IACR 2018 Annual Conference (Indian Association for Cancer Research), February 2018, Bose Institute, Kolkata
44. S Karmakar and Ruby Dhar, FBXO4 as a novel target in Breast Cancer, WCC 2018, 4-6 February 2018, MGM, Jaipur
45. S Karmakar and Ruby Dhar, DOCK4 in pathogenesis of MDS, Stem Cell and Cancer, 5 February 2018, Mumbai
46. #Ashok Sharma, Mohit Arora, Amit Saxena, Abhishek Shankar, Haresh KP, Subhas Gupta, Lalit Kumar, Sandeep Mathur, Sunesh Kumar, J.B Sharma, P.Vanamail, Sushil Mehre, Ravi Chamaria, Anil Srivastava, Adam R Karpf, A.Shariff, *G.K Rath, Developing the Cancer Testis/Germline based Prognostic and Diagnostic Biomarker and Cyber Infrastructure for Early Detection of India Centric Cancer, 10th EDRN Scientific Workshop, 6-8 March, 2018, Bethesda, USA
47. Riyaz A Mir, Ying Zhang, Hamid Band, Vimla Band, HPV E6 blocks Ecdysoneless (ECD), a “Bypass” for the recruitment of clients of R2TP complex, 44th National Conference of Association of Clinical Biochemists of India (ACBICON 2017), 3-6 December 2017, KGMU, Lucknow
48. Eram H Pasha, Rakhee Yadav, Sanjiv K Bansal, ArunaBatra, Study of body iron status in young healthy non-pregnant females, 25th Annual Conference of Association of Medical Biochemists Of India, 17-19 November 2017, Convention Centre, Mysuru
49. Gautam PK, Biosynthesis and characterization of gold nanoparticles using ocimum sanctum (tulsi leaf extract) and evaluating anti tumor activity in Dalton lymphoma cell lines, 44th Immunocon 2017, 14-16 December 2018, Nirma University, Gujarat

* PhD Student Sanjeev Kumar got SERB-DST International travel grant and Travel Bursary from Immunology Foundation.

** PhD Student Sanjeev Kumar won 1st prize for Best Oral-Presentation.

*** PhD Student Sanjeev Kumar won 1st prize Prof. L.M. Srivastava Gold-Medal Award for Best Oral-Presentation.

PhD Student Nitesh Mishra won the 3rd prize for Oral Presentation and Raman Kumar has received Best Oral Presentation award.

* Dr Janvie Manhas was selected for the **ISSCR travel award** to attend the ISSCR Annual Meeting at Boston, MA, USA.

RESEARCH

Funded projects

Ongoing

1. Rational strategies for tackling hypoxia induced adverse phenotype and therapeutic resistance in neoplasia using a glial tumour model, Subrata Sinha, DST, 5 years, 2017-2022, Rs 98 Lakhs
2. Identification of Novel Blood Based Biomarkers for Early Detection of Human Gallbladder Cancer, Shyam S Chauhan, DRDO, 3 years, 2017-2020, Rs 46.61 Lakhs
3. Study the role of regulation of human heterogenous ribonucleoprotein D expression in oral carcinogenesis, Dr Shyam S Chauhan, Department of Science and Technology, Govt. of India, 3, 2016-2019, 71.72 Lakhs
4. PG athshala eContent Biophysics, Dr M.R. Rajeswari, University of Grant Commission (UGC) & MHRD, 2, May 2015-July 2018, 98 Lakhs
5. Plasma circulating DNA in mitochondrial the assessment of Friedreich's Ataxia (FA), Dr M.R. Rajeswari, ICMR, 2, 2017-2019, 34.59 Lakhs
6. Assessment of Anticancer effect of Triplex Forming Oligonucleotides (TFOs) on the Expression of HMGB1 in Hepatoma using Animal model system, Dr M.R. Rajeswari, DST, 3, 2017-2020, 63.14 Lakhs
7. Neurodegeneration with Brain Iron Accumulation: Iron-biomarker and therapeutic options, Dr M.R. Rajeswari, International Collaboration India-Austria via DST-WTZ, 2, 2017-2019, 18.85 Lakhs
8. Interaction between nanoparticles and cancer cells in context of hypoxia and stemness and invasiveness characteristics, Dr P Chattopadhyay, DST, 3, 2017-2020, 80 Lakhs
9. Isolation and characterization of human monoclonal antibodies from memory B cells of HIV-1 infected children, Dr Kalpana Luthra, DST, 3, 2016-2019, 63 Lakhs
10. Isolation and characterization of monoclonal antibodies from HIV-1 subtype C infected individuals (Indo South Africa collaboration Project), Dr Kalpana Luthra, DBT, 3, 26/12/17 to 25/12/20, 88 Lakhs
11. Relations of Leucocyte membrane complement regulatory proteins, MBL and MASP2 with the pathophysiology and severity of coronary artery disease, Dr Kalpana Luthra, ICMR, 3, 2015-2018, 44 Lakhs
12. Unveiling the therapeutic potential of a Unani herbal formulation in hematological malignancy, Dr Alpana Sharma, AYUSH, 3, 2017-2020, 62.12 Lakhs
13. Study of microRNAs as a diagnostic approach in Multiple Myeloma, Dr Alpana Sharma, AIIMS, 2, 2016-2018, 10.0 Lakhs
14. To study the functional role of NFkB on FAT1 gene expression in Glioma, Dr Kunzang Chosdol, ICMR, 3, 2017-2020, 33.33 Lakhs
15. Effect of FAT1 on tumor suppressor signaling pathway [Salvador-Wart-Hippo (SWH) pathway] in glioma, Dr Kunzang Chosdol, AIIMS, 2, 2014-2016, 9.94 Lakhs
16. Signalling interaction between FAT1 and p53 under hypoxia: Their influence on tumor phenotype and identification of novel molecular targets in glioma, Dr Kunzang Chosdol, DBT, 3, 2016-2019, 55.52 Lakhs
17. Elucidating the mechanisms underlying documented osteogenic activity of *Symphytum officinale* in human bone marrow derived mesenchymal stem cells *in vitro*, Dr Sudip Sen, AYUSH, 3, 2015-2018, 47.6 Lakhs
18. Isolation and molecular characterization of colorectal cancer stem cells, Dr Sudip Sen, DBT, 3, 2015-2018, 25 Lakhs
19. Differentiation of fetal neural stem cells to oligodendrocytes—A disease model to decipher the pathogenesis and devise therapeutic strategies for cerebral palsy., Dr Sudip Sen, DBT, 2, 2018-2020, 29.2 Lakhs
20. The modulation of insulin resistance and HDL quality by adipose tissue ABCA1 and metabolic status, Dr Archana Singh, SERB, DST, 3, 2020, 40.1 Lakhs
21. Study of vitamin D receptor (VDR) and cathelicidin expression and their correlation with Fok1 VDR polymorphism in Tuberculosis, Dr Archana Singh, SERB DST, 3, 2015- 2018, 23 Lakhs
22. Serum hepcidin levels: it's correlation with ferroportin expression and localization and thus iron export in pathophysiology of pulmonary tuberculosis, Dr Archana Singh, AIIMS, 2, 2016-2018, 10 Lakhs
23. Role of hyperglycemia on macrophage effector function in pathophysiology of pulmonary tuberculosis, Dr Archana Singh, SERB DST, 3, 2018-2021, 49 Lakhs
24. Role of IGF2BP1, an RNA binding protein in lymphomagenesis, Dr Jayanth Kumar Palanichamy, DBT-Wellcome Trust India Alliance Early Career Fellowship for Clinicians and Public Health Researchers, 5, 2016-2021, 187 Lakhs
25. TET2 in Myeloid leukemia, Dr Subhradip Karmakar, SERB, DST, 3, 2015-2018, 45 Lakhs
26. Role of HMOX during trophoblast invasion, Dr Subhradip Karmakar, ICMR, 3, 2018-2021, 50 Lakhs
27. A candidate gene approach to identify common driver mutation in PDAC, Dr Subhradip Karmakar, AIIMS, 2, 2017-2019, 10 Lakhs

28. Effect of non-ionizing electro magnetic field (EMF) on hematological and biochemical parameters of normal male and female human volunteers, Dr Subhradip Karmakar, ICMR, 5, 2017-2022, 10 Lakhs
29. Genome-Wide DNA Methylation & Genomic Instability Profiling and Evaluating Its Potential as a Biomarker and Immunotherapeutic Target for Ovarian Cancer, Dr Ashok Sharma, DBT-Ramalingaswami Project, 5, 2015-2020, 32.50 Lakhs
30. Nuclear Architecture as an Epigenetic Regulator in Pericentromeric localized Cancer-Testis/Germline Antigen POTE Expression in Ovarian Cancer, Dr Ashok Sharma, Department of Science & Technology, Ministry of Science and Technology, 3, 2017-2020, 55 Lakhs
31. Estimate the Serum Levels of Cancer-Testis Antigen POTE as a Biomarker in Epithelial Ovarian Cancer, Dr Ashok Sharma, AIIMS, 2, 2016-2018, 10 Lakhs
32. Investigating the Association of Plasmodium Purine Salvage Pathway Enzymes and Metabolites with Severe Malaria Outcomes, Dr Pragyana Acharya, DST, 3, 2017-2020, 49.13 Lakhs
33. Department of Biotechnology-Consortium on Celiac Disease, Dr Govind Makharia PI; Co-PI Dr Pragyana Acharya on Proteomics, DBT, 2, 2017-2029, 30 Lakhs
34. Expression and mutational analysis of R2TP Complex and its bridging proteins in DLBCL (IMRG), Dr Riyaz A Mir, AIIMS, 2, 2017-2019, 8.0 Lakhs
35. ER stress in obesity induced adipose tissue dysfunction and inflammation, Dr Rakhee Yadav, AIIMS, 2, 2017-2019, 3 Lakhs
36. Role of Macrophages in regulation of Bone and Blood forming stem and progenitor cell migration and development, Dr Pramod Kumar Gautam, DST, 5, 2017-2023, 35 Lakhs

Completed

1. Recombinant human erythropoietin as potential therapeutic agent for neurological disease, Dr M.R. Rajeswari, International Collaboration India-Austria via DST-WTZ, 2, 2015-2017, Rs 8.85 Lakhs
2. Effect of small molecules on the protein expression in PBMC in FRDA patients to identify target proteins for therapy, Dr MR Rajeswari, AIIMS, 1, 2016-2017, 4.50 Lakhs
3. Generation and characterization of human recombinant single chain variant fragments (scFv) against envelope glycoprotein of subtype-C HIV-1 from pediatric patients, Dr Kalpana Luthra, ICMR, 3, 1 March 2015-28 February 2018, 30 Lakhs
4. Characterization of ADCC activity in the plasma of acute HIV-1 infected paediatric patients, Dr Kalpana Luthra, AIIMS, 2, 2016-18, 7 Lakhs
5. Evaluation of immunological alteration in anti-phospholipid antibody mediated recurrent miscarriage in women & role of Coenzyme Q10 in its modulation, Dr Alpana Sharma, ICMR, 3, 2014-2017, 25.0 Lakhs
6. To evaluate the role of CD4 TCR $\gamma\delta^+$ cells in polar forms of leprosy, Dr Alpana Sharma, ICMR, 3, 2014-2017, 38.33 Lakhs
7. Investigating the role of traditional medicines and bioscaffold on chondrogenesis in human bone marrow derived mesenchymal stem cells., Dr Sudip Sen, AIIMS Intramural, 1, 2016-2017, 5 Lakhs
8. Study of serum levels of Vitamin D along with the expression of Vitamin D binding protein (VDBP) and Vitamin D receptor (VDR) in pulmonary tuberculosis, Dr Archana Singh, TB association of India, 6 months, 2017, 0.35 Lakh
9. Effect of EPO on TET2 in AML, Dr Subhradip Karmakar, AIIMS, 2, 2014-2016, 10 Lakhs

Departmental projects

Ongoing

1. Elucidation of molecular mechanism of differential expression of cathepsin B in breast cancer cells with different metastatic potential
2. Role of Human Heterogeneous Ribonuclear Protein D in oral cancer
3. Regulation of Mig-6 Expression in Glioma
4. To assess the potential utility of cathepsin L and cathepsin B as universal biomarkers of Cancer
5. Expression and Clinical significance of serum MicroRNAs in Human Gallbladder Cancer
6. Study of Functions, regulation and therapeutic potential of cancer germline antigen POTE in ovarian cancer
7. Proteomics of FRDA positive, FRDA-suspected and FRDA-carriers
8. Generation and Characterization of pseudoviruses from an adult HIV-1 infected long term non progressor (LTNP) for potential subtype C based immunogen

9. Generation and Characterization of anti HIV-1 human monoclonal antibody(s) from a subtype C infected pediatric elite neutralizer
10. Generation and Characterization of anti HIV-1 human monoclonal antibody from subtype C infected adult long term non progressor
11. Generation and characterization of pseudoviruses from children with perinatally acquired HIV-1 infection
12. Isolation and characterization of Human anti-HIV-1 monoclonal antibodies from infected children
13. Isolation and characterization of human monoclonal antibodies from memory B cells of selected HIV-1 infected Indian Individuals
14. A longitudinal study of the effect of early initiation of ART on the innate immune responses in HIV-1 infected children
15. Exploring the role of Versican and its regulation by miRNA in Multiple Myeloma
16. Study of RASSF genes and their signaling in Bladder cancer
17. Gamma delta T cells in immunopathogenesis of *Pemphigus vulgaris*
18. Role of gamma delta T cells and scavenger receptors in vitiligo
19. Study of Autophagy associated HMGB-1 and its related molecules in Urothelial Carcinoma of Bladder
20. An immunological and molecular aspects for diagnosis of premature ovarian failure
21. Study of induced Th17 cells in leprosy reactions patients; a new therapeutic approach
22. Phenotypic and molecular characterization of Th17 and Treg cells in Renal Cell Carcinoma
23. To study the functional interaction of FAT1 and YAPI in glioma
24. Functional interaction of FAT1 and miRNA in glioma
25. Signaling interactions between FAT1, p53 and HIF1a in glioma
26. To study the gene expression in GBM cell lines under different degree of hypoxia and the role of p53 in HIF1 regulation under severe hypoxic condition
27. Hypoxia and response to chemotherapy: A study in glial tumor cell lines
28. FAT1 and *p53* on chemo-sensitivity of Glioma
29. Characterization of astrocytes derived from human fetal neural stem cells
30. Association between cancer cell differentiation and tumor microenvironment in human colorectal carcinoma
31. Effect of hyperglycemia on macrophage function in pathophysiology of pulmonary tuberculosis
32. Role of hyperglycemia on macrophage effector function in pulmonary tuberculosis
33. Role of IGF2BP1 in ETV6-RUNX1 positive B cell Acute Lymphoblastic Leukemia
34. Role of IGF2BP3 in migration and invasion of epithelial cancer cell lines
35. Deciphering the role of IGF2BP1, an RNA binding protein, in B-Cell Acute Lymphoblastic Leukemia
36. Role of cMYC and EGLF7 in ETV6-RUNX1 translocation positive B-cell Acute lymphoblastic leukemia
37. A study of IGF2BP3, an RNA binding protein and associated circRNAs
38. Role of TET2 in AML
39. Role of TET2 in MDS
40. Cloning and Functional analysis of Cancer Testis Antigen POTEE in Epithelial Ovarian Cancer
41. Functional Characterization, Expression, and Clinical Significance of Cancer-Testis/ Germline Antigen POTEB in Ovarian Cancer
42. Analysis of cell-free nucleic acids in serum of patients with Acute-on-Chronic Liver Failure
43. Proteomics of small intestinal biopsies in celiac disease

Completed

1. Expression of Cysteine Proteases in Human Gallbladder Cancer
2. To study role of Mig-6 in the development of oral cancer
3. Study on role of Intensive Physiotherapy and TMS in Stroke recovery and the correlation of growth factors with intervention and recovery
4. Evaluation of Plasma cell-free nucleic acids and micro RNA as Biomarkers for FRDA
5. Dendritic cell status and modulation of immune response in HIV-1 infected children
6. Generation and characterization of cloned envelope pseudoviruses from HIV-1 clade C infected children

7. Study of Hyaluronic acid signaling cascade in Urothelial carcinoma
8. Study of telomerase activity and shelterin complex and its associated factors in multiple myeloma
9. Role of Gama Delta T cells in leprosy reactions
10. To construct tetravalent antigenic peptide specific to B and T cell epitope from envelop and
11. NS1 proteins of dengue virus and their Diagnostics Potential
12. Role of Dendritic cells in immunopathogenesis of Vitiligo
13. Expression of Fat1 and Pro-Inflammatory molecules in Periampullary Carcinoma
14. Regulation of FAT1 Gene Expression in Gliomas
15. Elucidating the role of *Symphytum officinale* in osteogenesis in human bone marrow derived Mesenchymal Stem Cells *in vitro*
16. Assessment of effect of chemically induced monocyte –macrophage differentiation on intracellular characteristics and cholesterol efflux
17. Expression of hepcidin and ferroportin in pathophysiology of pulmonary tuberculosis
18. Role of PPAR alpha in trophoblast invasion
19. Role of TET proteins in trophoblast invasion differentiation
20. Effect of Cortisol on Trophoblast Invasion differentiation
21. Effect of DNA Methylation in Expression of Cancer-Testis/Germline Gene POTEE in Ovarian Cancer
22. DNA Methylation Effect on POTEB Expression in Epithelial Ovarian Cancer
23. Analysis of cell-free nucleic acids in serum of patients with Acute-on-Chronic Liver Failure
24. Proteomics of small intestinal biopsies in celiac disease

Collaborative projects

Ongoing

1. A study of epigenetics of Breast cancer by evaluation of tissue site-specific Promoter DNA methylation profiles in Breast Cancer, Department of Surgery, AIIMS, New Delhi
2. Expression of Reg-4 and MUC-4 in patients with carcinoma of pancreas, Department of Gastroenterology, AIIMS, New Delhi
3. miRNA as biomarker in chronic pancreatitis patients who are at high risk for developing pancreatic cancer, Department of Gastroenterology, AIIMS, New Delhi
4. Role of miRNA mediated modulation of signal transduction in pancreatic cancer, Department of Gastroenterology, AIIMS, New Delhi
5. Assessment of single versus subsequent microosteoperforation stimulated IL-1beta levels during orthodontic tooth movement—A pilot study, Department of Dental Surgery, AIIMS
6. Biophysics of Protein, Department of Biophysics, AIIMS, New Delhi
7. Evaluation of RANKL in GCF and rate of tooth movement during canine retraction assisted with low level laser therapy—A Randomised controlled trial, Department of Dental Surgery, AIIMS
8. Role of Stochasticity in shaping working memory and Schizophrenia, School of Computational and Integrative Medicine, JNU
9. Inflammatory biomarkers HMGB1 and TGF-1 in peri-miniscrew implant crevicular fluid (PMICF), Department of Biomedical Engineering, IIT, Delhi
10. Association between serological levels and genetic polymorphisms of VEGF A and C with clinicopathological characteristics of oral squamous cell carcinoma and oral submucous fibrosis—A pilot study, Centre for Dental Education & Research, AIIMS
11. Salivary MicroRNA: Their utility as biomarker during molecular changes in Tobacco users vs. Tobacco Non-Users, Department of Otorhinolaryngology & Head Neck Surgery, AIIMS
12. Identification of circulatory tumor cells in bladder cancer after TURBT procedure, Department of Urology, AIIMS
13. Human Papillomavirus status in Penile carcinoma in Indian patients and correlation with Clinico-pathological staging, Department of Urology, AIIMS
14. Identification of Glucose related protein 78(GRP78) as a biomarker for tumor behavior in patients of renal cell carcinoma, Department of Urology, AIIMS

15. Prospective non-randomized controlled trial to compare the efficacy of subcutaneous etanercept versus oral methotrexate in moderate to severe chronic plaque psoriasis and to correlate response with Th1, Th2, Th17 and Treg cell patterns, Department of Dermatology, AIIMS
16. Molecular characterization of NFkB pathway in uveal melanoma, Dr R.P. Centre, AIIMS
17. Molecular Characterization of malignant lacrimal gland Tumours, Dr R.P. Centre, AIIMS
18. Elucidating the mechanisms underlying documented osteogenic activity of *Symphytum officinale* in human bone marrow derived mesenchymal stem cells *in vitro*, Department of Applied Mechanics, IIT Delhi; CCRH, New Delhi; Department of Orthopaedics, AIIMS, New Delhi.
19. Impact of statin therapy on HDL functionality in Acute Coronary Syndrome patients.
20. Cardiology, AIIMS
21. To assess link between mtDNA copy number and reprogramming of mitochondrial metabolism in pediatric acute lymphoblastic leukemia.
22. Medical Oncology, IRCH
23. Placental growth factor as a predictive and prognostic marker for development of pre-eclampsia in high risk patients, Obstetrics and Gynecology
24. Role of Vascular Endothelial Growth Factor' – in management of Recurrent Respiratory Papillomatosis, Otorhinology (ENT)
25. Role of placental growth factor, uterine artery Doppler and 3D Doppler ultrasound of placenta for prediction of pre-eclampsia in high risk pregnancies, Obstetrics and Gynecology
26. Cobalamin and Folate status amongst children aged
27. 6-59 months attending a secondary health care facility in district
28. Faridabad, Haryana, Community Medicine
29. The effect of ultrasound guided quadratus lumborum block on postoperative analgesia and neuroendocrine stress response in paediatric patients undergoing elective open pyeloplasty. a randomised control trial.
30. Anaesthesia Pain medicine & Critical Care
31. To study the influence of CYP2C19 polymorphism on bortezomib blood concentration and clinical response in multiple myeloma patients
32. Pharmacology
33. Laboratory Medicine: Development of a multiplex real time PCR (qPCR) assay for simultaneous detection of hepatitis viruses (a-g) in serum, Laboratory Medicine
34. Role of microRNA and mRNA in FECD, RPC, AIIMS
35. Identify novel mutations in KCN, RPC, AIIMS
36. Molecular pathogenesis of JIA, Peds, AIIMS
37. Nuclear receptors in ca Gall bladder, IRCH,AIIMS
38. Role of PARP1 and γ -Glutamylcysteine SynthetaseInhibitor in Cisplatin Sensitivity & Correlation With DNA Methylation in Ovarian Cancer.IRCH, AIIMS
39. Impact of Yoga and Meditation on Epigenetic Profile in Rheumatoid Arthritis” Department of Anatomy, AIIMS
40. The Role of Leukotriene A4 hydrolase gene Polymorphism and Clinical outcome correlate in Corticosteroids treated Tubercular Meningitis Patients, Department of Neurology, AIIMS
41. One carbon metabolism and cognitive impairment in older Indians, Department of Geriatric Medicine, AIIMS
42. Estimation of novel Proteins among Older Subjects as biomarker for cognitive impairment, Department of Geriatric Medicine, AIIMS
43. Investigating the Association of Plasmodium Purine Salvage Pathway Enzymes and Metabolites with Severe Malaria Outcomes, Department of Medicine, AIIMS
44. Department of Biotechnology-Consortium on Celiac Disease, Department of Gastroenterology and Human Nutrition, AIIMS
45. Effect of Nonsurgical periodontal therapy on Metallothionein expression and levels in serum,saliva and gingival crevicular fluid: an interventional study, Department of periodontics AIIMS and department of Biochemistry AIIMS New Delhi
46. Endoplasmic reticulum stress in obesity induced adipose tissue dysfunction and inflammation, Department of Biochemistry
47. Effect of non-surgical periodontal therapy on metallothionien expression and levels in serum, saliva and gingival crevicular fluid: an interventional study, Centre for Dental Education and Research (CDER); AIIMS, New Delhi

Completed

1. Circulating Cell-free Nucleic Acids as biomarker around mini screw site during orthodontic tooth movement – A Quantitative analysis, Department of Dental Surgery, AIIMS
2. Quantitative evaluation of Human Macrophage Colony Stimulating Factor levels in peri-miniscrew implant fluid before and after force application, Department of Dental Surgery, AIIMS
3. Determination of catecholamines and their metabolites in Vitiligo patients undergoing melanocyte transplantation Department of Dermatology & Venereology
4. Role of T helper cytokines in skin autoimmune disorder Pemphigus vulgaris., Department of Dermatology & Venereology
5. An assessment of functional quality of HDL in coronary artery disease., Cardiology, AIIMS
6. Correlation of Hepatic Artery Resistive Index with Portal Pressure and Serum Nitric Oxide Levels in Patients with Extra Hepatic Portal Vein Obstruction, Paediatric Surgery
7. Effect of DNA Methylation in Expression of Cancer-Testis/Germline Gene POTEE in Ovarian Cancer, Biochemistry
8. Effect of DNA Methylation in Expression of Cancer-Testis/Germline Gene POTEE in Ovarian Cancer, Biochemistry
9. ROLE OF PEROXISOME PROLIFERATOR ACTIVATED RECEPTOR ALPHA (PPAR ALPHA) IN TROPHOBLAST INVASION, Department of Biochemistry, AIIMS
10. Measuring organ cross talk in acute-on chronic liver failure (ACLF) through metabolomics – a Pilot Study, Department of Gastroenterology and Human Nutrition, AIIMS

PUBLICATIONS

Journals: 35

Abstracts: 8

Chapters in book: 1

PATIENT CARE

S. NO.	TEST NAME	NUMBER OF TEST
1	CEA	2250
2	CA 19.9	2050
3	PSA	275
4	CA 125	699
5	CA 15.3	154
6	β HCG	560
7	AFP	485
8	S. FERRITIN	637
9	VIT. B12	657
10	FOLATE	657
11	TOTAL T3	1243
12	TOTAL T4	1243
13	TSH	1650
	TOTAL	11,317

Quality control:

Apart from routine internal quality assurance scheme, successful monthly participation in external quality assurance scheme (EQUAS) for last one year to deliver quality reports.

Department of Biochemistry has done genetic test for suspected FRDA patients from Neurology and Paediatric Neurology in 60 samples free of cost.

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor Subrata Sinha was awarded US patent: Placental like alkaline phosphatase (PLAP) promoter mediated cell targeting. PCT/IB2014/061350, US Patent number US 9,868,960 B2, date of issue of US patent 16 January 2018. Applicants were: Department of Biotechnology, National Brain Research Center, All India Institute of Medical Sciences. Inventors were: Subrata Sinha, Imran Khan, Mohammad Khalid Zakaria, Kunzang Chosdol, Parthaprasad Chattopadhyaya. He was a part of *Institutional Committees (Governance) such as* Governing Council, Translational Health Science & Technology Institute, Gurgaon; Society, Rajiv Gandhi Centre of Biotechnology; Regional Centre of Biotechnology, Faridabad. He was a part of *Institutional Committees (Scientific, Research, Academic) such as* Scientific Advisory Committee (SAC) of Institute of Pathology, ICMR (2008- currently Chairman); SAC, National Institute of Immunology; Research Council (RC) Centre for Cellular and Molecular Biology, Hyderabad; RC, Indian Institute of Chemical Biology, Kolkata; RC, Central Drug Research Institute; SAC—Rajiv Gandhi Centre of Biotechnology. He remained a part of *Committees of Scientific Ministries and Departments* such as Project Review Committee (PRC/ Expert Group) Neurodisease Biology (Chair 2015 – 2017) under *Department of Biotechnology*; Chairman, Cognitive Science Research Initiative (2014 – till date) and Chairman, Science and Technology of Yoga and Meditation under *Department of Science and Technology (DST)*; Chairman, PRC for Biochemistry, Immunology and Allergy; Member, PRC for Cell and Molecular Biology; Editorial Board, Current Science and Working Committee, The National Medical Journal of India under *Indian Council of Medical Research (ICMR)*.

Professor S.S. Chauhan was admitted to the fellowship of National Academy of Medical Sciences during 57th Annual Conference of National Academy of Medical Sciences held at Amritsar, Punjab from 28-29 October 2017; Member of SERB Young Scientist—Life Sciences Expert Committee of DST; Expert for evaluation of intramural research grants at AIIMS, Jodhpur and selection of faculty at AIIMS Jodhpur, AIIMS Patna, PGIMER Chandigarh, Institute of Liver and Biliary Sciences, Delhi, UPSC, Delhi, Govt. Medical Institute, Kasna, Greater NOIDA, UP; Member of Pre-Scientific Advisory Committee of National Institute of Pathology (ICMR), New Delhi; Member of Library Committee, Central Screening Committee for faculty recruitment at AIIMS, Task Force for Women Safety and Gender Sensitization at AIIMS, Institute Day Celebration Committee, Biotechnology Teaching Advisory Committee, AIIMS; Member of Bio-Safety Committee, V.P. Chest Institute, University of Delhi, DBT-nominee for Bio-safety Committee of Institute of Genomics and Integrative Biology, Mall Road, Delhi, Question paper moderation committee of Interdisciplinary Biotechnology Unit, Aligarh Muslim University, Aligarh, Standing committee of Academic Council, Banaras Hindu University and Course Curriculum Committee of King George Medical University Lucknow; Member of Editorial Board of Research and Reports in Biochemistry and Indian Journal of Clinical Biochemistry as well as reviewer for various national and international scientific journals; Life member of Society of Biological Chemists (India), Association of Clinical Biochemists of India, Indian Association for Cancer Research and Indian Academy of Biomedical Sciences.

Professor MR Rajeswari has been Vice President of Society of Neurochemistry, India, December, 2016; Vice president of “DNA Society of India”; ICMR Project Review Committee (PRC) for Neurochemistry, 2006 onwards; Research Advisory Board, Central University of Rajasthan, Ajmer; Department of Health Research, Ministry of Health (DHR), Medical Technology; University Grants Commission—on various committees, 2006 onward; Member of School of Life Sciences, Central University, Rajasthan, 2013 onward; Expert Mentor for INSPIRE (Innovation of Science Pursuit for Inspired Research), DST Programme; Member, Research Council “SV University, Tirupati; Evaluation of PhD theses: NIT, Warangal and at NIPER, Mohali; Expert Reviewer for Scientific Journals: International Scientific Reports, Plos One, *J. Amer. Chem. Soc.*, *Journal of Molecular Structure*; DNA & Cell Biology; *Eur.J.Med. Chem.*, *J of Physical Chemistry (Am Chem Soc.)* Molecular Bio Systems; Molecular Biology Reports, Food and Chemical Toxicology; Mini Reviews in Medicinal Chemistry; Green Chemistry Letters and Reviews; *J of Cancer Therapy*, the *J of Chemical Thermodynamics*, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, Mini Reviews in Medicinal Chemistry, *Journal of Neuroscience Research*, *BMC Cancer*, *Oncotarget* and *Indian J of Biochemistry & Biophysics*.

Professor Kalpana Luthra received the AIIMS Excellence Research Award 2017 in Basic Research (3rd Prize) and was elected as “Woman” in Science of Antiviral Research Society and was awarded the same on 24 October 2017 by Antiviral Research Society at the National Seminar on Recent advances in Antiviral Drug Design against Emerging and Re-emerging viral diseases held in Kalasalingam University, Krishnakoil, Tamil Nadu. She has been Advisory Committee Member of World Immunology Day Symposium on 29 April 2017 at AIIMS, New Delhi; Coordinator as one of the “Quiz-o-con: An Immunoinight” in the World Immunology Day Symposium on 29 April 2017 at AIIMS, New Delhi. She also provided three months training (16/10/2017 to 15/01/2018) for Mr. Asrat Endrias Kahsay from Ethiopia for CV Raman International Fellowship for African Researchers 2016 awarded by DST. She has been a Member of the Committee to formalize the Scientific Cadre in the Research Section at AIIMS; Life member of Antiviral Research Society, ACBI, IIS, NABS; Member of Editorial board of Indian Journal of Clinical Biochemistry (IJCBI); Member of review committee of Pre-SAC meeting of ICMR-National Institute of Pathology for the review of the ongoing work under Tumor Biology/ Adult Stem Cell Biology, 8 December 2017 at Safdarjang Hospital Campus, New Delhi; Member of the Intramural Project Review Committee Meeting for basic projects in the Research Section at AIIMS and has chaired a session “vaccine and therapeutic” in SYSCON 2017-18 “Bridging the Gap: Between Basic and Clinical Research from Bench to Bed Side,” 11/01/2018, AIIMS, New Delhi.

Professor Alpna Sharma is a part of Expert Selection Committee for faculty posts at AIIMS Bhubaneswar and Dr Baba Saheb Ambedkar Medical College, Delhi Govt; Member, Project review committee of Short Term Studentship, ICMR; Treasurer, Indian Immunology Society (2014-18); Organised the Symposium on International Immunology Day on 29 April 2017 at AIIMS, New Delhi; Active member of American Association for Cancer Research, USA and Int Gyne Cancer Society, USA; External examiner for PhD thesis and viva conduction at JN Med College, Aligarh Muslim University, Delhi University. and Panjab University, Chandigarh; Assessor, DNB Biochemistry course at Medanta, Gurgaon; External examiner for MD at Delhi University and Internal examiner for MD at AIIMS, New Delhi; Reviewed extramural research proposals of DBT, DST, AYUSH, CSIR and UPCST submitted for financial grant; Member, Annual Report Committee, AIIMS and Teaching Schedule Committee for UG at AIIMS; Technical Expert for Clinical Biochemistry Equipments purchase committee at VMMC, Safdarjung Hospital, New Delhi.

Professor Kunzang Chosdol received Mrs. Abiba Mahdi Award-2017, Indian Academy of Biomedical Sciences; AIIMS Excellence Award-2017 (3rd Prize); part of DBT Cancer Biology Core Committee-2017-19; has been Vice-President (2016-2019) Indian Association for Cancer Research (IACR); reviewed manuscripts for the Nature Publishing group (NPG) and Impact Journals; Validation/moderation expert of MCQ Question Bank (PG Entrance) at NBE, Dwarka; reviewed PhD and MD thesis of other Institute/Universities (DU and PGI Chandigarh); external expert to evaluate PhD research work progress at University of Delhi.

Dr Sudip Sen received certificate of commendation in basic research, at the AIIMS Excellence Research Awards, 2017.

Dr. Janvie Manhas (PhD student) received the Geeta Mittal Medal and book prize for the best post-graduate student in Basic research for the year 2016.

Dr. Janvie Manhas (PhD student) was selected for the ISSCR travel award to attend the ISSCR annual meeting (2017) at Boston, MA, USA.

Mr. Devanjan Dey (PhD student) was awarded the Boehringer Ingelheim Fonds Grant to help him attend the EMBL Workshop: Current Methods in Cell Biology, held at EMBL, Heidelberg, Germany from 11 to 19 September 2017.

Dr Jayanth Kumar P received EMBO (European Molecular Biology Organization) Travel Grant to attend and present the work at the EMBO/EMBL Symposium: From Single-to-Multiomics: Applications and Challenges in Data Integration held at Heidelberg, Germany in November 2017.

Dr. Subhradip Karmakar received Best Poster award in WCC2018, held in Jaipur, Organized by NII and AIIMS and was Joint Editor, Indian Journal of Social, Preventive and Rehabilitative Oncology (IJSPRO); Editorial GC gynecology, UK; Hon Member, Research on Human Health and disease, Ministry of Forest, Jharkhand.

Dr. Ashok Sharma received the Best Scientific Advisor Award in national workshop on Platelet Activity held on 11 November 2017 at VRLS Board Room, AIIMS, New Delhi and was Life member of Indian Immunology Society (2018); Life member of Indian DNA Society (2018); participating as a content provider for Biophysics subject in ePG-Pathshala, an MHRD, National Mission on Education through ICT (NME-ICT) venture.

VISITING SCIENTISTS

1. Dr Barbara Scheiber-Mojdehkar, Associate Professor, Department of Medical Chemistry, Medical University of Vienna, Austria on “Effects of Iron-complexes in pathological conditions and as therapeutics” on 13 April 2017.
2. Dr Iqbal Ahmed, Professor of Ophthalmology & visual sciences, Associate Dean, Academic Affairs, University of Nebraska Medical Center, Omaha, USA on “Stem Cells in Brain Repair and Regeneration” on 6 October 2017.
3. Dr A. Ramaiah on “The Growth Factor Deprivation Theory is Intertwined with other Autoimmune and Oxidative Stress Theories as Cause of Vitiligo” on 21 November 2017.
4. Professor Utpal Tatu, Department of Biochemistry, Indian Institute of Science, Bangalore on “Neglected Tropical Disease Research: Leading to Novel Outcomes” on 22 November 2017.
5. Professor Ariel Ruiz i Altaba, University of Geneva Medical School, Switzerland on “A Novel Approach to Block Stemness in Gliomas” on 1 March 2018.

9.4. Biomedical Engineering

Professor and Head

Veena Koul

Professor

Harpal Singh

Assistant Professors

Amit Mehndiratta
Dinesh Kalyanasundaram
S.M.K. Rahman

Anup Singh
Jayantha Bhattacharyya

Deepak Joshi
Neetu Singh
Sandeep Kumar Jha

Emeritus Professor

Sneh Anand

Honorary Professor

S.K. Guha

HIGHLIGHTS

The department of biomedical engineering was established in 1971 as a joint venture of AIIMS, New Delhi and Indian Institute of Technology Delhi. The department has applied engineering principles to address medical and biological problems. The department has collaborative projects with major institutes and hospitals in India.

The department has its vision of dissemination of knowledge and development of techniques, tools and methods for diagnosis, follow-up of treatment responses, drug delivery and help in disease treatment. The faculty of the department are dedicated towards research in the following priority areas:

- Biomaterials
- Bioinstrumentation
- Biomechanics
- Medical Imaging

In the past one year the following equipment were installed for clinical research

1. Wireless Electroencephalogram (64 channel) to collect mobile brain signals
2. Wireless Electromyogram (8 channel) for research in neuromuscular disorders
3. Biosafety level II facility with biosafety hood, fixtures and ducting

Apart from research, the department is engaged in teaching where PG, UG and Pre-PhD courses relevant to biomedical engineering are offered at IIT Delhi.

EDUCATION

Nine PhD students received their degrees in the past year.

2017-18	Aji Alex M.R, Development of Cationic Nanosystems Based on Poly (styrene-Alt-Maleic Anhydride) for Combinatorial Delivery of Drug and Nucleic Acid in Cancer Therapy, Professor Veena Koul
2017-18	Arun Kumar, Synthesis, Characterization and Biological Evaluation of Redox Sensitive Polymeric Nanosystems for Cancer Therapy, Professor Veena Koul
2017-18	Sirsendu Bhowmick, Fabrication and Evaluation of Polymeric Hybrid Scaffolds for Skin Tissue Engineering, Professor Veena Koul
2017-18	Vasundhara Shukla, Development of Polymer-Peptide-Plasmid DNA Dual Nanoparticles for Cancer Therapy, Professor Harpal Singh
2017-18	Avneet Kaur, Development of Polyacrylonitrile Copolymers for Detection and Mitigation of Pathogenic Bacteria, Professor Harpal Singh

- 2017-18 Sumeet Kapoor, Design and Development of Polyhydroxybutyrate Based Biodegradable Nanoparticles for Delivery of Anticancer Agents, Professor Harpal Singh
- 2017-18 J. Jean Rosario Raj, Alternate Design in Ultrasound Transient Elastography System for Detection of Breast Cancer, Professor Sneha Anand and Professor SMK Rahman
- 2017-18 Sumit Murab, Use of Tissue Engineering Strategies to Develop in vitro Disease Models, Professor Alok Ray and Professor Sourabh Ghosh
- 2017-18 Sanskrita Das, Custom-Tailored 3D Printed Scaffolds for Tissue Engineering, Professor Alok Ray and Professor Sourabh Ghosh

In the past year, the department started a new programme in Masters of Technology (Biomedical Engineering). The first batch of students with a strength of eight has been started from July 2017.

Workshop/Symposia organized (QIP/CEP)

1. GIAN Course on “Prosthetic and motor learning”, 5-9 December 2017 at Indian Institute of Technology Delhi, New Delhi; Organized by Professor Deepak Joshi and Professor Sethu Vijayakumar (University of Edinburgh), Funded by DST, Government of India
2. Workshop on Medical Imaging Techniques, Post Processing and Clinical Applications, 14-16 April 2017 at Indian Institute of Technology Delhi, New Delhi; Organized by Professor Amit Mehndiratta and Professor Anup Singh; Funded by CEP, IIT Delhi
3. Clinical Orthopaedic Biomechanics, 18 March 2017; Organized by Centre for Biomedical Engineering, IIT Delhi, Indian Spinal Injury Centre (ISIC), New Delhi and University of Toledo, USA; Funded by ISIC New Delhi
4. Clinical Spinal Biomechanics, 4 March 2017; Organized by Centre for Biomedical Engineering, IIT Delhi, Indian Spinal Injury Centre, New Delhi and University of Toledo, USA; Funded by ISIC New Delhi

Seminars

Department of Biomedical Engineering invited distinguished scientists from India and abroad for the seminar/lectures.

- 1) Title: “Mathematical Modelling and Advanced Image Processing in Healthcare”
Speaker: Professor K. Chen
Institute: Department of Mathematical Sciences, University of Liverpool, Peach St, Liverpool L69 7ZL, UK
- 2) Title: “Physicochemical properties of extracellular matrix: Key to function, Clue to mechanism”
Speaker: Professor Shyni Varghese
Institute: Duke University, USA

Lectures delivered

Veena Koul

1. Recent trends in polymeric nanosystems for drug delivery, 25-27 October 2017, Trivandrum
2. Polymeric nanosystems for drug and gene delivery, 7 November 2017, Chandigarh
3. Update on artificial skin substitute for burn wound and trauma care, 4-6 December 2017, ISER, Trivandrum

Harpal Singh

1. Biodegradable polymeric nanocarriers: Promising approach for the co-delivery of drugs for enhanced cancer therapy, 11 April 2017, Jamia Millia Islamia, New Delhi
2. Polymers for early detection and mitigation of pathogenic bacteria, 18 August 2017, Venu Eye Institute and Research Centre, Hyderabad
3. Nanotechnology for medical diagnostic and therapy, 13-14 September 2017, Swami Rama Himalaya University, Dehradun
4. Peptide and nucleic acid based nanodelivery systems for cancer therapy, 23-25 November 2017, Dawrka, New Delhi
5. Nano and micro platform technologies for diagnosis and therapy, 10-11 February 2018, IMTech Chandigarh

Neetu Singh

1. Carbon dots for drug delivery and cellular microenvironment sensing, 11-12 July 2017, Yogyakarta, Indonesia
2. Carbon dots for drug delivery and cellular microenvironment sensing, 5 July 2017, Department of Chemistry, University of Indonesia, Jakarta, Indonesia

3. Understanding the role of steric hindrance in RNAi mechanism for nanoparticle mediated siRNA delivery, 3-4 November 2017, Jamia Millia Islamia, New Delhi
4. Understanding the role of steric hindrance in RNAi mechanism for nanoparticle mediated siRNA delivery, 25-27 October 2017, Trivandrum
5. Understanding the role of steric hindrance in RNAi mechanism for nanoparticle mediated siRNA delivery, 18-20 December 2017, NIT, Rourkela
6. Fourth Symposium on Advances in Sustainable Polymers (ASP-17), 8-10 January 2018, IIT Guwahati
7. 4th BSSE Annual Research Symposium, 24 January 2018, IISc, Bengaluru

RESEARCH

Patents filed:

1. **Amit Mehndiratta**, Neha Singh, **Sneh Anand**. Entitled “Exoskeleton device for upper limb rehabilitation” (Indian Patent Application No.: 201711037641, 2017)
2. **Neetu Singh** and Anil Chandra “Green Florescent Carbon Dots for pH Sensing” (Indian Patent Application No. 201611034567, 2017)
3. **Sandeep Kumar Jha**, Appan Roychoudhury and Suddhasatwa Basu. “Microfluidic Chip for Neurotransmitter Detection” (Indian Patent Application No. 201811000669) dated 6 January 2018
4. **Sandeep Kumar Jha** and Appan Roychoudhury. “Capillary Electrophoresis Microchip for Beer and Wine Quality Testing” (Indian Patent Application No.: 201711036017) dated 10 October 2017.
5. **Veena Koul** and Aji Alex M.R. “Stimuli sensitive polymeric nanosystem for co-delivery of drugs and nucleic acids” (Indian Patent Application No.: 201711008171)
6. **Veena Koul** and Kritika Goyal. “A triblock copolymer and methods there of” (Indian Patent Application No.: 201711034212)

Funded Projects

1. Naturally derived vesicles for targeted drug delivery, Dr Neetu Singh, Professor. Veena Koul, Rs 80.0 lakhs, DBT
2. Integrated low cost water sensors, Dr Sandeep Jha, -----, Rs 169 lakhs, Indo-U.S. Science and Technology Forum (IUSSTF)
3. Design, synthesis and characterization of Nano-composite scaffold for wound healing, Dr Jayanta Bhattacharyya, Professor. Veena Koul, Rs 33.9 lakhs, DIPAS, DRDO
4. Nucleic acid based portable rapid diagnostic platform, Dr Dinesh Kalyanasundaram, Dr Sandeep Jha, Rs 40.08 lakhs, DBT, BIRAC
5. To define the anti-tumor activity of salinomycin (SAL)-encapsulated biodegradable polymeric nanoparticles and its potential synergy with certain chemotherapeutic drugs or with anticancer peptides, Professor. Harpal Singh, -----, Rs 80 lakhs, Department of Health Ministry (DHR)
6. Artificial skin (Bio-inspired bi-layer polymeric hybrid scaffold) for burn injuries and trauma care, Veena Koul, Amit Dinda, Maneesh Singhal, Rs 220.00 lakhs, IMPRINT
7. Fabrication and evaluation of bio-nano composite scaffold for chronic wounds, Veena Koul, Amit K Dinda, Neetu Singh, Jayanta Bhattacharyya, Rs 55.00 lakhs, DST Nano Mission

PUBLICATIONS

Journals: 25

Abstracts: 24

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Faculty

Dr Amit Mehndiratta received E.K. Zavoisky award at 25th Proceeding of International Society of Magnetic Resonance in Medicine (ISMRM) 2017, Honolulu, HI, USA.

Students

Neha Singh received the Regional Winner India for the Ericsson Innovation Award 2018, January, 2018.

Neha Singh received the Poster Award during Science Day, IIT Delhi, February, 2018.

Tech Plantar award from Leave a Nest Co. UK to PhD student **Mr. Anoop Kant Godiyal**.

Deshpande, S received Gordon Research Conferences' GRC Carl Storm International Diversity (CSID) Award to attend GRC-Cancer Nanotechnology at Mount Snow West Dover, Vermont, 18-23 June 2017.

Patil, S was awarded a stipend of 200 USD by Cold Spring Harbor Meetings, NY, USA to attend "Stem Cell Biology Meeting of Cold Spring Harbor Laboratory" at CSH, New York, USA, 25-29 September 2017.

Patil, S was awarded DST Travel Grant to attend "Stem Cell Biology Meeting of Cold Spring Harbor Laboratory" at CSH, New York, USA, 25-29 September 2017.

Dhyani, V was awarded DST Travel Grant to attend "Regenerative Biology and Applications: Cell Differentiation, Tissue Organization and Biomedical Engineering (T3)" at University of Hong Kong, Pok Fu Lam, Hong Kong, 15-19 October 2017.

Dhyani, V selected for Oral Presentation "Chemical strategies for the manipulation of material's biological property" at National Science Day Research Scholar Symposium, at Indian Institute of Technology Delhi, New Delhi, 28 February 2018.

Best Poster Award to **Neha Mehrotra** entitled "Anticancer peptide delivery using polymeric biodegradable nanoparticles for cancer therapy" in International Conference on Advances in Polymer Science and Technology 23-25 November 2017, Dawrka, New Delhi.

Nehate C received "Nano Today Student Travel Award" as one of the top 25 candidates all over the world based on the merit of submitted abstracts in 5th Nano Today Conference, organized by Nano Today, Institute of Bioengineering and Nanotechnology (IBN), Materials Today at Hawaii, USA.

Dogra Educational Endowment Medal 2016-2017 for best the scientific publication in Centre for Biomedical Engineering in year 2015-2016 to Aji Alex for "Self Assembled Dual Responsive Micelles Stabilized with Protein for Co-Delivery of Drug and siRNA in Cancer Therapy. Biomaterials 2017, 133, 94-106.

Best Poster Award to **Neha Mehrotra** for a presentation entitled "Delivery of anti-Cancer peptide using biodegradable polymeric nanoparticles" in National Conference on Biotechnology and Environment at Jamia Millia Islamia on 11 April 2017.

VISITING SCIENTISTS

Dr Siva Kolluri, Associate Professor, from College of Agriculture Sciences, Oregon State University delivered a talk entitled "Peptides for Cancer therapy" on 2 April 2017.

9.5. Biophysics

INSA Senior Scientist

T.P. Singh

Professor and Head

Punit Kaur

Professors

Savita Yadav

Sujata Sharma

Associate Professors

Sharmishtha Dey

G. Hariprasad Rao

Assistant Professors

Ethayathulla A.S.

Krishna Kumar Inampudi

Saroj Kumar

Scientists

Asha Bhushan

S. Baskar Singh

Manoj Kumar

Uddipan Das

HIGHLIGHTS

During the year, the department had over 22 ongoing research projects funded by extramural grants. Research in the department is concerned with determining the molecular basis of biological process, rational structure based drug design and discovering new specific biomarkers. The department provides facilities for data collection on protein and small molecule crystals, medical bioinformatics, protein sequencing and peptide synthesis, proteomics and dynamic light scattering. The

department received a Fund for Improvement of Science and Technology Infrastructure in Higher Educational Institutions (FIST) grant from Department of Science and Technology (DST), Government of India, which has been ongoing in the past year. In the past year, faculty and scientists had 31 research publications in various peer reviewed journals. The department continued providing postgraduate education and short and long term training to MSc, PhD and MD students. The faculty members and scientists were invited to deliver lectures and seminars all over the country and have delivered 33 lectures.

EDUCATION

Postgraduate

The faculty and scientists of the department continued with teaching and guiding students for PhD degree, MSc (Biophysics) and MD (Biophysics). The postgraduate teaching includes theory classes, hands-on practical classes and a dissertation project.

Short and Long Term Training

The department also imparted long- and short-term training to MSc and MTech students from different institutes and universities.

CMEs/Workshops/Symposia/National and International Conferences

Lectures delivered

T.P. Singh

1. Molecular characterization of the mammary secretory glycoprotein, 45th National Seminar on Crystallography, 9 July 2017, Varanasi
2. Computational based identification of acetylcholinesterase inhibitors using 3D QSAR and molecular docking based virtual screening as treatment for Alzheimer's Disease, International Conference on Multidisciplinary Approaches, 20 September 2017, Hikkaduwa
3. Contours of biophysics in medical sciences, Role of Biophysics in Academia and Industry, 12 October 2017, Chandigarh
4. Structural insights into the mode of binding of mammalian heme lactoperoxidase, Marie Curie Sesquicentennial Conference, 6 November 2017, New Delhi

Savita Yadav

1. Exploring semen protein signatures for understanding male fertility/infertility in Acute Lymphoblastic Leukemia (ALL) survivors, ACBICON-2017, 5 December 2017, Lucknow
2. Exploring human seminal plasma proteome for male infertility markers, World Congress on Reproductive Health and 28th Annual Meeting of ISSRF, 23 February 2018, Hyderabad

Sharmistha Dey

1. Serum sirtuins as novel protein markers for frailty, International Association of Gerontology and Geriatrics (IAGG), 23 July 2017, San Francisco
2. Evaluation of serum sestrin protein in Parkinson's Disease: A plausible diagnostic marker, 21st International Congress of Parkinson's Disease and Movement Disorders, 4 June 2017, Vancouver
3. Biomarkers of Alzheimer's Disease, Gericon 2017, 16 November 2017, New Delhi
4. Plausible biomarker of Alzheimer's Disease, SYSCON 2017, 11 January 2017, New Delhi
5. Serum 5-LOX: Protein marker for breast cancer and new approach for therapeutic target, Indian Academy of Cancer Research (IACR) 2018, 23 February 2018, Kolkata
6. Evaluation of expression levels of a inflammatory protein, 5-LOX in Alzheimer's Disease and design of peptide inhibitors against the same, 105th Indian Science Congress, 16 March 2018, Manipur
7. Biomarker for cancer workshop on "Role of biochemistry in health, medicine and agriculture sector", 6 November 2017, Jhansi

Hariprasad G.

1. Clinical proteomics as a platform for research in non-communicable diseases, The 2nd J&K Medical Science Congress and 1st Annual Conference of Metabolic Syndrome-Prediabetes-Polycystic Ovary Syndrome Society, 12 May 2017, Srinagar
2. Evaluation of serum apolipoprotein E as a potential biomarker for pharmacological therapeutic efficacy monitoring in dopamine dictated disease spectrum of schizophrenia and Parkinson's Disease, National Conference on Protein Structure and Dynamics in Health and Agriculture, 3 November 2017, New Delhi

3. Clinical Proteomics, Science, Society and Education: A Contemporary Convergence, 22 November 2017, New Delhi

A. S. Ethayathulla

1. Structure analysis and structure based function prediction methods workshop on Emerging Trends in Target Identification and Drug Design, 1 February 2018, Noida

K.K. Inampudi

1. Protein engineering for biotech and biotherapeutics applications, Advanced Lecture Series in Microbiology: An Interdisciplinary Approach, 20 February 2017, New Delhi

Saroj Kumar

1. Biomarker-based infrared imaging for bio-diagnosis, protein dynamics, and drug-ligand binding, Center for Biomedical Engineering (CBME), Indian Institute of Technology, 7 September 2017, Ropar
2. Applications of infrared spectroscopy in basic science and disease, Cancer Awareness by UGC, 27 February 2018, Delhi

Jyotirmoy Banerjee

1. Dual resting state networks in hippocampal sclerosis, 66th Annual Conference of the Neurological Society of India (NSICON 2017), 2 December 2017, Nagpur
2. Effect of plasma jet on tumor tissues resected from patients with tumor linked refractory epilepsy, Board of Research in Nuclear Sciences (BRNS)-Technical Program Discussion Meeting (TPDM), RRCAT, 20 March 2018, Indore

Oral papers/posters presented

1. Tikhomirov A, Kaur P, Shchekotikhin A. Targeting oncogenic protein kinases by anthra[2,3-b]furan-5,10-diones, 20th Frühjahrs Symposium, 21-24 March 2017, Konstanz
2. Gupta D, Sachdeva E, Haque MA, Rahman S, Bansal R, Ethayathulla AS, Hassan MI, Kaur P. Folding and unfolding studies of DNA Gyrase B subunit from Salmonella enterica serovar Typhi, National Conference on Protein Structure and Dynamics in Health and Agriculture, 3-4 November 2017, New Delhi
3. Naz F, Mashkooor M, Kumar M, Kaur P, Ethayathulla AS. Biophysical and functional studies of prokaryotic cytokinesis protein FtsZ from Salmonella enterica serovar Typhi, National Conference on Protein Structure and Dynamics in Health and Agriculture, 3-4 November 2017, New Delhi
4. Kumar M, Tikhomirov AS, Korolev AM, Shchekotikhin A, Sharma S, Kaur P. Identification of inhibitors of aurora kinases for development of new anticancer agents, National Conference on Protein Structure and Dynamics in Health and Agriculture, 3-4 November 2017, New Delhi
5. Kaur P, Singh RP, Sirohi HV, Singh PK, Iqbal N, Sharma S, Singh TP. Structure based design of anti-thyroid drug using mammalian heme peroxidases as drug targets, 19th IUPAB and 11th EBSA Congress, 16-20 July 2017, Edinburgh
6. Tiwari P, Kumar M, Sharma S, Singh TP, Kaur P. Evaluation of docking programs to predict the binding of small peptide ligands, National Conference on Protein Structure and Dynamics in Health and Agriculture, 3-4 November 2017, New Delhi
7. Yadav S, Tajmul M, Parween F, Singh L, Mathur S, Sharma JB, Kumar S, Sharma DN. Salivary protein signatures: Potential for non-invasive ovarian cancer detection, 20th International Meeting of the European Society of Gynecological Oncology (ESGO-1017), 4 November 2017, Vienna
8. Dey S, Singh AP, Rai N, Shekhar S, Dey AB. Serum sirtuins as novel protein markers for frailty, International Association of Gerontology and Geriatrics (IAGG), 23-27 July 2017, San Francisco
9. Dey S, Rai N, Singh AP, Shekhar S, Dey AB. Evaluation of serum sestrin protein in Parkinson's Disease: A plausible diagnostic marker, 21st International Congress of Parkinson's Disease and Movement Disorders, 4-8 June 2017, Vancouver
10. Dey S, Shekhar S, Rai N, Dey AB. Biomarkers of Alzheimer's Disease, Gericon 2017, 16-17 November 2017, New Delhi
11. Dey S, Shekhar S, Rai N, Agnihotri V, Parshad R. Serum 5-LOX: Protein marker for breast cancer and new approach for herapeutic target, Indian Academy of Cancer Research 2018, 23-25 February 2018, Kolkata
12. Dey S, Sehekar S, Rai N, Singh AP, Yadav Y, Dey AB. Evaluation of expression levels of a inflammatory protein, 5-LOX in Alzheimer's Disease and design of peptide inhibitors against the same, 105th Indian Science Congress, 16-20 March 2018, Manipur

13. Shekhar S, Dey S. Development of serum protein marker and study of anti-oxidative effect using potential modulators for Alzheimer's Disease, IBRO School BHU, 1-16 April 2017, Banaras
14. Rai N, Dey AB, Dey S. Identification of novel anti-oxidant protein sestrin in frail elderly as diagnostic marker, Gericon 2017, 16-17 December 2017, New Delhi (**Best paper award**)
15. Rai N, Singh AP, Shekhar S, Yadav Y, Dey AB, Dey S. Sestrin levels in patients diagnosed with mild cognitive impairment and Alzheimer's Disease: A potential marker, Alzheimer's Association International Conference, 16-20 July 2017, London
16. Shekhar S, Rai N, Yadav SK, Dey AB, Dey S. Tau, p-Tau181 and γ -secretase level: Blood based marker for AD and MCI, IAGG World Congress, 23-27 July 2017, San Francisco
17. Shekhar S, Rai N, Yadav Y, Dey AB, Dey S. Targeting 5-LOX in Alzheimer's Disease: Potential serum marker and in vitro evidences for rescue of neurotoxicity by its peptide inhibitor, Neuroscience 2017, 11-15 November 2017, Washington
18. Shekhar S, Dey S. Targeting 5-LOX in Alzheimer's Disease: Potential serum marker and in-vitro evidences for rescue of neurotoxicity by its peptide inhibitor, Gericon 2017, 16-17 December 2017, New Delhi (**Best paper award**)
19. Dey S. Biomarker for cancer, Workshop on "Role of biochemistry in health, medicine and agriculture sector", 11 November 2017, Jhansi
20. Mashkoo M, Kumar M, Ethayathulla AS. Retargeting the FDA approved drugs against *Salmonella Typhi* FtsZ cell division protein, Inbix'17: Indian Conference on Bioinformatics 2017, 7-9 November 2017, Jaipur
21. Naz F, Mashkoo M, Kumar M, Kaur P, Ethayathulla AS. Biophysical and functional studies of prokaryotic cytokinesis protein FtsZ from *Salmonella enterica* serovar Typhi, National Conference on Protein Structure and Dynamics in Health and Agriculture, 3-4 November 2017, New Delhi
22. Mashkoo M, Kumar M, Ethayathulla AS. In silico studies of FDA approved drugs against *Salmonella Typhi* FtsZ cell division protein, International Conference on Advances in Biosciences and Biotechnology - ICABB-2018, 1-3 February 2018, Noida, India
23. Mashkoo M, Kumar M, Ethayathulla AS. *In silico* studies of FDA approved drugs against *Salmonella Typhi* FtsZ cell division protein, International Conference on Advances in Biosciences and Biotechnology, 1-3 February 2018, Noida
24. Mashkoo M, Kumar M, Ethayathulla AS. Retargeting the FDA approved drugs against *Salmonella Typhi* FtsZ cell division protein, Indian Conference on Bioinformatics, 7-9 November 2017, Jaipur
25. Kaur P, Krishna SH, Kumar M, Sharma S, Singh TP. Computational based identification of acetylcholinesterase inhibitors using 3D QSAR and molecular docking based virtual screening as treatment for Alzheimer's Disease, 4th International Conference on Multidisciplinary Approaches-2017, 20-22 September 2017, Sri Lanka
26. Banerjee J, Dixit AB, Srivastava A, Tripathi M, Chandra PS. Differential spontaneous excitatory activity revealed two different resting state networks in hippocampal sclerosis, 19th Joint Conference of Indian Epilepsy Society and Indian Epilepsy Association (ECON 2018), 2 February 2018, Bengaluru
27. Dixit AB, Kumar K, Sharma D, Tripathi M, Srivastava A, Paul D, Prakash D, Sarkar C, Banerjee J, Chandra PS. Epigenomic analysis of resected brain tissues identifies aberrant signalling pathways in patients with focal cortical dysplasia, 19th Joint Conference of Indian Epilepsy Society and Indian Epilepsy Association (ECON 2018), 2 February 2018, Bengaluru (**Best paper award**)

RESEARCH

Funded projects

Ongoing

1. Structural Studies of Peptidoglycan Recognition Proteins (PRPs), Peptidyl tRNA-hydrolase, Dihydrodipicolinate Synthase (DHDPS), Dihydrodipicolinate Reductase (DHDPR) and Phospholipase A2, T.P. Singh, Indian National Science Academy, 5 years, 2014-2019, Rs 25 lakhs
2. Fund for improvement of S&T infrastructure in universities and higher educational institutions, Punit Kaur, DST, 6 years, 2012-2018, Rs 300 lakhs
3. Development of pan-genome and knowledge-based identification of novel drug targets for typhoidal *Salmonella enterica* — A genomic approach to drug discovery, Punit Kaur, ICMR, 3 years, 2015-2018, Rs 52.7 lakhs
4. Bio-medical informatics facility at AIIMS, Punit Kaur, ICMR, 5 years, 2013-2018, Rs 100 lakhs
5. Structure based design and synthesis of novel antitumor heteroareneanthracenediones, Punit Kaur, DST-RFBR, 2 years, 2017-2019, Rs 24.4 lakhs

6. AMIR-PepKit IVD: R&D of a peptide-based — Diagnostic kit for an early detection of a fatal immune response in acute myocardial infarction patients, Savita Yadav, CEFIPRA-BIRAC, 2 years, 2016-2018, Rs 39 lakhs
7. Exploring the role of proteomic signature in saliva: Step towards non-invasive diagnostic tool for ovarian cancer, Savita Yadav, ICMR, 3 years, 2016-2019, Rs 36 lakhs
8. Validation of salivary proteomic markers for early detection of cervical cancer, Savita Yadav, AIIMS, 2 years, 2016-2018, Rs 7.2 lakhs
9. Effect of Non-Ionizing Electromagnetic Field (EMF) on human health, Savita Yadav, ICMR, 5 years, 2017-2022, Rs 61 lakhs
10. Rational structure-based ligand design for developing the novel antibacterial agents against peptidyl tRNA-hydrolase, a drug target from the multidrug resistant bacteria, *Acintobacter baumannii*, Sujata Sharma, ICMR, 3 years, 2017-2020, Rs 68 lakhs
11. Potential anti-oxidant effect of selected Ayurvedic herbs in Parkinson and Alzheimer's Disease, Sharmistha Dey, AYUSH, 3 years, 2015-2018, Rs 20 lakhs
12. Evaluation of serum sirtuin level and their correlation with tubulins, synuclein oligomers in Parkinson Disease, Sharmistha Dey, DBT, 3 years, 2016-2019, Rs 30 lakhs
13. Study of possibility of the Hypoxia Inducible Protein (Hi95) as potential protein marker for Alzheimer's Diseases, Sharmistha Dey, AIIMS, 2 years, 2016-2018, Rs 10 lakhs
14. Proteomics of CSF for the identification of protein signatures in the dopamine dictated states of Schizophrenia and Parkinson's Disease, Hariprasad. G, DST, 4 years, 2014-2018, Rs 33 lakhs
15. Proteomics of axillary sentinel lymph node tissues in early breast cancer: Implications for identification of biomarker to guide surgical intervention, Hariprasad. G, AIIMS, 2 years, 2018-2020, Rs 9.8 lakhs
16. Structural based drug-design: Histidine biosynthesis pathway protein HisF/HisH as new drug target against *Salmonella Typhi*, A.S. Ethayathulla, AIIMS, 2 years, 2016-2017, Rs 4.8 lakhs
17. Structural and biophysical characterization of bacterial cell division protein FtsZ from *Salmonella enterica*: Antimicrobial drug target, A.S. Ethayathulla, DST, 3 years, 2016-2019, Rs 33 lakhs
18. Structural based drug-design: Histidine biosynthesis pathway protein HisF/HisH as new drug target against *Salmonella Typhi*, Krishna K Inampudi, AIIMS, 2 years, 2016-2018, Rs 9.8 lakhs
19. Structural and biophysical characterization of bacterial cell division protein FtsZ from *Salmonella enterica*: Antimicrobial drug target, Krishna K Inampudi, DST, 4 years, 2017-2020, Rs 50 lakhs
20. Characterization of fibroblasts to understand the possible role in breast cancer progression by FTIR imaging, Saroj Kumar, AIIMS, 2 years, 2017-2019, Rs 9.8 lakhs
21. Elucidating region specific alterations of glutamatergic excitatory neurotransmission in a rodent pilocarpine model of temporal lobe epilepsy, Jyotirmoy Banerjee, DBT, 3 years, 2018-2021, Rs 61 lakhs
22. Identification of lead compounds against a novel drug target shikimate kinase for the development of anti-TB drug to combat multi-drug resistance, Manoj Kumar, AIIMS, 2 years, 2017-2019, Rs 9.6 lakhs

Completed

1. Infertility in crossbred bulls: Search for spermatogenic cell markers for early prediction of fertility, Savita Yadav, Indian Council of Agricultural Research, 5 years, 2012-2017, Rs 96 lakhs
2. Design of specific peptide activator of sirtuin as potential therapeutic targets for Mild Cognitive Impairment (MCI) and Alzheimer's Disease (AD), Sharmistha Dey, ICMR, 3 years, 2015-2018
3. Determination of amino acid sequence and three-dimensional structure of group III phospholipase A2, Hariprasad. G, DST, 2 years, 2005-2007, Rs 3.5 lakhs
4. Comparative proteomic analysis of ovarian cancer tissue to understand the protein profile of responders and non-responders to first line chemotherapy, Hariprasad. G, AIIMS, 2 years, 2013-2015, Rs 4.9 lakhs
5. Comparative proteomic analysis of ovarian cancer tissue to understand the protein profile of responders and non-responders to first line chemotherapy, Hariprasad. G, DST, 4 years, 2008-2012, Rs 18 lakhs
6. Evaluating the combined effect of insulin like growth factor-1, transforming growth factor- β and fibroblast growth factor-2 on cardiac progenitor stem cells, Hariprasad. G, AIIMS (Intramural), 2 years, 2015-2017, Rs 9.8 lakhs
7. Structural based drug-design: Histidine biosynthesis pathway protein HisF/HisH as new drug target against *Salmonella Typhi*, A.S. Ethayathulla, AIIMS, 1 year, 2016-2017, Rs 4.8 lakhs
8. PeptidyltRNA Hydrolase (PtH): Structure and functional mechanism of PtH with non hydrolysable peptidyl tRNA, Krishna K Inampudi, AIIMS, 2 years, 2016-2018, Rs 5 lakhs

Departmental projects

Ongoing

1. Molecular analysis and biophysical characterization of proteins from the bacterial peptidoglycan pathway
2. Development of antimicrobial molecules against the drug resistant proteins from *S. Typhi*
3. Structural characterization of the Mur proteins
4. Genome analysis and target identification against *S. Typhi*
5. Development of a protein marker for Parkinson Disease and design of peptide inhibitor for the same
6. Evaluation of cell signaling molecules as serum protein marker in Head and Neck Squamous Cell Carcinoma (HNSCC) and Non Small Cell Lung Cancer (NSCLC) proposing therapeutic target
7. Role of sestrin in neurodegenerative diseases and its therapeutic implication
8. Cloning, expression and purification of Tau protein
9. Structural and biophysical characterization of p53 Y220C mutant
10. To study the effect of Curcumin on the Y220C core domain mutation of TP53 and its expression
11. Computational analysis of resistance to imatinib and related drugs in CML due to mutations in BCR-Abl kinase and design of mutation resilient inhibitors
12. Structural and functional characterization of translational rescue system by Peptidyl tRNA hydrolase by forming non-hydrolysable peptidyl tRNA complex to gain insights for drug development against tuberculosis
13. Identification of DNA aptamers against human sEGFR to treat lung cancer
14. Peptide inhibitor designing and validation for sEGFR using computational protein design
15. Biomarker based understanding of Parkinson's Disease pathogenesis by using proteomic and lipidomic profiling of blood, urine and saliva
16. Characterization of serine racemase inhibition by medicinal plants extract
17. The unstructured proteins in biological structures: Case of human tooth
18. Computational analysis of resistance to imatinib and related drugs in CML due to mutations in BCR-Abl kinase and design of mutation resilient inhibitors
19. Peptide inhibitor designing for sEGFR using computational protein design
20. Identification of DNA aptamers against human sEGFR to treat lung cancer

Completed

1. Significance of NFKB1 and NFKB1A in progression of HNSCC in Indian population
2. Design, synthesis and assessment of antimicrobial peptides against antibiotic resistant pathogens
3. Functional studies of anti-apoptotic $\Delta Np73$ in human cancer
4. Structural and functional studies of p53 missense mutations in human cancers
5. Peptidyl tRNA hydrolase (PtH): Structure and functional mechanism of PtH with non hydrolysable peptidyl tRNA
6. Structural and functional characterization of translational rescue system by peptidyl tRNA hydrolase by forming non-hydrolysable peptidyl tRNA complex to gain insights for drug development against tuberculosis
7. Identification of DNA aptamers against human sEGFR to treat lung cancer
8. Peptide inhibitor designing and validation for sEGFR using computational protein design
9. Cloning, expression, purification of shikimate kinase of mycobacterium tuberculosis and its binding study with designed inhibitors

Collaborative projects

Ongoing

1. Identification of novel targets and development of Inhibitors against *S. Typhi*, Microbiology
2. Investigation of anti-cancer activities of some selected plants and their molecular target on human oral cancer cell line, Biotechnology
3. Harmonized Diagnostic Assessment of Dementia (DAD) for Longitudinal Aging Study of India (LASI), Geriatric Medicine
4. Centre of Excellence for Epilepsy Research Phase-I, Neurosurgery, AIIMS, New Delhi and National Brain Research Centre (NBRC), Manesar

5. Role of Kynurenic acid, a glutamate receptor inhibitor, in hyperexcitability associated with Mesial Temporal Lobe Epilepsy (MTLE), Neurosurgery
6. Deciphering the role of Histone Deacetylases (HDACs) in mesial temporal lobe epilepsy, Neurosurgery
7. Deciphering the role of casein kinase 2 in mesial temporal lobe epilepsy, Neurosurgery
8. Deciphering the role of the multifaceted kinase CDK5 in intractable epilepsy, National Brain Research Centre (NBRC), Manesar

Completed

1. Evaluation of novel intracellular proteins in serum as marker of ageing, Geriatric Medicine
2. Cancer in older Indians: Development of an instrument for comprehensive functional assessment and a biomarker, Geriatric Medicine

PUBLICATIONS

Journals: 28 Abstracts: 3 Chapters in Book: 1

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor T.P. Singh delivered the convocation address as Chief Guest in the 30th Convocation of Alagappa University, Kariaikudi on 20 December 2017; Elected as the President of Biotech Research Society of India (BRSI); Elected as the President of Bio-informatics and Drug Design Society (BIDDS).

Dr Shamistha Dey received Professor Surindar Mohan Marwah Award given by Indian Council of Medical Research (2016) and AIIMS Excellence Research award given by AIIMS, New Delhi (2016).

Dr Saroj Kumar’s work got featured in Lightsource: Research team identifies new markers involved in cancer progression: www.lightsource.ca/news/details/research_team_identifies_new_markers_involved_in_cancer_progression.html

Dr Jyotirmoyi Banerjee received the Award of Grant titled “Advanced Epilepsy Research: A Multidisciplinary Approach” from *The Principal Scientific Adviser to the Government of India* in March 2018 (Role: Co-Principal Investigator); Award of Grant titled “Center of Excellence for Epilepsy Research Phase II” from *Department of Biotechnology, Government of India* (Role: Co-Principal Investigator).

VISITING SCIENTIST

1. Dr M. Kini, Singapore
2. Dr R. Ahmad, Norway
3. Dr R. Batra-Safferling, Germany
4. Dr B. Gopal, Bengaluru
5. Dr D. Velmurugan, Chennai

9.6. Biostatistics

Professor and Head
R.M. Pandey

Professor
S.N. Dwivedi V. Sreenivas

Associate Professor
Maroof A. Khan

Scientist
M. Kalaivani

HIGHLIGHTS

The department conducted three hands on workshop on various aspects of biostatistics for faculty/residents and PhD students in the institute. Faculty and scientist had 1,00,133 ongoing collaborative research projects and 46 completed collaborative research projects with various centers/departments in the institute. Departmental research projects include three ongoing extramural funded research projects and one completed project. Faculty and scientist in the department had 143 research publications in various peer reviewed medical journals; continued to be reviewer for almost all the major medical journals in the country and for several international medical journals from various medical specialties; served on various administrative and scientific committees in the institute; invited members of various scientific committees of the ICMR, DBT, DST, AYUSH; served on Data Safety Monitoring Boards (DSMB) of several National and International Clinical Trials; delivered invited lectures in various institutes/ universities in the country; and, served as examiners to for PhD thesis at various universities in the country.

EDUCATION

The department continued teaching “Biostatistics and Essentials of Research Methods” for the undergraduate, paramedical and postgraduate courses, viz. MBBS, BSc (Hons.) in Medical Technology in Radiology, MBiotech, BSc and MSc Nursing, and MD Community Medicine. The department plays major role in conducting Research Methodology, Writing and Communication workshops for the residents in the institute, a mandatory five days course work. On request, faculty members delivered series of lectures for the residents, PhD students and participated in departmental scientific presentations in various centres/departments in the institute. Besides guiding PhD students in the department, faculty members and scientists contributed to the academic activities of other departments in the institute as co-guides, DC members of PhD, DM, MCH, MD/MS, students. Also, departmental faculty and scientists delivered 46 invited lectures in various workshops on Research Methodology and Biostatistics in various national workshops/conferences across the country.

CMEs/Workshops/Symposia/National and International Conferences

Lectures delivered

R.M. Pandey

1. Essential of statistical analysis in medical research, National Symposium on Clinical Research Methodology, 5-6 August 2017, Salem, Tamil Nadu
2. Sample size determination and data analysis, Workshop on Research Methodology, 7-9 September 2017, Government Medical College, Srinagar
3. Essentials of research methods, Workshop on Research Methodology for Physicians in Clinical Practice, 3 September 2017, New Delhi
4. A primer of statistical terminologies and measures, Young Clinical Program 2017, 28 October 2017, Hyderabad, Andhra Pradesh
5. Quasi experimental study designs, 35th Annual Conference of Indian Society for Medical Statistics and Pre-Conference Workshops on Epidemiological Study Designs, 1-4 November 2017, SGPSIMS, Lucknow, Uttar Pradesh
6. An overview of study designs, Research Methodology, 14 December 2017, Jodhpur, Rajasthan
7. An overview of study designs and statistical methods, Workshop on Research Methodology, 30 November 2017, National Institute of Ayurveda, Jaipur, Rajasthan
8. Sample size and sampling methods, Capacity Building Workshop, 4-5 February 2018, Jodhpur, Rajasthan
9. Sample size determination and sampling methods, Zonal OR Workshop, 31 March 2018, Manali, Himachal Pradesh

S.N. Dwivedi

1. Statistics in transformational clinical research, Professor S.N. Singh Memorial Lecture, 24 July 2017, Banaras Hindu University, Varanasi
2. Design and procedure of National Sample Survey, Training Course on Demographic Data Analysis for Health Personnel, 2 February 2018, NIHFW, New Delhi
3. Statistics in meta analysis and related sub-group and sensitivity analysis, International Conference on Changing Paradigms and Emerging Challenges in Statistical Sciences, 29-31 January 2018, Pondicherry University, Pudhucherry
4. Randomized response technique and its applications in public health, National Conference on Advanced Developments in Theoretical and Applied Statistics, 13-15 November 2017, Banaras Hindu University, Varanasi

5. (i) Concept of data and its presentation;
(ii) Summary measures of central tendency and variability; and
(iii) Fundamentals of hypothesis testing and confidence interval, during a on at,
As an invited speaker delivered three lectures in a workshop on bio-statistical methods in public health, 27 October 2017, Uttar Pradesh University of Medical Sciences, Saifai, Etawah, UP
6. (i) Network meta analysis; and
(ii) Need of sub-group and sensitivity analysis,
Pre-Conference Workshop on Systematic Review and Meta-Analysis under 35th Annual Conference of Indian Society for Medical Statistics during 1-4 November 2017, SGPGIMS, Lucknow

V. Sreenivas

1. Confidence interval, Research Methods Workshop for Biomedical Scientists, 9 June 2017, Ambedkar Center for Biomedical Research, Delhi University, New Delhi
2. Descriptive statistical methods, Research Methods Workshop for Medical Faculty, 27-28 June 2017, Kalinga Institute for Medical Sciences, Bhubaneswar, Odisha
3. Confounding and bias in research, Research Methods Workshop for Medical Faculty, 27-28 June 2017, Kalinga Institute for Medical Sciences, Bhubaneswar, Odisha
4. Criteria for causation, Research Methods Workshop for Medical Faculty, 27-28 June 2017, Kalinga Institute for Medical Sciences, Bhubaneswar, Odisha
5. Correlation and regression, Research Methods Workshop for Biomedical Scientists, 2 July 2018, National Institute of Cancer Prevention and Research, ICMR, NOIDA
6. Correlation, regression and survival analysis, Research Methods Workshop for Medical Faculty and Residents, 17 August 2017, Institute for Liver and Biliary Sciences, New Delhi
7. Statistical consultation, National Workshop on Statistical Methods in Research, 3-4 September 2017, Tribhuvan University, Kathmandu, Nepal
8. Scope of biostatistics in medical and health research, Research Methods Workshop for Medical Faculty and Residents, 9-10 February 2018, Rajasthan University of Health Sciences, Jaipur
9. Sampling techniques, Research Methods Workshop for Medical Faculty and Residents, 9-10 February 2018, Rajasthan University of Health Sciences, Jaipur
10. Generation of a research question and study hypothesis, International Workshop on Research Methodology and R Programming, 20-21 March 2018, Acharya Nagarjuna University, Guntur
11. Logic of statistical inference, International Workshop on Research Methodology and R Programming, 20-21 March 2018, Acharya Nagarjuna University, Guntur

M. Kalaivani

1. Essential aspects of biostatistics: Design and conduct and analysis, Essential Aspects of Biostatistics in Research, 27-28 April 2017, Government Yoga and Naturopathy Medical College, Chennai
2. Sample size calculation using nMaster, Operational Research Workshop, 22 November 2017, Comprehensive Rural Health Services Project, Ballabgarh
3. Role of biostatistics in evaluating Unani System of Medicine, International Conference on Unani Medicine, 10 February 2018, A.P. Shinde Symposium Hall, NASC Complex, Pusa, New Delhi
4. Basic biostatistics, sample size estimation and power determination, correlation, regression and ANOVA, Public Nutrition Research Methods and Policy Course 2018, 21-22 February 2018, Gurgaon, NCR, Delhi

Oral papers/posters presented

1. Pandey RM, Kamal VK. Comparison of statistical methods for prognostication of patients with traumatic brain injury in India, 21st International Epidemiological Association (IEA) World Congress of Epidemiology (WCE2017), 20 August 2017, Saitama, Tokyo, Japan
2. Mona P, Dwivedi SN, Bhaskar T. Variance estimation methods in meta-analysis: An appraisal, International Conference of the Royal Statistical Society 2017, 4-7 September 2017, Glasgow, Scotland, UK
3. Mona P, Dwivedi SN, Bhaskar T. Time to event modelling with and without consideration of competing risk, 35th Annual Conference of the Indian Society for Medical Statistics, 1-4 November 2017, SGPGIMS, Lucknow
4. Kalaivani M, Pandey RM. An application of cox frailty model in identifying determinants of neonatal mortality in Empowered Action Group states in India. Presentation: Oral, 21st International Epidemiological Association (IEA) World Congress of Epidemiology (WCE2017), 20 August 2017, Saitama, Tokyo, Japan

5. Mona P, Dwivedi SN, Bhaskar T. Analytical appraisal of methods to assess assumptions at various levels under network meta-analysis, 35th Annual Conference of the Indian Society for Medical Statistics, 1-4 November 2017, SGPGIMS, Lucknow
6. Datt UA, Anju D, Sreenivas V, Dwivedi SN. Randomized response technique vs direct interview: Assessment of tobacco use among adolescents, 35th Annual Conference of the Indian Society for Medical Statistics, 1-4 November 2017, SGPGIMS, Lucknow

RESEARCH

Funded projects

Ongoing

1. Multicentric trial to study the effect of early active mobilization as compared to three weeks immobilization following tendon transfer procedures for claw hand (Data coordination and study monitoring), V. Sreenivas, ICMR, New Delhi, 3 years, 2015-2018, Rs 21.22 lakhs
2. Chron's Disease in India: A multi-center study from a country where intestinal tuberculosis as well as Johne's Disease is endemic (Data coordination and study monitoring), V. Sreenivas, DHR, 3 years, 2016-2019, Rs 27.99 lakhs
3. The effect of geographical health inequalities on under five child mortality in India, MA Khan, DST, 3 years, 2017-2020, Rs 15.93 lakhs

Completed

1. Diabetes-liver disease embrace: A cross-sectional multi-centric study to explore the effect of diabetes on short term outcome of acute and chronic liver disease, V. Sreenivas, Bristol Myers Squibb Foundation through the West Bengal Liver Foundation, 3 years, 2014-2017, Rs 10.8 lakhs

Departmental projects

Ongoing

1. Neoadjuvant chemotherapy in treatment of breast cancer: A systematic review and meta-analysis
2. Tobacco alcohol use among adolescents in India—Appraisal of data collection methods and modeling of associated factors
3. Factors associated with lymph node involvement and local recurrence among oral cancer patients—Biostatistical considerations
4. Comparison of a statistical models for recurrent exacerbations and long-term control asthma in children in Northern India

Collaborative projects

Ongoing

1. AIIMS-ERASMUS cohort study: A population based prospective cohort study to unravel the causes of stroke and cognitive decline: A cross-cultural perspective, Neurology
2. Role of fluoride toxicity on renal pathogenesis in childhood nephrotic syndrom: An ultra structural, biochemical and proteomic study, Anatomy
3. Role of Hydrogen Sulphide on migration of human trophoblast cells, Anatomy
4. Comparison of statistical models for recurrent exacerbations and long term control of asthma in children in Northern India, Biostatistics
5. Study of potential modulator targeting pathways involved in the hyperphosphorylation of Tau in Alzheimer Disease, Biophysics
6. Development of serum protein marker and study of antioxidative effect using potential modulator for Alzheimer's Disease, Biophysics
7. Interventions of human leukocyte Antigen-G in HNSCC and its therapeutic implications, Biophysics
8. Effect of structured Yoga program on stress and professional quality of life among selected nursing staff in a tertiary care hospital of Delhi—A small scale phase-2 trial, Community Medicine
9. Efficacy of Yoga based cardiac rehabilitation in Post-PCI patients: A prospective randomized, open-label, blinded end-point trial, Centre for Integrated Medicine and Research
10. Comparison of post extraction bleeding complication in patients taking oral anticoagulants, with and without bridging therapy: A pilot study, Dentistry

11. Study of orthostatic hypotension in older Indians, Geriatric Medicine
12. Study of cognition in frail older adults, Geriatric Medicine
13. Clinical biochemical and radiological profile in mild behavioural impairment, Geriatric Medicine
14. Gait and balance assessment in patients attending memory clinic, Geriatric Medicine
15. Comprehensive geriatric assessment of older adults attending fragility clinic in a tertiary health care setting in India, Geriatric Medicine
16. Harmonized Diagnostic Assessment of Dementia (DAD) for Longitudinal Aging Study of India (LASI), Geriatric Medicine
17. Impact of frailty and geriatric syndromes on outcome of major orthopaedic surgery in older Indian, Geriatric Medicine
18. A randomized control study to evaluate the efficacy of Srambler Therapy in the management of oncological pain in cancer patients, IRCH
19. Awareness and knowledge of Indian breast cancer patients pertaining to genetic aspect of breast cancer, IRCH
20. Study of population genetics of clinical strains of pneumocystis jirovecii and its clinical epidemiological correlation, Microbiology
21. Intestinal parasitic co-infections in patients with HIV/AIDS and its effect on CD4 count, viral load and antiretroviral drug resistance, Microbiology
22. Assessment of therapeutic response of radiolabeled anti CD20 antibodies 131 Iodine Rituximab/90 in Delhi and adjoining area, Microbiology
23. Molecular characterization of Neisseria meningitides isolated from cases of acute bacterial meningitides in Delhi and adjoining area, Microbiology
24. Phenotypic and genotypic characterization of Non-Typeable Haemophilus Influenza (NTHi) from North India, Microbiology
25. Study of cognition and quality of life in chronic intractable epilepsy using Functional Magnetic Resonance Imaging (fMRI), Neurology
26. Investigation of role of transcranial magnetic stimulation in Parkinson's Disease, Neurology
27. Designing and validation of evidence based questionnaire in English and Hindi for a population based cohort study in India, Neurology
28. Prevalence and determinants of cerebral micro-bleeds in people aged 50 years and above residing in urban Delhi: A population based cross sectional study, Neurology
29. Prevalence of incidental findings on brain MRI in adults aged 50 years and above: A population based cross-sectional study, Neurology
30. Role of various magnetic resonance imaging and spectroscopic methods in the evaluation of prostate cancer, NMR
31. Identification of biomarkers in Parkinson's Disease using NMR, NMR
32. Metabolomics study of prostate cancer by using NMR spectroscopy, NMR
33. Role of MR guided biopsy in detection of prostate cancer, NMR
34. Dosimetric study in children and young adults with differentiated thyroid cancer undergoing radioiodine (¹³¹I-Na) therapy, Nuclear Medicine
35. Study on cytogenetic toxicity of low dose ¹³¹I therapy in hyperthyroid patients by using micronuclei assay, Nuclear Medicine
36. Dosimetric studies in radionuclide therapy of neuroendocrine tumors with ¹⁷⁷Lu DOTA- TATE, Nuclear Medicine
37. To study concept of professionalism in nursing, its correlates and prepare a model framework of curriculum in professionalism for nursing education, College of Nursing
38. Association of IKZF-1 gene alterations and Cytokine Receptor-Like Factor 2 (CRLF-2) expression with prognostic parameters at presentation and response to induction chemotherapy in Indian children with Acute Lymphoblastic Leukemia (ALL), Pediatrics
39. Detection of Minimal Residual Disease (MRD) in B-cell lineage acute lymphoblastic leukemia by flow cytometry at end of induction, Pediatrics
40. Post Transplant Diabetes Mellitus (PTDM): A prospective observational study, Pharmacology
41. Evaluation of vascular functions, baroreflex sensitivity and angiogenic factors during the course of pregnancy in women with preeclampsia, Physiology
42. A study of endothelial function and gene expression in healthy individuals, and their correlation with various somatotype classifications, Physiology

43. To study the role of vascular function and pain sensitivity in micro vascular angina, Physiology
44. Biostatistical aspects of prognostic factors including molecular parameters in breast cancer patients: An epidemiological appraisal, Radiotherapy
45. Biomarkers in peripheral arterial disease, Surgical disciplines
46. A study to evaluate the efficacy of supervised exercise training programme in patients of peripheral artery disease of lower limbs and evaluate their quality of life, Surgical Disciplines
47. Randomized controlled trial to compare efficacy of injection Benjathine Penicillin, upper limb exercise and care versus upper limb exercise and care only in prevention of upper limb lymphedema following breast cancer surgery, Surgical Disciplines
48. Study of involvement of specific neuropeptides at spinal level in the rat model of post operative pain (PhD thesis project), Anatomy
49. Expression of selective neurotransmitters and neuropeptides in the spinal cord of morphine tolerant rats (PhD thesis project), Anatomy
50. Effects of pre and post-natal exposure to fluoride on enteric nervous system (PhD thesis project), Anatomy
51. Role of TET2 protein in Myelodysplastic Syndrome (PhD thesis project), Biochemistry
52. Association between cancer cell differentiation and tumor microenvironment in human colorectal carcinoma association between cancer cell differentiation and tumor microenvironment in human colorectal carcinoma (PhD thesis project), Biochemistry
53. Role of TET2 proteins in pathogenesis of AML (PhD thesis project), Biochemistry
54. Economic burden, prevention and control of pneumonia among elderly (PhD thesis project), Centre for Community Medicine
55. Strengthening/promoting evidence based advocacy for influenza prevention and control in India (CDC Atlanta, 2018-2023, Rs 8.1 crores/p.a), Centre for Community Medicine
56. Establishing a network of population based influenza surveillance platforms for elderly persons in India (CDC Atlanta, 2017-2018, Rs 4.0 crores/p.a), Centre for Community Medicine
57. Epidemiological study of respiratory pathogens in acute respiratory tract infections among children and elderly in India (PhD thesis project), Centre for Community Medicine
58. Effect of Vitamin D supplementation on outcome in children undergoing open heart surgery: A randomized controlled trial, CTVS
59. Early enteral feeding with supplemented mother's milk in post-operative pediatric cardiac surgical patients—A randomized controlled trial, CTVS
60. A prospective split face randomized controlled study comparing injection of autologous fat alone versus autologous fat mixed with platelet rich plasma for age related facial volume deficit especially tear trough deformity; with isolation and characterization of adipose derived stem cells (AIIMS Intramural funding 2017-2019), Dermatology
61. Descriptive epidemiological study of patients with dermatophytic infections attending tertiary care centre in Northern India (MD thesis project), Dermatology
62. Comparison of efficacy of non-cultured extracted hair follicle root sheath cell suspension with noncultured epidermal cell suspension in repigmentation of leucotrichia in vitiligo (MD thesis project), Dermatology
63. A descriptive study to classify periocular hyperpigmentation based on clinic-investigative profile (MD thesis project), Dermatology
64. Estimation of epidermal ceramides in autosomal recessive congenital ichthyosis and its correlation with phenotype and genotype (MD thesis project), Dermatology
65. Cross-sectional study to assess autonomic nervous system imbalance and its correlation with cutaneous manifestations in patients with systemic sclerosis (MD thesis project), Dermatology
66. Clinical, biochemical, hormonal familial characteristics and FTO gene variation in women with PCOS, with and without family history of Type 2 Diabetes Mellitus (PhD thesis project), Endocrinology
67. Molecular insights in to the complications of idiopathic hypoparathyroidism (PhD thesis project), Endocrinology
68. Exploration of autoimmune basis of Indian patients with idiopathic hypoparathyroidism (PhD thesis project), Endocrinology
69. Unique features of idiopathic hypoparathyroidism (PhD thesis project), Endocrinology
70. Role of contrast enhanced ultrasound in the diagnosis of hepatocellular carcinoma in patients of cirrhosis and in the assessment of tumor response after percutaneous ablation, Gastroenterology
71. Role of micro RNAs as a biomarker in hepatocellular carcinoma, Gastroenterology

72. Assessment of liver fibrosis in patients with chronic liver disease using transient elastography, shear wave elastography and serum biochemical markers (Departmental project), Gastroenterology
73. Biomarkers for assessment of villous abnormalities in patients with celiac disease and other enteropathies (PhD thesis project), Gastroenterology
74. Development and validation of a tool for assessment of adherence to gluten free diet in Indian celiac disease patients, Gastroenterology
75. To study the diagnostic performance of presepsin in sepsis—A pilot study (DM thesis project), Medicine
76. Psychiatric co-morbidities in TB/HIV co-infection (DM thesis project), Medicine
77. Role of N-Terminal pro-BNP and cardiac Troponin-I as a biomarker to predict mortality in patients of sepsis (MD thesis project), Medicine
78. Quality improvement of the invasive procedures routinely done in medicine ward (MD thesis project), Medicine
79. Efficacy of Yoga on symptom severity and quality of life of patients suffering from pain predominant medically unexplained symptoms (MD thesis project), Medicine
80. Clinical and biological significance of mutations in mitochondrial DNA in AML (PhD project), Medical Oncology, IRCH
81. Gene expression profile and its correlation with mitochondrial energy metabolism in pediatric AML, Medical Oncology, IRCH
82. Role of bone marrow micro-environment in multiple myeloma, Medical Oncology, IRCH
83. Bortezomib, lenalidomide and dexamethazone based consolidation therapy after autologous hematopoietic stem cell transplantation in multiple myeloma—A single arm prospective study (DM thesis project), Medical Oncology, IRCH
84. Pazopanib based combination therapy in platinum resistant, platinum refractory and advanced ovarian cancer: A randomized Phase 2 study (DM thesis project), Medical Oncology, IRCH
85. Three arm phase II/III RCT in patients with unresectable or metastatic GBC with poor performance status by best supportive care vs erlotinib vs capecitabine (DM thesis project), Medical Oncology, IRCH
86. Standardization of a real time PCR for the diagnosis of acute bacterial meningitis and correlation of humoral and cell mediated immune response in the CNS (PhD thesis project), Microbiology
87. Quantitative real time PCR and genotyping for cytomegalovirus in ulcerative colitis (PhD thesis project), Microbiology
88. Magnitude of Prosthetic Joint Infections (PJI) and role of amplification based DNA analysis for identifying microbial profile of prosthetic joint infections in a Tertiary Care Hospital (PhD thesis project), Microbiology
89. Effectiveness of bundled intervention in surgical site infections among patients undergoing clean orthopedic surgery with hardware implants: A randomized control trial, Microbiology
90. Impact of early organism identification by MALDI TOF on antibiotic prescription pattern and clinical outcomes (DM thesis project), Microbiology
91. Detection of Neisseria Gonorrhoeae in genital and extra genital sites in men having sex with men (MSM) (MD thesis project), Microbiology
92. Effect of yoga as add-on therapy in migraine—A randomized controlled study (DM thesis project), Neurology
93. Development of a diagnostic panel of blood markers in the diagnosis and prognostication of acute ischemic stroke (PhD thesis project), Neurology
94. Genetic and clinical factors associated with aspirin resistance in Indian patients with Ischemic stroke (PhD thesis project), Neurology
95. Study on role of intensive physiotherapy and Trans Cranial Magnetic Stimulation (TMS) in stroke recovery and the correlation of growth factors with intervention and recovery, Neurology
96. Standardization of dynamic F-18 FDG PET/CT protocol and comparison of whole body F-18 FDG PET CT with whole body diffusion weighted MRI for early treatment response evaluation in non-small cell lung cancer, Nuclear Medicine
97. Understanding the BRB transponder functions and evaluation of aptamers in the experimental model of uveitis (PhD thesis project), Ocular Pharmacology, Dr RP Center
98. Developing and validating QSPR model for enhanced penetration of drugs across blood ocular barriers (PhD thesis project), Ocular Pharmacology, Dr RP Center
99. Pharmacological modulation of inflammation in experimental model of ischemia reperfusion injury in rat heart (MD thesis project), Pharmacology

100. Development and validation of a questionnaire for assessing the medication adherence of hypertensive patients in India (MD thesis project), Pharmacology
101. Randomized controlled trial to study the efficacy of exercises in early stage Parkinson's Disease (MD thesis project), Physical Medicine and Rehabilitation
102. Quantitative EEG correlates of cognitive deficits and stress reactivity in mild cognitive impairment and Alzheimer's Disease (PhD thesis project), Physiology
103. Transcriptomic study to elucidate the pathophysiological mechanisms in COPD (PhD thesis project), Physiology
104. Quantitative EEG correlates of emotion induced changes in cognitive performance in healthy volunteers (PhD thesis project), Physiology
105. Genomic expression and protein profile correlates of peripheral blood mononuclear cells in obesity after Yoga-based lifestyle intervention (PhD thesis project), Physiology
106. Effect of angiotensin converting inhibitor on autonomic, vascular and endothelial function in Type 2 diabetes with newly diagnosed hypertension (PhD thesis project), Physiology
107. Muscle regeneration after iron oxide nano-particle implantation and effect of magnetic field in complete spinal cord injury rat model (PhD thesis project), Physiology
108. Randomized controlled trial to study the efficacy of exercises in early stage Parkinson's Disease (MD thesis project), PMR
109. Psycho-social correlates of caregiving experience among caregivers of patients with schizophrenia (PhD thesis project), Psychiatry
110. Development of Psychological Intervention Manual for adolescents with dissociative conversion disorder, Psychiatry
111. Comparative evaluation of nasogastric feeding and percutaneous radiologic gastrostomy for enteric support in patients with moderate and severe dysphagia due to neoplasms of oropharynx or esophagus: A pilot randomized controlled trial (AIIMS intramural funding), Radiodiagnosis and Imaging, IRCH
112. Multiparametric MRI and Ga-68 PSMA PET scan in the evaluation of intermediate and high risk prostate cancer (MD thesis project), Radiodiagnosis
113. Diagnostic and prognostic role of MRI in acute traumatic cervical cord injury (MD thesis project), Radiodiagnosis
114. Assessment of scar post MI with the help of cardiac MRI (MD thesis project), Radiodiagnosis
115. Role of interventional radiology in obstetric related hemorrhage (MD thesis project), Radiodiagnosis
116. Evaluation of neck masses using diffusion weighted MR imaging and ultrasound elastography, unfunded, departmental project, Radiodiagnosis
117. Magnetic resonance imaging evaluation of adult traumatic brachial plexus injury (MD thesis project), Radiodiagnosis
118. Dynamic MRI in evaluating upper airway in Obstructive Sleep Apnoea Syndrome (MD thesis project), Radiodiagnosis
119. Role of perfusion CT in evaluation of non-small cell lung carcinoma in patients undergoing chemotherapy (MD thesis project), Radiodiagnosis
120. Role ultrasound guided wire localization of axillary lymph nodes in increasing the accuracy of sentinel lymph node biopsy after NACT in breast cancer (MD thesis project), Radiodiagnosis
121. Minimally invasive autopsy in the evaluation of fetal malformations and still births—A feasibility study for the development of a standard protocol for still birth evaluation, Pediatrics
122. A pilot multicentre open label parallel arm RCT evaluating whether Yoga can delay initiation of insulin therapy in patients with Type 2 diabetes mellitus with suboptimal glycemic control on near maximal oral drugs and/or who may require insulin therapy in near future, Endocrinology
123. Effect of Yoga on psychological, cognitive and glycemic control in patients with T2DM and depression: Two arm parallel randomized controlled trial, Endocrinology
124. Effects of Yoga in adult patients with Type 2 diabetes mellitus: A pilot randomized control trial, Endocrinology
125. Effect of resveratrol supplementation on cognitive function and estrogen receptor profile in hypothalamus and hippocampus of arsenic trioxide-exposed adult female mice, Anatomy
126. Health and nutrition behavior need assessment of community based youth men in North India, Centre for Community Medicine
127. Mapping functional and biochemical correlates in brain of Parkinson's patients with mild cognitive impairment, NMR and MRI facility
128. Evaluation of the blood inventory management in a hospital based blood bank and evolution of strategy to minimize shortage and outdate of blood, Biochemistry

129. Role of sperm molecular factors in recurrent pregnancy loss, Anatomy
130. Effect of regional anesthesia on perioperative inflammatory cytokines alteration and clinical complications in orthopedic trauma surgery, Anaesthesiology and Intensive Care (JPNATC)
131. Effect of curcumin on mice basal forebrain structures following arsenic trioxide exposure, Anatomy
132. Evaluation of eating disorders and dietary patterns and their association with metabolic parameters and glycemic control in adult patients with diabetes mellitus Type 2, Endocrinology
133. Diabetes and hypertension among elderly persons in a rural area of Ballabgarh, Haryana, Centre for Community Medicine

Completed

1. Biostatistical modeling of graft failure in renal transplant, Biostatistics and Health Informatics, SGPGIMS, Lucknow
2. Role of micro RNA 30 in cystathionine gamma lyase mediated trophoblast cell invasion and its status in preeclampsia, Anatomy
3. Role of miR-22, specificity protein-1 and cystathionine gamma lyase in regulating invasiveness of trophoblast, Anatomy
4. Quantitative estimation of Aluminium and Zink using ICP-AES from fatal phosphide poisoning, Forensic Medicine
5. Evaluation of novel intracellular proteins in serum as marker of aging, Geriatric Medicine
6. Study of muscle regeneration in elderly: Development of a mice model, Geriatric Medicine
7. Study of TSPO enhanced PET scan in evaluation of cognitive impairment in older adults, Geriatric Medicine
8. Efficacy of intensive dietary counseling on metabolic, anthropometric and ultrasound parameters among adult Indian Non-Alcoholic Fatty Liver Disease (NAFLD) patients: A randomized controlled trial, Medicine
9. Study of population genetics of clinical strains of pneumocystis jirovecci and its clinical epidemiological correlation, Microbiology
10. Intestinal parasitic co-infections in patients with HIV/ AIDS and its effect on CD4 count, viral load, and antiretroviral drug resistance, Microbiology
11. Assessment of therapeutic response of radiolabeled anti CD20 antibodies 131 Iodine Rituximab/90 in Delhi and adjoining area (Biostatistics and Microbiology), Microbiology
12. Role of various Magnetic Resonance Imaging and Spectroscopic Methods in the evaluation of prostate cancer (Biostatistics and NMR), NMR
13. Post Transplant Diabetes Mellitus (PTDM): A prospective observational study (Biostatistics and Pharmacology), Pharmacology
14. Evaluation of vascular functions, baroreflex sensitivity and angiogenic factors during the course of pregnancy in women with preeclampsia, Physiology
15. Biomarkers in peripheral arterial disease, Surgical Disciplines
16. Assessment of implementation and barriers related to Weekly Iron Folic Acid Supplementation Programme (WIFS) for school based adolescents in National Capital Territory Region, Delhi; North India, Centre for Community Medicine
17. Value of intra ventricular synchronism assessment by gated-SPECT myocardial perfusion imaging in the management of heart failure patients submitted to cardiac resynchronization therapy, Cardiology
18. Age related changes in the human inferior Colliculus: A morphological and neurochemical study, Anatomy
19. Evaluation of plasma circulating nucleic acids and in-vitro analysis of triplex binding proteins in relevance with the pathogenesis of friedreich-ataxia, Biochemistry
20. Epidemiological study of respiratory pathogens in acute respiratory tract infections among children and elderly in India (CDC Atlanta), Centre for Community Medicine
21. Prevalence of disability and its association with quality of life among adult population in rural Ballabgarh, Haryana, Community Medicine
22. Comparison of DelNido and custodial cardioplegia solutions in pediatric patients undergoing open heart surgeries: A prospective randomized controlled trial, CTVS
23. Can suspended non-cultured epidermal cell suspension transplantation in platelet rich plasma improve repigmentation in stable vitiligo—A double blind randomized controlled study, Dermatology
24. A study of spontaneous repigmentation and disease quiescence (stability) in vitiligo, Dermatology
25. A randomized controlled trial to compare efficacy of diclofenac with pentazocine for relief of abdominal pain in patients with acute pancreatitis, Gastroenterology

26. Survival analysis of PLHA with adult HIV progression model, Medicine
27. Reducing AIDS stigma among health providers in India, Medicine
28. To determine the association of Vitamin D deficiency with SLE flare, Medicine
29. Outcome of protocol based weaning in mechanically ventilated patients in medical ICU, Medicine
30. Reference values for cardio-pulmonary exercise testing parameters in healthy Indian adults, Medicine
31. To study clinical and biological significance of mutations in mitochondrial DNA regulatory region in acute myeloid leukemia (Funded by DBT), Medical Oncology, IRCH
32. Evaluation of the correlation between absolute lymphocyte count and minimum residual disease in pediatric ALL patients, Medical Oncology, IRCH
33. Early stoppage versus continuation of antimicrobial therapy in low risk pediatric cancer patients with febrile neutropenia before recovery of counts: A randomized controlled study-DALFEN study, Medical Oncology, IRCH
34. Phase-III open labelled randomized controlled study to compare efficacy and safety of pemetrexede carboplatin versus paclitaxel carboplatin as induction regimen in advanced non-squamous non-small-cell lung cancer, Medical Oncology, IRCH
35. A phase-III open label randomized study to compare the efficacy of Lenalidomide Rituximab vs Bendamustine Rituximab in treatment naïve follicular lymphoma, Medical Oncology, IRCH
36. Linezolid use and resistance in an intensive care unit of tertiary care hospital, Microbiology
37. Incidence of carbapenem resistant enterobacteriaceae in rectal swab samples of hematological malignancy patients, Microbiology
38. Development of a molecular diagnostic probe for detection of Cryptosporidium spp. and further characterization of the parasite in patients, Microbiology
39. Co-localization of IgA and IgG anti-tissue transglutaminase antibodies in tissue of extra-intestinal celiac disease: A pilot study, Pathology
40. Prevalence of tuberculosis infection in newly diagnosed children with acute leukemia, Pediatrics
41. Neurocognitive functions in survivors of ALL, Pediatrics
42. Somatic growth after bladder augmentation, Pediatric Surgery
43. Role of multiparametric MRI, diffusion tensor imaging and quantitative shear wave elastography in evaluation of prostate cancer, Radiodiagnosis
44. Role of shear wave elastography in predicting response to neoadjuvant chemotherapy in breast cancer patients, Radiodiagnosis
45. Study to evaluate the feasibility of response adapted whole brain radiotherapy after methotrexate based chemotherapy in patients of newly diagnosed primary CNS lymphoma, Radiation Oncology
46. Use of screen based media and assessment of screen time among adolescents aged 10-19 years, in an urban resettlement colony, New Delhi, Centre for Community Medicine

PUBLICATIONS

Journals: 119

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor R.M. Pandey had the following honors and significant events. Ethics Committee: Chairperson of Indian Institute of Public Health (Under PHFI), Delhi; Member: United Nations Regional Centre for Biotechnology, under DBT. Coordinator: Mandatory five days workshop on research methodology, writing and communication, for the PG students at the AIIMS; Member: Scientific Advisory Committee of National Institute of Epidemiology (ICMR), and Regional Medical Research Center (RMRC-ICMR); Operations Research on RNTCP (Government of India); Research Advisory Council, BPKIHS, Dharan, Nepal; Research Advisory Committee, Vallabh Bhai Patel Chest Institute, Delhi University; Academic Council Santosh University (Under UGC), Ghaziabad; Steering Committee Member of Multi-centric collaborative study of the clinical, biochemical and molecular characterization of Lysosomal storage disorders in India; Expert Committee, Task Force Project on Cleft Lip and Palate Anomaly (ICMR); Technical Advisory Group on grand challenges India/Nutrition and Health funded by Bill Melinda Gates Foundation and DBT; Expert Committee to evaluate R&D proposals on the possible impact of IMF radiation exposure from mobile towers and handsets on life and related R&D initiative by DST; Expert committee on estimation of burden of pediatric HIV cases in India (ICMR); Member DSMB: Community based Kangaroo mother care on newborn mortality, coordinated by WHO; Member of Scientific Academic Committee of National Institute of Epidemiology, Chennai; ICMR-Regional Medical Research Centre, Bhubaneswar; Examiner: PhD thesis submitted at Delhi University, Delhi; IIPS, Mumbai; CMC Vellore and Kerala University; Chaired a scientific session during World Congress of Epidemiology, Saitama, Japan.

Professor S.N. Dwivedi delivered Professor S.N. Singh Memorial Lecture on “Statistics in Transformational Clinical Research” at BHU, Varanasi; Involved as an external member of the Board of Post Graduate Studies in Statistics at Assam University, Silchar, Assam; Member of Governing Body of the Institute of Applied Statistics and Development Studies, Lucknow; Member (UGC Nominee) of the Advisory Committee to encourage group research efforts in pursuit of excellence in identified thrust areas including biostatistics at Department of Statistics, Calcutta University; Chief-Guest for the Departmental Festival “SIMULATION-18” of the Department of Statistics, Sri Venkateswara College, Delhi University, Member of the Data Safety Monitoring Board (DSMB) for a Multicentric Study “mWellcare: An integrated mHealth System for Prevention and Care of Chronic Diseases”, at PHFI; and for a clinical trial entitled “Evaluating the efficacy and safety of an innovative and affordable Goat Lung Surfactant for the Treatment of respiratory distress syndrome in preterm neonates: A multi-site randomized clinical trial”, at Department of Pediatrics; Member of the Task Force Committee on Methods for ICMR; Special Project Review Committee for Model Rural Health Research Units (Block Level) of the Department of Health Research, MHFW, Government of India; Project Review Committee on Oral Health, ICMR; Scientific Advisory Committee (SAC) of the National Institute of Medical Statistics (NIMS), ICMR; Epidemiological Research Expert Group of National Institute of Research in Environmental Health, Bhopal, (Indian Council of Medical Research). Invited by the Office of the Principal Scientific Advisor (PSA) to the Government of India to attend a Book Review Committee Meeting regarding possible uploading of a book in the website of the Office of the PSA; Served as judge to assess oral presentations of award papers in and recommend first three best papers for the award, during a National Conference on Advanced Developments in Theoretical and Applied Statistics, BHU, Varanasi; and chaired a session. Chaired a Scientific Session on “Advances in Meta-Analysis and Systematic Review”, during 35th Annual Conference of the Indian Society of Medical Statistics held at SGPGIMS, Lucknow; Chaired an Invited Session on “Systematic Review and Meta Analysis”, during an International Conference on Changing Paradigms and Emerging Challenges in Statistical Sciences held at Pondicherry University, Puducherry; As an External Examiner, evaluated three PhD. Theses for award of PhD degrees in Statistics of Gauhati University, Guwahati; As an external examiner, conducted PhD Viva Voce Examinations at Statistics Department of Gauhati University, Guwahati; Department of Mathematics and Statistics, BITS, Pilani, Rajasthan; Department of Statistics, Institute of Science, BHU, Varanasi; and at International Institute for Population Sciences, Mumbai; As an External Examiner, set a question paper in Applied Statistics for MSc (Clinical Research) students at Jamia Hamdard University, New Delhi; As external assessor evaluated research of a faculty regarding promotion to the rank of Professor of Biostatistics at Hamdan Bin Mohammed College of Dental Medicine, Mohammed Bin Rashid University of Medicine and Health Sciences, Dubai, UAE; Member of Selection Committee at NIMHANS, Bengaluru; Editor of Demography India; Member of Editorial Board for “Indian Spine Journal”; and of Indian Journal of Child Health.

Professor V. Sreenivas was member, Scientific Advisory Committee (SAC) of the National Institute for Cancer Prevention and Research, ICMR; Member, Assessment Board for Promoting the Scientists of the Indian Council of Medical Research; Member of Task Force Committees of ICMR on Neurology, Non-Ionizing EMF on Human Health, Studies on sleep disorders and DM with traditional medicines, Polycystic ovarian disease, Male contraceptive RISUG trial; Member, Selection Committees and Screening Committees for various posts, ICMR; Member of Project Review Committees of Neurology, Indian Council of Medical Research, Department of Health Research, India; Statistical consultant to the Indian Journal of Dermatology and Venereal Diseases (IJDVL); Biostatistics Reviewer for Journal of Clinical Oncology (American Society for Clinical Oncology), Pediatrics (American Academy of Pediatrics), Indian Journal of Dermatology, Venereology and Leprology, and Indian Pediatrics; Statistical Consultant to the Journal of Indian Association of Child and Adult Mental Health (JIACAM); Member, Institutional Ethics Committee, AIIMS; Member, Project Review Committee for Intramural Funding, AIIMS; Member, Dean’s Research Committee, AIIMS and PhD (Statistics) examiner and thesis reviewer for Manonmani Sundarnar University, Thirunelveli.

Dr M. A. Khan was associate editor (2015-2018)—Journal of Statistics and Mathematics-USA; Editorial Board Member (Biostatistics)-International Journal of Scientific Reports; Scientific reviewer of Indian Journal of Medical Research, India; Scientific reviewer of Statistics, Optimization and Computing-an Int. Journal, USA; Scientific reviewer of Journal of Model Assisted Statistics and Applications, USA; Scientific reviewer of Journal of Obesity, UK and Scientific reviewer of Journal of Biomedical research, UK etc.

Dr M. Kalavani was statistical editor of Journal of Neuroanaesthesiology and Critical Care; Reviewer of Indian Journal of Dermatology, Venereology and Leprology (Wolters Kluwer); Member of Departmental Promotion Committee (DPC) of Central Council for Research in Unani Medicine (CCRUM).

9.7. Biotechnology

Professor and Head

Jaya S. Tyagi

Associate Professor

Anushree Gupta

Assistant Professors

Rupesh Kumar Srivastava
Sumit Rathore (Contract)

Bhupendra Kumar Verma
Nidhi Batra (Contract)

Vikram Saini
Chanchal Kumar (Contract)

Scientist

Shrabani Saugandhika

HIGHLIGHTS

The department runs a well rated Masters in Biotechnology course with specialization in Medical Biotechnology admitting 12-14 students per batch. The department also runs a PhD programme. The total strength of MSc and PhD students is 35-40. The department also mentors post-doctoral scientists and provides support to the fellowship programme of National Science Academies. Large numbers of extramural research grants are attracted by the departmental faculty from government funding agencies. Some of the faculty attended workshops related to 'Microteaching' and 'Writing a Research paper' organized by KLWig Center for Medical Education at AIIMS. Faculty have served as experts to the Government of India and various universities and institutions on Biotechnology curriculum development and various aspects of teaching and health research, delivered invited lectures, published papers in reputed peer reviewed journals, established the adjunctive therapy potential of vitamin C in the treatment of Tuberculosis, filed patents in TB diagnostic technologies and developed TB diagnostic kits.

EDUCATION

Postgraduate Teaching

The department conducts a 2 years postgraduate course in Biotechnology with emphasis on Medical Biotechnology leading to MBiotech degree. The teaching program covers 16 subjects, namely, Cell Biology, Human Genetics, Bacterial Genetics, Biochemistry, Molecular Biology, Recombinant DNA Technology, Immunology, Computer, Structural Biology, Bioinformatics, and includes Theory and Practical Classes, Seminar Presentations and Research Project (Dissertation) in frontier areas of medical research. Students are given individual attention and extensive hands on training in Practical Classes. Experts are invited from JNU, IGIB, ICGEB, NII, NIIT and University of Delhi in addition to AIIMS faculty from various specialties, to deliver seminars in biotechnology, bioinformatics, molecular medicine, genomics, proteomics etc. The department conducts a PhD program in the area of Medical Biotechnology. The department mentors and supports young scientists having DST INSPIRE Faculty Award, DBT and DST National Post Doctoral and Young Scientist Award.

Lectures delivered

J.S. Tyagi

1. Multifaceted remodeling of *M. tuberculosis* by vitamin C: Implications in TB treatment, World Tuberculosis Day Symposium, 22 March 2018, AIIMS, New Delhi

Oral papers/posters presented

1. Dhiman A, Das R, Haldar S, Sharma N, Sharma TK, Tyagi JS. APTADx: An Aptamer based mobile POC diagnostic platform for Tuberculous Meningitis (TBM), World TB Day Symposium, 21 March 2018, AIIMS, New Delhi
2. Dhiman A, Tripathi K, Haldar S, Ethayathulla AS, Ahmad Y, Sharma TK, Tyagi JS. Aptamer Technology for the rapid detection of Tuberculous Meningitis, THSTI Foundation Day 2017, 15 July 2017, Faridabad, Haryana
3. Kalra P, Mishra SK, Kaur S, Kumar A, Prasad KH, Sharma TK, Tyagi JS. G-quadruplex forming DNA Aptamers inhibit DNA-binding function of HupB (Rv2986c) and *Mycobacterium tuberculosis* entry into host cells, World TB Day Symposium, 21 March 2018, AIIMS, New Delhi (Dr M.H. Ahuja Gold Medal for best poster presentation)

4. Kumari P, Lavania S, Tyagi S, Rath D, Anthwal D, Sharma N, Dhiman A, Gadpayle AK, Sharma L, Sharma TK, Haldar S, Tyagi JS. Combining DNA and antigen detection tests results improves the laboratory diagnosis of pleural tuberculosis, World TB Day Symposium, 21 March 2018, AIIMS, New Delhi
5. Kumari P, Sikri K, Kaur K, Gupta UD, Tyagi JS. DevR/DosR expression is sustained during Long-term Hypoxia of *Mycobacterium tuberculosis*, Microbiology in the new Millennium: From *Molecules to Communities*, 28 October 2017, Bose Institute, Kolkata
6. Kumari P, Sikri K, Kaur K, Gupta UD, Tyagi JS. DevR/DosR expression is sustained during Long-term Hypoxia of *Mycobacterium tuberculosis*, SYSCON 2017-18, Bridging the gap: Basics and clinical research from bench to bedside, 11 January 2018, AIIMS, New Delhi
7. Lavania S, Dhiman A, Myneedu VP, Verma A, Singh N, Sharma TK, Tyagi JS. Clinical utility of Aptamer-based point-of-care antigen detection in sputum for the diagnosis of pulmonary tuberculosis, World TB Day Symposium, 21 March 2018, AIIMS, New Delhi
8. Sharma S, Tyagi JS. Overexpression of DevR/DosR in *Mycobacterium tuberculosis* overrides requirements of phosphorylation/cooperativity and establishes essentiality of $\alpha 10$ helix in its activation, Microbiology in the new Millennium: From Molecules to Communities, 28 October 2017, Bose Institute, Kolkata
9. Tripathi M, Santoshi M, Sharma P, Kumar V, Rathore S, Vishwas A, Malhotra N, Sharma YD. Interaction among different Plasmodium Vivax Tryptophan Rich Antigens (PvTRAGs) of Plasmodium Vivax, SYSCON 2017-18. Bridging the gap: Basics and clinical research from bench to bedside, 11 January 2018, AIIMS, New Delhi (Best paper award: Dr GP Talwar award for First prize in poster presentation)
10. Tyagi JS, Sikri K, Batra SD, Taneja NK. Characteristics and scope of multi-stress vitamin C model of *Mycobacterium tuberculosis* dormancy, Gordon Research Conference Tuberculosis Drug Discovery and Development, 28 June 2017, Lucca (Barga), Italy

RESEARCH

Funded projects

Ongoing

1. National Alliance Program for Biodesign and in-vitro diagnostics between Translational Health Science and Technology Institute and All India Institute of Medical Sciences, Jaya S. Tyagi, DBT, 8 years, 2010-2018, Rs 106.58 lakhs
2. Post Graduate Training Programme in Biotechnology with special application to Biomedicine, Jaya S. Tyagi, DBT, 5 years, 2014-2019, Rs 98.02 lakhs
3. Combating the challenge of antibiotic tolerance: Combining conventional anti-tubercular drugs with DevR dormancy regulator-targeted approaches for improving *M. tuberculosis* clearance, Jaya S. Tyagi, DBT, 3 years, 2018-2021, Rs 59.83 lakhs
4. Elucidation of cellular mechanisms involving GUT resident regulatory T cells in probiotics mediated inhibition of osteoporosis, Rupesh K. Srivastava, DST-SERB, 3 years, 2018-2021, Rs 64.94 lakhs

Completed

1. J.C. Bose National Fellowship, Jaya S. Tyagi, DST, 5 years, 2012-2017, Rs 68 lakhs
2. Novel sample processing for the simple and rapid diagnosis of TB, MDR-TB and XDR-TB, Jaya S. Tyagi, DBT (SBIRI), 2½ years, 2015-2017, Rs 47.41 lakhs
3. SysTB: A Network Program for Resolving the Intracellular Dynamics of Host-pathogen Interactions in TB infection, DBT Network Project, Jaya S. Tyagi, DBT, 7 years, 2011-2018, Rs 145.57 lakhs
4. Centre of excellence, Category III-CIEB project: Exploiting temporal transcription profile, computational analysis and post transcriptional gene silencing to identify and intercept interactions between host and dormant and actively replicating *Mycobacterium tuberculosis*, Jaya S. Tyagi, DBT, 7 years, 2011-2018, Rs 219.99 lakhs
5. To understand organelle dynamics in malaria parasite—Role of autophagy, Sumit Rathore, DST, 5 years, 2013-2018, Rs 35 lakhs

Departmental projects

Ongoing

1. Regulatory functions of DevR-DevS two component system in *Mycobacterium tuberculosis*
2. Vitamin C-modulated host response to *Mycobacterium tuberculosis* in cell infection model
3. Deciphering the mechanism of activation of Response Regulator DevR in *Mycobacterium tuberculosis*

4. Transcriptional analysis of DevR dependent promoters of *Mycobacterium tuberculosis*
5. Adaptation of *Mycobacterium tuberculosis* in dormancy models
6. Development and validation of simple, rapid and efficient diagnostic assays for Tuberculosis
7. Metabolic adaptation of *Mycobacterium tuberculosis* in vitamin C dormancy model
8. Analysis of host response to *Mycobacterium tuberculosis* in vitamin C ex vivo Model of Infection
9. Insights into *Mycobacterium tuberculosis* dormancy adaptation in axenic culture and intracellular milieu from transcriptome analysis
10. Study of host and mycobacterial DNA-binding proteins in modulating host response during infection
11. Development of novel point-of-care aptasensors for the diagnosis of pleural tuberculosis

Completed

1. Gene expression signatures of *Mycobacterium tuberculosis* strains in THP-1 cell infection model
2. Identification of DevR interacting proteins in *Mycobacterium tuberculosis*
3. Identification of complex forming Plasmodium vivax Tryptophan-Rich Antigens (PvTRAGs)
4. To identify interacting domains of PvTRAG 36.6 with its probable host receptor (Transferrin Receptor)

Collaborative projects

Ongoing

1. miRNA as evaluation biomarker for tuberculosis treatment response, ICGEB New Delhi, and InStem Bangalore

Completed

1. Cloning, expression, purification and molecular characterization of DNA gyrase, Biophysics
2. To carry out expression studies for a novel mutation in isolated growth hormone deficiency, Anatomy
3. Assessment of effect of chemically induced monocyte—Macrophage differentiation on intracellular characteristics, Biochemistry
4. Functional studies of deltaNp73 in human cancer, Biophysics
5. Cloning, expression, purification of shikimate kinase of *M. tuberculosis* and its binding study with designed inhibitors, Biophysics
6. Structural and functional studies of p53 missense mutations in human cancer, Biophysics
7. To study expression of circular RNA associated with Igf2bp3 in Hypoxia, Biochemistry
8. A study to evaluate association of single nucleotide polymorphism and epigenetic changes in neurotransmitter genes in opioid dependence, Anatomy
9. The effect of repetitive magnetic field stimulation on neurogenesis in streptozotocin induced rat model of Alzheimer's Disease, Physiology
10. Understanding organelle dynamics in *Plasmodium falciparum*, CNRS France, ICGEB New Delhi

PUBLICATIONS

Journal: 8

Chapters in Book: 1

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Mr. Manish Tripathi received Dr G.P. Talwar Award as First Prize in Poster Presentation in SYScon 2017-18, AIIMS.

Dr Priya Kalra received Dr M.H. Ahuja Gold Medal for best poster presentation in World TB Day Symposium, 2018, AIIMS.

Professor Jaya S. Tyagi is recipient of Professor (Mrs.) Archana Sharma Memorial Lecture Award 2017 of the National Academy of Sciences of India (Allahabad), J.C. Bose National Fellowship, continues as honorary visiting professor, Centre for Biodesign and Diagnostics, Translational Health Science and Technology Institute, Faridabad, Fellow of Indian National Science Academy, Fellow of Indian Academy of Sciences, Fellow of National Academy Sciences (India), Member of Guha Research Conference, Member, Council and Sectional Committee IX of INSA, New Delhi, Member, Panel on Scientific Values, Indian Academy of Sciences, Bengaluru, Member of Scientific Advisory Committee of National Institute for Research in Tuberculosis, Chennai, Member of Scientific Advisory Committee of Centre for DNA Fingerprinting

and Diagnostics, Hyderabad, Member of Scientific Advisory Committee, Member of Finance Committee and Member of Governing Body of National Centre for Cell Science, Pune, Member of Scientific Advisory Committee of National Institute of Pathology, New Delhi, Member, Scientific Advisory Committee of Stanley Browne Laboratory, The Leprosy Mission, Member of Board of Governors of IIT Roorkee, Special invitee member of Research Council, Centre for Cellular and Molecular Biology, Member of the Committee on Biochemistry, Biophysics, Molecular Biology and Microbiology, Project Advisory Committee (PAC) of SERB, DST, Member of DBT Expert Group on Tuberculosis, Member of DBT Task Force and Expert Committee on Star College Scheme, Member of DBT Task Force on HRD, Member of ICMR TB Consortium, Member, India Advisory Panel for the 5th Global Forum on TB Vaccines, Chairperson, Institutional Human Ethics Committee of Institute of Genomics and Integrative Biology, Member of the Special Committee of School of Biotechnology and School of Life Sciences, JNU, Member, Departmental Assessment Board, THSTI for assessment of faculty and chairperson, Performance Assessment Committee, Scientists/Innovation Awardees from Centre for Bio-design and Diagnostics (CBD), THSTI, Examiner of PhD/MSc examinations of PGI Chandigarh, University of Delhi, JNU, University of Calcutta, Guru Nanak Dev University, Indian Institute of Science, Professor in Charge, Central Core Research Facility, AIIMS and Co-ordinator BSL-3 and BSL-2 Laboratories, AIIMS, Member Patents Committee, AIIMS, Member Scientific Advisory Committee for AIIMS Endowment Fund, Member, Project Review Committee for the AIIMS Intramural Research Grant, Member Screening Committee for AIIMS Research Excellence Awards, Member PhD Reforms Committee, AIIMS; Co-chair for a poster discussion session on “Diagnostics and Epidemiology”, 5th Global Forum on TB Vaccines, 21 February 2018, New Delhi.

Dr Anushree Gupta is nominated as a member of Board of Governors of IISER, Mohali.

VISITING SCIENTIST

1. **Dr Prashant Nagpal**, Assistant Professor, Department of Chemical and Biological Engineering, University of Colorado, Boulder, USA on ‘Precision Medicine: Developing Quantum Biology for Transformative Healthcare Solutions’, 12 March 2018.
2. **Dr Anushree Chatterjee**, Assistant Professor, Department of Chemical and Biological Engineering, University of Colorado, Boulder, USA on ‘From Synthetic Biology to Nanobiotechnology: Rational Antimicrobial Engineering Approaches for Combating Multidrug-Resistant Pathogens’, 14 March 2018.

9.8. Community Medicine

Professor and Head
Shashi Kant

Professors

Sanjeev Kumar Gupta
Baridalyne Nongkynrih

Kiran Goswami
Puneet Misra

Anand Krishnan
Sanjay Kumar Rai

Additional Professors

Y. S. Kusuma Kumari

Associate Professors

Kapil Yadav

Sumit Malhotra

Anil Kumar Goswami

Assistant Professors

Partha Haldar
Harshal Ramesh Salve

Ravneet Kaur
Rakesh Kumar

PHN Supervisor

Mercy John

HIGHLIGHTS

The department focuses on development of a model of community based comprehensive health services through its urban and rural health programs. The Urban Health Program operates through Urban Health Center at Dakshinpuri Extension, an urban resettlement colony. The Comprehensive Rural Health Services Project (CRHSP), Ballabgarh Block, Faridabad District of Haryana is a collaborative project between the government of Haryana and AIIMS, New Delhi. The Mission of CRHSP Ballabgarh is to achieve excellence in public health by undertaking teaching, research and patient care in rural setting. It comprises of a sub-district hospital, two primary health centres at Dayalpur and Chhainsa and a network of 12 sub-centres. The Intensive Field Practice area of CRHSP covered a total population of 99,756 as of 31 March 2018.

The department continues to provide technical support to national health programmes including training, development of resource materials and field-based activities. It has been conducting faculty development on operational research at national level under Human Resource Development Health Research Scheme of Government of India. It provides leadership for elimination of IDD in India, Bangladesh and Sri Lanka. It is Regional Institute for HIV Sentinel Surveillance under Ministry of Health and Family Welfare, strengthening the States of Delhi, Uttar Pradesh, Bihar, Jharkhand and Uttarakhand. It is WHO Collaborating Centre for Capacity Development and Research in Community based NCDPC, training national level for National Monitoring Survey, NPCDCS. The department has collaborative projects with CDC Atlanta to elucidate the epidemiology of acute respiratory infections and viral pathogens in India. It has collaborations to develop Sample Registration System based Verbal Autopsy Tool, Health and Wellbeing Index to monitor Sustainable Developmental Goals at district level and climate-based Early Warning System for Vector Borne Diseases in NCR.

EDUCATION

Undergraduate MBBS Students

In their 4th-5th Semester, MBBS students are posted in the Urban Health Program for five weeks by rotation where they conduct epidemiological exercise, health talks and family studies. During these two semesters, they also participate in Family Health Advisory Services (FHAS) in which they follow up allotted families over a period of nine months and assess effectiveness of interventions implemented by them.

In the 7th Semester, they are posted for six weeks at CRHSP by rotation. This is a residential posting wherein they learn concepts of epidemiology and are oriented to community health, including sensitization to social determinants of health. They are provided learning opportunity to understand Health Systems and Health Programmes. There are special modules to train on Integrated Management of Neonatal and Childhood Illnesses (IMNCI) and epidemiology. The students also undertake a brief research project during this posting.

Interns

The interns are posted for a residential posting of 3 months at the CRHSP, Ballabgarh. This period is divided into 6 weeks at SDH, and 3 weeks at each of the PHCs located at Dayalpur and Chhainsa. At SDH, interns are posted in OPD and wards that help them to learn basic clinical skills as well as in-patient management, including conducting normal deliveries. They are rotated in all the available clinical disciplines at SDH under the supervision of respective Senior Residents (SR) of clinical specialties. During PHC posting, interns participate in healthcare delivery at the clinics of PHC, sub-centres as well as in antenatal clinics. They are also posted at the delivery hut at each PHC under overall supervision of Senior Resident Community Medicine. They get experience in community level activities such as supervision of health workers and sub-centres, follow-up TB defaulters, undertaking outreach activities, immunization etc. At the end of the CRHSP posting interns submit their log book duly signed by respective SRs for an end posting assessment.

Postgraduate Training

The postgraduate students of Community Medicine are posted in urban and rural health area for 16-18 months each. Of the total duration in rural area, they spend equal time at the SDH and the two PHCs by rotation. During rural residential posting they get ample opportunity to gain the clinical and management skills and experiences both at the SDH and PHC. The regular teaching activities include seminars, family and clinical case presentations, problem based exercises on hospital and field-practice area as well as journal clubs. They are involved in guiding and supervision of students and interns posted in the centre.

BSc Nursing and Post Certificate Nursing Students

BSc nursing students and post certificate nursing students are posted both with urban health program and a residential posting for one and half months at CRHSP, Ballabgarh. They spend one month at SDH and two weeks in either of the two PHCs. They are provided training in antenatal care, ward management and immunization. They provide health talks and carry out IEC activities in OPD and ward. Training of nursing students is supervised by a faculty member from the College of Nursing, AIIMS, New Delhi.

In-service Training

Periodic in-service trainings conducted for different cadre of staff working at the CRHSP, Ballabgarh during 2017-18 were as follows:

1. Training of trainers in Infant and Young Child Feeding (IYCF) under Mothers' Absolute Affection (MAA) Programme on 6-13 April 2017 in two phases. In the first phase, the faculty of Community Medicine, AIIMS, medical officers of Government of Haryana, SR Community Medicine and Nursing in-charges were provided the training to train in IYCF counseling and practices. In the second phase, health workers from the Primary Health Centres and Staff Nurses working at Civil Hospital Ballabgarh were provided training in IYCF by these trainers under the supervision of the master trainers. A group of 10 MAA trainers and 16 staff nurses and health workers completed the training.
2. A total of 50 hours of in-service training for Field Health Workers and ASHA Workers were conducted at PHCs Dayalpur and Chhainsa during the monthly meetings. Need based topics identified during field supervision included: Identification and facilitation of JSY beneficiaries, management of animal bite cases, management of LBW babies, importance of family planning methods and improving coverage, biomedical waste management, tracking and management of high risk pregnancy, postnatal care for mother and newborn (including complication management and Kangaroo Mother Care), IMNCI (Identification and management of sick baby), management of malnutrition at field level, cold chain management, diagnosis and management of TB cases.
3. Training session on spill management conducted for laboratory and nursing staff on 8 August 2017.
4. Training on biomedical waste management conducted for interns, resident doctors, and nursing staff on 18 August 2017.
5. Session for workplace management and housekeeping conducted for laboratory attendants and sanitation staff on 13 September 2017.
6. Refresher training on Neonatal Resuscitation for nursing staff and field health workers of the intensive field practice area was conducted on 20 March 2018 in collaboration with faculty members of the College of Nursing.

CMEs/Workshops/Symposia/National and International Conferences

1. Qualitative Research Methods for Adolescent and Youth Health (International Conference on Adolescent and Youth Health, 14-16 April), 16 April 2017, New Delhi
2. Ensuring Safe and Nutritious Food in Hostel Mess, AIIMS, 18 April 2017, New Delhi
3. Health Awareness Programme on Dengue and Chikungunya, 09 May 2017, New Delhi
4. How to present a better Journal Club, 21 July 2017, New Delhi
5. Training of Trainers Programme of National NCD Monitoring Survey, 26-29 July 2017, New Delhi
6. Third Regional Training on National NCD Monitoring Survey, 15-19 September 2017, New Delhi
7. Technical Advisory Group and Network Meeting for Mortality in India Established through Verbal Autopsy (MINerVA), 17-18 November 2017, New Delhi
8. Strengthening NCD Management in Primary Health Care Conducted in the First World Congress of the World NCD Federation, November 2017, Chandigarh
9. Department of Health Research (DHR) Workshop on Operational Research, 20-25 November 2017, Ballabgarh
10. India-UK Roundtable on Funding India's First Public Health Observatory, 9 December 2017, New Delhi
11. South-east Asia Regional Course on Public Health Approaches to NCDs, 20-24 March 2018, New Delhi

Lectures delivered

Shashi Kant

1. Immunogenicity of inactivated Quadrivalent Influenza Vaccine (IIV4) in children 6-35 months of age across several influenza seasons, ESPID (2017) European Society for Paediatric Infectious Diseases - 35th Annual Meeting, 23-27 May 2017, Madrid, Spain
2. Inactivated Quadrivalent Influenza vaccine prevents disease due to matched and mismatched strains: A randomized trial in children aged 6-35 months during 2011-2014, ESPID (2017) European Society for Paediatric Infectious Diseases - 35th Annual Meeting, 23-27 May 2017, Madrid, Spain
3. Effect of intravenous iron sucrose administration on level of antioxidant stress markers among moderately anemic pregnant women attending a Sub-District Hospital, Haryana, International Congress of Nutrition (ICN), 15-20 October 2017, Buenos Aires, Argentina

Kiran Goswami

1. Qualitative Research Methods, Qualitative Research Tools for Adolescent Health, 16 April 2017, New Delhi
2. Operational Research-Qualitative Research Methods, AIIMS-DHR Workshop on Operational Research (Advanced Level), 20-25 November 2017, Ballabgarh

Anand Krishnan

1. Measuring diet, physical activity and obesity, IEA/SEA Workshop cum Training on Epidemiology of Non-Communicable Diseases, 10-14 April 2017, Pokhara, Nepal
2. Global NCD Monitoring and Surveillance Framework and STEPS approach, IEA/SEA Workshop cum Training on Epidemiology of Non-Communicable Diseases, 10-14 April 2017, Pokhara, Nepal
3. Community-based strategies for NCDs, IEA/SEA Workshop cum Training on Epidemiology of Non-Communicable Diseases, 10-14 April 2017, Pokhara, Nepal
4. Introduction to WHO PEN interventions, IEA/SEA Workshop cum Training on Epidemiology of Non-Communicable Diseases, 10-14 April 2017, Pokhara, Nepal
5. Evidence to Policy—Role of Translational Research, IEA/SEA Workshop cum Training on Epidemiology of Non-Communicable Diseases, 10-14 April 2017, Pokhara, Nepal
6. Policy and regulations in quality of care and technologies in healthcare, National Health Conclave Theme: Chronic Care, 10-11 August 2017, New Delhi
7. Essentials of Research Methodology and Study Designs, Biostatistics and Hands on Practices on Medical Data Using SPSS Software, 16-19 August 2017, New Delhi
8. Obesity: Time for its inclusion in the MCH agenda, The 21st International Epidemiological Association (IEA) World Congress of Epidemiology (WCE2017), 19-22 August 2017, Saitama, Japan
9. How can we make Swachh Bharat Mission effective and contribute to improving community health, Workshop of Swachh Bharat Mission Exposure for Urban Local Bodies, 04 September 2017, New Delhi
10. NPCDCS Program Managers Manual Development, Orientation cum Training for State Programme Managers, 26-27 September 2017, Bengaluru
11. Epidemiological studies and study designs, Capacity Building in Environmental Public Health Research, 30 October 2017 to 1 November 2017, New Delhi
12. NCD Surveillance Framework, First World NCD Congress, 4-6 November 2017, Chandigarh
13. Etiology of preventable cancers and cancer prevention strategies, Symposium on National Cancer Awareness Day, 7 November 2017, Bhubaneswar
14. Salt intake measurement in India - Validation of spot urine against 24 hour urine sample, Expert Group Consultation on Evidence on Sugar, Salt and Fat Consumption in India, 15 November 2017, New Delhi
15. Building scientific research questions, Workshop on Research Grant Writing, 28-30 November 2017, Jodhpur
16. Protection of human subjects: Ethical considerations in clinical research, Workshop on Research Grant Writing, 28-30 November 2017, Jodhpur
17. Setting the context—need for a Public Health Observatory, India-UK Roundtable on Funding India's First Public Health Observatory, 19 December 2017, New Delhi
18. Verbal autopsy and medical certification of causes of death, Induction Training for New Officers of Office of Registrar General of India, 6 March 2018, NOIDA
19. Framework of social determinants and NCDs, South-east Asia Regional Course on Public Health Approaches to NCDs, 20-24 March 2018, New Delhi
20. Community based strategies for NCD prevention, South-east Asia Regional Course on Public Health Approaches to NCDs, 20-24 March 2018, New Delhi
21. Integration of NCDs care in emergency response, South-east Asia Regional Course on Public Health Approaches to NCDs, 20-24 March 2018, New Delhi

Sanjay Rai

1. Safe injection technique, CME on Injection Safety: A Preventive Tool for Patient, Provider, and the Community, 15 November 2017, Nalhar, Haryana
2. Guidelines for PEP against rabies, 6th National Conference Consortium Against Rabies 2018, 23 February 2018, Patna
3. Learning from Urban Field Practice Area: Urban Health Programme, National Conference on Urban Health, 24 February 2018, New Delhi

4. Newer methods of HIV surveillance, Expert Consultation Meeting on Newer Methods of HIV Surveillance, 21 March 2018, New Delhi
5. Feasibility of Yoga in student of modern medicine, 2nd Vajrayana Conference, 29 March 2018, Bhutan

Kapil Yadav

1. Universal salt iodisation: The success story in fortification, NAMS-NFI Symposium on Food Fortification for Improving Micronutrient Intakes, 29 November 2017, New Delhi
2. National perspective on micronutrient deficiencies and their impact on health and productivity, Molecular Breeding for Higher Productivity, Quality, Food Colorants, Nutraceutical and Bioactive Health Compounds in Vegetable Crops, 20 February 2018, New Delhi

Sumit Malhotra

1. Ethics, sampling approaches and quality in qualitative research, International Conference on Adolescent and Youth Health, 16 April 2017, New Delhi
2. How to critique a journal article - Cohort studies and Randomized Controlled Trials, CME on Preparing for a successful Journal Club, 21 July 2017, New Delhi
3. Cross-sectional studies, PG Course on Research Methodology-July Batch 2017, 22 September 2017, New Delhi
4. Design, conduct and analysis of qualitative study, PG Course on Research Methodology- July Batch 2017, 25 September 2017, New Delhi
5. Overview of RCTs and Question Development, Randomized Trials in Dentistry, 30 September 2017, New Delhi
6. Measurement/assessment and data collection, Randomized Trials in Dentistry, 30 September 2017, New Delhi
7. Verbal Autopsy Processes, TRG Network Partners Meeting for Verbal Autopsy Based Cause of Death Ascertainment in India, 17 November 2017, New Delhi
8. Operational research - protocol development, experimental and quasi-experimental study designs, AIIMS-DHR Workshop on Operational Research (Advanced Level), 20-25 November 2017, Ballabgarh
9. Writing a good narrative communication and interviewing skills Verbal Autopsy Forms, Registrar General of India Supervisors Training, 8-9 December 2017, New Delhi
10. Verbal autopsy forms, Registrar General of India Supervisors Training, 12 December 2017, Chandigarh
11. Involvement in National Health Programmes - AIIMS Experience, Involving Medical Colleges in Strengthening Initiatives under NUHM, 08 January 2018, Raipur
12. Cross-sectional studies, PG Research Methodology, 15 March 2018, New Delhi
13. Design, conduct and analysis of qualitative study, PG Research Methodology, 17 March 2018, New Delhi

Anil Kumar Goswami

1. Public health and cleanliness, Orientation for Newly Recruited MCD and Delhi Government Judicial Services Magistrates, 9 August 2017, New Delhi
2. Urban Health Programme, AIIMS, Delhi, Students of Social Work from University of North Carolina, USA, 6 March 2018, New Delhi

Partha Haldar

1. Pertinent research questions using IBBS data, Workshop for In-Depth Analysis of Data from National IBBS, 21 July 2017, New Delhi
2. Overview of clinical trials, Biostatistics and Hands on Practices on Medical Data Using SPSS, 16-19 August 2017, New Delhi
3. Epidemiology study methods, PG Research Methodology, Writing and Communication, 21-23 , 25-26 September 2017, New Delhi
4. Introduction to critical appraisal of a therapy paper, 4th Evidence Based Workshop, 28 February 2018 to 1 March 2018, New Delhi
5. Criteria for causation and bias, 4th Evidence Based Workshop, 28 February 2018 to 1 March 2018, New Delhi
6. Critical appraisal of meta-analysis paper, 4th Evidence Based Workshop, 28 February 2018 to 1 March 2018, New Delhi
7. Epidemiology study methods, PG Research Methodology, Writing and Communication, 15 March 2018, New Delhi

Ravneet Kaur

1. Analyzing and writing a qualitative research report, Qualitative Research Tools for Adolescent Health, 16 April 2017, New Delhi
2. Analyzing, interpreting and disseminating scientific information, Research for Evidence Based Nursing Practice, 8 May 2017, New Delhi
3. Analyzing qualitative research information, AIIMS-DHR Workshop on OR, 21 November 2017, Ballabgarh

Harshal Ramesh Salve

1. Qualitative study—Design and issues, PG Research Methodology Workshop, 13 April 2017, New Delhi
2. Monitoring and supervision, National Level Training of Trainers for Medical Officers in Population Level Screening under NPCDCS, 16-22 May 2017, New Delhi
3. Monitoring and supervision, Training of Trainers of MOS for Population Based Screening of NCDs under NPCDCS, 14 June 2017, Panchkula, Haryana
4. Cross-section study design, PG Research Methodology Workshop, 9 August 2017, New Delhi
5. Association and causation, PG Research Methodology Workshop, 10 August 2017, New Delhi
6. Qualitative study—Design and issues, PG Research Methodology Workshop, 11 August 2017, New Delhi
7. Climate sensitive health effects—Global and national evidences, UCHAI—Webinar Climate Change and Health: What Medical Students and Health Professionals Need to Know, 18 August 2017, New Delhi
8. General Principles of Program Management, Orientation Workshop for NPCDCS State Program Mangers, 26 September 2017, Bengaluru
9. Organizing services under NPCDCS, Orientation Workshop for NPCDCS State Program Mangers, 26 September 2017, Bengaluru
10. Sample size technique and estimation, Capacity Building Workshop in Environmental Epidemiology, 30 October 2017, New Delhi
11. Public health effects of climate change-Global and national evidences, 62nd Annual Conference of Indian Public Health Association, 10 February 2018, Lucknow
12. National NCD monitoring survey, SEAR Course on Approaches for NCD, 23 March 2018, New Delhi
13. Regional initiatives in reducing mh-GAP, SEAR Course on Approaches for NCD, 24 March 2018, New Delhi

Rakesh Kumar

1. Case control studies, PG Research Methodology, Writing and Communication, 9 August 2017, New Delhi
2. Case control studies, PG on Research Methodology, Writing and Communication, 22 September 2017, New Delhi
3. Influenza: Current scenario, threats and prevention, 2nd KUHS National Conference on PG Medical Research, 27 October 2017, Thrissur
4. Role of operational research in NHP: A case study of iodine deficiency disorders control in India, AIIMS-DHR Operational Research Workshop Series 2017, 20 November 2017, Ballabgarh

Oral Paper Presentations

1. Mohan S, Malhotra S. Technology and medical education: A cross-sectional study, Pulsating Minds, Pulse, 20 September 2017, New Delhi (2nd Best Research paper Award (Undergraduate students) during Pulsating Mind, AIIMS)
2. Misra P, Shashi Kant, To design and test efficacy of scientifically and culturally appropriate, comprehensive nutrition and health communication package for rural nulliparous married women of northern India to address a wide range of low birth weight (LBW)-relevant factors, International Congress of Nutrition (ICN), 15 October 2017, Buenos Aires, Argentina
3. Rai SK, Misra P, Shashi Kant. Programme for Healthy Eating Practices in a Rural Community of North India, 21st International Conference of Nutrition (IUNS 2017), 15 October 2017, Buenos Aires, Argentina
4. Malhotra S, Shashi Kant, Goswami K. Challenges in school level implementation of Weekly Iron Folic Acid Supplementation Programme in National Capital Territory of India - A Qualitative Study, 11th World Congress on Adolescent Health, 27 October 2017, New Delhi
5. Malhotra S, Swapna M, Shashi Kant, Mishra A, Sagar R, How common are adolescent anxiety disorders in rural north India? Findings from a community based study, 11th World Congress on Adolescent Health, 27 October 2017, New Delhi

6. Mahasweta D, Baridalyne N, Gupta SK, Kalaivani M, Salve HR, Goswami AK. Use of screen based media by an adolescents in an Urban Resettlement Colony, New Delhi (Poster), 62nd Annual Conference of Indian Public Health Association (IPHA), 10 February 2018, Lucknow
7. Anand K, Shalli, Krishnan, Nongkynrih B. Capacity to manage NCDs at secondary are hospitals in Delhi: An analysis of the health workforce availability and competency (Poster), IPHA Conference, 11 February 2018, Lucknow
8. Anand K, Ramashankar R, Baridalyne N, Misra P. Awareness and implementation status of Cigarette and Other Tobacco Products Act in Northern India, 17th World Conference on Tobacco or Health WCTOH, 07 March 2018, Cape Town
9. Jha S, Salve HR, Goswami K, Sagar R, Shashi Kant. Prevalence of common mental disorders among pregnant women in rural Ballabgarh, Haryana, 45th Annual Conference of Indian Association of Preventive and Social Medicine (IAPSM), 09 March 2018, Pune (Best Paper award for Session)
10. Misra P, Bhabani PA, Rai SK, Sharma G, Yadav R, Sagar R. KABP about yoga among students of modern medicine in medical students of India, International Conference on Vajrayana Buddhism, 28 March 2018, Bhutan
11. Arjun MC, Yadav K, Lohiya A, Farhad A, Jacob OM, Shashi Kant. Comparison of different doses of daily oral iron supplementation for anemia prophylaxis in pregnancy—A systematic review, In Conference on ‘Critical Public Health Consequences of the Double Burden of Malnutrition and the Changing Food Environment in South and South-East Asia’, 29 March 2018, Delhi

RESEARCH

Funded projects

Ongoing

1. Prevalence of congenital heart disease in adults residing in Ballabgarh block of Haryana, India: A population based study, Shashi Kant, ICMR, 3 years, 2016-19, Rs 19 lakhs
2. Strengthening/promoting evidence based advocacy for influenza prevention and control in India, Anand Krishnan, CDC, Atlanta, 5 years, 2018-23, Rs 81 lakhs
3. Establishing a network of population based influenza surveillance platforms for elderly persons in India, Anand Krishnan, CDC, Atlanta, 1.6 years, 2017-18, Rs 40 lakhs
4. Establishing a technical support unit for Verbal Autopsy based cause of death ascertainment in the sample registration system, Registrar General of India, Anand Krishnan, Office of RGI, India, 3 years, 2017-20, Rs 28 lakhs
5. Survey for Monitoring the National Non Communicable (NCD) Targets, Anand Krishnan, ICMR, 1 year, 2017-18, Rs 11 lakhs
6. Burden on Non Communicable Diseases and associated Risk Factors for India (BOD-NCD), Anand Krishnan, ICMR, 1 year, 2017-18, Rs 6.6 lakhs
7. Prevention of type 2 diabetes in women with prediabetes using vitamin D supplementation and lifestyle intervention in North India (PREVENT-WIN Study), Puneet Misra, DST, 4 years, 2013-17, Rs 56 lakhs
8. A Prospective, Multicentre, Randomized, Double Blind, Parallel Group, Phase III Study Comparing Immunogenicity, Safety, and Tolerability of Single Dose of Hepatitis A (Live) Vaccine, Freeze-dried from Sinopharm versus BiovacTM-A (Freeze-dried Live Attenuated Hepatitis A Vaccine) from Wockhardt in Healthy Indian Children, Puneet Misra, Sinopharm, 1 year, 2018-19, Rs 10 lakhs
9. Effect of structured yoga program on hypertension, diabetes, stress and wellness in a community setting, its feasibility and long term sustainability, Puneet Misra, DST, 2 years, 2018-20, Rs 40 lakhs
10. HIV/AIDs sentinel surveillance of five central zone states of India (Bihar, Delhi, Jharkhand, Uttarakhand and Uttar Pradesh), Sanjay K Rai, NACO, MoHFW, 3 years, 2015-18, Rs 129 lakhs
11. Migration, mobility and antenatal care: An exploratory study to identify key elements to improve coverage and utilization of antenatal care services among migrant pregnant women in Delhi, Y.S. Kusuma, DST, 1.5 years, 2017-18, Rs 25.8 lakhs
12. Development, implementation, evaluation of social, and behaviour change communication (SBCC) strategy for the prevention and control of dengue in slums and slum like pockets in Delhi, Y.S. Kusuma, ICMR-ICSSR, 2 years, 2017-19, Rs 17.8 lakhs
13. Assessment of Iodine status amongst pregnant women in select district of India, Kapil Yadav, ICMR, 2.5 years, 2016-18, Rs 57.6 lakhs
14. Human Resource Development Health Research Scheme - Operational Research, Sumit Malhotra, DHR, 2 years, 2016-18, Rs 10 lakhs

15. Assessment of implementation and barriers related to Weekly Iron Folic Acid Supplementation Programme (WIFS) for school based adolescents in National Capital Territory Region, Delhi, North India, Sumit Malhotra, WHO/PHFI, 1 year, 2017-18, Rs 6.795 lakhs
16. Health and nutrition needs assessment of youth men in north India, Sumit Malhotra, AIIMS Intramural, 1 year, 2017-18, Rs 4 lakhs
17. Prevalence of Disability among elderly persons residing in an Urban Resettlement Colony of Delhi, Anil K. Goswami, AIIMS, 1 year, 2017-18, Rs 4 lakhs
18. Study to determine the prevalence and associated risk factors of CKD among adults in a rural community in North India, Partha Haldar, AIIMS Intramural, 1 year, 2016-17, Rs 5 lakhs
19. Developing Community level Climate based Early Warning System (CCEWS) for Vector Borne Diseases in National Capital Region, India, Harshal R Salve, Climate Change Program (SPLICE) DST, 3 years, 2016-20, Rs 55.62 lakhs
20. Effectiveness of brief cessation advice on abstinence from tobacco smoking among patients with tuberculosis and NCD (Hypertension, Diabetes) attending a secondary level hospital, Ballabgarh, Haryana, Rakesh Kumar, AIIMS, 2 years, 2017-19, Rs 1.8 lakhs

Complete

1. Epidemiological Study of Respiratory Pathogens in Acute Respiratory Tract Infection Among Children and Elderly In India, Anand Krishnan, CDC, 5 years, 2012-17, Rs 35 crores
2. Indexing health for monitoring progress towards Sustainable Developmental Goals (SDGs)—Collaborative Project with Government of Andhra Pradesh, Anand Krishnan, Harshal R. Salve, Government of AP, 0.5 years, 2017, Rs 15 lakhs
3. Association of Common Mental Disorders with Diabetes—Community Based CC Study, Harshal R Salve, AIIMS, 2 years, 2015-2017, Rs 9.89 lakhs

Departmental projects

Ongoing

1. Cobalamin and Folate status amongst children aged 6-59 months attending a secondary health care facility in district Faridabad, Haryana
2. A study of chronic respiratory diseases and associated factors among elderly persons in a rural area of Haryana
3. Study of knowledge and behaviours related to salt consumption and sources of dietary sodium in women aged 20-59 years in an urban resettlement colony, New Delhi
4. Prevalence of hypertension among adolescents in rural Ballabgarh, Haryana
5. Determinants of treatment default in tuberculosis patients in a rural area of north India: A community-based mixed-method study
6. Diabetes and hypertension among elderly persons in a rural area of Ballabgarh, Haryana
7. Does gender influence burden of blindness, cataract blindness and cataract surgical coverage in India? Evidence from systematic review and meta-analysis
8. Estimation of mortality burden in India due to respiratory viruses: Influenza and Respiratory Syncytial Virus
9. Economic burden, prevention and control of pneumonia among elderly
10. Validation of a clinical score for identification of bacterial sore throat among 5-15 years outpatient attendees of a health facility in Ballabgarh, Haryana
11. Association of knowledge and self-efficacy of diabetes management with its control among patients in an urban resettlement colony in Delhi
12. Common Mental disorders and related mental health literacy among adolescents in an urban area of Delhi
13. Feasibility of introducing yoga and its effect on stress and perceived well-being on new medical under-graduate students of AIIMS, New Delhi
14. Effect of structured yoga program on stress and professional quality of life among selected nursing staff in a tertiary care hospital of Delhi—A small scale phase-II trial
15. Assessment of menstrual hygiene management amongst adolescent girls in a rural area of North India
16. Physical Activity among Under Graduates Medical Students of AIIMS
17. Estimation of mortality burden in India due to respiratory viruses: Influenza and RSV
18. Effectiveness of intravenous iron sucrose in treatment of moderate and severe anaemia among pregnant women attending a sub district hospital in Haryana, North India

19. Prevalence of anaemia among community-dwelling elderly persons in rural Ballabgarh, district Faridabad, Haryana
20. A study of chronic respiratory diseases and associated factors among elderly persons in a rural area of Haryana
21. Prevalence of Knee Osteoarthritis among elderly in rural Ballabgarh, Haryana
22. Randomized controlled trial of 60 mg vs 100 mg elemental iron with fixed dose of 500 µg folic acid oral supplementation for iron deficiency anemia prophylaxis in pregnant women at a secondary care hospital in Haryana

Completed

1. Prevalence of disability and its association with quality of life among adult population in rural Ballabgarh, Haryana
2. Out-of-pocket expenditure on health, incurred by elderly residing in rural Ballabgarh, Haryana
3. Assessment of readiness for provision of NCD services of secondary level hospitals of Government of Delhi
4. Pregnancy wastage in a rural community of Haryana
5. Prevalence of common mental disorders among pregnant women in rural Ballabgarh, Haryana
6. Use of screen based media and assessment of screen time among adolescent aged 10- 19 years in an urban resettlement colony, New Delhi

Collaborative projects

Ongoing

1. Visual impairment among elderly persons in an urban resettlement colony of Delhi, Community Ophthalmology, RP Centre
2. ICMR-India Diabetes India B Study Phase-II, Endocrinology and Metabolism
3. Population prevalence of vitamin D deficiency in urban and rural Delhi and its association with cardiovascular disease risk, Cardiology
4. Prevalence of non-alcoholic fatty liver disease and its association with cardio-metabolic disease risk factors in North India, Endocrinology and Metabolism

Completed

1. Utility of an audio-Visual display in Foot Care Education in patients with diabetes, endocrinology
2. Perception of Reversible and Permanent Contraception in India (POPI), Obstetrics and Gynecology and University of New Mexico Health Sciences Centre
3. MRI changes associated with Cue-induced craving in Tobacco Smokers, Psychiatry
4. Feasibility of Implementation of Hospital Based Trauma Registry for Road Traffic Injuries at Different Level of Health Care Setting and its Effect on Quality of Patient Care, Surgery (JPNATC)
5. Effectiveness of a nurse led community educational programme in diabetic management among geriatric population in an urban community of Delhi, College of Nursing.
6. Community based operational research study on involvement of ASHA in strengthening of primary eye care services for urban vulnerable population of Delhi, Community Ophthalmology, RP Centre
7. Community based operational research feasibility of introducing yoga and its effect on stress and perceived well-being on new medical under-graduate students of AIIMS, New Delhi, Centre for Integrative Medicine and Research (CIMR)

PUBLICATIONS

Journals: 55 Chapter in books: 3

PATIENT CARE

The patient care services of Centre for Community Medicine are in two broad areas.

A. Rural (Comprehensive Rural Health Services Project, Ballabgarh)

1. Patient care services provided at the Sub-district Hospital, Ballabgarh
2. Community Health Services - Services provided at the Primary Health Centres

B. Urban Health Program

Out-door services	4,77,786 patients	In-patient services	12,685 patients
Emergency services	70,450 patients	Deliveries	4,346
Surgical services	2,340 (only at the SDH, Ballabgarh)		

CRHSP Sub-district Hospital, Ballabgarh

Outpatient Services

Daily	Once weekly
• General Medicine	• Non communicable disease Clinic
• General Surgery	• PMR
• Paediatric	• Paediatric Surgery
• Obstetrics and Gynaecology	• Neurology
• Ophthalmology	• TB Clinic
• Psychiatry	Twice weekly
• Dental	• Ante-Natal Clinic
• AYUSH (Homeopathy)	Thrice weekly
• AYUSH (Ayurveda)	• Dermatology
• Orthopaedics	• Ear, Nose and Throat

• Total Out Door Patients (New +Old)	3,55,348
o New OPD patients (%)	1,97,005 (55.4%)
o New OPD patients (%)	1,58,343 (44.6%)
• Medicine (New+Old)	1,05,680
• Paediatrics (New+Old)	82,869
• Obstetrics and Gynaecology (New+Old)	29,152
• Antenatal care clinic registrations/visits (New+Old)	19,386
• Ophthalmology (New+Old)	16,152
• Surgery (New+Old)	13,216
• ENT (New+Old)	10,897
• Dental	9,217
• Physical Medicine and Rehabilitation (New+Old)	2,570
• NCD clinic (New+Old)	5,691
• Dermatology (New+Old)	13,355
• AYUSH (Homeopathy+Ayurveda)	11,734
• Orthopedic (New+Old)	26,686
• Psychiatry	8,743

In-patient services (50 beds)

a. Total Admissions (including births)	11,591
Through Casualty	5,105
Through OPD	3,249
New Born (births)	3,237
b. Disaggregation of admissions, by specialty	(11,792)
Obstetrics and Gynaecology	6,881
Paediatrics	3,405
Ophthalmology	773
Surgery	365
Medicine	51
ENT	97
Physical Medicine and Rehabilitation (PMR)	19
c. Average Bed Occupancy Rate (%)	112.6%
d. Total Deliveries Conducted (including IUD)	3,252
e. Average duration of stay for all patients (in days)	1.74

Casualty Services	
Patients registered	59,415
Medico-legal cases	5,420
Emergency admissions	1,472
Total Surgical Procedures	
Ophthalmology	711
Obstetrics and Gynecology	616
General Surgery	597
Pediatrics Surgery	254
ENT	107
PMR	55
Total	2,340
Laboratory and Diagnostic Services	
Laboratory investigations (biochemical and hematological)	2,48,296
X-ray	20,988
Ultrasound	8,649
Malaria Slides Examination	10,235
a. P. Vivax positive	52
b. P. Falciparum positive	NIL
Counseling and testing services provided for HIV	10,400

Revised National Tuberculosis Control Programme (RNTCP):

SDH, Ballabgarh is a Tuberculosis Unit (TU) under the RNTCP. Three Designated Microscopy Centres (DMCs) are attached to this unit. Total tuberculosis cases treated at Ballabgarh Hospital were as follows:

Total cases started on treatment	730
a. New case	576
b. Previously treated case	154

Newer Services at SDH, Ballabgarh

- New OPD Block inaugurated by Director Professor Randeep Guleria on 11 July 2017
- Outpatient weekly facility for neurology and burns/ plastic surgical facility
- CBNAAT services for detection of drug resistant tuberculosis

Community Health Services

CRHSP, Ballabgarh provides community health services through Intensive Field Practice Area (IFPA) of 28 villages through a network of two Primary Health Centres (Dayalpur and Chhainsa), and 12 sub centres. Domiciliary, outpatient, inpatient and referral services are provided in the IFPA. Important demographic indicators for the IFPA were as follows:

Indicator	Value
Population	99,756
Birth rate per 1,000 population	19.6
Death rate per 1,000 population	6.3
Sex ratio at birth (females per 1,000 males)	861
Infant mortality rate per 1,000 live births	29.9
Under 5 mortality rate per 1,000 live births	35.3

OPD Services in Intensive Field Practice Area: This includes health care services provided at OPD of the PHCs as well as the OPD of the Extended Health Clinics that are conducted at each of the villages.

PHC	New Cases	Repeat Visits	Total
Dayalpur	23,832	26,069	49,901
Chhainsa	20,106	35,140	55,246
Total	43,938	61,209	1,05,147

Total No. of AYUSH OPD Patients registered at PHC Dayalpur: 8,094

Indoor and Emergency Services at PHCs

PHC	Inpatient Services	Emergency Services
Dayalpur	616	7,229
Chhainsa	478	3,806
Total	1,094	11,035

Family Welfare and Maternal Child Health (NHM)

Indicator	Performance
Total antenatal registration	2,101
Complete TT coverage of registered cases (%)	100%
Percentage of Institutional delivery	
PHC, Chhainsa (%)	93
PHC, Dayalpur (%)	97.3
Total deliveries in delivery huts at the PHCs	1,094
PHC, Chhainsa	478
PHC, Dayalpur	616

Other National Health Programmes

a. National Vector Borne Disease Control Programme: Collection of blood slides are done as a part of passive surveillance in OPD and as active surveillance during domiciliary visits by Field Workers in the IFPA.

Indicator	PHC, Chhainsa	PHC, Dayalpur
Total number of malaria slides tested	4,929	5,159
Total number of positive cases	32	28
Annual parasite incidence (per 1,000 population)	0.6	0.56
Annual blood examination rate (%)	9.9	10.3
Slide positivity rate (%)	0.64	0.54

b. Revised National Tuberculosis Control Programme: PHC, Dayalpur has been designated as a Microscopy Centre and caters to all villages under the IFPA. Tuberculosis patients treated in the IFPA (category wise) is as follows:

Indicator	PHC, Chhainsa	PHC, Dayalpur
Total number of patients started on treatment	35	48
New cases	25	39
Previously treated cases	10	9

c. Weekly Outreach Speciality OPD: (ORSO) is conducted at each PHC by senior residents of clinical specialities posted at SDH, Ballabgarh. The cases attended to at each PHC were as follows:

Services	PHC, Chhainsa	PHC, Dayalpur
Gynaecology	150	1,163
Paediatrics	306	574
Ophthalmology	410	864
Psychiatry	100	201
Total OPD (ORSO)	966	2,802

d. Others

Particulars	PHC, Chhainsa	PHC, Dayalpur
Total health talks delivered	50	41
Pregnant women received IV iron sucrose	463	622
Post partum IUCD inserted	27	20
High risk pregnant women detected and tracked	459	1,857
Anti-rabies vaccination	1,509 doses	3,857 doses

Special activities at PHCs

1. Organization of Eye Care Camp at PHC, Dayalpur in collaboration with Department of Health, State Government of Haryana. A total 174 individuals were screened for cataract and refractive errors. Twenty-one individuals were identified for cataract surgery and 30 individuals were given free spectacles
2. Intensive Mission Indradhanush at both the PHCs
3. Assessment for National Quality Assurance Standards in first week of March 2018 selected both PHCs for national assessment in which they qualified

IEC Activities

Group Health Talks:

Topics covered included neonatal care and kangaroo mother care, breast feeding and weaning, antenatal care, high risk pregnancy, anaemia in pregnancy, importance of institutional delivery, immunization, Malaria and Dengue, Tuberculosis, anaemia in children, malnutrition in children, Vitamin-A deficiency, Diabetes, Hypertension, HIV/AIDS, accidents in children, personal hygiene, family planning methods, postnatal care and diet, care of newborn, swine flu, geriatric care, Mental Health Programme, etc.

Short Film Shows

Topics covered included breast feeding, antenatal care, child care, female foeticide, eye care, Vitamin A deficiency, malnutrition, and diarrhoea during OPD timings. Films were screened in Child Welfare Centre, Ballabgarh, PHC, Dayalpur and PHC, Chhainsa on important topics.

Urban Health Programme

The field practice area of the Urban Health Programme, Centre for Community Medicine is located at Dakshinpuri Extension, Dr Ambedkar Nagar in South Delhi, consisting of Blocks 1-7, 14, 15, 19, Subhash Camp, Dakshinpuri catering to a population of around 35,363. Patient care services are provided at the Urban Health Centre.

Clinical Services

	Activities	Number
OPD	Total patients seen (including immunization)	22,682
Laboratory services	Total laboratory tests	4,539
	Number of haemoglobin levels done	1,487
	Hb <7 g/dl	46
	Hb <11g/dl	680
	Blood sugar	2,221
	Urine albumin and sugar tested	69
	RDT for Malaria	135

Child Health services

Number of immunization sessions: 98

BCG	89	OPV 0 dose (birth dose)	53
DPT/pentavalent 1	262	OPV1	262
DPT/pentavalent 12	254	OPV2	253
DPT/pentavalent 13	252	OPV3	252
Hepatitis-B1	3	Injectable IPV Fractional 1	292
Hepatitis-B2	3	Injectable IPV Fractional 2	207

Hepatitis-B3	1	DPT/OPV Booster 1	237
Measles 1st dose	258	DPT/OPV Booster 2	310
MMR	30	Typhoid vaccine	230
Measles 2nd dose	75	TT 10 years	256
Albendazole	381	TT 16 years	52
Vitamin A administered between 9 months and 5 years	815	Number of severely underweight provided health checkup (0-5 years)	60

Maternal Health Services

<i>Antenatal Care</i>	
Total number of pregnant women seen in the Urban Health Centre	742
Number of pregnant women given TT1	104
Number of pregnant women given TT2+ or Booster	110
Total number of pregnant women given 180 IFA tablets	84
<i>Family Planning</i>	
No. of condoms distributed	2,215
No. of oral contraceptive pill cycles distributed	36
New RTI/STI cases identified	182

IEC Activities

- Community-based activities: 541 projections (UHC) 116 health talks
- Exhibition and Awareness Programme on depression (15 April 2017)
- Health Awareness Programme on *Dengue and Chikungunya* in residential area of Ansari Nagar (9 May 2017)
- Departmental news of the week NB-208 new paper clippings
- Distribution of 23,650 (Hindi), 7,650 (English) booklets on Dengue, Chikungunya and Malaria to various OPDs, Emergencies and Centres of AIIMS
- Vector Borne Diseases, their prevention and control with DPORC and NDMC (13 September 2017)
- Poster display at 30 places of AIIMS, New Delhi and UHC, Dakshinpuri Extension

Date	Poster
1-19 April 2017	Swine Flu
20 April 2017-05 June 2017	Heat Stroke
6 June 2017-1 December 2017	Dengue, Malaria and Chikungunya
25-27 September 2017	Institute Day Exhibition 2017 - Global Warming
2 December 2017-28 February 2018	Sheet Lahar
29 January 2018	Leprosy
19 March 2018	World TB Day Exhibition

- Development of Health Education material (posters)

S. No.	Topic	No.	Language
1.	Minimum Salary Awareness Campaign for unskilled, semi-skilled and skilled worker in Delhi	1	Hindi
2.	Global warming	2	English
3.	Article publication	1	English

TV talks: Dr Puneet Misra (Rajya Sabha TV and Lok Sabha TV as expert)

- Dengue
- Diabetes
- Plastics and health
- Environment
- Old age
- NEET exam

National Service Scheme (NSS) Activities at AIIMS:

- NSS Orientation Programme MBBS, Batch 2017 students (11 July 2017)
- Poster Competition Event: Global Warming and Its Impact (21 April 2017) at Foyer

- Blood Donation Camp: NSS Volunteers AIIMS and SU, AIIMS, JLN Audi (21 April 2017)
- UG Project Interventions: Depression (15 April 2017)
- (UHC, Dakshinpuri Extension): Tobacco Cessation (22 July 2017), Old Age Pension Scheme (9 September 2017), Multi-Morbidity Among Elderly (15 April 2018)
- *Meetings*
 - Interactive International Programme with NSS Kashmiri students under the Chairmanship of Shri Vijay Goel, organized by Ministry of Sport and Youth Affair (MSYA) at National Stadium, New Delhi on 27 April 2017
 - NSS Functionaries of Delhi Meeting at India Habitat Centre with Secretary MSYA, GoI to review NSS (10 July 2017)
 - Future NSS Strategies by Secretary, MSYA (10 October 2017)

AWARDS, HONOURS AND SIGNIFICANT EVENTS

1. **Kayakalp Award:** PHC, Dayalpur, followed by PHC, Chhainsa with Commendation Award for financial year 2017-18 in District Faridabad
2. **Kayakalp Award:** CRHSP, Ballabgarh Hospital (Category sub district level hospital) for financial year 2017-18 for Haryana
3. NQAS accreditation for PHC, Dayalpur and PHC, Chhainsa
4. Dr Shashi Kant felicitated by Dr B.D. Athani, Director General of Health Services, Government of India, for outstanding contribution to HIV surveillance and estimation in India (21 March 2018)
5. Dr Sumit Malhotra received AIIMS Excellence Research Commendation Award for research work on neural tube defects at Ballabgarh (AIIMS Institute Day Celebrations, September 2017)
Dr Anand Krishnan was awarded the PN Raju Oration for 2014 for work in the area of NCDs by ICMR on September 2017; awarded Wockhardt Foundation Health Popular Award under the category of medical education; awarded Dr B.C. Dasgupta Memorial Oration by IPHA; invited by Maldives Government and WHO to draft Health Research Promotion Strategy from 13-17 May 2017
6. Dr Sanjay Rai elected Vice President (North Zone) of IPHA for 2016-18
7. Dr Puneet Misra Best Paper Award for research paper “*Uttar Bharat ke grameen kshetron mein rehnewali mahilaon mein vitamin D ka star: ek saamudaya aadharit adhyan*” (Hindi) at Desert Medicine Research Center, Jodhpur on 29-30 October 2017
8. Dr Kiran Goswami awarded FAIMER fellowship in February 2018

Professor Shashi Kant was resource person for (i) Pre Surveillance Orientation and Planning Workshop, Central Zone, RI AIIMS held on 9 and 10 January, 2017; (ii) Operational Research Workshop at Ballabgarh, on 16-19 January 2017; (iii) SAARC Regional Training for Operational Research-India, 12-16 June 2017, Jaipur, India; **Member:** Faculty APS at AIIMS Raipur, Chhattisgarh (18 April 2017); Faculty selection, AIIMS, Bhopal, Madhya Pradesh (24 April 2017); Senior Research Fellow (Statistics) selection at NIMS, New Delhi (25 August 2017); Faculty selection Government Institute of Medical Sciences, Bhopal, Greater Noida, Uttar Pradesh (6 September 2017); Faculty selection AIIMS, Bhubaneswar, Odisha, (28 October 2017); Technical Resources Group on Research and Development of NACO, Ministry of Health and Family Welfare, Government of India (5 May 2017); Dean’s Committee of AIIMS, New Delhi (May 2017); National Working Group for HIV estimation 2017 by National AIDS Control Organisation, Ministry of Health and Family Welfare, Government of India (letter dated 21 April 2017); TAG for National Iodine and Salt Intake Survey 2018-19 (February 2018); Committee of Experts to propose a system based on CRS and MCCD, Statistics Division, Ministry of Health and Family Welfare, Government of India (13 March 2018); Proposal Development Meeting for the Multi-Country Study on unsafe abortions at the community level using the improved Anonymous Third Party Responding (ATPR) and the Respondent Driven Sampling (RDS) methodologies, WHO Headquarters, Geneva, Switzerland, on 19-21 July 2017; Proposal Development Meeting for the Multi-Country Study on Comprehensive Anaemia Program and Personalized Therapies Project, Kathmandu, Nepal, 28-29 August 2017; **Chaired** Session on “Community Empowerment—Tool to Fight Dengue” during Symposium on National Dengue Day celebrated by Ministry of Health and Family Welfare, Government of India on 16 May 2017 at AIIMS, New Delhi; Session of State Level Dissemination Meeting of National Iron Plus Initiative at AIIMS, Bhubaneswar, Odisha (21 November 2017); Sessions during “Expert consultation on newer methods of HIV surveillance and estimation in India” organized by National AIDS Control Organization, MoHFW, Government of India (21-24 March 2018); **Attended** First Meeting of National Working Group on HIV estimation 2017 on 19 June 2017 at ICMR, New Delhi; Technical Advisory Committee Meeting on “Comparing methods for assigning causes of death by Verbal Autopsy” held at National Institute of Medical Statistics, New Delhi (26 September 2017); Technical Advisory Committee Meeting on Tribal Health held at National Institute of Medical Statistics, New Delhi (3 November 2017); Meeting of TRG on HIV surveillance and estimation for review of results of HIV estimations 2017 (21 February 2018); 4th Meeting of National Working Group Meeting on HIV estimations 2017 (12 January 2018).

Professor Sanjeev Kumar Gupta was **Member** of Task Force to develop Operational Guidelines for Primary Care in Geriatric Care, Ministry of Health and Family Welfare, Government of India, New Delhi; Advisory Committee for development of training manuals on oral health for health workers and school teachers, Government of India, New Delhi; Expert Committee for revision of the PGDMCH Programme at the Indira Gandhi National Open University, New Delhi; Tobacco Free Educational Institute Committee, AIIMS; **Reviewer** for The National Medical Journal of India, Indian Journal of Public Health, Indian Journal of Community Medicine, Public Health Nutrition.

Professor Kiran Goswami was **Member** of Expert Committee, Technology Intervention for Addressing Social Needs (TIASN) SEED Division, DST; Expert Committee, Societal Needs Scheme, SEED Division, DST; RI, HIV Sentinel Surveillance (HSS) to five northern states (Delhi, Bihar, UP, UK and Jharkhand) of India; Standing Selection Committee (SSC) for selection of Director Health Sciences at U.P. Rajarshi Tandon Open University, Allahabad (UP), 12 April 2017; SSC for recruitment of faculty in the Department of Community and Family Medicine at AIIMS, Bhopal, 24 April 2017; SSC for teaching faculty, Greater Noida, UP, 6 September 2017; SSC, APS faculty, AIIMS, Patna, 17 November 2017; INCLLEN study evaluation of HBNC—Plus Program at District level; National Steering Group, ICMR INCLLEN Research Priority Setting Network; Internal Complaint Committee, IIHMR; Resource person NIPCCD; **Participated** in 3rd Professional MBBS (14-16 December 2017), Supplementary Examination, (17 February 2018), Basni-II, AIIMS, Jodhpur; Workshop for setting paper in Subject Social Medicine and Community Health UGC NET Exam, 21-26 August 2017, 3 October 2017, 5-10 March 2018, Noida, UP; Expert Committee Meetings TIASN (1 April 2017, 4-6 November 2017) and SCP (4-6 November 2017) SEED Division, DST; Q-LEAPP (Quality Leadership and Excellence in Academic Programs and Patient Care) Workshop, 4 August 2017, New Delhi; Monitor HRG HSS activities for state of UP, 10-12 May 2017; Nexus Planning Workshop on HBNC + Raigarh District, Madhya Pradesh, 16-20 May 2017; Technical Expert Group Meeting of Injection Safety Programme for State of Punjab, 14 October 2017; Meeting PAC–SCSP SEED Division, DST, 18-19 December 2017; **Chaired** Session on non communicable diseases, 62nd Annual National Conference of Indian Public Health Association (11 February 2018), UP; **Reviewer** DST Projects, IJMR, IJABR.

Professor Anand Krishnan was **Member** of TAG—Development of WHO Preferred Product Characteristics for Next-Generation Influenza Vaccines; WHO Working Group on Influenza Burden Estimation; TAG—National Mental Health Survey 2015-17; GB—NHSRC; Technical Appraisal Committee of Medical Technology Assessment Board, GoI; National Steering Committee of NPCDCS; Technical Advisory Committee Global Adult Tobacco Survey 2015; Core Group, Independent Commission on Health and Development in India; Expert Committee on Population based screening for diabetes, hypertension and cancers; Head Technical Support Unit for Verbal Autopsy under SRS in the Office of RGI; Technical lead for tool and manual development of National NCD Monitoring Survey 2016-17; Drafted the SEA regional guidelines for integration of NCDs management in emergencies; Training of trainers for NPCDCS Program Managers Training, Training and Quality Control. Supervisor for the National NCD Monitoring Survey; **Meetings attended:** National Consultative Workshop on Revised Reporting Formats under IDSP on 2 May 2017, New Delhi; 35th SEA-ACHR Meeting in New Delhi on 24-26 October 2017.

Professor Baridalyne Nongkynrih was **Member** of PAC—Cancer screening in North East India, ICMR; Technical Evaluation Committee for NCDs and cancer in Department of Health Research, ICMR; Preparation of Training Module for “SEAR Training Module on WHO Package of Essential NCD Interventions (WHO PEN) for primary care in low-resource settings among primary health care workers” Paro, Bhutan, November 2017; Teaching Schedule Committee, AIIMS; National trainer for state and district program officers of NPCDCS Programme in managerial skills and primary health care; Completed an APW with WHO India - Strengthening implementation of NPCDCS in states: Capacity Building of Program Managers/ Coordinators in 2017.

Professor Puneet Misra was **Member** of TRG Adolescent Health, MoHFW, GoI; TEC ICMR on congenital malformation and genetics, maternal health, child health, low child sex ratio and other gender and health and physically health problems related to women areas; TEC ICMR on diabetes, metabolic disorders, kidney and liver disorders, cardiovascular diseases; PAC SEED Division, DST, GoI; **Participated** in examinations at KGMU, Lucknow, UCMS, Delhi, CMC, Ludhiana, LLRM Medical College, Meerut; Meeting on feasibility of starting MD course at AIIMS, Patna; **Chaired session:** Breast cancer screening, ASOMA Conference, 8 October 2017; WISE International Conference, DST, 6 October 2017; IEA Workshop, Pokhra; 62nd Annual National Conference of Indian Public Health Association, UP; **Reviewer** for Lancet Public Health, IJPH, IJP, NMJI, International Journal of Diabetes in developing countries, addictive behaviors, International Journal of Adolescent Medicine and Health, BMC Public Health, BMC women’s health, BMC infectious disease, biomedical and environmental sciences, family medicine and community health, DST, ICMR.

Professor Sanjay Rai was **Member** of Board of Examiners, MD Community Medicine, Agartala Government Medical College. Conducted MD examination at Agartala, Tripura, and Burdwan Medical College, Burdwan, WB on 24-25 April 2017 and 20-21 June 2017, respectively; Standing Selection Committee of Banaras Hindu University, Varanasi, and Government Institute of Medical Sciences, Greater Noida, for faculty positions on 2 August 2017 and 14 February 2018, respectively;

TAG, National Iodine and Salt Intake Survey (NISI) 2018; Core Committee of the AIIMS under the RNTCP; TRG NACO, MoHFW, GoI on HIV Estimations 2017 in India; Nominated by NACO, Department of AIDS Control (DAC), GoI as focal person for technical assistance for HIV Sentinel Surveillance (HSS) to five northern states (Delhi, Bihar, UP, UK and Jharkhand) of India; National Steering Group, ICMR INCLIN Research Priority Setting Network; **Reviewer** for Health and Population Perspective and Issues, Indian Journal of Public Health, Indian Journal of Community Medicine, International Journal of Epidemiology, Indian Journal of Pediatrics, NMJI, etc.

Dr Y.S. Kusuma was **Member** of NCD Risk Factor Collaboration (NCD-RisC); **Reviewer**: ICMR, Department of Science and Technology (DST); Editorial Board Member for Studies on Ethno-Medicine and Afro-Asian Journal of Anthropology and Social Policy; Adjudicator for PhD theses of JNU and Andhra University.

Dr Kapil Yadav was **Member** of Technical Subgroup—Test and Treat: Formulation of operational guidelines for “Anemia Mukta Bharat”, GoI; Focal Point for “National Centre of Excellence and Advanced Research on Anemia Control (NCEAR-A)”, Ministry of Health and Family Welfare, GoI; **Participated** as Co-Chair—Way forward in Micronutrient and other nutrition interventions. National Child Health Review by MOHFW and Unicef, 11 October 2017.

Dr Sumit Malhotra was **Member** of Working Group Committee on training of AYUSH practitioners on oral health by Centre for Dental Education and Research (CDER), AIIMS; Committee for evaluation of posters/slogans/ logo competition on the occasion of World Oral Health Day 2017 at CDER; Prepared distance learning unit for Postgraduate Diploma Programme in Maternal and Child Health for IGNOU; Organized sensitization training on Verbal Autopsy for RGI supervisors working under Directorate of Census Operations, Delhi Branch (8 and 9 December 2017); Organized Adolescents’ Substance Misuse Training for medical officers in coordination with NDDTC, Ghaziabad and Delhi Government (January/February 2018), New Delhi; **Participated** in Master Level Training on Mothers Absolute Affection Programme for frontline workers on 6-13 April 2017 at CRHSP, Ballabgarh; Hands on Data Analysis Workshop, 19-22 September 2017, Department of Biostatistics; 11th World Congress on Adolescent Health (27-29 October 2017); TRG Meeting and Network Partners Meeting for verbal autopsy based cause of death ascertainment in India under Ministry of Home Affairs (17-18 November 2017); State level review cum convergence meeting of Rashtriya Kishore Swasthya Karyakarm, Delhi Government (28 November 2017); Workshop on involvement of medical colleges in urban health, National Health Mission, Chhattisgarh (8 January 2018); RGI Supervisors Training on verbal autopsy, PGIMER Chandigarh (12 December 2017); Internal examiner for AIIMS Final MBBS Professional Exam (15-18 December 2017); Leadership in Quality Improvement and Capacity Building Workshop cum Consultation, 27-28 March, AIIMS, New Delhi.

Dr Anil Kumar Goswami was Program Officer in NSS Unit AIIMS; Patron, All India Association of Medical Social Work Professionals, Chandigarh, 2016-20; Nodal Officer, Disease Prevention Outbreak Response Cell (DPORC), AIIMS; **Member**: Expert Committee for Development of New Specified Health Warnings in the Tobacco Control Division, Ministry of Health and Family Welfare, Nirman Bhawan, New Delhi; Hygiene Promotion (KRA-7 of Clean and Green AIIMS) under KAYA KALP (Clean Hospital Campaign); Public Feedback (KRA-8 of Clean and Green AIIMS) under KAYA KALP (Clean Hospital Campaign); Rajbhasha Committee, AIIMS; **Participated** in Fight Antibiotic Resistance, It’s in Your Hand (Public lecture), JL Auditorium, AIIMS, New Delhi, 5 May 2017; World Health Day 2017 Event, Ministry of Health and Family Welfare, on Depression, Let’s Talk, New Delhi, 7 April 2017; International Solidarity (in Collaboration with Healthy Ageing NGO) Programme on children and their grandparents’ relations at Gandhi Darshan, New Delhi, 22 April 2017; World Malaria Day, Theme: End Malaria for Good New Delhi-110001 on 25 April 2017; Symposium on National Dengue Day: Community Empowerment, Tool to fight dengue, jointly organized by Department of Medicine, AIIMS, NVBDCP and Ministry of Health and Family Welfare on 16 May 2017; Faculty Mentorship Programme of AIIMS, New Delhi in Conference Hall on 20 July 2017; World Non-Communicable Diseases Congress 2017, 4-6 November 2017, PGIMER, Chandigarh; 45th National IAPSM CON 2018, Smt. Kashibai Navale Medical College and Hospital, Narhe, Pune, 9-11 March 2018; National Annual Kaya Kalp Monitoring and Evaluation Programme at AIIMS, New Delhi on 7 February 2018.

Dr Partha Haldar was **Member** of TRG Hepatitis Surveillance in India, NCDC, Ministry of Health and Family Welfare, Government of India; NWG for HIV estimates in India, NACO, Ministry of Health and Family Welfare, Government of India; Secretary for the Hepatitis Surveillance Sub-Committee, NCDC, Ministry of Health and Family Welfare, Government of India; TRG for Hepatitis Surveillance in India, National Center for Disease Control (NCDC), Ministry of Health and Family Welfare, Government of India; Committee drafting the operational guidelines for rolling out of the viral hepatitis surveillance in India, for National Center for Disease Control (NCDC), Ministry of Health and Family Welfare, Government of India; National Working Group for HIV estimates in India, constituted by the National AIDS Control Organization, Ministry of Health and Family Welfare, Government of India; Central Regional Institute constituted at AIIMS, New Delhi, for HIV sentinel surveillance; Guest faculty for Executive Education Programme at Indian Institute of Management, Bengaluru.

Dr Ravneet was **Member** of National Working Group of IAPSM on maternal, infant and young child nutrition; Course Writers Committee of IGNOU for PG diploma in environmental and occupational health; **Reviewer** for Indian Journal of

Public Health, Indian Journal of Youth and Adolescent Health; **Participated** in Workshop for Launch of Point of Care Quality Improvement Model (version 2): Facilitators Meet at AIIMS, New Delhi on 24 November 2017.

Dr Harshal Ramesh Salve was **Member** of Core Team, National Trainer, Field Supervision Team and for National NCD Monitoring Survey 2017; Core Team and National Trainer for MINerVANetwrok for SRS by RGI—AIIMS, New Delhi; Disease Prevention and Outbreak Response Cell (DPORC), AIIMS, New Delhi; Scientific Advisory Board of Understanding Climate and Health Association in India (UCHAI)—NIEHS Sponsored Network; **Participated** in Disease Prevention and Outbreak Response Cell (DPORC) Meeting at Department of Pediatrics AIIMS (5 April 2017); First World NCD Congress at PGIMER, Chandigarh (4-6 November 2017); Short Course on Air Pollution, Climate and Health: Methods and Modeling at PHFI, Gurugram (15-19 January 2018); Systematic Review and Meta-analysis in Healthcare Workshop at NICED, Kolkata, West Bengal (7-9 March 2018); Examiner for MBBS Final Pre-Professional Examination (October 2017) and MBBS (Supplementary) Final Pre-Professional Examination in Community Medicine for the Department; **Reviewer** for International Journal of Medicine and Public Health.

Dr Rakesh Kumar participated in Workshops “Short course on air pollution, health and climate: Methods and modelling” organized jointly by Harvard TH Chan School of Public Health and Public Health Foundation of India on 15-19 January 2018; **Reviewer** for Indian Journal of Public Health, The Journal of Obstetrics and Gynaecology of India, International Journal of Medicine and Public Health.

VISITING SCIENTISTS

1. Delegates from Maastricht University visited CRHSP, Ballabgarh on 31 October 2017, Mr. Martin Dillon, Chief Executive Officer of Truscreen
2. Fellows under School of International Biodesign were posted at CRHSP, Ballabgarh from 15 February to 9 March 2018
3. Mr. Guo Jinaxin, Chief Executive Officer and delegates from Sinopharm Group visited CRHSP, Ballabgarh on 12 March 2018
4. Belgium Delegation led by H.E. Mr. Mohamad Ridouani on 8 November 2017.

9.9. Dermatology and Venereology

Professor and Head
Vinod Kumar Sharma

Professors

Neena Khanna
B.K. Khaitan

Kaushal K. Verma
Sujay Khandpur
Somesh Gupta

M. Ramam
G. Sethuraman

Assistant Professors

Kanika Sahni

Savita Yadav (up to 5 February 2018)

Neetu Bhari

HIGHLIGHTS

The department has got approval to start three new one-year fellowship programmes for post MD students, in “Immunodermatology and bullous disorders, pediatric dermatology and dermatosurgery and lasers”. Two new speciality clinics were started in last one year, Pediatric Dermatology and Photodermatology.

EDUCATION

The department is training 17 junior residents and 7 senior residents and guiding 4 PhD candidates. The department has started one year fellowship in immunodermatology pediatric dermatology and dermatosurgery. A competency based training of 2 weeks for MD (Medicine) and DM (infectious disease) residents has been started. Dermatology residents are being posted on rotation for 2 weeks in these departments also. Approximately 15 residents were posted in Dermatology Department during 2017-18 for 2 weeks training.

Long/Short term training

Short Term Training: 4 candidates were short listed for one month training during 2017-18 from other states. Two candidates out of 4, successfully completed their training.

Lectures delivered

V.K. Sharma

1. Biologics in dermatology an overview and chaired scientific session, 1st CUTICON IADVL J & K Branch, 26-27 September 2017, Srinagar
2. PRP-AIIMS experience, 43rd Annual IADVL Conference, CUTICON 2017, 14-15 October 2017, Chandigarh
3. PRP-AIIMS experience, 2nd Aesthetic Asia 2017, IADVL East Zone, 26-29 October 2017, Port Blair
4. How to nail the nail disorders, 6th Annual National Conference of Nail Society of India, 4-5 November 2017, Amritsar
5. Dermoscopy and dermatopathology in Pigmentary Disorders, 3rd Biennial Conference of PDS, Pigmentrycon 2017, 10-12 November 2017, Indore
6. Patch testing and dermoscopy-value in LPP vs PCD, 3rd Biennial Conference of PDS, Pigmentrycon 2017, 10-12 November 2017, Indore
7. Current scenario of STI in adolescents, ASTICON 2017, 31st National Conference of IASSTD and AIDS, 24-26 November 2017, AIIMS, Bhubaneswar
8. Myths and pitfalls in PRP, International Aesthetics and Clinical Dermatology (IACDC), 8-10 December 2017, Chandigarh
9. Hands on to improve regimentation in Vitiligo, 46th National Conference of IADVA, 18-21 January 2018, Kochi, Kerala
10. The menace of dermatophytosis: What is the cause? Annual Meeting of American Academy of Dermatology, 16-20 February 2018, California, USA

Neena Khanna

1. Cicatricial alopecia, Quarterly Scientific Meeting of WDS, 30 April 2017, Santa Cruz, Mumbai
2. Managing home, hearth and practice, Quarterly Scientific Meeting of WDS, 30 April 2017, Santa Cruz, Mumbai
3. Acne, SAARC Association of Aesthetic Dermatology, 19 May 2017, Kandima Island, Maldives
4. Interesting cases in acne, O-Scar Acne Group Meeting, 30 July 2017, Mumbai
5. Optimising topical therapies, O-Scar Acne Group Meeting, 30 July 2017, Mumbai
6. How to choose a cleanser/cosmetic/sunscreen in acne prone patients, Mid Dermacon 2017, 12 August 2017, Vashi, Navi Mumbai, Mumbai
7. Role of biologicals in dermatology, Meerut Chapter of IADVL-CME, 23 September 2017, Meerut
8. Recurrent pustular psoriasis, Dermacon 2018, 18 January 2018, Bolgatty International Convention Centre, Kochi, Kerala
9. Coded Unani formulations (UNIM 401 systemically and UNIM 403 topically) and PUVA sol in chronic plaque psoriasis: Noninferiority randomized controlled clinical trial, International Conference on Unani Medicine, 10 February 2018, A.P. Shinde Symposium Hall, NASC Complex, Pusa, New Delhi
10. Interesting cases in acne, O-Scar-CME on Acne IADVL (Andhra State Branch), 4 March 2018, Visakhapatnam
11. PCOS and Metabolic Syndrome, WDS CME, 09 March 2018, India, Delhi

Kaushal K. Verma

1. Effectiveness and safety of Acyclovir 1 gm once a day single oral dose for 5 days for treatment of Genital Herpes, STI and HIV World Congress 2017, 8-13 July 2017, Rio de Janeiro, Brazil
2. Occupational air-borne contact dermatitis in India, Centre of Occupational and Environmental Dermatology, University Hospital Heidelberg, 17-18 July 2017, Heidelberg, Germany
3. Syphilis in post elimination era - Control strategies! 22nd Annual Scientific Session of Sri Lanka College of Sexual Health and HIV Medicine and the Symposium of International Union against Sexually Transmitted Infections Asia Pacific Conference (IUSTI-AP), 5-7 October 2017, Colombo, Sri Lanka
4. Recalcitrant alopecia areata—Management strategies, National Hospital Colombo, 5-7 October 2017, Colombo, Sri Lanka
5. Cement dermatitis in India, 43rd Annual Meeting of the Taiwanese Dermatological Association (TDA) and 14th Asia-Pacific Environmental and Occupational Dermatology Symposium (APEODS), 17-19 November 2017, Taipei, Taiwan
6. Air borne contact dermatitis in India, 43rd Annual Meeting of the Taiwanese Dermatological Association (TDA) and 14th Asia-Pacific Environmental and Occupational Dermatology Symposium (APEODS), 17-19 November 2017, Taipei, Taiwan
7. Managing genital herpes - Are there better and effective ways! 46th National Conference of Indian Association of Dermatologists, Venereologists and Leprologists, 18-21 January 2018, Kochi, Kerala

8. DCP is outdated and should be discarded! 46th National Conference of Indian Association of Dermatologists, Venereologists and Leprologists, 18-21 January 2018, Kochi, Kerala
9. Management of severe recalcitrant alopecia areata—Newer therapeutic options! Annual Conference of Society of Dermatologists and Venereologists of Nepal, 23-24 March 2018, Bharatpur, Nepal

M. Ramam

1. Clinical dermatology today: A personal perspective, National Symposium on Clinical Dermatology and Therapeutics 2017, 5-6 August 2017, Bengaluru, Karnataka
2. Epidermal reaction patterns, International Conference on Dermatopathology, 26-27 August 2017, Tamil Nadu, Chennai
3. Leprosy mimics, 38th Symposium of the International Society of Dermatopathology, 28-30 September 2017, Glasgow, UK
4. Disorders of hypopigmentation and hyperpigmentation, 8th Leeds Update on Dermatopathology, 2-3 October 2017, St. James University Hospital, UK
5. Drug myths realities, 43rd Annual IADVL Conference, 14-15 October 2017, Jalandhar
6. Approach to interface dermatitis, CME in Dermatopathology, 21 October 2017, Vellore
7. Role of dermatopathology in diagnosis of cutaneous vasculitis and panelist in panel discussion challenging dermatopathology cases, 28th Annual Conference of NE State Branch of Indian Association of Dermatologists, Venereologists and Leprologists, 27-28 October 2017, Shillong, Meghalaya
8. Drug reactions, myth and reality and two novel pigmentary disorders, DERMAZONE East, 10-12 November 2017, Manipur
9. Pigmentary disorders, Annual Conference of the Dermatopathology Society of India 2017, 1-3 December 2017, Puducherry
10. Cutaneous tuberculosis and patterns and clues in infections dermatopathology, The 4th African Dermatopathology Conference and 23rd RDTIC International CME Conference, 9-13 January 2018, Moshi, Tanzania
11. Dare to challenge granulomas, inflammatory cases, cutaneous neoplasms, miscellaneous cases and what is exciting in psoriasiform reactions? 2nd Edition of the Dubai International Academy of Dermatopathology, 1-3 March 2018, Dubai

B.K. Khaitan

1. What's new in dermatology, Mid Year CUTICON 2017 Organized by IADVL-Delhi State Branch, 28 May 2017, New Delhi
2. Segmental vitiligo: Is it different from other vitiligo? Or just a type of vitiligo: Implication in management, Vitiligo Symposium 2017, 25 June 2017, Mumbai
3. Therapeutic dilemmas in dermatophytosis, Dermatophytosis: Fighting the challenge, 2-3 September 2017, Chandigarh
4. Management of leprosy, 3rd PGCON (North Zone), 9-10 September 2017, New Delhi
5. Meet the experts—How to nail the nail disorders, Annual National Conference of Nail Society of India (6th Onychocon 2017), 4-5 November 2017, Amritsar
6. Diagnostics in nail disorders, Annual National Conference of Nail Society of India (6th Onychocon 2017), 4-5 November 2017, Amritsar
7. Has the paradigm shifted in the management of severe pemphigus in India, International Aesthetic and Clinical Dermatology Conference (IACDC 2017), 8-10 December 2017, Chandigarh
8. Segmental vitiligo: How it is different, International Aesthetic and Clinical Dermatology Conference (IACDC 2017), 8-10 December 2017, Chandigarh
9. Management of SJS and TEN, CUTICON Jharkhand 2017, 16-17 December 2017, Ranchi
10. Vitiligo—Where do we stand? Critical appraisal of existing treatment options, DERMACON-2018, 18-21 January 2018, Kochi, Kerala
11. DCP in pemphigus, DERMACON-2018, 18-21 January 2018, Kochi, Kerala
12. A randomized comparative study of the effect of betamethasone oral mini-pulse therapy vs oral azathioprine in progressive non-segmental vitiligo, DDG 2018 KOMPAKT and PRAXISNAH (German Dermatology Association Congress), 2-3 March 2018, Stuttgart, Germany

Sujay Khandpur

1. Focal dermal hypoplasia—an intriguing dermatosis, XXXVIII Symposium of the International Society of Dermatopathology, 28-30 September 2017, Glasgow, UK

2. Cutaneous vasculitis, 8th Leeds Update, 2-3 October 2017, St. James's Hospital, Leeds, UK
3. Trainer in workshop on leprosy and delivered a talk, Histopathology of Leprosy, 27-29 April 2017, Anandaban Hospital, Kathmandu, Nepal
4. Vascular lasers, Preconference Dermatopathology CME Workshop under 12th World Congress of Cosmetic Dermatology (WCOCD), 3 May 2017, Bengaluru, India
5. Sclerotherapy in vascular malformations, 12th World Congress of Cosmetic Dermatology (WCOCD), 4-6 May 2017, Bengaluru
6. A compendium of challenging cases, Mid Year CUTICON 2017, 28 May 2017, New Delhi
7. Relevance of histopathology in pigmentary dermatoses, CME in Dermatopathology, 18 June 2017, Chennai
8. Role of histopathology in alopecias, CME in Dermatopathology, 22 July 2017, Odisha
9. Clinical pearls in dermatology, 38th CUTICON RAJ 2017, 14-15 October 2017, Ajmer, India
10. Clinico-histopathological pearls, CME in Dermatopathology, 21 October 2017, Christian Medical College, Vellore, Tamil Nadu
11. Clinico-histopathological tight spots, Annual Conference of the Dermatopathology Society of India, 1-3 December 2017, JIPMER, Pondicherry
12. Tip-offs in dermatological diagnosis, International Aesthetic and Clinical Dermatology Conference (IACDC - 2017), 8-10 December 2017, PGIMER, Chandigarh,
13. Spindle cell tumours, 20th Annual Conference of IADVL, West Bengal (CUTICON WB 2017), 16-17 December 2017, Kolkata
14. Panelist in panel discussion on lymphoproliferative disorders, 20th Annual Conference of IADVL, West Bengal (CUTICON WB 2017), 16-17 December 2017, Kolkata
15. How I tackle persistent light reactions, 46th National Conference of Indian Association of Dermatologists Venereologists Leprologists, DERMACON 2018, 18-21 January 2018, Kochi, Kerala
16. Panelist in panel discussion on Vesicobullous Diseases, 46th National Conference of Indian Association of Dermatologists Venereologists Leprologists, DERMACON 2018, 18-21 January 2018, Kochi, Kerala
17. Basic tissue reactions: Pattern recognition in dermatopathology-Epidermal reaction patterns, Dermatopathology Workshop Cum CME, 17 March 2018, AIIMS, Jodhpur
18. Phototherapy and photochemotherapy, online lecture (Via video conference), MSc in Clinical Dermatology (Session 2017-18), 23 March 2018, Department of Dermatology, University Hospital of Wales, Cardiff, UK

Sethuraman Gomathy

1. Update on epidermolysis bullosa, DERMAZONE BEST, 15-17 December 2017, Rajkot, Gujarat
2. Diagnosis of EB in resource limited settings, CUTICON, 14-15 October 2017, Ajmer, Rajasthan
3. Vitamin D, bone health and congenital ichthyosis, 1st CUTICON, 26-27 September 2017, Srinagar, Jammu and Kashmir
4. Management of infantile hemangiomas, DERMACON, 19-21 January 2018, Cochin, Kerala
5. Epidermolysis bullosa, DERMACON, 19-21 January 2018, Cochin, Kerala

Somesh Gupta

1. Ingrown toe nail, 46th National Conference of IADVL, 19 January 2018, Kochi
2. Scar revision, 46th National Conference of IADVL, 20 January 2018, Kochi
3. Vitiligo surgery: Patient selection, 46th National Conference of IADVL, 19 January 2018, Kochi
4. Surgical pearls in cutaneous surgery, Dermatology and Aesthetic Surgery International League, 2017, Shanghai
5. Vitiligo workshop, Dermatology and Aesthetic Surgery International League, 2017, Shanghai
6. Fractionated cryosurgery, Dermatology and Aesthetic Surgery International League, 2017, Shanghai
7. Intralesional electrosurgery, Dermatology and Aesthetic Surgery International League, 2017, Shanghai
8. Immunotherapy for genital HPV infection, 22nd Annual Scientific Sessions of the Sri Lanka College of Sexual Health and HIV Medicine (SLCoSH) along with IUSTI-Asia-Pacific Symposium, 6 October 2017, Colombo
9. AIDS knocking the dermatologist's door again: Resurgence of cases with unusual cutaneous manifestations, 41st National Conference of Indian Association for the Study of STD and AIDS (ASTICON 2017), 25 November 2017, AIIMS, Bhubaneswar
10. Breaking the claws - Keloids, 12th World Congress of Cosmetic Dermatology, 4-6 May 2017, University of Agricultural Sciences, Bengaluru
11. Surgical scar planning - Video course, 12th World Congress of Cosmetic Dermatology, 4-6 May 2017, University of Agricultural Sciences, Bengaluru

12. Scars autologous dermal suspension, 12th World Congress of Cosmetic Dermatology, 4-6 May 2017, University of Agricultural Sciences, Bangaluru
13. In vivo preparation of epidermal cell suspension + Potpourri - summarizing the workshop and take home massage, 12th World Congress of Cosmetic Dermatology, 4-6 May 2017, University of Agricultural Sciences, Bangaluru
14. Minimally invasive targeted ablation in dermatosurgery, International Aesthetic and Clinical Dermatology Conference, 8-10 December 2017, PGIMER, Chandigarh
15. Managing keloids: Some practical tips, some innovations, International Aesthetic and Clinical Dermatology Conference, 8-10 December 2017, PGIMER, Chandigarh
16. Deepithelialized dermal graft, 43rd Annual IADVL Conference of Punjab, Chandigarh and Himachal Pradesh, 14-15 October 2017, Jalandhar
17. In-vivo preparation of epidermal cell suspension for transplantation in vitiligo, Workshop on Vitiligo Surgery, 25 February 2018, JLN Medical College, Wardha
18. Managing keloids, Aesthetics 2017, 18-20 August 2017, India Habitat Center, New Delhi
19. Video vitiligo workshop, Aesthetics 2017, 18-20 August 2017, India Habitat Center, New Delhi
20. Panel discussion on surgical management of vitiligo, Pigmentaycon 2017, 11-12 November 2017, Brilliant Convention Center, Indore
21. Targeted ablation in dermatosurgery, 1st Annual Conference of IADVL - J&K, 26-27 September 2017, Sher-e-Kashmir Convention Center, Srinagar

Kanika Sahni

1. Fat transfer for the dermatosurgeon, IADVL Dermatosurgery Workshop 2018 (Under the Auspices of IADVL SIG Dermatosurgery and IADVL Delhi State Branch), 7 January 2018, Medanta the Medicity, Gurugram
2. Simplifying fat transfer for the dermatosurgeon, International Aesthetic and Clinical Dermatology Conference, 8-10 December 2017, PGIMER, Chandigarh
3. Debate on acquired dermal macular hypermelanosis, International Aesthetic and Clinical Dermatology Conference, 8-10 December 2017, PGIMER, Chandigarh
4. Panel discussion on surgical management of vitiligo, Pigmentaycon 2017, 11-12 November 2017, Brilliant Convention Center, Indore
5. Live surgery workshop on surgical management of vitiligo, Pigmentaycon 2017, 11-12 November 2017, Brilliant Convention Center, Indore
6. Simplifying liposuction and fat transfer for the dermatosurgeon, 43rd Annual IADVL Conference of Punjab, Chandigarh and Himachal Pradesh, 14-15 October 2017, Jalandhar
7. Selection of patients for vitiligo surgery, Aesthetics 2017, 18-20 August 2017, India Habitat Center, New Delhi
8. Video demonstration of technique of non cultured epidermal suspension transplantation, Aesthetics 2017, 18-20 August 2017, India Habitat Center, New Delhi
9. Selection of patients for vitiligo surgery, 12th World Congress of Cosmetic Dermatology, 4-6 May 2017, University of Agricultural Sciences, Bangaluru
10. Stability issues in vitiligo, 12th World Congress of Cosmetic Dermatology, 4-6 May 2017, University of Agricultural Sciences, Bangaluru

Neetu Bhari

1. What is new in STI? Mid-Year CUTICON, 28 May 2017, New Delhi
2. Rapid response of kasabach-merritt phenomenon to a combination of oral prednisolone and sirolimus, Indian Society of Pediatric Dermatology, Annual Conference, 20 August 2017, New Delhi
3. Patch test, PGCON Conference, 10 September 2017, University College of Medical Sciences, New Delhi
4. What is new in atopic eczema? CUTICON Punjab, 15 October 2017, Jalandhar, Punjab
5. Panel discussion: Revisiting STD Clinic, CUTICON, UP, 29 October 2017, Fatehabad Road, Agra
6. Utility of whole exome sequencing in genodermatoses, Genomics in Clinics, 15 November 2017, AIIMS, New Delhi
7. Anogenital wart with atypical, morphological features is not always, an alarming signal for the treating physician, ASTICON 2017, 25 November 2017, AIIMS, Bhubaneswar
8. Sexual education in school going children, ASTICON 2017, 26 November 2017, AIIMS, Bhubaneswar
9. Normal skin structure, Annual Meeting of Dermatopathology Society of India, 1 December 2017, JIPMER, Puducherry

Oral Papers/posters presented

1. Khanna N, Oral presentation: Are we clinically missing leprosy in era of elimination, American Academy of Dermatology Annual Meeting 2018, 16 February 2018, San Diego, Convention Centre, California USA
2. Khanna N, Poster presentation: Are we clinically missing leprosy in era of elimination, American Academy of Dermatology Annual Meeting 2018, 16 February 2018, San Diego, Convention Centre, California USA
3. Subhadarshani S, Sethuraman G, Verma KK, Study of contact sensitizers in patients with contact dermatitis due to cosmetics at a tertiary care centre in India, CUTICON IADVL - Delhi State Branch, 3 December 2017, Delhi
4. Singh S, Anand I, Gupta S, Serial excision of giant plexiform neurofibroma overlying vital structures of head and neck: It's time to widen the horizon of cutaneous surgery, World Congress of Cosmetic Dermatology (WCOCD) 2017, May 2017, University of Agricultural Sciences, Bengaluru
5. Gupta S, Kumar P, Bhari N, Arawa S, Sharma VK, Dar L, Verma KK, Anogenital wart with atypical morphological features is not always an alarming signal for the treating physician, STI and HIV World Congress, 9-12 July 2017, Rio de Janeiro
6. Sahni K, Abhishek GN, Bhari N, Painless bruising with migraine: A rare phenomenon, 46th National Conference of IADVL, 19 January 2018, Kochi

RESEARCH

Funded Projects

Ongoing

1. Quality of life in patient with lichen planus pigmentosus and its comparison with vitiligo and melasma, V.K. Sharma, DBT, 2018-19, Rs 0.6 lakhs
2. Defining the role of genetic epigenetic and immunological components involved in the pathogenesis of alopecia areata, V.K. Sharma, ICMR, 3 years, 2015-18, Rs 45 lakhs
3. Comparison of clinical efficacy and safety of PUVA sol and Unani formulation UNIM-004 (oral) and UNIM-005 (LA) and sunlight in treatment of vitiligo, Neena Khanna, CCRUM, Ministry of Ayush, 3 years, 2015-18, Rs 35.47 lakhs
4. A phase 2, multicenter, randomized, double blind, comparative study to evaluate the reduction in incidence of scarring in acne vulgaris subjects treated with combination of Benzoyl peroxide (2.5%/5%), Zinc Oxide and Polysiloxanes compared to Benzoyl Peroxide (2.5%/5%), Neena Khanna, Dr Reddy's Laboratories, 6 months, 2017-18, Rs 5.55 lakhs
5. Comparison of the efficacy of rituximab infusion and dexamethasone cyclophosphamide pulse in moderate to severe pemphigus vulgaris, Sujay Khandpur, ICMR, 3 years 9 months, 2015-18, Rs 29.72 lakhs
6. Prospective non-randomized controlled trial to compare the efficacy of subcutaneous etanercept versus oral methotrexate in moderate to severe chronic plaque psoriasis and to correlate response with Th1, Th2, Th17 and Treg cell patterns, Sujay Khandpur, Pfizer Pharmaceutical, 2 years, 2016-18, Rs 11.61 lakhs
7. A double-blind randomized trial of transplantation of cultured melanocytes from epidermis, Somesh Gupta, DBT, 3 years, 2017-20, Rs 60.27 lakhs
8. Quantitative assessment of melanocyte and epithelial stem cells in the bulge region of depigmented vs. successfully repigmented hair follicles after non-cultured epidermal cell suspension transplantation in vitiligo: A prospective study, Somesh Gupta, IADVL, 2 years, 2018-20, Rs 4.4 lakhs
9. Efficacy and safety of non-cultured extracted follicular outer root sheath cell suspension and conventional epidermal cell suspension transplantation in stable vitiligo and correlation with constituent stem cell population, Somesh Gupta, ICMR, 1 year, 2017-18, Rs 10.59 lakhs
10. A prospective split face randomized controlled study comparing injection of autologous fat alone versus autologous fat mixed with platelet rich plasma for age-related facial volume deficit especially tear through deformity; with isolation and characterization of adipose derived stem cells, Kanika Sahni, AIIMS, 2 years, 2017-19, Rs 8.98 lakhs
11. Effect of Q-switched Nd-YAG laser on the clinical, pigmentary and immunological markers in the patients with lichen planus pigmentosus: A pilot study, Neetu Bhari, AIIMS, 2 years, 2017-19, Rs 4.80 lakhs

Completed

1. Defining MiRNA signatures in vitiligo and skin pigmentation, V.K. Sharma
2. Elucidating role FoxP3 promoter DNA methylation Level in active non-segmental Generalized vitiligo, V.K. Sharma
3. Evaluation of patch test reaction time with varying concentrations of parthenium acetone extract in patients of parthenium dermatitis, K.K. Verma

Departmental projects

Ongoing

1. Common contact sensitizers in PCD to cosmetics
2. Common contact sensitizers in ACD to cosmetics
3. Rituximab in pemphigus –long term outcome
4. Photosensitisers in chronic actinic dermatitis
5. Narrow band UVB in stable and spreading vitiligo
6. Photodermatoses in children
7. Dermal suspension for scars and facial volume defects
8. Mrna in systemic sclerosis-correlation with systemic involvement
9. Comparative efficacy of 4-fold up dosing os same antihistamine and combination of two antihistamine.
10. Comparative efficacy of intralesional bleomycin and candida immunotherapy in palmo plantar warts
11. PRP in vitiligo along with non cultured epidermal cell suspension
12. mRNA in vitiligo
13. PRP in Alopecia areata-a clinical immunochemistry
14. Genetic studies in vitiligo-Correlation with clinical risk factors
15. Effect of dexamethasone/dexamethasone-cyclophosphamide pulse therapy on lymphocytes subpopulation in pemphigus vulgaris
16. Role of platelet rich plasma in leprosy induced ulnar neuropathy
17. Study of epidemiological factors contributing to treatment failure in patients with dermatophytic infection attending tertiary care hospital in northernindia
18. A cross-sectional study to assess autonomic nervous system imbalance and its correlation with cutaneous manifestations in patients with systemic sclerosis
19. Patch testing with mercapto mix with a high content of 2-mercaptobenzothiazole
20. Evaluation of effectiveness of combination of isotretinoin with terbinafine and terbinafine alone in the treatment of recurrent dermatophytosis
21. Patch testing with a Methlchloroisothiazoline/methylisothiazolinone mix with a higher concentration of methylisothiazoline
22. A study to assign clinical meaningfulness to VIS-22 scores
23. Study of stability and spontaneous repigmentation in vitiligo
24. Development of a scale to measure the psychosocial impact of vitiligo in family members of patients
25. Dexamethasone – Cyclophosphamide pulse therapy in pemphigus
26. A comparative, observational study to evaluate the effect of narrow band UV-B therapy in patients with progressive non-segmental vitiligo versus non-progressive non-segmental vitiligo.
27. A descriptive study of clinical and histopathological features of acquired blaschko-linear and segmental dermatological diseases other than segmental vitiligo
28. An Investigator Initiated Trial to assess the efficacy and safety of adalimumab biosimilar (Exemptia; ZRC-3197) in patients of psoriatic arthritis with concomitant moderate to severe chronic plaque psoriasis: An open labelled prospective pilot case series
29. Comparison of non-cultured extracted hair follicle outer root sheath cell suspension with non-cultured epidermal cell suspension in repigmentation of leukotrichia in vitiligo
30. Comparison of efficacy and safety of three strengths of tacrolimus cream 0.1%, 0.2%, 0.3% with placebo in patients with non segmental vitiligo
31. A split face randomized control study comparing the efficacy and safety of intralesional radiofrequency assisted subcision versus conventional subcision in post acne scars
32. A study to classify periorbital hyperpigmentation based on clinico-investigative profile
33. Comparative efficacy of intralesional bleomycin sulphate and intra-lesional immunotherapy with candida skin testing antigen in the treatment of palmoplantar warts.
34. Estimation of epidermal lipids in autosomal recessive congenitalichthyosis and its correlation with phenotype and genotype
35. A descriptive study of clinical and histopathological features of acquired blaschko-linear and segmental dermatological diseases other than segmental vitiligo

36. A cross-sectional study to assess autonomic nervous system imbalance and its correlation with cutaneous manifestations patients with systemic sclerosis

Completed

1. Patch testing with mercapto mix with a high content of 2-mercaptobenzothiazole
2. Evaluation of effectiveness of combination of isotretinoin with terbinafine and terbinafine alone in the treatment of recurrent dermatophytosis
3. Patch testing with a methchloroisothiazoline/methylisothiazolinone mix with a higher concentration of methylisothiazoline
4. Dosimetry and calibration of hand-held NB-UVB device
5. Utility of hand-held NB-UVB device in treatment of localized vitiligo
6. Clinico-histopathological study of childhood-onset photodermatoses
7. Dosimetry and calibration of hand-held NB-UVB device
8. Utility of hand-held NB-UVB device in treatment of localized vitiligo
9. Clinico-histopathological study of childhood-onset photodermatoses

Collaborative

1. Immuno-genetics mechanisms in epilepsy patients taking anti-epileptic medications, Neurology
2. A study to identify the genetic basis of Stevens-Johnson Syndrome (SJS), Anatomy
3. To evaluate the role of CD4 TCR δ in leprosy patients, Biochemistry
4. Improvement on levothyroxine replacement of clinical, biochemical, hormonal and insulin sensitivity parameters in women with Polycystic Ovary Syndrome (PCOS) presenting with subclinical hypothyroidism, Endocrinology
5. Evaluation of prevalence, regional phenotypic variation, comorbidities, risk factors and the variations in response to different therapeutic modalities among Indian women with Polycystic Ovary Syndrome (PCOS): A multicenter study across India (ICMR-PCOS Task Force Study), Endocrinology
6. Radioactive skin patches for treatment of basal cell carcinoma and keloids, Nuclear Medicine
7. Assessment of liver fibrosis by ultrasound elastography in patients of psoriasis and Reiter's Disease on long term methotrexate therapy, Radiology, Gastroenterology, Pathology
8. Study of T cells and its scavenger receptor in the pathogenesis of pemphigus vulgaris, Biochemistry
9. Role of gamma-delta T-cells in pemphigus vulgaris, Biochemistry
10. Nano-enabled biosensors for detection of *Neisseria gonorrhoe*, Microbiology
11. Defining the role of genetic, epigenetic and immunological components involved in the pathogenesis of alopecia areata defining the role of genetic, epigenetic and immunological components involved in the pathogenesis of alopecia areata, Pathology
12. Autologous fat transfer for orbital volume augmentation in sockets with small non-seeing eyes, Dr R.P. Centre for Ophthalmic Sciences

PUBLICATIONS

Journals: 69 Chapters in Books: 10 Book: 1

PATIENT CARE

The department has a 29 bed ward including two isolation rooms. The total number of long admissions from April 2016 to March 2017 was 767 and total short admission was 2798. Apart from pulse therapy which was administered in 2583 patients, biologics like rituximab were administered in 198 patients. The OPD caters to both general dermatology patients (in first half) and special clinics (STD, leprosy, dermatosurgery, Pigmentation, Allergy) and lasers (Diode, Carbon dioxide, NdYAG laser, Pulse Dye laser) in afternoon. New speciality clinics Phototherapy and side lab procedures are conducted in both morning and afternoon. According to census 37155 new cases were attended in Out Patient department and total number of old patients was 55254. Minor operation theatre procedures are conducted everyday in both morning and afternoon and total numbers of major procedures performed in OT were 1215 whereas number of minor cases was 5875.

In the past year, two new speciality clinics were started. Pediatric dermatology clinic has been started on Fridays under Dr G. Sethuraman and Dr Neetu Bhari while photodermatology clinic is started on Mondays under Dr Sujay Khandpur and Dr Neetu Bhari.

One Senior Resident is visiting Ballabgarh for skin OPD twice a week and the department has started community dermatology OPD services in Jhajjar one a week.

AWARDS/HONOURS/SIGNIFICANT EVENTS

Professor V.K. Sharma received the Professor K.C. Kandhari Foundation award of IADVL, Kochi, January 2018, Highest award of IADVL for achievement in teaching, research and association work; Observer, Board of Directors, American Academy of Dermatology (AAD) Summer Meeting and Board of Directors Meeting July 2017, New York, USA; Editorial Board- Dermatitis official journal of American Contact Dermatitis Society; Editorial Board- International Journal of Dermatology-official journal of International Society of Dermatology, USA; nominated Editor of 3rd edition of Sexually Transmitted Diseases and AIDS, official textbook of IASSTD and AIDS; International Observer to Board of Directors, American Academy of Dermatology; External Expert for Final Fellowship Examination for Bangladesh College of Physicians and Surgeons (FCPS) at Dhaka, Bangladesh; Expert for Interview of faculty at PGIMER, Chandigarh and JIPMER, Pondicherry, AIIMS Raipur; Chairman Constitution Committee- Indian Association of Dermatologists and Venereologists, Venereologists and Leprologists, DSB; National Chairman of Education Task Force-Indian Association of Dermatologists and Venereologists and Leprologists; Inaugurated conference, guest of honour and key note speaker-PRP in Dermatology, CUTICON 2017, 18-19 November 2017, Bhilai, Chhattisgarh.

Professor Kaushal K Verma was awarded Fellowship of the Royal College of Physicians (FRCP) by the Royal College of Physicians of Edinburgh; Elected as Regional Chair of the International Union against Sexually Transmitted Infections - Asia Pacific (IUSTI-AP) for a period of 4 years from 2017 to 2020; Expert for selection of faculty in the Department of Dermatology at AIIMS Bhopal and AIIMS Rishikesh; Chaired Executive Committee meeting of the International Union against Sexually Transmitted Infections Asia Pacific Conference (IUSTI-AP) as Regional Chair of the Organization; Chaired session at the ICDRG workshop on 'Patch Testing with the Masters', International Contact Dermatitis Research Group Workshop (ICDRG) in the 43 Annual Meeting of the Taiwanese Dermatological Association (TDA) and 14th Asia-Pacific Environmental and Occupational Dermatology Symposium (APEODS) at Taipei, Taiwan; Chaired a session on 'Innovations and Advancement in the Chemical Peels' in the SAARC Association of Aesthetic Dermatology at Male, Maldives; Chaired a session on 'Pre exposure Prophylaxis' in the STI and HIV World Congress-2017 at Rio-de-Janeiro, Brazil; Participated in World Executive Committee Meeting of the International Union Against Sexually Transmitted Infections (IUSTI) on 8 July 2017, wherein represented the Asia Pacific region as Chair of the IUSTI-AP; Chaired a session on Leishmaniasis during the Annual Conference of Society of Dermatologists and Venereologists of Nepal, at Bharatpur, Chitwan, Nepal; Participated as an Expert in Health Show on TV on a Public Awareness and Education Program at Doordarshan, Prasar Bharati.

Professor M. Ramam was visiting professor in the Department of Dermatology at the University of California, San Francisco from April 24 to May 5, 2017; Visiting professor to the Department of Dermatology, Churchill Hospital, Oxford University on 25-27 September 2017.

Professor Sujay Khandpur was awarded IADVL Syttopic Oration entitled 'My Journey into Unravelling Pemphigus' at 46th National Conference of Indian Association of Dermatologists, Venereologists and Leprologists (IADVL), 18-21 January 2018, Cochin; Coordinator, Special Interest Group on Dermatopathology of Indian Association of Dermatologists, Venereologists and Leprologists; Secretary, Dermatopathology Society of India; Prepared Curriculum in Dermatopathology to be followed by Institutes offering one month Observership in Dermatopathology under IADVL Academy; Prepared Curriculum in Dermatopathology to be followed by Institutes offering one year National Board of Examinations' Fellowship in Dermatopathology.

Professor G. Sethuraman received AIIMS Research Excellence Award 2017 and Professor L.K. Bhutani Award 2017 (Awarded by the Indian Association of Dermatologist, Venereologists and Leprologists).

Professor Somesh Gupta received the Dr V. N. Kale Oration Award, 29-31 December 2017, IADVL-Maharashtra Annual Conference, Mumbai; Silver Jubilee oration of Institute of Venereology, at 41st National Conference of IAS STD and AIDS, AIIMS, Bhubaneswar, 25 November 2017.

Dr Neetu Bhari won the best paper award.

Awards Won by Residents

Dr Nimitha P. won state level leprosy quiz first prize, DAAS summit national quiz first runner up, DAAS Summit award paper first runner up, ISPD national quiz first prize, TYSA Northzone first and TYSA national level first runner up.

Dr Nimitha and Dr Himabindu Saginatham got 2nd place in DAAS summit quiz and 1st place in ISPD quiz.

Dr Saurabh Bhatia got the presentation award at 5th International Dermatopathology Conference held at Taipei, Taiwan in December 2017.

Dr Sweta Subdarshini got the Young Dermatologist Award at annual CUTICON and also got 2nd prize for original article poster in CUTICON.

Dr Neha Taneja and Dr Mamta Raiwon as a team won 1st Prize at State level in National PG Dermatology Quiz (IGNQPP); 1st Prize in Asia Pacific Summit on Dermoscopy (APSOD). Residents' Forum Dermoscopy Quiz; 2nd runner up of Association of Cutaneous Surgeons-World Congress of Cosmetic Dermatology (ACS(I)-WCOCD)-Dr Reddy, International Quiz 2017; Best free paper award, Indian Society of Pediatric Dermatology, Annual Conference, New Delhi, 2017; Dr V. Govindan Nair Memorial Award, 41st National Conference of IASSTD and AIDS, Bhubaneswar, Orissa.

VISITING SCIENTIST

1. Dr Martin Kassir, USA on "Energy based devices: Overview" in August 2017
2. Dr Trilokraj Tejasvi Assistant Professor, Department of Dermatology Director of Teledermatology Director of the Cutaneous Lymphomas Program at University of Michigan, USA on Te cell lymphomas. In February 2018
3. Professor Francis Palisson from Department of Dermatology, Universidad del Desarrollo-Clinica Alemana, Santiago de Chile on Epidermolysis Bullosa. In February 2018.

9.10. Emergency Medicine

Professor and Head
Praveen Aggarwal

Professors

L.R. Murmu

Sanjeev Bhoi

Assistant Professors

Nayer Jamshed
Meera Ekka

Tej Prakash
Akshay Kumar

Prakash Ranjan Mishra (Contract, upto January 2018)

Ritin Mohindra (Contract)

HIGHLIGHTS

The department has been in the forefront of providing round-the-clock, holistic and world-standard emergency care to patients with different types of medical, pediatric and non-traumatic surgical, and traumatic emergencies. More than 1,50,000 patients visited the department in the year 2017-18. The department has been providing training to its postgraduates in the specialty of emergency medicine since 2012. The departmental faculty is also involved in teaching and training of postgraduates from other departments, undergraduate students, nursing students and paramedics in the field of emergency medicine including life support courses. The department is also involved in training to the existing and future faculty from other colleges and hospitals in the specialty of emergency medicine.

The department is involved in developing guidelines for comprehensive primary health care for burns and trauma as well as for Emergency Department at District Hospitals under the Ministry of Health and Family Welfare. In collaboration with South East Asia Region, WHO, the department is also involved in formulating guidelines on road safety as well as integration of emergency and trauma care in India. Under the AIIMS Quality Improvement Programme, the Emergency Medicine department has started several projects to further improve patient care and outcome. This has also resulted in shorter stay of patients. At the international level, the department has been collaborating with several universities from the USA with the aim of training doctors, nurses and paramedics. Some of these universities include University of South Florida and SUNY Downstate New York.

EDUCATION

The faculty organized life support courses for undergraduates, postgraduates and nurses posted in the department. The department runs a schedule of academic activities for the residents of emergency medicine (seminars, journal clubs, case discussions) once a day for 6 hours. Education and skills are imparted to residents on the use of ultrasound in emergency care of patients. Simulation-based teaching and training is imparted to the residents. In addition, the department faculty was involved in didactic teaching of undergraduates, postgraduates and nursing students through lectures and seminars.

The department imparted short term training to three undergraduate students from other countries.

CONTINUING MEDICAL EDUCATION

Conferences/seminars/workshops organized

1. EMINDIA 2017 conference on 15-16 July 2017 at India Habitat Centre, New Delhi
2. 2nd Delhi Undergraduate Emergency Medicine Quiz (EM-iQ) in January, 2018 at AIIMS, New Delhi
3. 3rd National Emergency Medicine Board Review of India Course (NEMBRIC) at Delhi, between 19-23 February 2018

Lectures delivered

Praveen Aggarwal

1. Tox Talks Today (Panel discussion), EMINDIA 2017, 15-16 July 2017, India Habitat Centre, New Delhi
2. Basics of ECG, AIIMS Emergency ECG Workshop, 2 August 2017, AIIMS, New Delhi
3. Overdose with prescription drugs, 13th Indo-US World Congress of Emergency Medicine 2017, 13-15 October 2017, National Hospital of Sri Lanka, Colombo, Sri Lanka
4. Toxic Alcohols, 13th Indo-US World Congress of Emergency Medicine 2017, 13-15 October 2017, National Hospital of Sri Lanka, Colombo, Sri Lanka
5. Common poisonings in India and status of antidotes, 37th Annual Conference of Society of Toxicology, 18-19 November 2017, PGI, Chandigarh
6. Physiotherapy in Accident and Emergency Department, 6th International Conference on Physical Therapy, 9-10 December 2017, AIIMS, New Delhi
7. Environmental emergencies, 6th National Emergency Life Support Course (organized by the Directorate General of Health Service, Ministry of Health and Family Welfare, Government of India), 18-22 December 2017, Ram Manohar Lohia Hospital, New Delhi
8. Acute poisoning, 6th National Emergency Life Support Course (organized by the Directorate General of Health Service, Ministry of Health and Family Welfare, Government of India), 18-22 December 2017, Ram Manohar Lohia Hospital, New Delhi
9. Acute toxicology and pharmacology, 3rd National Emergency Medicine Board Review of India Course (NEMBRIC) organized by Academic College of Emergency Experts in India in partnership with National Board of Examinations, 19-23 February 2018, National Board of Examinations, New Delhi
10. Injuries to bones and joints, 3rd National Emergency Medicine Board Review of India Course (NEMBRIC) organized by Academic College of Emergency Experts in India in partnership with National Board of Examinations, 19-23 February 2018, National Board of Examinations, New Delhi

Nayer Jamshed

1. Catering to Challenges in Emergency Cardiology (Panel discussion), EMINDIA 2017, 15-16 July 2017, India Habitat Centre, New Delhi
2. Case-Based Discussion (Moderator), EMINDIA 2017, 15-16 July 2017, India Habitat Centre, New Delhi
3. Disposable ventilator, A dream or reality, 7th International CME, Workshop and Conference on Cost Effective use of Technology in e-Healthcare, 11-13 September 2017, AIIMS, New Delhi

Meera Ekka

1. Resources on QI; Where to look for? Workshop on Quality Improvement—Preconference Workshop on Quality Improvement during EMINDIA 2017, 12 July 2017, AIIMS, New Delhi
2. Miscellaneous ECG, AIIMS Emergency ECG Workshop, 2 August 2017, AIIMS, New Delhi
3. Skill station instructor for Knobology, Airway, Breathing, ECHO and IVC, AIIMS Ultrasound Trauma Life Support (AUTLS) Course, 3 August 2017, AIIMS, New Delhi

Akshay Kumar

1. Quality improvement project—Door to ECG time, Quality Improvement in Healthcare—Faculty Development Workshop, 7 April 2017, AIIMS, New Delhi
2. Head trauma, Advanced Trauma Life Support—International Course, 5 May 2017, ATLS Lab, Trauma Centre, New Delhi
3. Approach to a patient with chest pain, National Training of Central Health Scheme Doctors-CME, 22 June 2017, NIHFW, Munirka, New Delhi
4. Initial airway and breathing assessment in a sick patient, Capacity Building Workshop for Medical Officers of Rajasthan, 23-25 June 2017, Trauma Centre, AIIMS, New Delhi
5. Assessment of a patient with snake bite, cardiopulmonary resuscitation and splinting and transferring a trauma victim, First Responder Course—Ministry of Health and Family Welfare, 1 July 2017, NIHFW, Munirka, New Delhi
6. Emergency medical services in disaster, Disaster Management Workshop, 5 July 2017, Haryana Institute of Public Administration, Gurgaon
7. Implementing change ideas, National Quality Improvement Workshop for Emergency Physicians—EMINDIA 2017 (National Conference), 12 July 2017, CMET, AIIMS, New Delhi

8. Significance of quality improvement in an academic institution, Capacity Building Workshop for Specialist Doctors of Kerala, 28 July 2017, Trauma Centre, AIIMS, New Delhi
9. Approach to brady-arrhythmias, AIIMS Emergency ECG Course, 2 August 2017, CMET, AIIMS, New Delhi
10. Introduction to emergency medicine and triage, Emergency Life Support Course for Residents and Nurses, 5 September 2017, Emergency Department, AIIMS, New Delhi
11. Approaching a code red patient and emergency drugs, Critical Care Nurses Update-CME, 7 September 2017, AIIMS, New Delhi
12. Triage in the Emergency Department, Emergency Life Support Course for Residents and Nurses, 5 October 2017, Emergency Department, AIIMS, New Delhi
13. Emergency response in disaster, Disaster Training of Security Personnel, 26 October 2017, NDMA Bhawan, New Delhi
14. Introduction to emergency medicine, Emergency Life Support Course for Residents and Nurses, 4 December 2017, Emergency Department, AIIMS, New Delhi
15. Initial assessment of a sick surgical patient and altered sensorium in a Surgical Patient Acute Care and Critical Course for Surgeons—National Workshop, 1-4 January 2018, University College of Medical Sciences, Maulana Azad Medical College, New Delhi
16. Cardio-pulmonary resuscitation, First Responder Training of Trainers, 16-18 February 2018, NIHF, Munirka, New Delhi
17. Story of quality improvement in Emergency Department, National Workshop on Quality Improvement Skills—organized by Department of Pediatrics, 28 March 2018, Board Room, AIIMS, New Delhi

Oral papers/posters presented

1. Amrithanand PV, Aggarwal P. CPC—Aortic dissection with acute AR with acute heart failure with stroke, 13th Indo-US World Congress of Emergency Medicine 2017, 13-15 October 2017, National Hospital of Sri Lanka, Colombo, Sri Lanka

RESEARCH

Funded Projects

Completed

1. Role of cardiac bio markers in risk stratification of patients with Acute Coronary Syndrome (ACS) in the Emergency Department

Departmental projects

Ongoing

1. Utility of urinary toxicology screen in patients with undifferentiated altered level of consciousness presenting to the Emergency Department
2. Accuracy of urinary Multistix 10 SG leukocyte esterase reagent strip test in making the diagnosis of spontaneous bacterial peritonitis
3. Serum lactate and shock index as clinical metrics in predicting adverse outcomes in patient with STEMI
4. To study the risk of major adverse cardiac events within 30 days of emergency department presentation in patients with acute onset chest pain categorized as low risk group based on HEART pathway
5. Profile of acute poisoning cases in ED
6. USG guided Ryles tube insertion and confirmation
7. Role of point of care ultrasound in patients with cardiac arrest in Emergency Department
8. To study the presentation and outcome of patients visiting emergency department with complications related to cirrhosis in ED
9. Altered sensorium in Emergency Department of AIIMS: Causes, Management and Outcomes
10. To determine the improvement in outcome and management of acute exacerbation of Chronic Obstructive Pulmonary Disease (COPD) in Emergency Department by implementation of COPD bundle
11. To study the clinical profile and pattern of complications related to chronic kidney disease among patients visiting Emergency Department
12. To determine the optic nerve sheath diameter by ultrasound in pediatric patients with increased intracranial pressure compared with Control Group
13. Role of triple rule out dual energy CT in patients presenting with acute chest pain in emergency setting

14. Reducing door to reperfusion time in ST elevation myocardial infarction patient: Quality improvement study in the Department of Emergency Medicine, AIIMS, New Delhi
15. Comparison of three scoring systems (AIMS 65, pre-endoscopic Rockall, Glasgow Blatchford) to predict 1 week outcome in patients presenting to Emergency Department with acute upper gastrointestinal bleeding
16. Water-bath ultrasound technique in the evaluation of distal hand and foot injuries in the Emergency Department
17. Clinical profile of patients with rheumatic heart disease presenting to Emergency Department

Completed

1. Characteristics of unscheduled Emergency Department revisits within 72 hours of discharge
2. Perception of workplace violence in the Emergency Department Collaborative Projects

PUBLICATIONS

Journals: 5

PATIENT CARE

Patient attendance in 2017-18: 1,51,871.

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor Praveen Aggarwal continues to be the Chief co-Editor of the Journal of Emergencies, Trauma and Shock, an international journal indexed in PubMed. He also continues to be a member of Signal Review Panel of the Central Drugs Standard Control Organization and the Indian Pharmacopoeia Commission for the Pharmacovigilance Programme of India, Member of Scientific Body, Indian Pharmacopoeia Commission, Ministry of Health and Family Welfare, Government of India and the Dean of the Academic College of Emergency Experts in India. He is also continuing to be a member of Panel of Experts constituted by the Ministry of Health and Family Welfare (Emergency Medical Relief Division) to develop curriculum for advanced National Emergency Life Support Course for Doctors. He is also a faculty for this course. In order to reduce overcrowding and better availability of admission beds, he in collaboration with other departments as well as the hospital administration. He has prepared a detailed proposal for a separate Emergency Block which is under active consideration in the Ministry of Finance.

Dr Jamshed Nayer was involved in improvement of Triage and Screening Area of the department. He is actively involved in training residents using high-fidelity simulator. He is In-Charge of Post-Graduate Teaching Schedule which includes weekly seminars, journal club, Tintinalli's textbook-based topical discussion, evidence based medicine and clinical case discussions. He got 2nd Prize for delivering lecture on "Disposable Ventilator—A dream or reality" in 7th International CME, Workshop and Conference on Cost-Effective use of Technology in e-Healthcare at AIIMS, New Delhi. He is involved in developing guidelines for Emergency Ambulance Services for Ministry of Health and Family Welfare.

Dr Meera Ekka has become a life-member of Emergency Medicine Association of India. She completed a three months coaching programme for mentorship in Quality Improvement in Health Care which was sponsored by Institute for Healthcare Improvement.

Dr Akshay Kumar was awarded the Fellowship of Academic College of Emergency Experts (FACEE) after passing 12 monthly exams and the final examination. He has been actively pursuing training of residents and undergraduates in emergency care and has developed Emergency Life Support Courses for nurses and residents. He is also involved in quality improvement projects of the department which are helping in improving the care given to patients.

Dr Prakash Ranjan Mishra started an AIIMS Emergency ECG Course for the post-graduates which trains them in interpreting ECGs in emergency settings. He is also involved in quality improvement projects.

Dr Ritin Mohindra was involved with planning and implementation of quality improvement programmes. He is actively involved in coordinating with other hospitals for smooth care after transfer from Department of Emergency Medicine.

9.11. Endocrinology and Metabolism

Professor and Head

Nikhil Tandon

Professors

Nandita Gupta
Rajesh Khadgawat

Ravinder Goswami
Viveka P. Jyotsna

Associate Professor

Mohd Ashraf Ganie
(rejoined on 1 January 2018)

Assistant Professors

Yashdeep Gupta

Nishant Raizada
(up to 4 October 2017)

HIGHLIGHTS

The department is engaged in many academic activities such as Endocrine-Pathology Conference every alternate week, Endocrinology-Surgery-Nuclear Medicine (Wednesday) and Endocrinology-Radio Diagnosis (Friday) meet every week. There are Seminar (Wednesday), Journal Club (Friday) and Clinical class (Thursday) every week. During these academic events the topics of clinical importance and recent high impact articles are discussed. The department runs daily outpatient facilities, has state of the art laboratory services for hormone assays, metabolic studies and bone density measurement.

EDUCATION

Undergraduate, Postgraduate, Paramedical Training

The department was actively involved in teaching undergraduate medical students and nursing students. Postgraduate students (MD) from internal medicine and geriatric medicine come for one and two month postings to the department.

Long and Short Term Training

- Two candidates joined the DM course (One general, One sponsored).
- Three candidates permitted for short term training.
- One candidate joined the PhD course (General).

CMEs/Workshops/Symposia/National and International Conferences

Lectures delivered

Nikhil Tandon

1. Youth onset Type 2 diabetes in India, 3rd Endocrine Conclave: Dilemma in Diabetes, 14 April 2017, New Delhi
2. Epidemiology of diabetes in India, Liver Disease and Diabetes—India-French Perspectives, 26 April 2017, Institute of Liver and Biliary Sciences, New Delhi
3. CV safety and liraglutide: Scripting new avenues with LEADERS, Diabetes Update, 4 June 2017, New Delhi
4. Pharmacological treatment options, Osteoporosis Essential Course 2017, 10-11 June 2017, ISBMR, Mumbai
5. Principles of DXA scan reporting, Osteoporosis Essential Course 2017, 10-11 June 2017, ISBMR, Mumbai
6. Clinical Management—Non pharmacological clinical management, Osteoporosis Essential Course 2017, 10-11 June 2017, ISBMR, Mumbai
7. Life style issues, Public Administration and Course Coordinator Phase-IV 2017, 21 June 2017, Lal Bahadur Shastri National Academy of Administration, Mussoorie
8. Improving quality of diabetes care: The role of technology and task shifting, Vivekananda Oration in 6th Annual Conference, Integrated Diabetes and Endocrine Academy (IDEACON 2017), 8 July 2017, Kolkata
9. Epidemiology of diabetes in urban Indian settings: Lesions from the CARRS Surveillance Study, Dr Mohan's International Diabetes Update 2017, 30 July 2017, Chennai
10. Innovations and technology in NCD care, National Health Conclave 2017, 10-11 August 2017, National Board of Examination, New Delhi

11. Lifetime Achievement Award: Technology and Task Shifting Improving Quality of Diabetes Care, 18th Annual Conference of the South Asian Health Foundation, 13 October 2017, National Conference Centre, Birmingham, UK
12. Indian young diabetes registry, 45th Annual Meeting of RSSDI-2017, 3 November 2017, RSSDI, Bhubaneswar
13. CARRS translational trial, First World NCD Congress, 4 November 2017, PGI, Chandigarh
14. Nutrition and frailty—A regional perspective, 13th National Conference of Indian Society for Bone and Mineral Research (ISBMR), 11 November 2017, PGIMER, Chandigarh
15. Obesity in India: Trends and necessity for systemic solution to obesity and under nutrition, Lancet Commission on Obesity, 13 November 2017, India Habitat Centre, New Delhi
16. Prevalence and correlates of severe hypoglycaemia among patients with youth onset diabetes in India, World Diabetes Congress-2017 of the International Diabetes Federation's World Diabetes Congress, 4-8 December 2017, Abu Dhabi, UAE
17. Youth onset Type 2 diabetes and elevated cardiovascular disease risk: A registry based case-control study from India, World Diabetes Congress-2017 of the International Diabetes Federation's World Diabetes Congress, 4-8 December 2017, Abu Dhabi, UAE
18. Gestational diabetes mellitus: The post-delivery years, Padmashree Binode Kanungo Gold Medal Oration during 4th National Update on Clinical Diabetes 2018 (NUCD 2018), 6 January 2018, Kanungo Institute of Diabetes Specialities (KIDS), Bhubaneswar
19. Glycemic status of Indian women with previous GDM, 8th World Congress of Diabetes DIABETESINDIA 2018, 4 February 2018, Biswa Bangla Convention Centre, Kolkata
20. Diabetes in Delhi: Perspectives from CARRS study and New Delhi birth cohort, SPEEDCON, 11 February 2018, Gurgaon
21. Doctor's dilemma: Clinician investigator or practicing clinician, Sun Pharma Science Foundation Annual Conference on Training Pathways for Physician and Scientists, 12 February 2018, India Habitat Centre, New Delhi
22. Diet and diabetes, Public Nutrition Research Methods and Policy Course, 21 February 2018, Gurgaon
23. Ensuring quality care for NCDs, AIIMS-PGI SEAR Course on NCDs, 21 March 2018, United Services Institute, New Delhi

Dr Ravinder Goswami

1. Hypoparathyroidism: Recent advances in India, Annual Conference of the Endocrine Society of India ESICON 2017, 12-14 October 2017, Thiruvananthapuram
2. Vitamin D deficiency a myth or reality, GPSCON-2017, 5 November 2017, Hamdard Convention Centre, New Delhi
3. Hypoarathyroidism and management of hypocalcemic disorders, 1st CME on Recent Advances in Endocrine Disorders, 28 January 2018, UP Chapter of Endocrine Society, Varanashi
4. Diseases of national importance: Vitamin D deficiency in India, A myth or reality, Center for Integrated Program of MSc-PhD in Molecular Medicine, 8 March 2018, Jawaharlal Nehru University, New Delhi
5. Hypoparathyroidism in India, Conference on "Clinical Endocrinology", 10-11 March 2018, Indraprastha Apollo Hospital, New Delhi

Dr Rajesh Khadgawat

1. Insulin Symposium, Annual Meeting of North Eastern Diabetes Society (NEDS), 1-2 April 2017, Manas National Park, Manas, Assam
2. Vitamin D and insulin resistance, Challenges in Diabetes 2017 (CID-2017), 15-16 April 2017, Mumbai
3. Management of Type 2 diabetes, Brainstorming Workshop on Formulating R&D Strategy for Endocrine Disorders, 18 April 2017, MS Regional Ayurveda Research Institute for Endocrine Disorders, Jaipur
4. Hyperprolactinemia: Current concepts in management, First Diabetes, Thyroid and Endocrine Conference, 29-30 July 2017, Jaipur
5. Congenital adrenal hyperplasia: Management, First Diabetes, Thyroid and Endocrine Conference, 29-30 July 2017, Jaipur
6. Use of growth charts in evaluation of short stature, 3rd Annual Conference of Assam Endocrine Society (AESCON 2017), 9-10 September 2017, Convention Centre, Guwahati
7. SGLT-2 inhibitors: Cardiovascular safety, 12th Annual Conference of Indian Society of Cardiology (ISCCON 2017), 22-24 September 2017, Jodhpur
8. Type 1 diabetes: Office management, Annual Rajasthan State Conference of Indian Academy of Pediatrics (RAJPEDICON 2017), 6-8 October 2017, Dr S N Medical College, Jodhpur

9. Pubertal issues in Turner Syndrome, Annual Conference of Endocrine Society of India (ESICON-2017), 12-14 October 2017, Thiruvananthapuram
10. Vitamin D supplementation and insulin resistance, Annual Conference of Research Society for Study of Diabetes in India (RSSDI), 3-5 November 2017, Convention Centre, Bhubaneswar
11. Vitamin D supplementation during pregnancy: Indian scenario, Indian Society of Bone and Mineral Research (ISBMR), 11-12 November 2017, PGI, Chandigarh
12. Osteoporosis in children: Management issues, Indian Society of Pediatric and Adolescent Endocrinology (ISPAE), 24-26 November 2017, Convention Centre, Coimbatore
13. Management of short stature, Endocrine Enrichment Programme 2018 for DM/DNB Trainees, 19-20 January 2018, IPGMER and SSKM Hospital, Kolkata
14. Management of Type 2 diabetes: Results of herbal drugs studies, National Conclave Vanoushadhi-2018, 3-4 February 2018, Chhattisgarh State Medicinal Plants Board, Raipur
15. Management of secondary hyperparathyroidism in patients with CKD, 16th Biennial Congress of Asian Association of Endocrine Surgeon, 8-10 March 2018, New Delhi
16. Metabolic bone diseases, 2nd National Symposium on Metabolism and Molecular Medicine in General Practice, 9-11 March 2018, Jaipur
17. Diabetes and chronic inflammation, New Insights in Diabetes CME, RSSDI Bihar Chapter, 24-25 March 2018, Convention Centre, Patna

Viveka P. Jyotsna

1. Role of audiovisual display in diabetes foot education, 45th Annual Meeting of the Research Society Study of Diabetes in India, 4 November 2017, Siksha O Anusandhan University, Bhubaneswar
2. PCOS and Yoga, 13th Annual Conference of Indian Fertility Society, 8 December 2017, Aerocity, New Delhi

Mohd. Ashraf Ganie

1. Convener of J&K Medical Science Congress, DST Government of J&K, 10-13 May 2017, SKICC, Srinagar
2. Organising Secretary of 1st Annual M-P-PCOS Society Conference, M P PCOS SOCIETY, 11-12 May 2017, SKIMS, Srinagar
3. Mentor of the 7th Conclave of Ramalingaswami Fellows, DBT GOI and Institute of Bioresources and Sustainable Development, 28-31 August 2017, Institute of Bioresources and Sustainable Development, Manipur
4. Management of PCOS, 47th Annual Conference of ESICON 2017, 13-15 October 2017, Kerala
5. Status of Vitamin D deficiency in India and interventions to address them, DBT GOI Task Force "Brain Storming on Vitamin D", 11 January 2018, DBT, New Delhi
6. Free radicals in PCOS, International Conference on Translational Research in Free Radicals, Micronutrients Antioxidants and Functional Foods, 18-20 February 2018, AIIMS, New Delhi
7. Issues in women with metabolic and ovarian disorder, ISSRF 2018 World Congress, 22-24 February 2018, CSIR Indian Institute of Chemical Technology, Hyderabad

Yashdeep Gupta

1. Thyrotoxicosis and its management, 7th Annual National Conference of Northern Thyroid Society, 2017 (NTSCON 2017), 20 August 2017, The Grand Shiva Resort, Rishikesh
2. GDM: Postpartum follow up, Panaji ObGYn Society Annual Conference 2017, 8 October 2017, Panaji
3. Postpartum follow up of GDM women, 45th Annual Meeting of the RSSDI 2017, 3-5 November 2017, Siksha 'O' Anusandhan University (SOA), Bhubaneswar
4. GDM: India vs World, SPEEDCON 2018, 10-11 February 2018, Gurgaon

RESEARCH

Funded projects

Ongoing

1. National alliance program for biodesign and in-vitro diagnostics between translational health science and technology institute and All India Institute of Medical Science, Nikhil Tandon, DBT, 8 years, 2010-2018, Rs 49.45 lakhs
2. Registry of people with diabetes in India with young age at the onset phase II, Nikhil Tandon, ICMR, 7 years, 2012-2019, Rs 246.99 lakhs
3. Changing diabetes in children, Nikhil Tandon, Novo Nordisk India, 8 years, 2012-2020, Rs 21 lakhs
4. A trial comparing cardiovascular safety of insulin degludec versus glargine in subjects with Type 2 diabetes at high risk of cardiovascular events, Nikhil Tandon, Nova Nordisk India, 4 years, 2014-2018, Rs 7.69 lakhs

5. Integrated care for co-morbid diabetes and depression, Nikhil Tandon, National Institute of Mental Health, NIH, USA, 5 years, 2014-2019, Rs 88.22 lakhs
6. Development of Phase II clinical trial for an investigational new drug, Nikhil Tandon, Torrent Pharma, 5 years, 2014-2019, Rs 72.53 lakhs
7. CARRS translation trial: Implementing quality improvement strategies in diabetes, Nikhil Tandon, ICMR-Emory University, 5 years, 2014-2019, US\$17.55 lakhs
8. A lifestyle intervention program for the prevention of Type 2 diabetes mellitus among South Asian women with gestational diabetes mellitus, Nikhil Tandon, ICMR, 5 years, 2015-2020, Rs 72.77 lakhs
9. Harmonization of existing registries of diabetes in youth: A US-India collaborative research partnership, Nikhil Tandon, ICMR, 2 years, 2016-2018, Rs 84.13 lakhs
10. Prevention of blindness due to Diabetes Retinopathy (DR) among patients with Type 1 diabetes in India, Nikhil Tandon, PHFI, 2 years, 2016-2018, Rs 52.16 lakhs
11. Efficacy and safety of faster-acting insulin Aspart compared to NovoRapid both in combination with Insulin Degludec in adults with Type 1 diabetes, Nikhil Tandon, Nova Nordisk India, 2 years, 2016-2018, Rs 9.02 lakhs
12. Prevalence of Non-Alcoholic Fatty Liver Disease (NAFLD) and its association with cardio-metabolic disease risk factors in North India, Nikhil Tandon, ICMR, 3 years, 2017-2020, Rs 172.53 lakhs
13. Pioneer 6-cardiovascular outcomes: A trial investigating the cardiovascular safety of oral Semaglutide in subjects with Type 2 diabetes, Nikhil Tandon, Nova Nordisk India, 3 years, 2017-2020, Rs 21.57 lakhs
14. Integrated Tracking Referral and Algorithmic Management (I-TREC) System for hypertension and diabetes, Nikhil Tandon, NIH, USA, 5 years, 2017-2022, US\$ 649,748
15. To develop a strategy for postpartum follow up of woman with history of gestational diabetes mellitus by using the right test and frequency of testing and developing patient centric approach after incorporating their views, Nikhil Tandon, Lupin, 3 years, 2018-2021, Rs 40.41 lakhs
16. Effect of intervention for lifestyle modification on improvement in sleep quality, depression score and optimal breastfeeding duration in women with history of GDM: Sub study of LIVING, Nikhil Tandon, USV, 3 years, 2018-2021, Rs 53.42 lakhs
17. Functional significance of calcium sensing receptor autoantibodies in patients with idiopathic hypoparathyroidism, Ravinder Goswami, DBT, 3 years, 2016-2019, Rs 44 lakhs
18. Efficacy and safety of liraglutide in combination with metformin versus metformin monotherapy on glycemic control in children and adolescents with Type 2 diabetes: A 26 weeks double blind randomized, parallel group, placebo controlled multi-centre trial followed by a 26-week open label extension, Rajesh Khadgawat, Novo Nordisk, 5 years, 2014-2019, Rs 30 lakhs
19. A randomised, multinational, active-controlled (open-labelled), dose finding, (double-blinded), parallel group trial investigating efficacy and safety of once-weekly NNC0195-0092 treatment compared to daily growth hormone treatment in growth hormone treatment naïve pre-pubertal children with growth hormone deficiency, Rajesh Khadgawat, Novo Nordisk, 3 years, 2017-2020, Rs 30 lakhs
20. Development of a standardized formulation of trigonellafoenum-graecum seeds for preventing or delaying the development of Type-2 diabetes in subjects with pre-diabetes, Rajesh Khadgawat, ICMR, 5 years, 2017-2021, Rs 35 lakhs
21. A randomized placebo controlled prospective Phase II clinical study of an Ayurvedic coded drug 'AYUSH-D' on glycemic control in pre-diabetic subjects, Rajesh Khadgawat, Central Council for Research in Ayurvedic Sciences, Ministry of AYUSH, Government of India, 3 years, 2017-2020, Rs 35 lakhs
22. A randomized placebo controlled Phase 2 clinical study of an Ayurvedic coded drug 'AYUSH D' in the management of Type 2 diabetes mellitus as add on therapy to metformin, Rajesh Khadgawat, Central Council for Research in Ayurvedic Sciences, Ministry of AYUSH, Government of India, 3 years, 2017-2020, Rs 35 lakhs
23. A Phase II trial to assess the efficacy and safety of Pasireotides.c. alone or in combination with cabergoline in patients with Cushing's Disease, Viveka P. Jyotsna, Novartis, 6 years, 2015-2021, Rs 10 lakhs
24. A Phase III, multi-center, double-blind, randomized withdrawal study of LCI699 following a 24 week, single-arm, open-label dose titration and treatment period to evaluate the safety and efficacy of LCI699 for the treatment of patients with Cushing's Disease, Viveka P. Jyotsna, Novartis, 5 years, 2016-2021, Rs 29.53 lakhs
25. EX1250-4080 a trial comparing cardiovascular safety of insulin Degludec versus insulin Glargine in subjects with Type 2 diabetes at high risk of cardiovascular events. Multicenter trial SUSTAIN Trial, Mohd Ashraf Ganie, Novo Nordisk, 5 years, 2013-2018, Rs 40 lakhs
26. Health survey of tribal population in Kashmir Valley with special reference to magnitude and risk factors of non-communicable disease: A collaborative cross sectional study, Mohd Ashraf Ganie, DST, 3 years, 2014-2018, Rs 172.86 lakhs

27. Prevalence of Vitamin B12 deficiency among Indian women with Polycystic Ovary Syndrome (PCOS) and the impact of Vitamin B12 supplementation on the efficacy of conventional drugs in the management of the conventional drugs in the management of women with PCOS, Mohd Ashraf Ganie, DBT, 3 years, 2015-2018, Rs 99.69 lakhs
28. Impact of parental history of Type 2 diabetes mellitus and consanguinity on clinical, biochemical, hormonal and genetic variations in Indian women with Polycystic Ovary Syndrome (PCOS), Mohd Ashraf Ganie, DST, 3 years, 2015-2018, Rs 82.60 lakhs
29. A pilot multicentre open label parallel arm RCT evaluating whether yoga can delay initiation of insulin therapy in patients with Type 2 diabetes mellitus with suboptimal glycemic control on near maximal oral drugs and/or who may require insulin therapy in near future, Yashdeep Gupta, ICMR, 3 years, 2017-2020, Rs 75 lakhs
30. Effect of Yoga on psychological, cognitive and glycemic control in patients with T2DM and depression: Two arm parallel randomized controlled trial, Yashdeep Gupta, DST, 3 years, 2017-2020, Rs 36.54 lakhs
31. Assessment of cognitive, neuroanatomical and neurofunctional abnormalities in adults with Type 1 diabetes, Yashdeep Gupta, DST, 3 years, 2017-2020, Rs 34.81 lakhs
32. Efficacy and safety of oral semaglutide versus placebo in subjects with Type 2 diabetes mellitus treated with insulin. A 52-week, randomised, double-blind, placebo-controlled trial (PIONEER 8 - Insulin add-on) Global clinical trial, Yashdeep Gupta, Novo Nordisk, 3 years, 2017-2020, Rs 12 lakhs
34. The impact of Yoga on stress, metabolic parameters and cognition of Indian adolescents, Yashdeep Gupta, ICMR, 3 years, 2017-2020, Rs 22.34 lakhs
35. To evaluate the distribution of glucose tolerance and risk factors predisposing to abnormal glucose tolerance in spouse of high risk pregnant women (gestational diabetes mellitus/overweight/obese/pre-existing diabetes): A case-control study, Yashdeep Gupta, AIIMS, 2 years, 2016-2018, Rs 4 lakhs

Completed

1. Solan surveillance study, Nikhil Tandon, ICMR, 2 years, 2014-2017, Rs 48.92 lakhs
2. Mobile health technology for prevention of Type-2 Diabetes-m Diab, Nikhil Tandon, BIRAC, 2 years, 2015-2017, Rs 42 lakhs
3. ICMR-India diabetes INDIAB Study Phase-II Rest of India (Excluding North East), Nikhil Tandon, ICMR, 1 year, 2017-2018, Rs 49.58 lakhs
4. Vitamin D and calcium supplements for improvement in skeletal muscle strength in young Asian India males: RCT, Ravinder Goswami, ICMR, 2 years, 2015-2017, Rs 51.04 lakhs
5. Addressing concerns of iodine supplementation with regard to aggravation of autoimmune thyroiditis and thyroid dysfunction in Indian school children: Three decades following Universal Salt Iodization (USI), Rajesh Khadgawat, DRDO, Ministry of Defence, 3 years, 2014-2017, Rs 42 lakhs
6. Disorder of sexual differentiation, clinical, social and psychological implications, Viveka P. Jyotsna, ICMR, 3 years, 2014-2017, Rs 39.86 lakhs
7. To study the gene mutations in the patients with 46, XY DSD due to gonadal dysgenesis/agenesis, Viveka P. Jyotsna, DBT, 3 years, 2014-2017, Rs 15 lakhs
8. Role of inflammation in Indian women with Polycystic Ovary Syndrome (PCOS) and its modulation by dietary factors, DBT, 3 years, Mohd Ashraf Ganie, DBT, 3 years, 2013-2017, Rs 56.87 lakhs
9. Impact of genetic polymorphism of ACE NF, K β IL-6 and TNF α on ventricular function and effect of spironolactone therapy on ventricular function in women with Polycystic Ovary Syndrome (PCOS), Mohd Ashraf Ganie, DST, 3 years, 2014-2017, Rs 16 lakhs
10. Efficacy and safety of semaglutide versus dulaglutide as add on to metformin in subject with Type 2 diabetes (SUSTAIN 7), Yashdeep Gupta, Novo Nordisk, 2 years, 2016-17, Rs 3 lakhs
11. A 38 week trial comparing effect and safety of insulin degludec/insulin aspart vs insulin glargine plus insulin aspart in subjects with Type 2 diabetes treated with basal insulin with or without oral antidiabetic treatment in need of treatment intensification, Yashdeep Gupta, Novo Nordisk, 2 years, 2016-17, Rs 8 lakhs

Departmental projects

Ongoing

1. A study on distribution of glucose tolerance among women with history of gestational diabetes mellitus by IADPSG criteria/overt diabetes in pregnancy and their spouses
2. Vitamin D status of outdoor workers
3. TREC and KREC as marker of Thymic and bone-marrow T and B cell emigrant in idiopathic hypoparathyroidism
4. Molecular aspects in the pathogenesis of basal ganglia calcification in hypoparathyroidism

5. Characterization of neuroendocrine tumors with Ga68-DOTANOC PET/CT and F18- FDG PET/CT and compare results with histopathology
6. Assessing Indian vegetarian diets with respect to their “potential protective impact” on cardio-metabolic health of urban adults in Delhi
7. To study the effect of personality on diet quality and academic performance among adolescents: A comparison between boys and girls
8. Determinants of bone mass in Asian Indian newborns—Nutritional perspective
9. To study the effect of parental origin of X chromosome on clinical features and biochemical profile in patients with Turner Syndrome
10. Evaluation of eating disorders and dietary patterns and their association with metabolic parameters and glycemic control in adult patients with diabetes mellitus Type 2
11. Pre and post-operative Dysglycemia in cases of Pheochromocytoma/Paraganglioma—A tertiary care centre study in Northern India
12. To study the mutations in SRY, SOX9, SF1, DAX1, DHH, DMRT1 and WT1 genes in patients with 46, XY gonadal dysgenesis
13. Clinical, biochemical, hormonal and familial characteristics in particular reference to FTO, omentin gene polymorphism in women among PCOS with/without family history of T2DM
14. To compare the glycemic profiles of normoglycemic normal weight pregnant women with obese normoglycemic women with GDM during second trimester using CGMS
15. To study the prevalence, incidence and association of cognitive deficits, poor sleep, depression and breastfeeding duration with glycemic status in women with history of gestational diabetes mellitus: A prospective cohort study with age and sex matched control group

Completed

1. To study the distribution of glucose tolerance among women with previous history of gestational diabetes mellitus and their spouses
2. Bone health in patients with Cushing’s Syndrome
3. An open label 3 arm randomised control trial to evaluate the effect of different modalities of lifestyle intervention (videos educating on lifestyle modification, yoga and standard care) on HbA1C in individuals with Type 2 diabetes mellitus on half maximal dose of 2 or more oral anti-hyperglycemic drugs for at-least 3 months
4. Evaluation of eating disorders and dietary patterns and their association with metabolic parameters and glycemic control in adult patients with diabetes mellitus Type 2
5. To compare the glycemic profiles of normoglycemic normal weight pregnant women with obese normoglycemic women with GDM during second trimester using CGMS
6. Assessment of sleep disordered breathing, cognitive dysfunction and their correlates in acromegaly
7. Epidemiology of acute and chronic diabetes complications and cardiovascular disease risk factors among patients with youth onset Type 1 and Type 2 diabetes in India—A registry based study
8. Vertebral fractures and bone mineral density in patients with idiopathic hypoparathyroidism on long-term follow-up
9. Presence of autoreactive, MHC Class I-Restricted, Calcium-Sensing Receptor (CaSR)-Specific CD8+ T Cells in idiopathic hypoparathyroidism
10. Long-term outcome of cataract surgery in patients with idiopathic hypoparathyroidism and its relationship with their calcemic status
11. Prevalence of pulmonary tuberculosis in young adult patients with Type 1 diabetes mellitus in India
12. Identification of reference housekeeping-genes for mRNA expression studies in patients with Type 1 diabetes
13. Vitamin D-binding protein, Vitamin D status and serum bioavailable 25(OH)D of young Asian Indian males working in outdoor and indoor environments
14. Prevalence of celiac disease in idiopathic hypoparathyroidism and effect of gluten-free diet on calcaemic control
15. To study the prevalence of Vitamin D deficiency in pregnant women at first and third trimester during the routine care
16. Correlation between first trimester glucose screening and serum insulin levels with development of gestational diabetes mellitus in pregnancy
17. Prevalence of thyroid peroxidase antibody positivity in pregnant Asian-Indian subjects
18. To assess the prevalence of Vitamin D deficiency in patients with non-traumatic fracture of hip

19. To study the clinical, biochemical and radiological features of primary hyperparathyroidism: Impact of Vitamin D nutrition and histopathology
20. To Study Carotid Intima Media Thickness (CIMT) as a marker of atherosclerosis and its correlation to insulin resistance in children with obesity in the age group of 4-18 years
21. To study the correlation of serum Vitamin D level with insulin resistance and beta cell function in subjects with obesity in the age group of 6-18 years
22. Assessment of arterial stiffness in obese children and adolescents in the age group of 6-18 years
23. To study the impact of adiposity on serum androgen parameters in apparently healthy male subjects
24. To study determinants of insulin resistance in children and adolescents with obesity
25. Study of mitochondrial defects and VDR polymorphisms in Type 2 diabetes
26. A randomized double blind controlled trial to investigate the effects of Vitamin D supplementation on insulin resistance and beta cell function in obese Asian-Indian subjects, aged 11-17 years
27. To study the variability in content strength of commercially available cholecalciferol preparations in India
28. To study determinants of insulin resistance in children and adolescents with obesity
29. Phenotype and radiological correlation in children with growth hormone deficiency
30. To study the impact of adiposity on serum androgen parameters in apparently healthy male subjects
31. To study pituitary morphometry across different age groups
32. To study the determinants of insulin resistance in Asian Indian children with obesity aged 11-17 years
33. Effect of Vitamin D supplementation on pancreatic β cell functions in obese Indian subjects: A randomized controlled trial
34. To compare the efficacy of 90,000 and 1,80,000 IU oral single dose Vitamin D for treatment of rickets in 6 months to 5 years of age
35. A study of clinical, epidemiological and environmental risk factors associated with fragility hip fractures in elderly Asian Indians, Aged ≥ 60 years
36. Bone health in patients with Cushing's Syndrome
37. Effectiveness of a patient education module on diabetic foot care in outpatient setting in AIIMS
38. Clinical, biochemical and hormonal predictors of success of in-vitro fertilization in infertile women with Polycystic Ovary Syndrome (PCOS)
39. Metabolic abnormalities and sleep disorders in PCOS
40. Assessment of sleep disordered breathing, cognitive dysfunction and their correlates in acromegaly
41. Evaluation of impact of bariatric surgery on clinical, biochemical and hormonal parameters in women with Polycystic Ovary Syndrome (PCOS)
42. Evaluation of nonalcoholic fatty liver disease among young women with polycystic ovary syndrome and its correlation with insulin sensitivity and body fat distribution
43. To study the distribution of glucose tolerance among women with previous history of gestational diabetes mellitus and their spouses
44. Efficacy and safety of semaglutide versus dulaglutide as add-on to metformin in subject with Type 2 diabetes (SUSTAIN 7)
45. A 38 week trial comparing effect and safety of insulin degludec/insulin aspart vs insulin glargine plus insulin aspart in subjects with Type 2 diabetes treated with basal insulin with or without oral antidiabetic treatment in need of treatment intensification
46. Mobile health technology for prevention of Type-2 Diabetes-m Diab

Collaborative projects

Ongoing

1. Association of cardio-metabolic risk factors with non-alcoholic fatty liver disease a population based case control study, Department of Home Sciences, University of Delhi
2. Molecular basis of basal ganglia calcification in hypoparathyroidism, Anatomy and Forensic Medicine
3. To study relation between components of renin angiotensin aldosterone system and vascular functions following angiotensin converting enzyme inhibition in Type 2 diabetes patients with newly diagnosed hypertension, Physiology
4. Outcome implications of ADA/ACC guidelines based insulin protocol in the management of hyperglycemia in hospitalized patients at AIIMS, Medicine
5. Development and validation of questionnaire to assess knowledge, attitude and practice (KAP questionnaire) towards obesity among obese patients, Medicine

6. A study to assess the knowledge and risk of chronic kidney disease among hypertension and/or diabetes patients with a view to develop educational booklet at AIIMS, New Delhi, Nursing

Completed

1. Evaluation of systemic factors in the causation and recovery of ischaemic ocular mononeuropathies, Ophthalmology
2. On the estimation of cure rate along with identification of significant prognostic factors of cancer patients, Department of Statistics, Faculty of Mathematical Sciences, University of Delhi
3. Long term outcome of cataract surgery in patients with Idiopathic Hypoparathyroidism and its relationship with their calcemic status, RP Centre for Ophthalmic Sciences
4. Prevalence of Vitamin D deficiency and associated risk factors among children residing at high altitude in Shimla district, Himachal Pradesh, India, Gastroenterology and Human Nutrition Unit
5. A comprehensive analysis and functional characterization of naturally occurring non-synonymous variants of nuclear receptor PXR, School of Molecular Medicine, JNU
6. To study the gene mutations in the patients with 46, XY DSD due to Gonadal Dysgenesis/Agenesis, DBT
7. Disorder of sexual differentiation, clinical, social and psychological implications, ICMR
8. Assessment of autonomic and vascular functions after and before tumor removal in patients with Pheochromocytoma, Physiology
9. To determine the effect of Custom made footwear on the centre of pressure in the foot in patients with diabetes mellitus, Physical Medicine and Rehabilitation

PUBLICATIONS

Journals: 70

Chapters in Book: 1

PATIENT CARE

OPD attendance

Month	Old Patient	New Patient	DOY Clinic	Total
April, 2017	2936	951	189	4076
May, 2017	3327	1202	141	4670
June, 2017	2843	889	132	3864
July, 2017	3221	1088	180	4489
August, 2017	3312	1184	150	4646
September, 2017	3232	1166	134	4532
October, 2017	2902	928	141	3971
November, 2017	3239	1031	92	4362
December, 2017	3006	891	88	3985
January, 2018	3101	1170	149	4420
February, 2018	3074	1083	165	4322
March, 2018	3233	1042	196	4471
Total	37,426	12,625	1757	51,808

Laboratory Services

Hormones investigations

No	Hormone	Tube assays done	No	Hormone	Tube assays done
1	T4	12,771	13	VITAMIN D	6217
2	TSH	17,954	14	INSULIN	3576
3	TPO	2077	15	C PEPTIDE	1441
4	LH	2276	16	GH	1272
5	FSH	2320	17	GAD	71

6	PRL	2780	18	F T4	3032
7	CORTISOL	4206	19	T3	2166
8	TESTOTERONE	2327	20	F T3	522
9	DHEA	784	21	IGF 1	1184
10	17 OHP	43	22	E2	563
11	ACTH	1324	23	ALDOSTERONE	45
12	PTH	4314	24	RENIN	45
TOTAL					73,310

A new HPLC-MS/MS (Tandem Mass Spectrometry) system has been purchased and installed in the Immunoassay Service Laboratory.

HPLC - MS/MS is accepted as the gold standard method of choice to measure steroid hormones including 25 (OH) Vitamin D and currently the method protocols are in the process of being developed and validated on this system.

Participation of the Immunoassay—LCMS/MS Service Laboratory in the external quality assessment scheme of the U.K National Health Service—NEQAS (National External Quality Assessment Scheme) and DEQAS (Vitamin D External Quality Assessment Scheme) has successfully completed 10 years without a break and registration in the Quality Assessment Scheme continues for all hormones assayed in this laboratory.

Biochemical investigations

No	Investigation	Number of samples
1	Blood glucose	18,110
2	Glycated hemoglobin (HbA1c)	17,103
3	Urine pH	335
4	Osmolality (urine and serum)	2100
5	Lipid Profile	10,109
	Total tests	47,757

Specialty Clinics

- Diabetes of young on Saturdays
- Paediatric and Adolescent Endocrine Clinic on Monday afternoons
- Gestational Diabetes Mellitus (GDM) Clinic on Friday mornings
- Community services/camps

The department regularly hold camps especially awareness and screening programs on obesity, PCOS, diabetes, and thyroid disorders.

AWARDS, HONOURS AND SIGNIFICANCE EVENTS

Professor Nikhil Tandon participated as member, Standing Selection Committee Meeting at AIIMS Jodhpur held on 21 March 2018; Expert member at the Indian Institute of Public Health (IIPH), Hyderabad, First Diabetic Retinopathy Project Steering Committee Meeting held on 16 February 2018; Expert member of the ICMR workshop on revised ICMR Guidelines for Management of Type 2 Diabetes held on 10 January 2018 at Madras Diabetes Research Foundation (MDRF), Chennai; National leader in the Pioneer 6 Global Panel Meeting held at Miami, USA from 30-31 January 2018; Received WIDF Outstanding Investigator Award and delivered the WIDF Award Oration at Hotel Grand Hyatt, Mumbai during 17th International Symposium on Diabetes held on 13 January 2018; Expert member in the Meeting of ICMR Center for Advance Research on Diabetes at Madras Diabetes Research Foundation (MDRF), Chennai held on 6 February 2018; Faculty in the World NCD Congress held at PGIMER, Chandigarh on 4 November 2017; Elected member for 3 years of the Global Health Trials Committee and its meeting held at The Wellcome Trust, Gibbs Building, 215 Euston Road, London, NW1 2BE, London, UK attended on 20-21 November 2017; Received Lifetime Achievement Award at The National Conference Centre, Birmingham, UK during 18th Annual Conference of the South Asian Health Foundation on 12-13 October 2017; Member (i) NASI Young Scientist Platinum Jubilee Award Committee (ii) NASI-Senior Scientist Committee Meeting (iii) NASI Fellowship Scrutiny Committee and (iv) NASI Lectures Award Committee held on 28-29 July 2017 at NASI, Allahabad; Chair the 'DMDEA Gold Medal Oration' during the Dr Mohan's International

Diabetes Update 2017 at Chennai held on Sunday, 30 July 2017; External expert to assist the Standing Selection Committee of AIIMS, Rishikesh for selection of faculty in the Department of Endocrinology and Metabolism held on 30 April 2017; External examiner for the practical examination of DM (Endocrinology) held from 19-20 May 2017 at SGPGI, Lucknow; WHO meeting participated as member of the guidelines development group in WHO meeting on the classification of diabetes mellitus and the definition and diagnosis of intermediate hyperglycaemia held from 31 May-2 June 2017 at Geneva, Switzerland; Member of the Indo-US Diabetes Research Joint Steering Committee meeting held from 10-12 April 2017 at NIH Campus in Bethesda, Maryland, USA; Appointed as a Co-Supervisor for a PhD student, Ms. Bhanvi Grover by the University of Delhi vide their letter Ref. No.: FOS-I/114/Ph.D/7066 dated 13 November 2017; Participated in the inaugural NHLBI T4 Translation Research Capacity Building Initiative in Low Income Countries (TREIN) and Hypertension Outcomes for T4 Research within Lower Middle-Income Countries (Hy-TREC) Annual Meeting as a Principal Investigator of the new project I-TREC held from 17-19 January 2018 at NIH Campus in Bethesda, Maryland, USA; Member, Oversight Committee to oversee the functioning of Medical Council of India (MCI), New Delhi as per Orders of Supreme Court of India passed on 18 July 2017; Vice President, National Board of Examination (NBE), New Delhi; Member, Institute Body (IB), Governing Body (GB), Standing Finance Committee (SFC) and Standing Selection Committee (SSC) of AIIMS, Jodhpur, Rajasthan.

Professor Nandita Gupta elected as a fellow of the National Academy of Medical Sciences in 2016.

Professor Ravinder Goswami: Expert for the Standing Selection Committee of the All India Institute of Medical Sciences, Jodhpur for the Department of Endocrinology and Metabolism, March 2018; Nomination of subject expert for selection of faculties in the Department of Endocrinology, AIIMS, Bhubaneswar on 28 July 2017; Expert for the PhD viva at PGI Chandigarh, for the Department of Endocrinology and Metabolism, July 2017; Expert for the PhD viva at PGI Chandigarh, for the Department of Experimental Medicine and Biotechnology, February 2018; Member Project Review Committee for Medical Projects, CSIR since 2015 till date; Invited to write a chapter for the 11th Edition of The API Textbook of Medicine on Investigation of Metabolic bone diseases; Member Advisory Board Advanced Instrumentation Research Facility of JNU, New Delhi, 2017-2018; Member Expert Committee Meeting of Twinning R&D Program for NER (Medical Biotechnology) DBT going to be held on 11-12 December 2017; Invited to serve as the associate editor for the Indian Journal of Endocrinology and Metabolism for three year term beginning January 2018; Expert for the evaluation of the MD-MS Thesis Grant, Phase 11 and 12. DBT, 9 October 2017; Member Dean's Research Committee (DRC) AIIMS, New Delhi for three years; Member Core Committee of the Central Core Research Facility (CCRF) 2018.

Professor Rajesh Khadgawat participated in Medical Camps—Kargil, 2-9 June 2017, Ladakh, and Leh, Ladakh, 1-6 October 2017 on deputation from the institute; Subject expert for the Interview for Endocrinology—Rajasthan Public Service Commission, UPSC, Institute of Liver and Biliary Sciences (ILBS); Member, Scientific Council of Zandu Foundation of Health Research, Kolkata; Expert, National Anti Doping Agency (NADA), Ministry of Youth Affairs and Sports, Government of India; DM examiner for NRS Medical College, Kolkata, Srimanata Sankaradeva University of Health Sciences, Guwahati, West Bengal University of Health Sciences, Sher-i-Kashmir Institute of Medical Sciences, Srinagar, J&K; Member, SAE-Death Committee, DCGI; Member, Subject Expert Committee (Endocrinology), DCGI New Delhi; Subject expert, Medical Council of India.

Dr Mohd Ashraf Ganie: Mentor of the 8th Ramalingaswami Conclave, DBT and NIPGR, 15-17 February 2018, New Delhi; National Coordinator/PI for ICMR TASK FORCE study on PCOS; Member of Project Review Committee for ICMR, New Delhi; Expert for the PhD viva at University of Kashmir; Examiner for DM (Endocrinology) practical examination at SKIMS Srinagar; Member of Project Review Committee for DBT, New Delhi; President Metabolic Syndrome—Pre-diabetes-PCOS Society of India; Editor Diabetes Obesity International Journal; Member, Subject Expert Committee (Endocrinology), DCGI New Delhi; Organized 1st Annual Conference of M P PCOS Society Conference from 11-13 May 2017 at SKICC Srinagar; Award of Excellence in Research at 5 December SKIMS Foundation Day, 2017; Best Paper Award on Comparative Efficacy of Metformin vs Pioglitazone with or without high dose Vitamin D3 supplementation on clinical, biochemical and hormonal parameters among women with Polycystic Ovary Syndrome (PCOS): A six month randomized, open label trial in 8th Annual Emirates and Endocrine Congress, 2018 held at Dubai Trade Centre from 1-3 March 2018.

VISITING SCIENTIST

Dr Pankaj Shah, Mayo Clinic Rochester, USA

Dr E. Michael Lewiecki, University of New Mexico School of Medicine, USA

9.12. Forensic Medicine and Toxicology

Professor and Head

Sudhir Gupta

Professors

D.N. Bhardwaj
Sanjeev Lalwani (JPNATC)

O P Murty

Millo Tabin
Adarsh Kumar (JPNATC)

Associate Professor

Chittaranjan Behera

Assistant Professor

Kulbhushan Prasad

Abhishek Yadav

Scientist-C

Nidhi Sharma

Chemist

A.K Jaiswal

HIGHLIGHTS

The department of Forensic Medicine and Toxicology is apex referral center for complicated medico legal problems in India. The department is providing expert opinions in referred cases from CBI, NIA, NHRC, Courts and Crime Branch of different states. It is involved in medico-legal autopsy, embalming of MLC deaths, clinical forensic medicine services, teaching, training, research, expert opinion in referred medico-legal cases and court related works. The department is running three laboratory services-Toxicology, DNA Fingerprinting and Histopathology and two support services in form of Forensic Radiology and Forensic Anthropology. Toxicology laboratory services are provided for research and diagnosis. The Histopathology Laboratory Unit is providing histopathology services for academic and the medico legal autopsy conducted at AIIMS and referred cases from outside. Forensic radiology unit is used for medico legal and academic purposes. Forensic anthropology division is functional. The automatic biochemical analyzer is working and used for academic purpose. For development of odorless mortuary, tendering process is already done. A total of 6 departmental research projects are continuing and 5 have been completed. Three collaborative projects were completed and 2 are continuing. One ICMR funded extramural project and one intramural funded project is undergoing. Forty-four research papers were published in various scientific journals. A total of 2637 medico legal autopsies were conducted by doctors of the department and attended 539 summons from courts including both at main as well as trauma center.

EDUCATION

The department is actively engaged in undergraduate and postgraduate teaching. There are 8 postgraduate (MD) students and 3 PhD students enrolled in the department. The department is also imparting training in DNA—Fingerprinting and Medical Toxicology to BSc, MSc and MD students of other universities from all over India. Seven students from different universities were trained for short term training.

Lectures delivered

Adarsh Kumar

1. Copyright Act and Plagiarism in medical writing, First National Conference and 6th Academic Event by IJHRMLP, 7-8 July 2017, International Journal of Health Research and Medicolegal Practice, Guwahati, Assam
2. Management of dead in disaster—Need for collaboration between Forensic Medicine and Forensic Science, Resource Person—National Symposium on Emerging Trends in Forensic Science SAMVACHYVA-2017, 6 November 2017, Shri Vaishnav Institute of Forensic Science, Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore, MP
3. Role of medico legal experts in human identification, Invited talk—Individual Identification Techniques, 28 November 2017, National Institute of Criminology and Forensic Sciences, Rohini, New Delhi
4. Legal aspects to be dealt by Medical Officers, CME Speaker for CHS Medical Officers, 29 November 2017, National Institute of Health and Family Welfare, Munrika, New Delhi
5. Quantitative estimation of aluminium in fatal AIP poisoning cases using ICP-AES, Joint Conference of Society of Forensic Toxicology (SOFT) and The International Association of Forensic Toxicology (TIAFT), 6-11 January 2018, Boca Raton, Florida, USA

6. Disaster victim identification, Resource Person in National Symposium and Workshop on Biometrics and Bone Identification, 27 January 2018, Department of Anthropology, Lucknow University, Lucknow, UP
7. Placement of forensic radiology services—Need of hour in India, 39th Annual National Conference of Indian Academy of Forensic Medicine “FORENSIC MEDICON-2018”, 1-3 February 2018, JIPMER, Puducherry
8. Global perspective of forensic toxicology vis-à-vis Indian scenario, National Workshop and Conference DIAGNOCON-2018 on Contemporary Developments in Laboratory Medicine and Laboratory Management, 23-25 February 2018, Kasturba Medical College, Manipal, Karnataka

Chittaranjan Behera

1. Suicide research in forensic medicine, 39th Annual National Conference of Indian Academy of Forensic Medicine (Forensic Medicon-2018), 1-3 February 2018, Department of Forensic Medicine and Toxicology, JIPMER, Puducherry
2. Traumatic life events, suicide and forensic implications, 1st National Conclave on “Psychological Trauma, Child Protection and Mental Illness”, 27-28 March 2018, Department of Psychiatry, AIIMS, New Delhi

Abhishek Yadav

1. Understanding medico legal component of forensic science, Induction Training of the Newly Inducted Official of ‘National Investigating Agency (NIA)’ of the Rank of Sub-Inspectors to Additional SP—For Two Batches, 19 May 2017 and 25 May 2017, Department of Forensic Medicine, AIIMS, New Delhi
2. Forensic medicine, Induction Training of the Newly Inducted Official of ‘National Investigating Agency (NIA)’ of the Rank of Sub-Inspectors to Additional SP, 26 May 2017, Department of Forensic Medicine, AIIMS, New Delhi
3. Panelist speaker in panel discussion on Approaching a Medico Legal Case, Student Leadership Mission, Medical Education Unit, 11 May 2017, Lady Harding Medical College, New Delhi
4. Invited lectures on forensic evidence in civil and criminal trials, Training Programme for Bangladesh Judicial Officers, 7 January 2018 and 18 March 2018, National Judicial Academy, Bhopal, MP
5. Postmortem examination, 5th Induction Course in Forensic Science of Judicial Officers and Prosecutors Nominated from All over the Country, 20 November 2017, Department of Forensic Medicine, AIIMS, New Delhi

A.K. Jaiswal

1. Basics of liquid chromatography, Workshop on LC-MS for Analysis of Drugs and Explosives, 9 August 2017, LNJNI, NICFS, Rohini, New Delhi

Oral papers/posters presented

1. Millo T. Alcohol and crime, 39th Annual National Conference of Indian Academy of Forensic Medicine (IAFM), 2 February 2018, JIPMER, Puducherry
2. Millo T. Extraction and identification of paracetamol in biological material such as tissue, blood and urine using TLC, HPTLC 2017, 4-8 July 2017, Berlin, Germany
3. Millo T. Molecular forensic: Revolutionized law enforcement, IAMLE-2017, 29 September-1 October 2017, Agra, UP
4. Behera C, Nayak B, Satapathy S, Dwivedi SN. Human cytokine levels in serum and cerebrospinal fluid of suicidal and non-suicidal deaths, IASR/AFSP International Summit on Suicide Research, 5-8 November 2018, Henderson, Nevada, USA
5. Yadav A. Modernization of mortuaries including employee welfare measures, 39th Annual National Conference of Indian Academy of Forensic Medicine (IAFM), 2 February 2018, JIPMER, Puducherry
6. Yadav A, Tellewar S, Debbarma A, Tyagi S, Dey A. Death in a Car: Alcohol, sexual lust-crime or mishap of modern society? 39th Annual National Conference of Indian Academy of Forensic Medicine (IAFM), 2 February 2018, JIPMER, Puducherry
7. Jaiswal AK, Giri N, Yadav S, Mahto H, Gupa SK. Extraction, isolation and detection of ethambutol in blood using HPTLC plate, International Symposium HPTLC 2017, 4-8 July 2017, Berlin, Germany
8. Jaiswal AK, Surender, Singh P, Mishra SK, T Millo. Development of UV-Visible spectrophotometric method for qualitative and quantitative assay of paracetamol in powder and pharmaceutical formulation, National Conferences on Future Perspectives of Forensic Science in India, 9-10 March 2017, Dr APJ Abdul Kalam Institute of Forensic Science and Criminology, Bundelkhand University, Jhansi, UP
9. Choudhary P, Priya A, Jaiswal AK, Kumar A. Extraction and identification of amitriptyline, Nortriptyline and imipramine in biological samples by planar chromatography using different solvent systems, 8th International

Conference of Indian Association of Medicolegal Experts-IAMLE-2017, 29-30 September and 1 October 2017, Agra, UP

10. Yadav A, Srivastava A, Kumar A, Jaiswal AK, Sarin RK, Sharma M. Determination of Aluminium and Zinc in autopsy samples by iCP-AES: Method validation, 8th International Conference of Indian Association of Medicolegal Experts-IAMLE-2017, 29-30 September and 1 October 2017, Agra, UP
11. Yadav A, Kumar A, Yadav J, Kumar R, Jaiswal AK. Problems in toxicological analysis in phosphide poisoning cases, 2nd Annual National Conference of Medicolegal Experts Association of Madhya Pradesh, 13-14 January 2018, LN Medical College and JK Hospital, Bhopal, MP
12. Yadav A, Kumar A, Kumar R, Sharma M, Tripathi RM. Quantitative estimation of zinc in fatal zinc phosphide poisoning cases using Inductively Coupled Plasma-Atomic Emission Spectrophotometry (ICP-AES), 24th All India Forensic Science Conference, 10-12 February 2018, Gujrat University, Ahmedabad, Gujrat
13. Extraction and identification of amitriptyline, nortriptyline and imipramine in biological samples by planar chromatography using different solvent systems "8th International Conference of Indian Association of Medicolegal Experts-IAMLE-2017", 29-30 September and 1 October 2017 at Agra (**presented as poster was awarded FIRST Prize**)

RESEARCH

Funded projects

Ongoing

1. Bioinformatics identification and *in vitro* evaluation of single nucleotide polymorphisms associated with completed suicide in Indian population, Chittaranjan Behera, ICMR, 3 years, 2017-2020, Rs 69.11 lakhs
2. Association of inflammatory cytokines with suicidal deaths: A hospital based comparative cross-sectional study, Chittaranjan Behera, AIIMS, 2 years, 2016-2018, Rs 1 lakh

Departmental projects

Ongoing

1. Estimation of endogenous production of alcohol in human body by different microbes after death and its relevance to medico-legal issues
2. Toxicological analysis and distribution pattern of different drugs in various biological samples and their neurobiological effects in suicidal deaths
3. Study of cardiac markers, gross findings and histopathological changes in heart in cases of suspected cardiac deaths
4. Age estimation between age 1-18 years by radiological study of Epiphyseal Union around elbow and wrist joints
5. Screening of alcohol and drug of abuse in road traffic accident cases reported at mortuary AIIMS, New Delhi
6. Ligature and compressing material fiber detection, collection, identification and comparison in asphyxia deaths

Completed

1. Study of alleged medical negligence cases and the issues thereof
2. Retrospective study of medico legal autopsy cases between 1 January 2009-31 December 2013 where viscera have been preserved, and their subsequent opinion thereof
3. Student suicide: A cross sectional descriptive study for South Delhi
4. Study of the variations in injuries on various muscles along with other associated external and internal injuries of the neck with positional variation of ligature mark in the cases of death due to hanging
5. Association of lipid profile in completed suicides: A hospital-based case control study

Collaborative projects

Ongoing

1. Immunohistochemical Analysis of Matrix Metalloproteinases (MMP-2 and 9), Tissue Inhibitors of Matrix Metalloproteinases (TIMP-1 and 2), Collagen I and Collagen IV in Ascending Thoracic Aortic Aneurysm, Pathology
2. Morphometric and morphoscopic study of ear and nose in Brahmin and Rajput population of Mandi, Himachal Pradesh—A forensic anthropological investigation, Department of Anthropology, Panjab University, Chandigarh
3. Fibrillin 1 gene mutation and the role of TGF beta in aortic aneurysms with cystic medial degeneration, Pathology

Completed

1. Study of the morphology of pyramidal cells and astrocytes in CA1 region of hippocampus in suicidal deaths, Anatomy
2. Epithelial-to-Mesenchymal Transitions (EMTs) in Ependymoma, Pathology

PUBLICATIONS

Journals: 39

Chapters in Book: 1

Book: 1

PATIENT CARE

1. **Casualty Services:** The department is providing round-the-clock medico-legal services like in cases of injury, sexual offences, poisoning, etc. to the South and South-East district of Delhi. A total of **1500** such calls were attended during this period
2. **Mortuary Services:** A total of **2637 (1821+816-JPNATC)** medicolegal autopsies were conducted at the mortuary
3. **Clinical Forensic Medicine: 582** cases of age estimation, potency and other medico-legal examination brought by investigating officer and referred from court were dealt by the department. A total of **33** cases from CBI were dealt by medical board of the department. A subsequent opinion in complicated cases including reference from casualty etc. was offered in 1015 cases
4. **Summons:** Doctors attended court of law in **539** cases from Delhi and other states
5. **Medical Toxicology: 2994** tests for **333** samples were performed for various poisons referred from the clinical department of AIIMS, medico-legal cases and in academic cases
6. **Biochemistry: 123** tests were conducted on the samples received for academic purpose (**31** cases)
7. **Forensic Pathology:** The department is providing histopathology services for samples of medico-legal autopsy cases from South and South-East district as well as research purpose. Total **46** cases and **306** samples were done during this period
8. **Embalming Facility:** The department is providing embalming facility for MLC cases (Postmortem cases). **255** cases of embalming were done during this period
9. **Organ Retrieval for Therapeutic Transplantation: 132** corneas were retrieved at mortuary for transplantation by National Eye Bank
10. **Forensic Radiology Services:** Forensic Radiology services were provided to **93** cases for various medico legal and academic purposes. (Both autopsy and live cases)
11. **Forensic Anthropology Services:** Age estimation for **20** cases referred from courts as well as sports authorities
12. **Community Services:** The department continues to participate in training program for CBI officials, police officers and public prosecutors from all over the country

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor Adarsh Kumar delivered ATS Iyengar Oration during Silver Jubilee—25th Annual Conference of Karnataka Medicolegal Society “KAMLS 25-2017” held on 1-3 December 2017 at Bengaluru; Elected as Governing Council Member of Indo-pacific Association of Law Medicine and Science (INPALMS) for 2016-2019 at Bali, Indonesia; Nominated as Board of Studies-External Expert Member (Forensic Medicine and Forensic Sciences) by Kasturba Medical College, Manipal Academy of Higher Education, Manipal, Karnataka for 2017-19; Member of Asia Pacific Medico Legal Association (APMLA) for two years 2016-2018; Nominated as Board of Studies-External Expert Member (Forensic Sciences) for 2017-19 by Amity University, NOIDA, UP; Medico Legal Expert to National Human Rights Commission; Medico Legal Expert to Central Bureau of Investigation; Member, Editorial board of various journals: International Editorial Board Member-HSOA Journal of Forensic, Legal and Investigative Sciences (USA), Egyptian Journal of Forensic Sciences-Egypt, Adli Tip Bulletin-Turkey, Associate Editor-Medicolegal Update, Journal of Research in Medical Education and Ethics, Web Editor-International Journal of Health Research and Medicolegal Practice, Member Editorial Board-Journal of Indian Society of Toxicology, Journal of Karnataka Medicolegal Society, Indian Journal of Community and Family Medicine, Indian Journal of Forensic Medicine and Toxicology, Journal of Forensic Chemistry and Toxicology.

Dr Chittaranjan Behera received ICMR international fellowship as a young Biomedical Scientist for the year 2017-2018 and got research training in Biomarkers Suicide at Translational Research, Department of Neurobiology and Psychiatry, UAB, Birmingham, USA; **Advanced Training:** Advanced training in DNA fingerprinting for 3 months at CFSL (CBI), New Delhi; **Editor/editorial board member:** Assistant editor of International Journal of Medical Toxicology and Legal Medicine, ARC Journal of Forensic Sciences, Annals of Forensic Research and Analysis, Sci Fed Journal of Forensic, Journal of Forensic Medicine.

Dr AK Jaiswal was Sectional President for Forensic, Medical, Dental and Nursing in 7th International Science Congress (ISC-2017) held on 8 and 9 December 2017 at College of Science and Technology, Rinchending, Phuentsholing, Chukka, Bhutan, organized by International Science Community Association; Editorial board member for Research Journal of Forensic Science; Editor in Chief- Forensic Chemistry and Toxicology.

Dr Abhishek Yadav was sponsored by International Committee of Red Cross (ICRC) to attend “Workshop on Management of Dead of Emergencies, Disaster and Catastrophes” in Pattaya, Thailand, 17-19 July 2017; Received certificate of appreciation for outstanding contribution to National Eye Bank by Dr RP Centre, AIIMS, on 32nd National Eye Donation Fortnight-2017, September 2017. Awarded Second Best Faculty Oral Presentation by her excellency Smt. Kiran Bedi, Governor of Puducherry, in Forensic Medicon 2018—39th Annual National Conference of Indian Academy of Forensic Medicine (IAFM), JIPMER, Puducherry, 1-3 February 2018.

9.13. Gastroenterology and Human Nutrition Unit

Professor and Head		
Anoop Saraya		
Professors		
Umesh Kapil Vineet Ahuja		Pramod Garg Govind K Makharia
Associate Professors		
Shalimar		Baibaswat Nayak
Assistant Professors		
Saurabh Kedia		Deepak Gunjan

HIGHLIGHTS

The department organized the 17th International Celiac Disease Symposium at Hotel Le-Meridien, New Delhi on 8-10 September 2017. During this conference, more than 600 delegates from India and abroad and 100 National and International Faculty participated; organized a CME on Current Perspectives in Liver Disease (CPLD-2017) at AIIMS, New Delhi on 7-8 October 2018; Organized public lecture to increase awareness of Viral Hepatitis in India on the eve of World Hepatitis Day at AIIMS on 28 July 2017; also organized on behalf of Indian Society of Gastroenterology ‘Gastroenterology Young Masters’ a teaching program for gastroenterology trainees at AIIMS, New Delhi on 10 February 2018; Organized on behalf of Indian Society of Gastroenterology a Program called Young Clinician Program in Hyderabad, September 2017.

EDUCATION

The department continued training program for courses on DM in Gastroenterology, and PhD in Gastroenterology and Human Nutrition. The department also participated in training of undergraduate and postgraduate students.

Long-term training: 20 DM students and 4 PhD candidates

Short-term training: 4 trainees were trained during 2017-2018.

CME/Workshops/Symposia organized by the department

1. 17th International Celiac Disease Symposium, 8-10 September 2017, New Delhi
2. Public lecture to increase awareness of Viral Hepatitis in India, 28 July 2017, AIIMS, New Delhi
3. CME on Current Perspective in Liver Disease (CPLD-2017), 7-8 October 2017, AIIMS, New Delhi
4. ‘Gastroenterology Young Masters’, 9-11 February 2018, AIIMS, New Delhi

Lectures delivered

Anoop Saraya

1. Spectrum of NAFLD in India, liver diseases and diabetes, Indo-French Perspectives, 26 April 2017, New Delhi
2. Impact of nutritional status and nutrition in outcomes of acute pancreatitis, Mid Term CME on Pancreas, 25 November 2017, Chandigarh

3. Nutrition, obesity and metabolic disease: Current perspectives and challenges, INSCN, 29 November 2017, New Delhi
4. Nutrition in critically ill cirrhosis assessment and supplementation, ISGCON 2017, 15 December 2017, Bhubaneswar
5. Young Investigator Award Session Symposium—Management of a critically ill cirrhotic, ISGCON 2017, 15 December 2017, Bhubaneswar

Pramod Garg

1. Severe acute pancreatitis', Annual Conference of IMA, June 2017, Raipur
2. What is a good clinician and how to approach applied medicine with research, Faculty Development Programme in KIMS, June 2017, Bhubaneswar
3. Chronic pancreatitis, 48th Annual Meeting of the Japan Pancreas Society, July 2017, Kyoto, Japan
4. Oxidative stress in chronic pancreatitis, Annual Conference Pancreas Fest-2017, July 2017, Pittsburgh, USA
5. Pancreatic fluid collections: Single plastic stent still the best option, Asian EUS Congress 2017, 7-9 September 2017, Mumbai
6. EUS for recurrent acute pancreatitis, Asian EUS Congress 2017, 7-9 September 2018, Mumbai
7. Management of acute pancreatitis: The future beckons us, Annual Conference of American Pancreatic Association, November 2017, San Deigo, USA
8. Management of acute pancreatitis, North Bengal Digestive and Liver Summit, January 2018, Siliguri
9. Endoscopic therapy is the first choice in chronic pancreatitis, West Bengal Chapter of Indian Society of Gastroenterology, February 2018, Kolkata
10. Management of acute pancreatitis, AIG Mayo Clinic Master Classes, February 2018, Hyderabad

Vineet Ahuja

1. Epidemiology of IBD in India, Asian Working Group in Dietary Practices in IBD, 25 February 2018, Ludhiana
2. Gastroesophageal reflux disease, 73 Annual Conference of API (APICON 2018), 22 February 2018, Bengaluru
3. Differences between ITB and CD, CME on Gastroenterology Gastrocon 2018, 17-18 February 2018, Nagpur
4. Mentoring talk, Ramalingaswamy fellowship, 16 February 2018, AIIMS, New Delhi
5. Small bowel imaging what the gastroenterologists want to know? Radiology Conference 2018, February 2018, Delhi
6. Fecal microbiota transplantation, 16 North-East Gastro Meet, 3-4 February 2018, Guwahati, Assam
7. Immunotherapy of IBD simplified: How do the drugs work? IBD Summit 2018, 26 January 2018, Hyderabad
8. Case discussion, Gastroenterology Young Masters 2018 South Chapter, 20-21 January 2018, Bengaluru
9. What is new in Luminal Gastroenterology, which is likely to change practice, 58 Annual Conference of Indian Society of Gastroenterology—ISGCON 2018, 16 December 2017, Bhubaneswar
10. Management of acute severe colitis in 2017, 58 Annual Conference of Indian Society of Gastroenterology—ISGCON 2018, 15 December 2017, Bhubaneswar
11. Dilemma in Diagnosis of Intestinal Tuberculosis, 58 Annual Conference of Indian Society of Gastroenterology—ISGCON 2018, 14 December 2017, Bhubaneswar
12. Biological therapy, GASTROCON 2017, 25-26 November 2017, Kolkata
13. The Gut Microbiome made easy—New horizons, Connecting Mind and Gut IBD 2017, 16-18 November 2017, Madrid, Spain
14. Gut microbiome manipulation strategies: From science into practice, Asian Conference on Diarrhoeal Disease and Nutrition (ASCODD), 30 October 2017, Kochi
15. Microbiome a primer, Can fecal microbiota transplantation be the primary therapy? Gut Microbiome and Translational Research Meeting, 13 October 2018, Birmingham, UK
16. Case discussion, International Conference in IBD, 30 September 2017, Chennai
17. Diarrhea in hospitalized patients, IISG State Chapter MPCG, 19-20 August 2017, Bilaspur, Chattisgarh
18. Inflammatory bowel disease, IISG State Chapter MPCG, 19-20 August 2017, Bilaspur, Chattisgarh
19. Lessons learnt from Gut Microbiome, 2nd Emirates Digestive Disease Conference IBD Forum ECCO Workshop, 2-4 July 2017, Dubai
20. Predicting acute severe ulcerative colitis, Gastroenterology Conference, July 2017, Hyderabad
21. Biological therapies are they game changers? Symposium in IBD, 20 May 2017, Kolkata

Shalimar

1. Post graduate (Decision Making in Clinical Hepatology), 25th Silver Jubilee Annual Scientific Meeting of INASL, 4 August 2017, New Delhi
2. Symposium in ACLF: Characterization and clinical implications of inflammatory response in ACLF, 25th Silver Jubilee Annual Scientific Meeting of INASL, 5 August 2017, New Delhi
3. SIG meeting on ACLF: Prognosis and therapy in ACLF: Arterial ammonia independently predicts outcome in ACLF, 25th Silver Jubilee Annual Scientific Meeting of INASL, 6 August 2017, New Delhi
4. Prognostication in ACLF, Do we have an ideal score? *Frontiers in Liver Diseases* 2017, 11-12 November 2017, Kochi, Kerala
5. Advanced ACLF—Futility of care, 58th Annual Conference of ISG, 14-17 December 2017, Bhubaneswar
6. Case scenario in Critical Care Hepatology (Panelist), APASL 2018, 14-18 March 2018 (16 March), New Delhi
7. Hepatitis B virus infection—Clinical Oral Presentation, APASL 2018, 16 March 2018, New Delhi
8. Early morning workshop: Use of breath tests in liver diseases, APASL 2018, 18 March 2018, New Delhi
9. NASH—Multi Hit Theory, Gut Association Surat, 25 March 2018, Surat, Gujarat
10. Fibroscan vs MR Elastography, Gut Association Surat, 25 March 2018, Surat, Gujarat

Baibaswata Nayak

1. Diagnosis of diseases through Molecular Genetics, National Seminar on Opportunities and Challenges of Translational Research in the Frontier Areas of Animal Biotechnology by the Society for Veterinary Science and Biotechnology, 22-23 September 2017, Bhubaneswar, India
2. Identification of circulatory microRNAs in different phases of Hepatitis B virus induced disease progression and its prognostic relevance in hepatocellular carcinoma, 26th Annual Conference of the Indian Virological Society (VIROCON-2017). *Viruses to Viromes in Health and Disease*, 7-9 December 2017, Mangalore, India
3. Clinical diagnosis, predictor of therapeutic response and associated resistance variant screening for Hepatitis viruses by novel molecular techniques, *Diagnostic Approaches in Virology: An Introductory Workshop*, 6-7 March 2018, Guwahati, India

Deepak Gunjan

1. Autoimmune pancreatitis- short- and long-term management, 58th Annual Conference of ISG, 17 December 2017, Bhubaneswar, Odisha
2. Recent advances in pancreas, *Gastroenterology Young Masters (GYM)*, 10 February 2018, AIIMS, New Delhi

Saurabh Kedia

1. Manipulating the gut micro-biota and the results, UGC KIIT/KIMS Faculty Development Program, 29 June 2017, Bhubaneswar, India
2. Fecal microbiota transplantation, *The Eco Summit 2017: Probiotics: Health Booster to Therapeutic Agent*, 2 July 2017, Hyderabad, India
3. Fecal microbiota transplantation in IBD, *Guts Matter* 2017, 23 July 2017, Hyderabad, India
4. Differentiating intestinal tuberculosis and Crohn's Disease, *GASTROCON* 2017, 30 July 2017, Kanpur, India
5. Panel discussion: Human microbiome in cardiovascular disease, *Cardiovascular Research Convergence* 2017, 12 August 2017, New Delhi, India
6. Small bowel imaging in Crohn's Disease: Joint position statement of ISG/IRIA, 58th Annual Conference of ISG, 15 December 2017, Bhubaneswar, Odisha, India
7. Management of inflammatory bowel disease: Acute and long term, *North Bengal Digestive and Liver Summit*, 2018, 6-7 January 2018, Siliguri, India
8. Radiology in inflammatory bowel disease, *AIG-IBD Summit* 2018, 26 January 2018, Hyderabad, India
9. Exclusive enteral nutrition in Crohn's Disease, *Asian Working Group on Dietary Guidelines in IBD*, 24 February 2018, Ludhiana, India
10. Differentiating intestinal tuberculosis and Crohn's Disease: Do have an answer yet? *PGI Gastroenterology CME*, 31 March 2018, Chandigarh, India

Oral papers/posters presented

1. Jadaun SS, Shalimar, Sonika U, Nayak B, Ranjan G, Rout G, Kedia S, Gunjan D. Predictors of bacterial infection in acute on chronic liver failure, *AASLD*, October 2017, Washington, USA

2. Shalimar, Gamanagatti RS, Patel AH, Kedia S, Nayak B, Gunjan D, Ranjan G, Paul S, Acharya SK, Sethia R. Long term outcomes of transjugular intrahepatic portosystemic shunt in Indian patients with Budd-Chiari Syndrome, INASL 2017, August 2017, New Delhi
3. Neeti, Shalimar, Gunjan D, Kedia S, Nayak B. Hepatocellular carcinoma tumour size is not associated with increased risk of Post-transarterial chemoembolization liver failure, INASL 2017, August 2017, New Delhi
4. Shalimar, Gunjan D, Kedia S, Nayak B. Arterial ammonia independently predicts outcome in acute on chronic liver failure, INASL 2017, August 2017, New Delhi
5. Shalimar, Gunjan D, Kedia S, Nayak B. Viral Hepatitis-related acute liver failure is not associated with long-term complications, INASL 2017, August 2017, New Delhi
6. Gyan, Shalimar, Kedia S, Nayak B, Yadav R, Das P, Gunjan D. Hepatic fibrosis does not affect the assessment of hepatic steatosis by controlled attenuation parameter in patients with chronic liver disease, INASL 2017, August 2017, New Delhi
7. Gupta S, Rout G, Kedia S, Gunjan D, Nayak B, Shalimar. Generic sofosbuvir based therapy is associated with high response rate in patients with Hepatitis C virus infection in a real life scenario, APDW 2017, September 2017, Hong Kong
8. Gupta S, Shalimar, Rout G, Sethia R, Jadaun SS, Agarwal A, Iqbal A, Gunjan D, Kedia S, Nayak B, Ranjan G. Efficacy of generic oral directly acting agents in patients with Hepatitis C virus infection, AASLD 2017, October 2017, Washington, USA
9. Gunjan D, Garg P, Gamanagatti S. Endoscopic ultrasonography-guided obliteration of the left inferior phrenic artery pseudoaneurysm bleed in a patient with alcoholic chronic pancreatitis, Asian EUS Congress 2017, 7-9 September 2017, Mumbai
10. Gunjan D, Garg P, Bopanna S, Jain SK. Endoscopic ultrasonography is a problem solving and reassuring tool for patients with pancreatic cystic neoplasms being referred to a tertiary care center, Asian EUS Congress 2017, 7-9 September 2017, Mumbai
11. Singh N, Grover I, Gunjan D, Sati H, Saraya A. Assessment of body composition by bioelectrical impedance analysis in patients with chronic pancreatitis, ISGCON 2017, December 2017, Bhubaneswar, Odisha
12. Grover I, Singh N, Gunjan D, Sati HC, Gupta V, Kaushal K, Saraya A. Comparison of triceps skin fold thickness and Bioelectrical impedance analysis with dual energy X-ray absorptiometry for assessment of fat mass and lean body mass in the patients with cirrhosis. APASL 2018, March 2018, New Delhi
13. Khan IA, Gupta S, Rashid S, Hasan MR, Rashid S, Singh N, Gunjan D, Saraya A. Characterization of miRNAs in chronic pancreatitis and pancreatic cancer using next generation sequencing. DDW 2017, May 2017, USA
14. Kedia S, Madhusudhan KS, Sharma R, et al. Combination of increased visceral fat and long segment involvement: Development and validation of an updated imaging marker for differentiating Crohn's Disease from intestinal tuberculosis, ISGCON 2017, December 2017, Bhubaneswar
15. Kedia S, Jain S, Goyal S, et al. The potential of fecal calprotectin as an objective marker to discriminate hospitalized patients with acute severe colitis from outpatients with less severe disease, ISGCON 2017, December 2017, Bhubaneswar
16. Goyal S, Rampal R, Kedia S, et al. Urinary potassium is a potential biomarker of disease activity in ulcerative colitis and displays in vitro immunotolerant role, ISGCON 2017, December 2017, Bhubaneswar
17. Rampal R, Wari N, Singh AK, Das UK, Bopanna S, Jain S, Gupta V, Velapandian T, Kedia S, et al. Vitamin A modulates mucosal inflammation by augmenting Th1/Th17 differentiation in inflammatory bowel disease, ISGCON 2017, December 2017, Bhubaneswar
18. Das B, Ghosh T, Kedia S, et al. Comparative analysis of gut microbiome of rural and urban healthy indians living in low altitude and high altitude areas, ISGCON 2017, December 2017, Bhubaneswar
19. Arora U, Kedia S, Garg P, et al. Colonic Crohn's Disease is associated with less aggressive disease course than ileal or ileocolonic disease, ISGCON 2017, December 2017, Bhubaneswar
20. Kumar S, Kedia S, Singh N, et al. Higher education, professional occupation and upper socio-economic status is associated with lower adherence to medications in patients with inflammatory bowel disease, ECCO 2018, February 2018, Vienna, Austria
21. Agarwal A, Kedia S, Jain S, et al. Very high rate of tuberculosis complicating infliximab therapy for inflammatory bowel disease despite tuberculosis screening in India, ECCO 2018, February 2018, Vienna, Austria
22. Nadda N, Paul S, Shalimar, Acharya SK, Saraya A, Nayak B. Circulatory microRNA-21 and 221 as predictor of response to locoregional therapy in viral induced Hepatocellular Carcinoma, BioZest -2017, Faculty of Life Sciences and Biotechnology (FLSB), South Asian University (SAU), 10 November 2017, New Delhi

23. Nadda N, Paul SB, Shalimar, Acharya SK, Saraya A, Nayak B. Circulatory microRNAs as predictor of response to locoregional therapy in Hepatitis B virus induced Hepatocellular Carcinoma, 2nd Indian Cancer Congress, 8-12 November 2017, Bengaluru
24. Paul SB, Sreenivas V, Singh S, Nadda N, Nayak B, Shalimar, Acharya SK. Hepatocellular Carcinoma: Differences between alpha-fetoprotein secreting and non alpha-fetoprotein secreting, 17th Annual International Conference, 9-11 February 2018, New Delhi
25. Gupta S, Rawat S, Sharma R, Nayak B, Mohanty S. Optimization of culture condition for exosome isolation from tissue specific mesenchymal stem cells, 44th Annual Conference of IIS, Immunocon-2017, 16-18 December 2017, Ahmedabad
26. Singh A, Verma A, Das P, Zindal G, Prakash S, Nayak B, Gupta S, Kumar L, Ahuja V, Makharia GK. Non-invasive biomarkers for assessment of villous abnormalities in patients with celiac disease and other enteropathies: An alternative to mucosal biopsies, 17th International Celiac Disease Symposium, 8-10 September 2017, New Delhi
27. Jain S, Midha S, Mahapatra SJ, Gupta S, Sharma M, Nayak B, Jacob TJ, Shalimar, Garg PK. Serum IL-6 combined with SIRS accurately predicts development of organ failure in acute pancreatitis, 58th Annual Conference of Indian Society of Gastroenterology, 14-17 December 2017, Bhubaneswar
28. Roy N, Kumar H, Pandey HK, Balhara YPS, Saraya A, Shalimar, Nayak B. Genetic variation of CD14 gene promoter region influences the expression of lipopolysaccharide receptor complex in alcoholics, 58th Annual Conference of Indian Society of Gastroenterology, 14-17 December 2017, Bhubaneswar
29. Jadaun SS, Nadda N, Pathak M, Paul SB, Gamanagatti SR, Dhamija E, Vidyasagar R, Shalimar, Kedia S, Nayak B, Acharya SK. Role of Alpha Fetoprotein (AFP) as a therapeutic marker in AFP producing hepatocellular carcinoma, 58th Annual Conference of Indian Society of Gastroenterology, 14-17 December 2017, Bhubaneswar
30. Nadda N, Roy N, Yadav R, Paul SB, Shalimar, Saraya A, Nayak B. Association of HLA-G 3' UTR polymorphisms with hepatocellular carcinoma in Indian populations, 58th Annual Conference of Indian Society of Gastroenterology, 14-17 December 2017, Bhubaneswar
31. Shalimar, Kedia S, Gunjan D, Nayak B, Kaur H, Kalra N, Mahanta M, Acharya SK. Viral Hepatitis-Related acute liver failure is not associated with long-term complications, 25th Annual Scientific Meeting of the Indian National Association for Study of the Liver (INASL), 3-6 August 2017, New Delhi
32. Nayak B, Nadda N, Paul S, Shalimar, Acharya SK, Saraya A. To study changes in circulatory microrna expression in hepatocellular carcinoma patients receiving locoregional therapy and its correlation with therapeutic response, 25th Annual Scientific Meeting of the Indian National Association for Study of the Liver (INASL), 3-6 August 2017, New Delhi
33. Nayak B, Yadav R, Nadda N, Roy N, Paul S, Shalimar. To study plasma sHLA-G levels of HCC patients showing INDEL polymorphism and its correlation with response to loco regional therapy, 25th Annual Scientific Meeting of the Indian National Association for Study of the Liver (INASL), 3-6 August 2017, New Delhi
34. Jadaun SS, Ranjan G, Rout G, Sonika U, Pathak M, Kedia S, Gunjan D, Nayak B, Acharya SK, Shalimar. Arterial ammonia independently predicts outcome in acute on chronic liver failure, 25th Annual Scientific Meeting of the Indian National Association for Study of the Liver (INASL), 3-6 August 2017, New Delhi

RESEARCH

Funded projects

Ongoing

1. Role of miRNA mediated modulation of signal transduction in pancreatic cancer, Anoop Saraya, DST, 3 years, 2018-2021, Rs 75 lakhs
2. Home based blenderized formulations in acute pancreatitis: A pilot randomised control trial, Anoop Saraya, ICMR, 3 years, 2018-2021, Rs 39 lakhs
3. To study the gut mucosal injury in severe acute pancreatitis and their correlation with organ failure and mortality, Anoop Saraya, DBT, 3 years, 2015-2018, Rs 56.38 lakhs
4. MicroRNAs as biomarkers in chronic pancreatitis patients who are at risk of developing pancreatic cancer, Anoop Saraya, DBT, 3 years, 2016-2019, Rs 91 lakhs
5. Expression of REG-4 and MUC-4 in patients with carcinoma of pancreas, Anoop Saraya, ICMR, 3 years, 2015-2018, Rs 25 lakhs
6. The role of endoplasmic reticulum stress in the pathogenesis of caerulein induced acute pancreatitis in mice and the effect of chemical chaperones on the severity of acute pancreatitis, Pramod Garg, ICMR, 3 years, 2013-2017, Rs 24 lakhs

7. Genomic and epigenomic expression in gallbladder cancer, Pramod Garg, AIIMS, 2 years, 2014-2016, Rs 10 lakhs
8. Human Gastrointestinal Immunology Translational Program, Vineet Ahuja, DBT, 3 years, 2014-2017, Rs 78 lakhs
9. Comparative gut eukaryotic microbiome in inflammatory bowel disease: Search for a common link in genetically similar population residing in areas with differing disease prevalence, Vineet Ahuja, DST (DST-UKERI), 2 years, 2015-2017, Rs 21 lakhs
10. Crohn's Disease in India: A multicenter study from a country where intestinal tuberculosis as well as Johne's Disease is endemic, Vineet Ahuja, ICMR, 3 years, 2016-2019, Rs 3.25 lakhs
11. Entyvio (Vedolizumab IV) extended access program in Ulcerative Colitis and Crohn's Disease, Dr Vineet Ahuja, Pharmaceutical Product Development, 1.5 years, 2017, Rs 3 lakhs
12. Department of Biotechnology "Consortium on celiac disease", Govind K Makharia, DBT, 3 years, 2017-2020, Rs 359 lakhs
13. Indo-US Joint Network Centre for Excellence in celiac disease, Govind K Makharia, IUSSTF, 1 year, 2017-2018, Rs 43 lakhs
14. Development and validation of a tool for assessment of adherence to gluten free diet in Indian celiac disease patients, Govind K Makharia, ICMR, 3 years, 2018-2020, Rs 23 lakhs
15. Exploration for development of wheat with low immunogenic gluten, Govind K Makharia, IARI, 3 years, Rs 46 lakhs
16. To study the Resistance Associated Variants (RAVs) in Chronic Hepatitis C patients treated with Sofosbuvir-based therapy, Shalimar, Ministry of Health and Family Welfare (DHR), 3 years, 2017-2020, Rs 44 lakhs
17. Effect of H. pylori eradication therapy in patients with NAFLD having H. pylori co-infection: A pilot open label randomized controlled clinical study, Shalimar, AIIMS, 2 years, 2017-2019, Rs 5 lakhs
18. Development of reverse genetic based recombinant Newcastle disease virus model for understanding immune response in patients infected with Hepatitis C virus, B. Nayak, DBT-NER, 3 years, 2016-2019, Rs 105 lakhs
19. Clinical relevance of Human Leukocyte Antigen (HLA-G) molecules and its polymorphism in Hepatocellular carcinoma, B. Nayak, AIIMS, 2 years, 2016-2018, Rs 4 lakhs
20. CD14 gene variations in Alcohol-Induced Liver Disease (ALD) and Alcoholic Pancreatitis (ALP) in co-morbid condition and relationship between associated polymorphisms and MD2 molecule binding to the CD14-LPBS-TLR4 Complex, B. Nayak, DST, 3 years, 2017-2020, Rs 27 lakhs

Completed

1. Chronic liver disease: Status of micronutrients with special reference to vitamin D and its supplementation on hepatic osteodystrophy—A randomized controlled trial, Anoop Saraya, ICMR, 3 years, 2013-2017, Rs 69 lakhs
2. Biomarker(s) for assessment of villous abnormalities in patients with celiac disease and other enteropathies, Govind K Makharia, DST, 3 years, 2014-2017, Rs 48.96 lakhs
3. Phase III multicenter trial for evaluating integrin inhibitor in ulcerative colitis and Crohn's Disease, Vineet Ahuja, Millenium Pharma, Boston, 9 years, 2008-2016, Rs 27 lakhs
4. Diabetes-Liver disease embrace: A cross sectional multicentric study to explore the effect of diabetes on short term outcome of acute and chronic liver disease, Shalimar, Liver foundation, 3 years, 2014-2017, Rs 10 lakhs

Departmental projects

Ongoing

1. The role of miRNA(s) regulating metabolic reprogramming enzyme to promote tumor progression
2. Role of miRNA mediated modulation of signal transduction in pancreatic cancer
3. Role of Gut Microbiota in the pathogenesis of alcoholic and non-alcoholic fatty liver disease in humans
4. Intestinal permeability in patients with acute pancreatitis—Role of tight junction proteins and effect of enternal nutrition
5. Effect of branched-chain acid supplementation on muscle and muscle strength in patients with cirrhosis: A randomized controlled trial
6. Assessment of villous enteropathy in first-degree relatives of patients with celiac disease
7. Prevalence of Celiac Disease in patients of Inflammatory Bowel Disease
8. To study the prevalence of metabolic syndrome in patients with celiac disease on GFD for 1 year
9. Development of gluten-free food products for patients with celiac disease and consumer validation by clinical trials for commercialization
10. To evaluate predictors of outcome of acute pancreatitis

11. A randomised controlled trial to compare efficacy of Diclofenac with Pentazocine for relief of abdominal pain in patients with acute pancreatitis
12. Early versus delayed percutaneous drainage for infected acute fluidcollections in acute pancreatitis: A randomised controlled trial
13. Role of microRNA as biomarker and its modulation in HCC targeting mTOR pathway
14. Development of replicon based assay to study the effect of genetic variation on Hepatitis B virus replication and its genome targeting by CRISPR
15. Mesenchymal stem cell therapy in patients with acute on chronic liver failure: A double blind, randomized placebo controlled trial
16. To study the prevalence of cerebral edema and neuropathological changes in acute on chronic liver failure patients
17. Hepatitis B virus breakthrough in chronic hepatitis patients on Nucleos(t)ide analog therapy and its effect on HBV polymerase activity

Completed

1. Study of prognostic significance of DNA methylation pattern in patients with carcinoma of pancreas
2. Clinical significance of Epithelial Cell Adhesion Molecule (Ep-CAM) in esophageal cancer
3. To study intestinal permeability and expression on claudin 2 and 4 in intestinal mucosa in patients with cirrhosis
4. To study intestinal permeability in patients with severe acute pancreatitis
5. Expression of REG4 and MUC4 in patients with carcinoma of pancreas
6. Biomarker(s) for assessment of villous abnormalities in patients with celiac disease and other enteropathies
7. Validation of a novel single-drop rapid HLA-DQ2/-DQ8 method to identify subjects susceptible to celiac disease
8. To study the frequency, natural course and outcome of acute kidney injury in acute on chronic liver failure patients
9. To evaluate the predictors of outcome in acute pancreatitis

Collaborative projects

Ongoing

1. Role of serum neutrophil gelatinase associated lipocalin as prognostic marker of severe acute pancreatitis, Emergency Medicine
2. Molecular expression and interaction between growth differentiation factor—15 (GDF-15), iron trafficking proteins, micronutrient antioxidants in diabetes and Metabolic Syndrome, Laboratory Medicine
3. Detection of early T Cell precursor leukemia subset by flow cytometry in T Cell acute lymphoblastic leukemias and their follow up, Haematopathology
4. Study of the role of butyrate a short-chain fatty acid, in modulating HBV Replication and Hepatocellular Carcinoma, South Asian University, New Delhi
5. A randomized trial of endoscopic versus laparoscopic drainage of pancreatic pseudocysts, Surgical Disciplines
6. Effect of anti-inflammatory drugs on duct ligation and Na-Taurocholate model of experimental acute pancreatitis in rats, GI Surgery and Anatomy
7. Indo-US Joint Network Centre for Excellence in Celiac Disease, Beth Israel Deaconess Medical Center, USA Boston Children's Hospital, USA, Massachusetts General Hospital, USA
8. Department of Biotechnology "consortium on celiac disease", Institute of Genomics and Integrative Biology, New Delhi, SRM Institute of Medical Sciences, Chennai Postgraduate, Institute of Medical Sciences, Chandigarh, Sardar Patel Medical College and Hospital Bikaner, Rajasthan, Gauhati Medical College, Guwahati
9. Development of a low-cost diagnostic platform for the identification of viral DNA using CRISPR/Cas13a system, South Asian University, New Delhi
10. Genetic association of cytokine with suicidality in Indian population, Forensic Medicine
11. Hepatic regenerative potential of exosomes derived from human Mesenchymal Stem Cells in liver fibrosis model, Stem Cell Facility
12. Role of multiparametric MRI and Ga-68 PSMA PET scan in evaluation of high risk prostate cancer and its correlation with histopathology and genomic markers, Radiodiagnosis
13. To assess the prognostic value of various cytokines in Acute on Chronic Liver Failure (ACLF) patients, Infectious Disease
14. Nanotechnology based vaccine against Hepatitis E Virus, Department of Biotechnology, Jaypee Institute of Information Technology, NOIDA, UP

15. Nanoparticles based amperometric biosensor for detection of thyroid dysfunctioning, Department of Biotechnology, Jaypee Institute of Information Technology, NOIDA, UP
16. Comparison of combination therapy of corticosteroids and Bovine Colostrum versus Corticosteroids and Placebo: A Multicentre, Randomized, Double blind, Placebo controlled trial in treatment of alcoholic hepatitis 'in Extremis', Department of Gastroenterology, Dayanand Medical College and Hospital, Ludhiana, G.B. Pant Hospital, New Delhi, Global Hospital, Hyderabad
17. Correlation of hepatic fat content and angiographic coronary artery stenosis, Department of Cardiology, VMMC and Safdarjang Hospital, New Delhi
18. Early versus delayed percutaneous drainage for clinically suspected infected pancreatic necrotic collection in acute pancreatitis: A randomized controlled trial, Department of Gastroenterology and Human Nutrition Unit, AIIMS, New Delhi
19. Thromboelastography guided blood product transfusion in cirrhosis patients with acute variceal bleeding: A randomized controlled trial, Department of Gastroenterology and Human Nutrition Unit, AIIMS, New Delhi
20. Role of Gut Microbiota in the pathogenesis of alcoholic and non-alcoholic fatty liver disease in humans, Department of Gastroenterology and Human Nutrition Unit, AIIMS, New Delhi
21. Intestinal permeability in patients with acute pancreatitis-role of tight junction proteins and effect of enteral nutrition, Department of Gastroenterology and Human Nutrition Unit, AIIMS, New Delhi
22. Targeted versus standard fluid therapy in predicted severe acute pancreatitis: A randomized controlled study, Department of Gastroenterology and Human Nutrition Unit, AIIMS, New Delhi
23. The effect of structured Yoga practices on the quality of life and clinical outcomes in patients with ulcerative colitis, Centre for Integrative Medicine

Completed

1. Prevalence and molecular characterization of occult hepatitis C Virus infection (OCI) in patients with cryptogenic liver disease, Microbiology
2. Impact of bariatric surgery on oxidative stress and pro-anti inflammatory pathways in non-alcoholic fatty liver disease of morbidly obese patients, Surgical Disciplines

PUBLICATIONS

Journals: 61 Abstracts: 32 Books: 2

PATIENT CARE

The following number of patients was seen in outpatient: Routine OPD and special clinics

Routine Gastroenterology Clinic (Monday to Friday)

New cases: 26531 Old cases: 47572

Special clinics

Name of clinic	New cases	Old cases
Liver	1463	13250
IBD and ITB	475	6833
Interventional	272	323
Pancreas	707	991
Celiac	108	699

Endoscopy procedures

Diagnostic and therapeutic endoscopies:	32235
Diagnostic and therapeutic colonoscopies:	4865
Endoscopic ultrasound (Diagnostic and therapeutic):	930
Endoscopic Retrograde Cholangiopancreatography (ERCP):	4260
Diagnostic sigmoidoscopies:	4723
Side viewing endoscopies:	1230
G.I. motility studies:	191
Fibroscan:	8502

Tests done in the department

1.	Hepatitis B virus quantitation by realtime PCR	2482
2.	Hepatitis C virus quantitation by realtime PCR	1723
3.	HCV genotyping by real time PCR	144
4.	HEV detection quantitative	204
5.	HBsAg by ELISA	270
6.	HBeAg by Flurometry/ELISA	439
7.	Anti Hbe by Vidas/ELISA	366
8.	Anti HBc Total by Vidas/elisa	80
9.	HBcIgM by Vidas	6
10.	HAV IgM by ELISA	200
11.	HEV IgM by ELISA	216
12.	Anti HCV by ELISA	193
13.	Arterial Ammonia	635
14.	Prothrombin time	1895
15.	IgG4 by Nephelometry	14
16.	Fecal Chymotrypsin Kinetic method	168
17.	Fecal Fat by ether extraction	216
18.	Fecal elastase by ELISA	184
19.	Hydrogen Breath Test	101
20.	D-Xylose by colorimetry	344
21.	Ceruloplasmin by turbidometry	1711
22.	Serum Copper by colorimetry	1620
23.	24 hrs. urinary copper	1175
24.	sHLA G ELISA	76
25.	hsCRP by ELISA	80
26.	Urea Breath Test	20
27.	Ttg IgA by FEIA	349

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor Anoop Saraya chaired a session during GASTROCON-2017 at New Delhi, chaired a session during World IBD Day, at New Delhi, chaired a session during ISGCON-2017 at Bhubaneswar, chaired a session during APASL-2018 at New Delhi, chaired a session during 25th Annual Meeting of INASL-2017 at New Delhi, chaired a session during 17th International Celiac Disease Symposium at New Delhi, organized CPLD-2017 at New Delhi.

Professor Pramod Garg was nominated Foreign Secretary of the National Academy of Sciences, India, nominated Governing Council member of the Indian Society of Gastroenterology 2014-2017, awarded 'Basanti Devi Amir Chand Prize' for excellence in Biomedical research by Indian Council of Medical Research for the year 2015.

Professor Vineet Ahuja was nominated Associate Editor, Journal of Gastroenterology and Hepatology, recipient of AIIMS Excellence Award, Presidential Poster Award at 58th ISGCON, Bhubaneswar (2nd Prize).

Professor Govind K Makharia nominated as Co-chair of Clinical Research Committee, World Gastroenterology Organization (2017-2020); Co-chairman of making of global guidelines on "Diet and Gut" by World Gastroenterology Organization; Board Member, International Association for the Studies on Celiac Disease (2015-2019); Secretary General of Indian Society of Gastroenterology (2016-2019); Editorial Advisory Board Member, Clinical and Translational Gastroenterology (American College of Gastroenterology); Governing Body Member of Central Council for Research in Ayurvedic Sciences, Ministry of Ayush, Government of India (2015-2017); Governing Body Member of Central Council for Research in Unani Medicine, Ministry of Ayush, Government of India (2015-2017); Coordinator of the Department of Biotechnology Consortium on Celiac Disease; Governing Council Member, Indian Motility and Functional Diseases Association; Coordinator of Indian Society of Gastroenterology Task Force on Inflammatory Bowel Disease; Coordinator of Young Clinician Program, Indian Society of Gastroenterology.

Dr Baibaswat Nayak is the reviewer of 19 national and international journals including Nature Scientific Report, PLoS Pathogen, PLoS One, ActaTropica, Journal of Virology, Biochemistry and Biotechnology Research, Drug Research, Virus Research, Vaccine, Virology Journal, Viral Immunology, Tropical Gastroenterology, Indian Journal of Virology, Journal of Veterinary Science, Virus diseases, Indian Journal of Medical Research, BioMed Research International, BMC Medical Genomics and Molecular and Cell Biology of Lipids. He is also reviewer to extramural funding of DST SERB, AYUSH/CCRH, ICMR STS Expert Group and DBT nominee for IBSC.

Dr Saurabh Kedia was awarded Best Poster Award during AIG-IBD Summit-2018.

Dr Deepak Gunjan was awarded “Best Luminal Video Award” Asian EUS Congress 2017; recipient of Presidential Poster Award, APASAL2018 held at New Delhi.

VISITING SCIENTISTS

1. Professor Krishnan Sriram, Fellowship Program Director and Division Chair, Surgical Critical Care, University of Chicago, USA visited the department on 16 August 2017
2. Dr Subarajit Saha, University of Kansas, Medical Centre, USA visited the department on 16 February 2018
3. Dr Aditi Bhargava, Professor, Director of Laboratory Research, University of California, USA visited the department on 27 March 2018.

9.14. Gastrointestinal Surgery and Liver Transplantation

Professor and Head

Peush Sahni

Professors

Sujoy Pal

Nihar Ranjan Dash

Assistant Professors (On contract)

Rajesh Panwar

Anand Narayan Singh

HIGHLIGHTS

The department organized the (i) Indian Association of Surgical Gastroenterology (IASG) clinics for MCh and DNB, GI Surgery Residents on 22 and 23 April 2017; (ii) 27th Annual General Meeting of the Indian Ostomy Society at AIIMS, New Delhi on 12 October 2016; (iii) conducted a workshop on cadaveric multi-organ retrieval for residents on 24 December 2017.

EDUCATION

The department is actively involved in the teaching of undergraduate and postgraduate students. About 15 topics are covered for undergraduate students during their general surgery postings and during didactic lectures. The Department Faculty Moderate Sessions on GI surgical topics in the Department of Surgical Disciplines.

The department offers 3 years training leading to award of MCh in gastrointestinal surgery. The department also offers short-term and long-term observership/training. The weekly academic activities are resident-centred. Multi-disciplinary activities such as a combined round with gastroenterology, a GI Radiology Conference and a GE-GI Surgery—Pediatric GE Histopathology Conference are held regularly.

CMEs/Workshops/Symposia/National and International Conferences organized by the department

1. IASG Clinics for MCh and DNB GI Surgery Residents, AIIMS, New Delhi, 22-23 April 2017
2. 27th Annual General Meeting, Indian Ostomy Society, AIIMS, New Delhi, 12 October 2017
3. Workshop on Cadaveric Multiorgan Retrieval, AIIMS, New Delhi, 24 December 2017

Lectures delivered

Peush Sahni

1. ICMJE recommendations, 2nd PG Workshop on Research Methodology, Writing and Communication, 15 April 2017, AIIMS
2. IMRAD format, 2nd PG Workshop on Research Methodology, Writing and Communication, 15 April 2017, AIIMS

3. Discussion, 2nd PG Workshop on Research Methodology, Writing and Communication, 15 April 2017, AIIMS
4. Abstract, titles, keywords, 2nd PG Workshop on Research Methodology, Writing and Communication, 15 April 2017, AIIMS
5. Scientific misconduct, 2nd PG Workshop on Research Methodology, Writing and Communication, 15 April 2017, AIIMS
6. Management of pancreatic stones in chronic pancreatitis: Surgery leads to better long term resolution, ASGE/ Society of Gastrointestinal Endoscopy of India (SGEI) International Symposium: Recent Advances in Therapeutic Endoscopy, Digestive Diseases Week 2017, 6-9 May 2017, Chicago, USA
7. The importance of communicating scientific information, India-EIS Workshop on Scientific Writing, 30-31 May 2017, National Centre for Disease Control, New Delhi
8. Writing the Material and Methods, India-EIS Workshop on Scientific Writing, 30-31 May 2017, National Centre for Disease Control, New Delhi
9. Writing the discussion, India-EIS Workshop on Scientific Writing, 30-31 May 2017, National Centre for Disease Control, New Delhi
10. References: Required styles, India-EIS Workshop on Scientific Writing, 30-31 May 2017, National Centre for Disease Control, New Delhi
11. Scientific misconduct, India-EIS Workshop on Scientific Writing, 30-31 May 2017, National Centre for Disease Control, New Delhi
12. Choosing your Journal, India-EIS Workshop on Scientific Writing, 30-31 May 2017, National Centre for Disease Control, New Delhi
13. Dealing with the reviewer's comments, India-EIS Workshop on Scientific Writing, 30-31 May 2017, National Centre for Disease Control, New Delhi
14. Fundamentals of peer review, Forum for Medical Ethics Society and Indian Journal of Medical Ethics, 3 June 2017, Mumbai
15. Critical appraisal: How to read a paper for peer review, Forum of Medical Ethics Society and Indian Journal of Medical Ethics, 3 June 2017, Mumbai
16. IMRAD format and introduction, Faculty Development Programme, 26-30 June 2017, School of Medicine, KIIT University, Bhubaneswar
17. Choosing of journal and pseudo-journal, Faculty Development Programme, 26-30 June 2017, School of Medicine, KIIT University, Bhubaneswar
18. Scientific misconduct and trial registration, Faculty Development Programme, 26-30 June 2017, School of Medicine, KIIT University, Bhubaneswar
19. Responding to reviewers comments, Faculty Development Programme, 26-30 June 2017, School of Medicine, KIIT University, Bhubaneswar
20. Portal biliopathy, CME on Portal Hypertension, 1 July 2017, Seth G.S. Medical College and KEM Hospital, Mumbai
21. Laparoscopic cholecystectomy in acute cholecystitis—Current consensus, Mid Term CME of Indian Chapter of International Hepato-Pancreato Biliary Association, 29-30 July 2017, Guwahati
22. Cholecystectomy in portal hypertension—How to make it safe? Mid Term CME of Indian Chapter of International Hepato-Pancreato Biliary Association, 29-30 July 2017, Guwahati
23. Algorithmic approach to biliary stricture/injury, Mid Term CME of Indian Chapter of International Hepato-Pancreato Biliary Association, 29-30 July 2017, Guwahati
24. Algorithmic approach to gall bladder cancer, Mid Term CME of Indian Chapter of International Hepato-Pancreato Biliary Association, 29-30 July 2017, Guwahati
25. Moderated technique for good colonic anastomosis, How I Do It—CME Series II—Colorectal Surgery, 5 August 2017, Indraprastha Apollo Hospitals, New Delhi
26. Laparoscopic liver surgeries: Relevance in current era? Annual Conference of the INASL 2017, 6 August 2017, New Delhi
27. ICMJE recommendations, Research Methodology Workshop, 12 August 2017, AIIMS, New Delhi
28. IMRAD format and introduction, Research Methodology Workshop, 12 August 2017, AIIMS, New Delhi
29. Discussion, Research Methodology Workshop, 12 August 2017, AIIMS, New Delhi
30. Abstract, title, keywords, Research Methodology Workshop, 12 August 2017, AIIMS, New Delhi
31. Framing the right research question and hypothesis, Faculty Workshop on Research Writing and Publishing in Medicine, 27-29 August 2017, National Academy of Medical Sciences, Kathmandu, Nepal

32. IMRAD and introduction, Faculty Workshop on Research Writing and Publishing in Medicine, 27-29 August 2017, National Academy of Medical Sciences, Kathmandu, Nepal
33. Results including tables and figures, Faculty Workshop on Research Writing and Publishing in Medicine, 27-29 August 2017, National Academy of Medical Sciences, Kathmandu, Nepal
34. Discussion, Faculty Workshop on Research Writing and Publishing in Medicine, 27-29 August 2017, National Academy of Medical Sciences, Kathmandu, Nepal
35. Editorial process and peer review, Faculty Workshop on Research Writing and Publishing in Medicine, 27-29 August 2017, National Academy of Medical Sciences, Kathmandu, Nepal
36. Choosing a journal and pseudo-journals, Faculty Workshop on Research Writing and Publishing in Medicine, 27-29 August 2017, National Academy of Medical Sciences, Kathmandu, Nepal
37. Responding to reviewers comments, Faculty Workshop on Research Writing and Publishing in Medicine, 27-29 August 2017, National Academy of Medical Sciences, Kathmandu, Nepal
38. Scientific misconduct and trial registration, Faculty Workshop on Research Writing and Publishing in Medicine, 27-29 August 2017, National Academy of Medical Sciences, Kathmandu, Nepal
39. Segmental anatomy of the liver: Clinical implications for hepatologist, Advances in Hepatobiliary Diseases, Clinical Perspectives, 3 September 2017, Sir Ganga Ram Hospital, New Delhi
40. Importance of research in HPB surgery, IHPBA India Chapter, HPB Surgery Certificate Course, 15 September 2017, Sir Ganga Ram Hospital, New Delhi
41. ICJME recommendations, Research Methodology Workshop, 26 September 2017, AIIMS, New Delhi
42. IMRAD format and introduction, Research Methodology Workshop, 26 September 2017, AIIMS, New Delhi
43. How to get a paper published, IASGCON 2017, 4 October 2017, JIPMER, Puducherry
44. Normothermic liver perfusion, Panel Discussion, IASGCON 2017, 7 October 2017, JIPMER, Puducherry
45. Introduction, CMET-NMJI Workshop on Writing a Research Paper for Residents, 12-13 October 2017, AIIMS, New Delhi
46. Discussion, CMET-NMJI Workshop on Writing a Research Paper for Residents, 12-13 October 2017, AIIMS, New Delhi
47. Editorial process, CMET-NMJI Workshop on Writing a Research Paper for Residents, 12-13 October 2017, AIIMS, New Delhi
48. Authorship and acknowledgements, CMET-NMJI Workshop on Writing a Research Paper for Residents, 12-13 October 2017, AIIMS, New Delhi
49. Scientific misconduct/Predatory journals, CMET-NMJI Workshop on Writing a Research Paper for Residents, 12-13 October 2017, AIIMS, New Delhi
50. Conflict of interest, CMET-NMJI Workshop on Writing a Research Paper for Residents, 12-13 October 2017, AIIMS, New Delhi
51. Choosing a journal, CMET-NMJI Workshop on Writing a Research Paper for Residents, 12-13 October 2017, AIIMS, New Delhi
52. Guardianship programme at AIIMS, Faculty Mentor Sensitization Program 2017, 25 October 2017, VMMC and Safdarjung Hospital, New Delhi
53. Moderator, Open House, Mid-term CME on IHPBA (Indian Chapter), 25 November 2017, PGIMER, Chandigarh
54. Pre-Congress Workshop-I, Scientific Writing and Research Methodology, 7 December 2017, Dhaka, Bangladesh
55. Segmental anatomy of liver: Clinical implications for a hepatologist, 58th Annual Conference of the Indian Society of Gastroenterology, 14-17 December 2017, Bhubaneswar
56. Incidental carcinoma gall bladder—Algorithm, 15th Annual Conference of Indian Chapter of International Hepato Pancreato Biliary Association, 12-14 January 2018, Pune
57. An interesting case—Portal biliopathy, 15th Annual Conference of Indian Chapter of International Hepato Pancreato Biliary Association, 12-14 January 2018, Pune
58. A challenging case, Preparing for the Unexpected, AIG IBD Summit 2018, 26-28 January 2018, Hyderabad
59. IBD emergency: Role of surgery, AIG IBD Summit 2018, 26-28 January 2018, Hyderabad
60. Publication ethics, Symposium on Thoracic Surgery, 20 January 2018, Department of Surgical Disciplines, AIIMS
61. Panel discussion: Pancreatic mass: Imaging and management algorithm, Abdominal MRI, 3-4 February 2018, Department of Radiodiagnosis, AIIMS
62. General ethical issues and publication ethics, Abdominal MRI, 3-4 February 2018, Department of Radiodiagnosis, AIIMS

63. IMRAD format and introduction, CMET NMJI Workshop on Writing a Research Paper for Residents, 15-16 February 2018, CMET, AIIMS, New Delhi
64. Discussion, CMET NMJI Workshop on Writing a Research Paper for Residents, 15-16 February 2018, CMET, AIIMS, New Delhi
65. Editorial process, CMET NMJI Workshop on Writing a Research Paper for Residents, 15-16 February 2018, CMET, AIIMS, New Delhi
66. Scientific misconduct/predatory journals, CMET NMJI Workshop on Writing a Research Paper for Residents, 15-16 February 2018, CMET, AIIMS, New Delhi
67. Choosing a journal, CMET NMJI Workshop on Writing a Research Paper for Residents, 15-16 February 2018, CMET, AIIMS, New Delhi
68. The peer review process: History and methods, Workshop on Peer Review, Indian Society of Dental Research and International College of Dentists, 17-18 March 2018, Centre for Dental Education and Research, ???
69. Components of peer review: Results and discussion, Workshop on Peer Review, Indian Society of Dental Research and International College of Dentists, 17-18 March 2018, Centre for Dental Education and Research, ???
70. Writing a review, Workshop on Peer Review, Indian Society of Dental Research and International College of Dentists, 17-18 March 2018, Centre for Dental Education and Research, ???
71. Surgical management of extrahepatic portal venous obstruction in children, Pediatric Surgery Update 2018, 23 March 2018, Maulana Azad Medical College, New Delhi

Sujoy Pal

1. GB cancer in India, Working Party of GBC, AP-IHPBA 2017, 7-10 June 2017, Yokohama, Japan
2. Surgery for NCPH: Experience of over 1000 cases, 27th National Conference of IASG, 5-8 October 2017, JIPMER, Puducherry
3. Debate: Open PD vs lap PD, Surgicon 2017, 10-12 November 2017, Lady Hardinge Medical College, New Delhi
4. Surgery for portal hypertension: Experience over 4 decades (1975-2016), 15th Annual Conference of Indian Chapter of IHPBA, 12-14 January 2018, Pune
5. Pancreatic NET: Impact of size on surgery and prognostic factors of survival, Mid-term CME on IHPBA (Indian Chapter), 26 November 2017, PGIMER, Chandigarh
6. Surgery for ulcerative colitis, ISGCON 2017, 14-17 December 2017, Bhubaneswar
7. Bleeding during laparoscopic cholecystectomy, stone/bile spillage, 2nd SELSI Consensus Meeting on Safe Cholecystectomy—Prevention and Management of Bile Duct Injury, 16 December 2017, AIIMS, New Delhi
8. Challenges faced while setting up a liver transplantation programme in a public sector hospital, WB Chapter of ISG, Annual meeting, 9 January 2018, Kolkata
9. Setting up a deceased donor liver transplantation programme, WB ROTTO Meeting, 10 January 2018, Kolkata

Nihar Ranjan Dash

1. Video assisted retroperitoneal debridement, 27th National Conference of IASG, 5-8 October 2017, JIPMER, Puducherry
2. Role of surgery in hepatic venous outflow tract obstruction, Current Perspectives in Liver Disease: CPLD, 7-8 October 2017, AIIMS, New Delhi
3. Surgical management of parasitic diseases of liver, RAJTROPACON, 2nd Rajasthan Chapter IATP 2017, 13-14 October 2017, Jodhpur
4. The art and science of intestinal stoma, International Surgical Congress and First Peruvian-Indian Surgical Meeting, 14-16 March 2018, Lima, Peru

Rajesh Panwar

1. Intraoperative detection of bile duct injury (BDI): Evaluation and management, 2nd SELSI Consensus Meeting on 'Safe Cholecystectomy—Prevention and Management of BDI', 16 December 2017, AIIMS, New Delhi

Oral papers/posters presented

1. Panwar R, Kumar A, Pal S, Khan AA, Dash NR, Sahni P. Outcome following pylorus resecting pancreaticoduodenectomy versus classical Whipple's pancreaticoduodenectomy: A randomised controlled trial. 6th Biennial Congress of the AHPBA, 7-10 June 2017, Yokohama, Japan
2. Kilambi R, Pal S, Mangla V, Singh AN, Dash NR, Pande GK, *et al.* Long-term results of proximal splenorenal shunt (PSRS) in extrahepatic portal venous obstruction (EHPVO). 6th Biennial Congress of the AHPBA, 7-10 June 2017, Yokohama, Japan

3. Singh AN, Pal S, Mangla V, Kilambi R, George J, Dash NR, *et al.* Dunking or duct-to-mucosa pancreaticojejunostomy: The better technique? 6th Biennial Congress of the AHPBA, 7-10 June 2017, Yokohama, Japan
4. Krishna P, Dash NR, Pal S, Sahni P. Randomized controlled trial comparing perioperative outcomes after esophageal resection and substitution or esophageal bypass alone for corrosive strictures of the esophagus: An interim analysis. 27th National Conference of IASG, 5-8 October 2017, Puducherry
5. Raichurkar KK, Panwar R, Pal S, Dash NR, Sahni P. Evaluation of long-term consequences of oesophagectomy in patients with carcinoma oesophagus. 27th National Conference of IASG, 5-8 October 2017, Puducherry
6. Jain D, Sahni P, Dash NR, Pal S, Sharma R, Madhusudhan KS. Comparison of CT portography and color doppler in extrahepatic portal vein obstruction. 27th National Conference of IASG, 5-8 October 2017, Puducherry
7. Das SAP, Pal S, Dash NR, Rewari V, Sahni P. Outcomes following enhanced recovery after surgery (ERAS) program in patients undergoing pancreaticoduodenectomy. 27th National Conference of IASG, 5-8 October 2017, Puducherry
8. Das SAP, Dash NR, Pal S, Sharan P, Madhusudhan KS, Sahni P. Surgery for corrosive stricture esophagus: Assessment of complications, mental health and quality of life (QOL). 27th National Conference of IASG, 5-8 October 2017, Puducherry
9. Roy S, Kilambi R, Singh AN, Pal S. Video: Modified appleby procedure for pancreatic body carcinoma. 15th Annual Conference of Indian Chapter of IHPBA, 12-14 January 2018, Pune
10. Aggarwal A, Singh AN, Pal S, Garg P, Tandon N, Sahni P. Cavitojejunostomy following enucleation of pancreatic head insulinomas. 15th Annual Conference of Indian Chapter of IHPBA, 12-14 January 2018, Pune

RESEARCH

Funded projects

Ongoing

1. Development of an indigenous affordable no-frill enteral feeding pump, Peush Sahni, DST, 3 years, 2015-18, Rs 23.85 lakhs
2. Posterior (SMA-first) approach vs standard pancreatoduodenectomy in patients with pancreatic cancer with special focus on circumferential resection margins and medium term survival outcome: A prospective randomized controlled trial, Sujoy Pal, AIIMS, 5 years, 2013-18, Rs 5 lakhs
3. Oesophageal resection vs bypass in patients with corrosive stricture of the oesophagus requiring surgery. Nihar Ranjan Dash, AIIMS, 5 years, 2012-17, Rs 1.50 lakhs
4. Safety and effectivity of HIPEC in gall bladder cancer. Nihar Ranjan Dash, 3 years, 2016-18, Rs 5 lakhs

Completed

1. A preliminary study to document the genetic and molecular profile of resected colorectal cancers in India, Sujoy Pal, 3 years, 2015-18, Rs 5 lakhs
2. Unilateral vs bilateral PTBD in the management of malignant biliary hilar obstruction. Nihar Ranjan Dash, 2 years, 2014-16, Rs 5 lakhs

Departmental projects

Ongoing

1. Evaluation of a peri-operative low dose steroid regimen for steroid treated inflammatory bowel disease patients—A prospective randomized study
2. Prevalence of frailty and its association with morbidity in elderly surgical patients
3. Incidence of deep vein thrombosis (DVT) in major gastrointestinal surgery: A prospective observational study
4. Outcome of post cholecystectomy biliary stricture in a tertiary care centre
5. Impact of proton pump inhibitors on the development of anastomotic complications after gastric pull-up and cervical oesophago-gastric anastomosis—A randomized control study
6. Prevalence of circulating tumour cells (CTC) in patients with periampullary carcinoma and its correlation with recurrence-free and overall survival
7. Safety and efficacy of hyperthermic intra peritoneal chemotherapy in the management of gastric cancer
8. Randomized controlled trial on skin preparation with chlorhexidine alcohol prep vs savlon/betadine prep in elective gastrointestinal surgery
9. VAAFT (Video assisted anal fistula treatment) in Crohn's Disease associated perianal fistulae (CDAPF): A prospective evaluation

Completed

1. Surgery for corrosive stricture oesophagus: Assessment of complications, mental health and quality of life (QOL)
2. Comparison of CT portography and ultrasonography with colour doppler in patients with EHPVO
3. Effect of steroids and anti-cytokine monoclonal antibodies on the severity of murine experimental acute pancreatitis
4. A randomized controlled trial to compare neoadjuvant chemoradiotherapy vs direct surgery for SCC of the esophagus
5. A randomized controlled trial of pyloric ring excising vs classical pancreatoduodenectomy with respect to occurrence of delayed gastric emptying
6. Comparison of preoperative supervised and routine incentive spirometry on postoperative pulmonary complications in open abdominal and thoracic surgery: A randomized clinical trial

Collaborative projects

Ongoing

1. An observational study of portal vein embolization in patients with hepatobiliary malignancies (Radiodiagnosis)
2. Endoscopic versus surgical treatment of chronic pancreatitis—A comparison of outcomes (Gastroenterology)
3. Genomics in gall bladder cancer in Indian population (IRCH)
4. Role of miRNA mediated modulation of signal transduction in pancreatic cancer (Gastroenterology)
5. Expression of FAT1 and proinflammatory molecules in periampullary carcinoma (Biochemistry)

Completed

1. Expression of cysteine proteases in human gallbladder cancer (Biochemistry)
2. Percutaneous transhepatic biliary drainage for obstructive jaundice: Assessment of outcome and quality of life (Radiodiagnosis)
3. Gemcitabine and oxaliplatin vs gemcitabine and capecitabine in unresectable carcinoma gall bladder with obstructive jaundice post PTBD/stenting (PTBD or ERCP): A randomized controlled study (Medical Oncology)
4. Surgery for Cystic tumors of pancreas: Report of high volume multi institutional Indian experience over a decade (Tata Memorial Hospital)

PUBLICATIONS

Journals: 20

Abstracts: 9

Chapters in Book: 1

Book: 1

PATIENT CARE

OPD

Total number of new patients seen: 3520

Total number of old patients seen: 7177

Specialty clinics

Department is running a daily clinic for stoma patients.

Special laboratory facilities

Anal manometry, oesophageal manometry, 24-hour ambulatory oesophageal pH monitoring, endotraining laboratory.

Inpatients

Total surgical procedures: 650

Elective: 467

Emergencies: 183

Special interest areas

Biliary obstruction: 104
Oesophageal cancer: 19
Ulcerative colitis: 58
Lower GI haemorrhage: 12
Chronic pancreatitis: 9
Pancreato-duodenectomy: 56

Portal hypertension: 33
Carcinoma gall bladder: 66
Upper GI haemorrhage: 10
Acute pancreatitis: 17
Biliary strictures: 11
Liver resections: 28

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor Peush Sahni is President, Indian Association of Surgical Gastroenterology (2017-18); and continues as Chairperson, Education Committee, Indian Association of Surgical Gastroenterology; representative of the World Association of Medical Editors (WAME) at the International Committee of Medical Journal Editors (ICMJE) and as Chair, Membership Committee, WAME; Editor, The National Medical Journal of India and Associate Editor, G.I. Surgery Annual; President, Indian Association of Medical Journal Editors. He is member, Editorial Board of Journal of Gastrointestinal Surgery and Visceral Medicine.

Professor Sujoy Pal was nominated as Founding President of the Liver Transplantation Society of India (Registered) and is the Chief Public Information Officer of the Department of GI Surgery under the RTI Act. Was invited to discuss a Clinic-Pathological Conference at Institute of Liver and Biliary Sciences, 25 January 2018, New Delhi.

Professor Nihar Ranjan Dash was re-elected for the eighth time as President, Indian Ostomy Society; organized the annual meeting of the Indian Ostomy Society, 12 October 2018; organized field visits in Delhi and NCR; wrote articles in Hindi newspapers on various aspects of GI disorders to increase public awareness; reviewer for European Radiology, BMC Surgery, BMC Case Reports and Tropical Gastroenterology; *Chairperson* at Contemporary practices in surgery: Symposium on Thoracic Surgery 2018, 19-21 January 2018, AIIMS, New Delhi, Update on Abdominal MRI, AIIMS Radiology Course Series, 3-4 February 2018, AIIMS, New Delhi, 1st Joint Symposium on Gall Bladder Cancer, 6-7 November 2017, AIIMS, Delhi and liver tumours: Primary and secondary–Dilemmas to decision, 17th Annual International Conference organized by Rajiv Gandhi Cancer Institute and Research Centre, 9-11 February 2018, Rohini, Delhi; Expert for Union Public Service Commission in surgery with specialization in GI surgery, expert for selection of lecturer surgical gastroenterology in Health and Medical Education Department, Jammu and Kashmir; Central Drugs Standard Control Organization (CDSCO), Prashna, India, ICMR gall bladder task force, and selection of faculty at Department of Surgical Gastroenterology, AIIMS, Bhubaneswar; Member, Organizing Committee, CPLD 2017, Interventions in Hepatology, 7-8 October 2017, AIIMS, New Delhi and Web Committee of International Society for Diseases of Esophagus.

9.15. Geriatric Medicine

Professor and Head

A.B. Dey

Assistant Professors

Prashun Chatterjee

Avinash Chakrawarty

N.N. Prem

HIGHLIGHTS

The department organized 15th Annual Conference of Indian Academy of Geriatrics (GERICON 2017) at AIIMS, New Delhi on 16 and 17 December 2017. Dr AB Dey delivered a Keynote Symposium Lecture 21st IAGG World Congress of Gerontology and Geriatrics in San Francisco USA on 24 July 2017. A public awareness programme was organized by the department on “Vaccination in Senior Citizens” on 9 August 2017. The event included a public lecture by Dr Randeep Guleria, Director, AIIMS, followed by interaction with the audience. The department in collaboration with Orthopedics Division of JPNA Trauma Center started the “Ortho-geriatric” service with six dedicated beds, which is first of its kind in India. The department provides the exclusive services of a senior resident to “Ortho-geriatric” from its existing strength.

Dr AB Dey, participated in workshop on mHealth for Ageing at Geneva, Switzerland from 19-21 April 2017, organized by WHO, University of Geneva and International Telecommunication Union and WHO Clinical Consortium on Healthy Ageing, Geneva, Switzerland, 21 and 22 November 2017. Dr AB Dey was appointed as Chairman of Institutional Ethics Committee of DNB Programme of Moolchand Medicity, New Delhi.

EDUCATION

The department continues to be largest post-graduate department of Geriatric Medicine in India with five sessions of postgraduate teaching every week. Under the National Programme for Health Care of the Elderly (NPHCE) seven medical officers from Health Department of Government of Haryana were provided short term training for two weeks in the department. Thirty nurses of AIIMS were provided “half-day” orientation in old age care under NPHCE. Internship training was imparted to twenty eight students of “Three Months Certificate Course on Geriatric Care” from the National Institute of Social Defense, New Delhi, under the Ministry of Social Justice and Empowerment, Government of India. The department provided theory and practical teaching to students of Post Graduate Diploma in Health and Social Gerontology, conducted by Institute of Home Economics, Hauz Khas, and New Delhi under the University of Delhi.

CMEs/Workshops/Symposia/National and International Conferences

Organized by the Department

1. 15th Annual Conference of Indian Academy of Geriatrics, GERICON 2017. Theme—Future of Practice of Geriatric Medicine, 16-17 December 2017, New Delhi

Lectures delivered

A.B. Dey

1. LASI: An innovation to address future health needs of India, 21st IAGG World Congress of Gerontology and Geriatrics IAGG 2017, 25 July 2017, Moscone Center, San Francisco, USA
2. Diabetes in geriatrics: Treat on back foot or front foot, Uttarakhand CARDIABCON 2017, 12 November 2017, AIIMS, Rishikesh
3. LASI: An innovation to address future health needs of India, 15th Annual Conference of Indian Academy of Geriatrics GERICON 2017, 16 December 2017, AIIMS, New Delhi

Prashun Chatterjee

1. Nordic walking training and individualized nutritional supplementation in pre-frail older Indians, 21st IAGG World Congress of Gerontology and Geriatrics IAGG 2017, 26 July 2017, Moscone Center, San Francisco, USA
2. What's new in geriatrics? 15th Annual Conference of Indian Academy of Geriatrics GERICON 2017, 16 December 2017, AIIMS, New Delhi
3. Geriatric health in India: Challenges and opportunities, 18 January 2018, IIM, Ahmedabad

Naganath Narasimhan Prem

1. Urinary incontinence among older Indians: Assessment and impact on quality of life, 21st IAGG World Congress of Gerontology and Geriatrics IAGG 2017, 24 July 2017, Moscone Center, San Francisco, USA
2. Acute hip unit-orthogeriatrics, 15th Annual Conference of Indian Academy of Geriatrics, GERICON 2017, 17 December 2017, AIIMS, New Delhi

Oral papers/posters presented

1. Haldar A. Predicting mortality and hospital revisits in elderly emergency patients: A prospective cohort study, 15th Annual Conference of Indian Academy of Geriatrics-GERICON 2017, 17 December 2017, AIIMS, New Delhi
2. Kumar V. Impact of intergenerational learning among school children, parents and senior citizens, 15th Annual Conference of Indian Academy of Geriatrics-GERICON 2017, 17 December 2017, AIIMS, New Delhi
3. Singh H. Study to develop a predictive design for 1 year post operative mortality following elective surgical procedure, 15th Annual Conference of Indian Academy of Geriatrics-GERICON 2017, 17 December 2017, AIIMS, New Delhi
4. Kumar P. Impact of assistance on the quality of life of older adults with ADL and IADL disabilities, 15th Annual Conference of Indian Academy of Geriatrics-GERICON 2017, 17 December 2017, AIIMS, New Delhi
5. Bandhu K. Evaluation of syncope for cardiovascular causes and its impact on cognitive status, 15th Annual Conference of Indian Academy of Geriatrics-GERICON 2017, 17 December 2017, AIIMS, New Delhi (**Prize winning presentation**)
6. Ambastha AK. Anti-ageing benefits of Ayurveda, 15th Annual Conference of Indian Academy of Geriatrics-GERICON 2017, 17 December 2017, AIIMS, New Delhi
7. Agarwal RM. Physiotherapy intervention in 7 hospitalized elderly, 15th Annual Conference of Indian Academy of Geriatrics-GERICON 2017, 17 December 2017, AIIMS, New Delhi
8. Bansal R. Association of cardiac status and frailty among Indian elderly, 15th Annual Conference of Indian Academy of Geriatrics-GERICON 2017, 17 December 2017, AIIMS, New Delhi
9. Yadav SK. Serum Tau protein as a early biomarker of cognitive impairment in elderly, 15th Annual Conference of Indian Academy of Geriatrics-GERICON 2017, 17 December 2017, AIIMS, New Delhi
10. Singh S. Association of sarcopenia and low calf circumference in Indian elderly population, 15th Annual Conference of Indian Academy of Geriatrics-GERICON 2017, 17 December 2017, AIIMS, New Delhi (**Prize winning presentation**)
11. Singhal S. Association of serum creatinine and Cystatin C with sarcopenia in Indian population, 15th Annual Conference of Indian Academy of Geriatrics-GERICON 2017, 17 December 2017, AIIMS, New Delhi

12. Bajpai S. Looking beyond the cognition in dementia: An innovative method in tertiary care practice, 15th Annual Conference of Indian Academy of Geriatrics-GERICON 2017, 17 December 2017, AIIMS, New Delhi
13. Anwar M. Decline in muscle stem cell population: A plausible cause of frailty, 15th Annual Conference of Indian Academy of Geriatrics-GERICON 2017, 17 December 2017, AIIMS, New Delhi
14. Pradhan R. FOXO3A and SIRT3 as longevity and healthy ageing genes: Serum protein markers and new road map to explode oxidative stress by *Withania Somnifera*, 15th Annual Conference of Indian Academy of Geriatrics-GERICON 2017, 17 December 2017, AIIMS, New Delhi
15. Goswami R. Cross cultural adaptation and psychometric analysis of Knee Injury and Osteoarthritis Outcome Score (KOOS) in Indian population with knee osteoarthritis, 15th Annual Conference of Indian Academy of Geriatrics-GERICON 2017, 16 December 2017, AIIMS, New Delhi (**Prize winning presentation**)
16. Gunasekaran V. AYUSH Rasayana improves fitness and quality of life in older adults, 21st IAGG World Congress of Gerontology and Geriatrics-IAGG 2017, 26 July 2017, Moscone Center, San Francisco (**Prize winning presentation**)
17. Saravanan M. A study of gait and falls in older Indians, 21st IAGG World Congress of Gerontology and Geriatrics-IAGG 2017, 26 July 2017, Moscone Center, San Francisco
18. Banerjee J. Pre-treatment quality of life in older cancer patients: A persistent predictor of survival, 21st IAGG World Congress of Gerontology and Geriatrics-IAGG 2017, 26 July 2017, Moscone Center, San Francisco
19. Desai G. Mobile health initiatives in geriatrics: The needs, attitudes and expectations of older Indians, 21st IAGG World Congress of Gerontology and Geriatrics-IAGG 2017, 26 July 2017, Moscone Center, San Francisco

RESEARCH

Funded projects

Ongoing

1. Development of platform and technical guidelines for application of mobile telephony in old age care (mAging program), A.B. Dey, MoHFW, 1 year, 2016-2018, Rs 8.46 lakhs
2. Harmonized Diagnostic Assessment of Dementia (DAD) for Longitudinal Aging Study of India (LASI), A.B. Dey, NIH (R01), 3 years, 2015-2018, Rs 528.66 lakhs
3. Longitudinal Aging Study of India (LASI), A.B. Dey, MoHFW, 4 years, 2015-2019, Rs 10 lakhs
4. Collaborative multi-centric clinical trial to study the effect of Ayush Rasayana (A&B) on ageing in apparently healthy elderly subjects, A.B. Dey, CCRAS, 3 years, 2014-2017, Rs 36.45 lakhs
5. www.oldagesolutions.org—A web portal for older people and their care givers, A.B. Dey, DST, 3 years, 2014-2017, Rs 33 lakhs
6. Predicting frailty in Indian hospital setting; comparison of three indicators, P Chatterjee, AIIMS, 1 year, 2016-2017, Rs 0.9 lakh
7. A randomized clinical trial on the effect of Laser Therapy treatment on diabetic peripheral neuropathic pain in older adults, P Chatterjee, Lab India Healthcare Limited, 1 year, 2016-2017, Rs 12.23 lakhs
8. Effect of Multimodal Intervention (Diet, Exercise, and Computer Based Cognitive Training) Amongst Elderly Subject with Subjective Cognitive Impairment (SCI) from Delhi and NCR—A Randomised Control Trial, P Chatterjee, DST, 3 years, 2017-2020, Rs 38.52 lakhs
9. Impact of Nordic Walking Training on functional status in the very old: An RCT, A Chakrawarty, AIIMS, 1 year, 2017-2018, Rs 1 lakh

Departmental projects

Ongoing

1. Study of older patients undergoing elective orthopedic procedure in Indian tertiary care hospital
2. Study of cognition in frail older adults
3. Gait and balance assessment in patient attending memory clinic
4. Clinical, biochemical and radiological profile in mild behavior impairment
5. Comprehensive geriatric assessment of older adults attending fragility clinic in a tertiary health care setting in India
6. Evaluation of novel intracellular proteins in serum as marker of aging
7. Study of skeletal muscle regeneration in old age

8. Assessment of autonomic function across frailty status in Indian elderly
9. Randomized Placebo Controlled Trial to assess clinical and immunological efficacy of pneumococcal vaccine in Indian older adults
10. Cardiopulmonary testing in the older Indian adults attending the Geriatric Medicine OPD
11. Development of a new clinical frailty scale in older adults
12. Biomarkers and diagnostic tools of Sarcopenia in Indian older population
13. One carbon metabolism and cognitive impairment in older Indians
14. Establishment of a clinical construct of intrinsic capacity in older adults
15. Estimation of novel proteins among older subjects as biomarkers for cognitive impairment

Completed

1. Study of orthostatic hypotension among older Indians
2. Impact of diabetes and its complications on mental health and quality of life in older people in India
3. Study of TSPO enhanced Pet Scan in evaluation of cognitive impairment in older adults
4. Evaluation of syncope for cardiovascular causes and its impact on cognitive status
5. Study of rheumatoid arthritis in older patients
6. Application of easy-care instruments in detection of geriatric syndromes in older people
7. Cancer in older Indians—Development of an instrument for comprehensive functional assessment and a novel protein marker
8. Assessment of cardiac status in the very old population
9. Assessment of gait and balance in the very old population
10. Quantitative and qualitative study of lower extremity muscle function in older adults
11. Assessment of family care giver needs of older patients requiring long term care

PUBLICATIONS

Journals: 4

Abstracts: 22

Chapters in Books: 2

PATIENT CARE

The department provided OPD service on 6 days a week and once a week afternoon Memory Clinic. During the year, 55,572 (new and revisit) consultations were provided to patients in OPD and 404 (237 new and 167 old) patients were seen in the Memory Clinic. Rehabilitation services from the Day Care Service of the department was provided to 13,960 patients. 1530 patients were admitted in Geriatric Medicine Ward during the year.

AWARDS, HONORS AND SIGNIFICANT EVENTS

Dr Prashun Chatterjee received the Bharat Jyoti Award on 26 March 2018.

VISITING SCIENTISTS

Dr John Hagga, Director, Division of Behavioral and Social Research, National Institute of Ageing, USA.

Dr Mary Ganguli, Professor of Psychiatry, Epidemiology and Neurology, University of Pittsburgh, USA.

Dr Claire McEvoy, Nutritional Epidemiologist and Clinical Dietitian, Global Brain and Health Institute, Belfast, UK visited the Department of Geriatric Medicine while attending the International Advisory Committee Meeting for the NIH funded LASI—DAD Project in February 2018.

9.16. Haematology

Professor and Head

Renu Saxena

Professors

H.P. Pati
M. Mahapatra

S. Tyagi
Tulika Seth

Assistant Professors (contract)

Mukul Agarwal

Rishi Dhawan

Scientist II

S. Sazawal

Suman Lata

Scientist I

Ravi Ranjan

Ravi Kumar

Dr Mukul Agarwal and Dr Rishi Dhawan both joined as Assistant Professor (Contract basis) and Dr Suman Lata joined as Scientist II in the department in 2017.

HIGHLIGHTS

- The Department of Hematology was involved in utilizing cutting edge technology like real time PCR/PCR/flowcytometry for the diagnosis and management of hematological disorders. It was involved in routine diagnosis and management of patients with hematological disorders
- The department continues to perform allogeneic hematopoietic stem cell transplants for aplastic anemia, thalassemia, leukemias and myelodysplastic syndrome, and has also performed Haplo-identical allogeneic and transplants for multiple sclerosis with the Department of Neurology, AIIMS
- The ISHTM-AIIMS external quality assessment programme for hemogram, conducted by Department of Hematology, AIIMS with Dr R Saxena as coordinator, was accredited as PT provider by NABL
- Department of Hematology, with Dr R Saxena as Chief Investigator, was granted the status of Regional Training Centre by International Society of Hemostasis and Thrombosis in collaboration with the Institute of Experimental Hematology and Transfusion Medicine, University Clinic Bonn
- National policy for control of thalassemia and hemoglobinopathies was made by MOH through the endeavours of faculty of the Department of Hematology, AIIMS

EDUCATION

The department continued to conduct DM clinical hematology and DM hemato-pathology courses along with PhD programme.

The faculty continues to take undergraduate classes for hematology and medicine, and clinical case studies for Department of Pediatrics students. It also continues to train the MD pathology students in hematology. The department has provided training in the field of clinical and laboratory hematology to 6 doctors from other institutions for periods varying from 1 month to 2 years. Also 9 MSc students also undertook short-term training hematology for periods varying from 1 to 6 months during this year.

- Department of Hematology organized workshop on “Medical Writing” on 15 July 2017

Lectures delivered

Renu Saxena

1. Current ethical and regulatory requirements for clinical trials or research, Training program at ESIC Medical College, 8-9 August 2017, Faridabad
2. Practical issues in hemophilia care, haemostasis and thrombosis, 25 February 2018, Jodhpur
3. Application of flowcytometry in diagnosis of Hemato-lymphoid malignancies, CME—“Oncopathology—An Update”, 17 March 2018, Faridabad

4. Laboratory approach to platelet function disorders, Coagulation Masterclass-2017, 8-10 September 2017, New Delhi
5. Prenatal diagnosis of haematological disorder, VIth Fetal Medicine Workshop, 8-11 May 2017, AIIMS, New Delhi
6. Auto Immune Haemolytic Anaemia: Diagnostic challenges, HAEMATOCON 2017, 2-5 November 2017, Guwahati
7. Quality assurance in haemostasis laboratories in India—Internal Quality Control and EQAS, 7th Edition of National Haemostasis Update (NHU), 19 and 20 August 2017, Bengaluru
8. Improving diagnosis: How can Government help, Initiative on Hemophilia Care - III, 17 April 2017, New Delhi
9. Diagnosis of hemophilia, Hemophilia Workshop, 17 September 2017, Agra
10. WHO 2016 Classification of Acute Leukemia—What's new? 37th ICON, 15-17 September, Delhi
11. Hemoglobinopathies: Clinical insights and basic science, Symposium on Hemoglobinopathies, 23 March 2018, New Delhi
12. ABC of CBC, Annual Conference of North West Chapter of Indian Association of Pathologists and Microbiologists, 22 April (Saturday) 2017, Jammu
13. Thalassemia intermedia in India: Genotypic phenotypic correlations, 11th Annual Sickle Cell Disease and Thalassemia Conference (ASCAT) 2017, 11-13 October 2017, London
14. WHO 2016 Classification of Acute Leukemia: What's new? National Update in Hemato-Pathology, 4-6 August 2017, Mumbai
15. Diagnostic challenges and challenges in follow up of MGUS and SMM in India, Indian Myeloma Congress, 9 (Friday) to 11 February (Sunday) 2018, New Delhi
16. Laboratories: Striving towards excellence amidst challenges and opportunities, 7th National Conclave for Laboratories, 23-24 January 2018, Ahmedabad
17. ISHTM-AIIMS-EQAP, Two Days Conclave on Proficiency Testing Providers (PTP), 30-31 August 2017, Delhi
18. The diagnostic laboratory—Role in management, National Haemophilia Care Meeting, 3 February 2018, New Delhi
19. Ethical issues in clinical trials, 4th Biennial Conference of PAi and International Symposium, 16 and 17 February 2018, New Delhi
20. Diagnosis of hemophilia and inhibitors, National Update and CME on Hemostasis, 17 March 2018, Lucknow
21. Lab approach to bleeding disorders, UPPATHCON 2017, 28 and 29 October 2017, Lucknow
22. Diagnosis of bleeding disorders and factor VIII inhibitors, Prevention and Management of Haemoglobinopathies and Hemophilia on at Bengaluru, 1 and 2 February 2018, Bengaluru

H.P. Pati

1. Myelodysplastic syndrome: Spectrum and flowcytometry, 79th Annual Meeting of the Japanese Society of Haematology, 20-22 October 2017, Tokyo
2. MDS/MPN: Progress of basic and clinical research, 79th Annual Meeting of the Japanese Society of Haematology (JSH), 20-22 October 2017, Tokyo
3. MDS: Diagnostic challenges, 58th Annual Conference of Indian Society of Hematology and Blood Transfusion HAEMATOCON 2017, 3-5 November 2017, Guwahati
4. Review process and writing abstract, 58th Annual Conference of Indian Society of Hematology and Blood Transfusion HAEMATOCON 2017, 3-5 November 2017, Guwahati

Seema Tyagi

1. Flowcytometry of red cells and platelet disorders, National Update in Hemato-Pathology, 4-6 August 2017, Mumbai, Maharashtra
2. Flowcytometry in CLPD, 58th Annual Conference of Indian Society of Hematology and Blood Transfusion 2017, 2 November 2017, Guwahati, Assam
3. MDS-Morphological Diagnosis, 66th APCON, 8-10 December 2017, Bhopal, MP
4. Early T Cell Precursor Acute Lymphoblastic Leukemias (ETP-ALL): Immunophenotypic analysis and clinical follow-up, 3 IORLH 2017 Congress, 18-19 June 2017, Singapore

Tulika Seth

1. Basics of thalassemia and management of complications in patients with thalassemia major, Master trainer, Directorate General Health Dehradun, 17-18 April 2017, Dehradun, Uttarakhand

2. Panel Discussion—Dilemmas in Thrombosis in Children, 4th Midterm CME, PHO Chapter IAP, 2 July 2017, IHC, New Delhi
3. Inhibitors and alternatives, 7th National Haemostasis Update-2017, 19 August 2017, Taj Vivanta Yeswantpur, Bengaluru, Karnataka
4. Moderator, Panel discussion treatment of mantle cell lymphoma in the elderly, 37th ICON, 16 September 2017, Aerocity, New Delhi
5. Current options for management of MCL in elderly, 37th ICON, 16 September 2017, Aerocity, New Delhi
6. Inhibitor management in hemophilia and HEMATOCON 58th Annual Conference of the Indian Society of the Haematology and Blood Transfusion (ISHBT), 4 November 2017, Guwahati, Assam
7. CML TFR studies, HEMATOCON 58th Annual Conference of the Indian Society of the Haematology and Blood Transfusion (ISHBT), 4 November 2017, Guwahati, Assam
8. Pharmacological manipulation of the hemoglobin A>F switch: Potential for new therapies in transfusion-dependent thalassemia, SAARC Conference on Prevention and Management of Haemoglobinopathies and Hemophilia, 1-2 February 2018, Bengaluru, Karnataka
9. Science and tech in medicine, 1st Symposium on Emerging Areas in Biosciences and Biomedical Technologies eBBT 2018, 5 January 2018, IIT Indore, Indore, MP
10. Management of thrombotic, 1st Hemostasis Conference, 25 February 2018, AIIMS Jodhpur, Jodhpur, Rajasthan
11. Pediatric palliative care, 17th Annual Conference on Palliative Care, Cansupport and IRCH, AIIMS, 15 April 2018, AIIMS Auditorium, New Delhi
12. Is good hemophilia care cost effective? Initiative on Hemophilia Care III, 17 April 2017, India International Center, New Delhi
13. ITP current strategies, chaired meeting with Adrian Neufield, ITP update, 22 April 2017, New Delhi
14. Early and durable molecular response: Significance to treatment duration, Deep Molecular Response in CML, 27 April 2017, New Delhi
15. Update in management of immune thrombocytopenia Panel discussion on MPN, Updates in Hematology, 31 May 2017, Jaipur, Rajasthan
16. Expert meeting discussion on CML Updates, Tassigna TFR UPDATE, 20 June 2017, New Delhi
17. Panel discussion moving from on demand to prophylaxis moderator - Dr Tulika Seth;Panellists - Dr Naresh Gupta, Dr Uday Y, Dr Pravas Mishra, Dr Nita Radhakrisnan;Evolution of haemophilia care in India: Setting the direction, 1 July 2017, Taj Ambassador, New Delhi
18. Special scenario in transfusion medicine, Pediatric Transfusion Medicine, 6 August 2018, SSPH-PGTM, Super-Specialty Pediatric Hospital, Sector 30, NOIDA, UP
19. Training program for hemoglobinopathies, RBSK Hemoglobinopathies Program, 28-31 August 2017, District Health Center, Ranchi, Jharkand
20. Good hemophilia therapy and its benefits, RTM Hemophilia, Rajasthan State Doctors, 2 September 2017, Jaipur
21. Debate TBI is simple, useful and efficient (against), Big Debates in Radiation Oncology, 16 September 2017, Fortis Memorial Research Institute, Gurgaon, Haryana
22. ITP and nutritional anemias, IAP Consensus Meeting, 7 October 2017, Sir Ganga Ram Hospital, New Delhi
23. Hemophilia patient joint assessment, physiotherapy and surgical interventions, Workshop in Conjunction with Orthopedics Department Professor Bhavuk and Physiotherapy Department, 7 October 2017, Hematology Seminar Room, AIIMS, New Delhi
24. Inhibitors and panel discussion, Gujarat Hemophilia Conclave, 7 November 2017, AMA Hall, J B Auditorium, Ahmedabad, Gujarat
25. Management of inhibitors in PWH: Challenges and opportunities, Hemophilia Management to Improve Patient Outcomes, 11 November 2017, Aerocity, New Delhi
26. Palliative care nutrition, Pediatric Palliative Care Conference 2017, Workshop, 6 November 2017 IRCH, Seminar Room, New Delhi
27. Quality Standards of Pediatric Palliative Care National Consultative on Pain and Palliative Care in Pediatrics, 3 December 2017, Gurgaon
28. Emerging therapies in hemophilia-global scenario, Delhi State Hemophilia Meeting 2018, 20 January 2018, India International Center, New Delhi
29. Pharmacological manipulation of the hemoglobin A>F switch: Potential for new therapies in transfusion-dependent thalassemia, SAARC Conference on Prevention and Management of Haemoglobinopathies and Hemophilia, 1-2 February 2018, Bengaluru, Karnataka

30. Car T cell debate, for the topic, 14TH ISCTG Meeting, 9-10 March 2018, CMC, Vellore, Tamil Nadu
31. Saving the spleen, 41st Annual Conference, Mumbai Hematology Group, 16-18 March 2018, Mumbai
32. Panel discussion HSCT in thalassaemia patients, 41st Annual Conference, Mumbai Hematology Group, 16-18 March 2018, Mumbai
33. Panel discussion on newer advances and challenges of inhibitors in hemophilia patients, 41st Annual Conference, Mumbai Hematology Group, 16-18 March 2018, Mumbai
34. Resource person and faculty workshop CEU evidence based medicine, 31 March and 1 April, Ramalinga Swami Board Room, AIIMS, New Delhi

M. Mahapatra

1. Cytopenia in Indian CLL patients: Is it always advanced disease XVII International Workshop on Chronic Lymphocytic Leukemia (iwCLL2017), 12-15 May 2017, Times Square Marriott, New York, USA
2. Clinico-hematological profile and prognostic values of different biological factors in chronic lymphocytic leukemia: A single institute experience from northern India: XVII International workshop on Chronic Lymphocytic Leukemia (iwCLL2017), 12-15 May 2017, New York, USA
3. Invasive fungal infections in neutropenic patients, 58th Annual Conference of Indian Society of Hematology and Blood Transfusion (HEMATOCON 2017), 2-5 November 2017, Guwahati
4. Aplastic anemia: State of art, XXVIII Annual conference of Delhi Chapter of API, 18-19 November 2017, New Delhi
5. Aplastic anemia: Recent trends on diagnosis and management, 2nd Annual Conference of Bengal Society of Hematology, 16-17 December 2017, Kolkata
6. Aplastic anemia: Case based panel discussion, 2nd Annual Conference of Bengal Society of Hematology, 16-17 December 2017, Kolkata
7. Factor replacement therapy: When and how? SAARC Countries Workshop on Prevention and Management of Hemoglobinopathies and Hemophilia, 1-2 February 2018, Bengaluru
8. Management of disease complications in multiple myeloma: Panel discussion, Indian Myeloma Congress, 9-11 February 2018, New Delhi
9. Role of interim PET-scan in early stage lymphoma, 3rd EHA-ISHBT Tutorial-2018, 16-18 February 2018, Lucknow

Oral papers/posters presented

1. Mishra P, Sazawal S, Juneja R, Mahapatra M, Saxena R. Spectrum of hematological abnormalities in 'Idiopathic EHPVO' patients evaluated at a Tertiary Care Centre, DSH 28th Annual Conference, 10 December 2017, New Delhi
2. Karthika KV, Chauhan R, Harankhedkar S, Mahapatra M, Tyagi S, Pati HP, Saxena R. Diagnostic spectrum of bleeding diathesis in patients presenting only with epistaxis, DSH 28th Annual Conference, 10 December 2017, New Delhi
3. Harankhedkar S, Chauhan R, Karthika KV, Sazawal S, Mahapatra M, Saxena R. Bleeding diathesis due to acquired platelet function defect in chronic myeloid leukemia: A report of two cases, DSH 28th Annual Conference, 10 December 2017, New Delhi
4. Ragesh R, Seth T, Mahapatra M, Saxena R, Jineesh V. Impact of infection prior to the initiation of induction chemotherapy on induction outcomes in patients with newly diagnosed acute leukemia in a tertiary centre hospital in India, 22nd Congress of the European Hematology Association, 22-25 June 2017, Madrid, Spain
5. Tripathi P, Pati HP, Saxena R. Diagnosis of hemoglobinopathies by capillary zone electrophoresis: Experience with 925 cases, 22nd Congress of the European Hematology Association, 22-25 June 2017, Madrid, Spain
6. Sharma A, Kishor K, Hareram, Singh K, Kumar V, Seth T, Mahapatra M, Saxena R. Validation of inhibitor development prediction scoring system for hemophilia A, 58th Annual Conference of the Indian Society of Haematology and Blood Transfusion (ISHBT)—HAEMATOCN 2017, 2-5 November 2017, Guwahati, Assam
7. Kocheri N, Tyagi S, Pati H, Mahapatra M, Saxena R. A clinicohematological profile of Hemophagocytic Lymphohistiocytosis (Hlh)—A case series, 58th Annual Conference of the Indian Society of Haematology and Blood Transfusion (ISHBT)—HAEMATOCN 2017, 2-5 November 2017, Guwahati, Assam
8. Chaubey R, Sazawal S, Mahapatra M, Chikkara S, Singh K, Saxena R. Effect of the epigenetic regulators (JAK2 and IDH-2) on the methylation status of tumor suppressor genes (p15, FHIT, Calcitonin and SOCS-1) and prognosis of MDS patients: A study from India, 58th Annual Conference of the Indian Society of Haematology and Blood Transfusion (ISHBT)—HAEMATOCN 2017, 2-5 November 2017, Guwahati, Assam

9. Deka R, Pati HP, Tyagi S, Saxena R. Evaluation of a single tube flow cytometric method using five antibodies including cd157 in the detection of pnh clone, 58th Annual Conference of the Indian Society of Haematology and Blood Transfusion (ISHBT)—HAEMATOCAN 2017, 2-5 November 2017, Guwahati, Assam
10. Saxena R, Kumar R, Sazawal S, Mahapatra M. Molecular parameter affecting biology of CLL in Indian Sub Continent: Analysis of 100 cases, 58th Annual Conference of the Indian Society of Haematology and Blood Transfusion (ISHBT)—HAEMATOCAN 2017, 2-5 November 2017, Guwahati, Assam
11. Saxena R, Kishor K, Sharma A, Ranjan R, Mishra P, Mahapatra M. Tissue factor pathway inhibitor polymorphism 399C>T predisposes to idiopathic DVT, XXVI Congress of the International Society on Thrombosis and Haemostasis and 63rd Annual Scientific and Standardization Committee (SSC) Meeting, 8-13 July 2017, Berlin, Germany
12. Sharma A, Bhakuni T, Biswas A, Ranjan R, Kishor K, Oldenburg J, Saxena R. The association of Arg485Lys polymorphism with FV levels, APC ratio and its role in DVT: A study from India, XXVI Congress of the International Society on Thrombosis and Haemostasis and 63rd Annual Scientific and Standardization Committee (SSC) Meeting, 8-13 July 2017, Berlin, Germany
13. Albert V, Arulselvi S, Pati HP, Agrawal D. Can early circulating platelet and endothelial microparticles be a prognostic marker for Trauma Induced Coagulopathy (TIC) and mortality in isolated Severe Traumatic Brain Injury (iSTBI)? Indian Ocean Rim Laboratory Haematology Congress, 18-19 June 2017, Singapore
14. Albert V, Arulselvi S, Pati HP, Agrawal D, Mukhopadhyay AK. Study of circulating microparticles (platelet, endothelium derived and tissue factor bearing) in traumatic brain injury and its correlation with TBI-associated coagulopathy and mortality, IJHBT 33 (suppl 1), 58th Annual Conference of Indian Society of Hematology and Blood Transfusion (ISHBT) 2-6 November 2017, Guwahati, Assam, India
15. Albert V, Arulselvi S, Pati HP, Agrawal D, Mukhopadhyay AK. Study of hyperfibrinolysis in acute Traumatic Brain Injury (TBI) patients using Thromboelastography (TEG) and its correlation with coagulation markers (activation, inhibition, thrombin generation and fibrinolysis), 58th Annual Conference of Indian Society of Hematology and Blood Transfusion (ISHBT), 2-5 November 2017, Guwahati, Assam, India
16. Albert V, Arulselvi S, Pati HP, Agrawal D, Mukhopadhyay AK. Hyperfibrinolysis in isolated Severe Traumatic Brain Injury (iSTBI) patients: Prospective study, Neurotrauma 2017, 26th Annual Conference of Neurotrauma Society of India, 11-13 August 2017, Ooty
17. Albert V, Arulselvi S, Pati HP, Agrawal D, Mukhopadhyay AK. Acute inflammatory response in traumatic brain injury and association with early trauma induced coagulopathy, Neurotrauma 2017, 26th Annual Conference of Neurotrauma Society of India, 11-13 August 2017, Ooty
18. Tyagi S, Singh J. Detection of early T cell precursor leukemia subset by FCM in T cell ALL and their clinical follow-up, D01, CYTO Asia, 25-27 October 2017, Singapore

RESEARCH

Funded projects

Ongoing

1. Socio-Ecological Impact and Tribal Health: A Study on Epidemiological Diversity of Thalassemia Mutations among Tribes in India and Impact of Socio-Ecological Influences, Renu Saxena, DST, 3 years, 2017-2020, Rs 4.38 lakhs per year
2. Patho-physiology of thrombocytopenia in dengue infection, Tulika Seth, DBT, 2 years, 2015-2017, Rs 71.35 lakhs
3. Incidence of invasive fungal infection in patients undergoing chemotherapy for acute myeloid leukemia—Impact of antifungal prophylaxis, A prospective, multicenter, observational study in India, Tulika Seth, MERCK-CMC Vellore, 2 years, 2015-2017, Rs 5.94 lakhs

Completed

1. Role of modulating factors on phenotype of sickle cell disease, R. Saxena, DST, 3 years, 2013-2016, Rs 24.32 lakhs
2. Open label single arm multicentric study evaluating the safety and efficacy of intranasal methycobalamin in the treatment and maintenance therapy of vitamin B12 deficiency, Tulika Seth, Troikaa Pharmaceuticals, 1 year, 2016-17, Rs 1.35 lakhs
3. Prothrombotic role of extracellular hemoglobin, Tulika Seth, DBT, 1 year, 2016-17, Rs 99.69 lakhs
4. Immune tolerance induction, by Factor VIII concentrate containing von Willebrand factor, in severe or moderate haemophilia A patients with inhibitors, Tulika Seth, IRCCS Fondazione Ca' Granda Ospedale Maggiore Policlinico, 2 years, 2015-17, Rs 3.29 lakhs and free drugs

Departmental projects

Ongoing

1. To compare the molecular response and long term outcomes in CML-CP patients treated with Nilotinib initially followed by Imatinib, compared to treatment with Imatinib alone
2. Immunohistochemistry as a tool to detect calreticulin mutation in patients of primary myelofibrosis and essential thrombocythemia and its comparison with PCR
3. To assess the utility of labile plasma iron assays in thalassemia major patients
4. Role of endothelial protein C receptor in the development of DVT in India
5. Socio-economical impact and tribal thalassemia mutations among tribes in India and impact of socio ecological influences
6. Understanding the molecular basis of Imatinib resistance in Indian chronic myeloid leukemia patients
7. Evaluate the role of tissue factor and tissue factor pathway inhibitor gene polymorphism in the pathogenesis of deep vein thrombosis in India
8. Evaluation of 'AML Maturity Score' as a marker of prognosis in patients with acute myeloid leukemia by quantitative immune-phenotyping by flow cytometry
9. Study of bone marrow lymphocyte subset in acute myeloid leukemia

Completed

1. Causative factors of activated protein C resistance in Indian thrombotic population
2. Interplay of intrinsic drug resistance molecules and post induction minimal residual disease in the prognostication of Indian B-lineage acute lymphoblastic leukemia patients
3. Elucidation of underlying molecular mechanisms of Gleevec resistance in Indian CML patients
4. To evaluate the comparative response of initial three months of treatment with Imatinib versus Nilotinib in chronic myeloid leukemia
5. Significance and comparison of Lupus Anticoagulant Assays (aPTT-LA, KCT, dPT and dRVVT (Screen)) in High Risk Pregnancy Clinics
6. Evaluation of CD55/CD59/CD66b/CD16 viz-a- viz CD55/CD59 in diagnosis of paroxysmal nocturnal hemoglobinuria
7. To study the causes of secondary immune thrombocytopenia and response to treatment in these patients
8. Comparison of erythrocyte osmotic fragility by flow cytometry and conventional method in hereditary spherocytosis
9. Role of epigenetics in the pathogenesis of myelodysplastic syndromes in Indian patients

Collaborative projects

Ongoing

1. Epidemiology and prognostic utility of cellular components of hematological system in sepsis, Anaesthesia
2. Randomized control trial to evaluate safety and efficacy of intra vitreal injection of autologous bone marrow derived stem cells in acute cases of ischaemic central retinal vein occlusion, RP Centre
3. A population based prospective cohort study to unravel the causes of stroke and cognitive decline: A cross cultural perspective, DBT International Co-Operation Division, AIIMS and Erasmus Medical Center Rotterdam, Netherlands, Clinical Epidemiology Unit, AIIMS
4. Ocular GVHD in post allogeneic HSCT patients, RP Centre
5. HLA G in allogeneic HSCT patients, transplantation immunology and immunogenetics effect of telomerase MM, Biochemistry
6. To study the association of mycobacterium tuberculosis with pancytopenia, Medicine and Microbiology
7. Standardization of voriconazole levels for pediatric hematology patients, Microbiology

Completed

1. Study of Philadelphia chromosome negative myeloproliferative neoplasms, IRCH
2. Study to determine the association between pancytopenia and tuberculosis, Medicine
3. Minimal residual disease in multiple myeloma, IRCH
4. Role of gene interaction involving haemostatic factors in the development of acute myocardial infarction and stable angina, Cardiology

PUBLICATIONS

Journals: 27

Abstracts: 15

Chapters in Books: 4

PATIENT CARE

1) Facilities of the department:

Laboratories of Department of hematology have state of art facilities of following:

- Bone marrow aspirate, bone marrow biopsies and peripheral smears
- Immunohistochemistry
- Molecular genetics
- Hemolytic anemia workup
- Flow cytometry
- Capillary electrophoresis for hemoglobinopathies
- Coagulation workup for inherited and acquired bleeding disorders
- Platelet aggregometry
- Thrombophilia workup
- Prenatal diagnosis of Hemophilia and hemoglobinopathies

Clinical Services

(a) OPD runs all 6 days:

1. Monday: Hemato-oncology
2. Tuesday: Transplant Clinic
3. Wednesday: Hemolytic anemias and ITP
4. Thursday: Coagulation and Bleeding Clinic
5. Friday: Bone marrow failure
6. Saturday: Leukemia Survivor Clinic

(b) In Patient care:

1. Inpatients: C2, C6, D6, Emergency Ward, Private Wards
2. Stem cell transplant: 4 new allogenic transplants per month
3. Hematology Day Care:

2) Community services

The department has been active in the area of thalassemia and hemophilia awareness at both community sensitization programmes, and public forums at AIIMS and with the thalassemia and Hemophilia Society. The new disability bill included inputs from the department faculty.

Professor Tulika Seth was invited by the thalassemia patient society in Bareilly to organize a health awareness camp and discuss with families and local treating doctors about the advances in thalassemia patient care and monitoring. This was at two venues the DEIC center and the district hospital blood bank on 15 November 2017.

She was also invited by the hemophilia patients association to have a talk with families and patients. This was an awareness program and Q and A session for families. Conducted at Ashtan Sarovar Portico, New Delhi on 12 August 2017.

The department conducted ISHTM—AIIMS external quality assessment programme for hemogram for 2000 labs across India under Dr R. Saxena as coordinator.

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor Renu Saxena continued to be member of expert committee meeting on INSPIRE fellowship, DST; Member of Programme Advisory Committee for health Sciences, DST; Member of Taskforce on Human Genetics and Genome Analysis, DBT; Member of New Drug Advisory Committee for Hematology and Oncology, DCGI; Member of Medical Device Advisory Committee, DCGI; Medical advisor Haemophilic Federation of India; Expert member, NABL (DST) Accreditation Committee for PT provider; Chairman - Ethics Committee, ICMR Campus; Member Ethics Committee, IIT Delhi; Coordinator Indian Society of Hematology and Transfusion Medicine—AIIMS EQAP Program.

Professor M. Mahapatra was honorary secretary of Indian Society of Hematology and Blood Transfusion (ISHBT) and received prestigious K.L. Wig Oration Award from Association of Physicians of India (Delhi Chapter) in November 2017.

Professor Tulika Seth was member, Project Review Committee - ICMR; Member Ethics Committee, Delhi University South Campus, AYUSH, NICPR; Member Secretary Ethics Committee, CANSUPPORT; Chair INPOG CML Subcommittee.

VISITING SCIENTIST

1. Dr Rajat Kumar, University of Manitoba, Canada
2. Sham Mailankody, Memorial Sloan Kettering Cancer Center, 1275 York Ave, NY 10065
3. Dr Arijit Biswas, Institute of Experimental Hematology and Transfusion Medicine, University Clinic of Bonn, Germany
4. Professor Adrian Charles Newland from London, UK
5. Dr Jan Blatny, University of Brno, Czech Republic
6. Dr M. Onizuka, Ishehara, Japan
7. Professor A. Koneti Rao, Professor of Medicine, Director, Lewis Katz School of Medicine at Temple University, Philadelphia, USA.

9.17. Hospital Administration

Professor and Head

Sidhartha Satpathy

Medical Superintendent, Dr R.P. Centre for Ophthalmic Sciences

Shakti Kumar Gupta

Medical Superintendent, Main Hospital

D.K. Sharma

Professor

I.B. Singh

Sanjay Arya

Aarti Vij

Associate Professors

Nirupam Madaan

Anoop Daga

Amit Lathwal

Mahesh R

Assistant Professors

Angel Rajan Singh

Vijaydeep Siddharth

Parmeshwar Kumar

Kanika Jain

Abdul Hakim

HIGHLIGHTS

The department is running a postgraduate degree programme for medical graduates, viz. MD (Hospital Administration) from January 2016. The course was MHA (Masters in Hospital Administration) which has been discontinued after its 51st year since inception. This course was started in February 1966, for the first time in India and has since been recognized as a distinct postgraduate discipline. The Residency Programme in Hospital Administration focuses on 'hands on' training, where Resident Administrators man the 'Administrative Control Room' of hospital, round the clock as 'Duty Officers', and coordinate all the hospital activities after duty hours. It is also the 'nerve centre' of the hospital for all administrative activities, beyond "duty hours".

Faculty members conducted/took lectures in several management development training programmes for the doctors working in various organizations including Central, State Governments, Paramilitary Forces and in various PSUs such as IICM, Ranchi and also private sector management institutes.

EDUCATION

Short and Long Term Training

1. Nine medical students of Yenopoya Medical College University—Study visit for 6 days
2. Two students of MD (HA) students of Sher-I-Kashmir Institute of Medical Sciences, Srinagar
3. Two doctors from ITBP for 2 weeks training program
4. One PG certificate in Healthcare Management student from IIM, Calcutta
5. Six students of MBA—Hospital Administration from Mahatma Gandhi University (MGU), Kottayam, Kerala (18 March 2017 to 7 April 2017)

CONTINUING MEDICAL EDUCATION

Organized by Department

1. Legal and ethical challenges in Healthcare Ecosystem, 18-20 May 2017, Manekshaw Convention Centre, New Delhi
2. 15th Healthcare Executive Management Development Program (HxMDP), 18-24 February 2018, Agra
3. Poster competition and CME on Bio-Medical Waste Management and Hospital Infection Control at AIIMS in collaboration with Nursing at Dr BRAIRCH, 27 January 2018, CMET, AIIMS, New Delhi

Lectures delivered

Sidhartha Satpathy

1. Ethical issues in Medicine, Strategic Management Programme for Chief Medical Directors of Indian Railways, 14 June 2017, National Institute of Indian Railways, Vadodra, Gujarat
2. Clinical audit—A quality tool, Senior professional course for SrAdmn Grade Officers of IRMS, 26 October 2017, National Institute of Indian Railways, Vadodra, Gujarat
3. Organization related chapters in NABH standards—5 lectures, Quality Management and Accreditation of Healthcare Organization Course, 15 November 2017, AHA House, NOIDA, UP
4. Organizational behavior laboratory and hospital management topics-6 lectures, Training program on hospital management and administration for MS and GDMOs of Coal India Hospitals, 22-25 January 2018, Indian Institute of Coal Management, Ranchi, Jharkhand
5. Consumer Protection Act in hospitals and OB laboratory, Hospital Executive Management Development Program (HxMDP), 18-19 February 2018, Convention Center, Agra, UP
6. Patient care related chapters in NABH standards—5 lectures, Quality Management and Accreditation of Healthcare Organization Course, 21 March 2018, Convention Hall, Ahmedabad, Gujarat
7. IMC Act, Code of Medical Ethics, Mental Health Act, CPA, Medical negligence cases—5 lectures, Post Graduate Diploma in Health and Law by Academy of Hospital Administration, 22 March 2018, Ahmedabad, Gujarat

Shakti Kumar Gupta

1. Speaker in International Conference on Best Practices in Health Care—Management, 8 and 9 March 2018, Bengaluru
2. Quality and patient safety in healthcare institutions—An inescapable necessity, Delivered lecture in 3rd International Conference on Medical and Health Sciences-2017 organized by Khesar Gyalpo University of Medical Sciences of Bhutan (KGUMSB), 3-5 November 2017, Thimpu, Bhutan
3. On creating culture of CQI—Role of leadership, 28 March 2018, AIIMS, New Delhi
4. Panelist and moderator, Discussion on Violence against Healthcare Professionals, 17 March 2018, Indian Institute of Public Administration J&K Regional Branch, Jammu
5. Panelist in the discussion of Universal Health Coverage, 16 March 2018, 5th Nat Health Annual Event NATE-2018, New Delhi
6. Inspiring story of AIIMS, New Delhi, Six Sigma Healthcare Summit 2017—Leaders Who Inspire Healthcare, 23 December 2017, New Delhi
7. Moderator, Future of healthcare—GenNext, National conference on Recent Advances and Future Trends in Healthcare (RAFTHCON), Sher-I-Kashmir Institute of Medical Sciences (SKIMS), 13-15 October 2017, Sher-I-Kashmir International Convention Centre (SKICC), Srinagar, Jammu and Kashmir

8. Quality and patient safety in Healthcare Institutions—Errors in Emergency Department, National conference on Recent Advances and Future Trends in Healthcare (RAFTHCON), Sher-I-Kashmir Institute of Medical Sciences (SKIMS), 13-15 October 2017, Sher-I-Kashmir International Convention Centre (SKICC), Srinagar, Jammu and Kashmir
9. Innovations and entrepreneurship in Healthcare: Way forward, Chief Guest at National conference on Hospital and Healthcare Administration (HEAL-2017), 6 and 7 October 2017, Baby Memorial Hospital, Kozhikode (Calicut)
10. Quality and patient care safety—Errors in Emergency Rooms, 2nd Annual Max Healthcare Patient Safety Conference on “Building the Future for Patient Safety”, Max Healthcare, 22-23 September 2017, New Delhi
11. Patient safety—The evolution and its role in modern medicine, 4th Annual Northeast Healthcare Summit organized by Alaphra Group, 14-16 September 2017, Guwahati, Assam
12. Planning and designing a patient safe hospital, 4th Annual Northeast Healthcare Summit organized by Alaphra Group, 14-16 September 2017, Guwahati, Assam
13. Key resource person, Unlocking India’s Potential in Biomedical Science and Innovation to Improve Health Care in India and for the World: A Multi-Stakeholder Roundtable, Convened by PSM India in collaboration with the Partnership to Fight Chronic Disease (PFCDD) and the Indian Alliance of Patient Groups (IAPG), 4 August 2017, India International Center, New Delhi
14. Status of accident and emergency services in India: The road ahead, 2nd J&K Medical Science Congress and 1st Annual Conference of Metabolic Syndrome Pre-diabetes Polycystic Ovary Syndrome Society (MP PCOS CON 2017) organized by Sher-I-Kashmir Institute of Medical Sciences (SKIMS), 10-13 May 2017, Sher-I-Kashmir International Convention Centre (SKICC), Srinagar
15. Best Procurement Practices, Workshop on e-procurement and drug, Vaccine Distribution and Management System (e-Anshadhi) organized by Jammu and Kashmir Medical Supplies Corporation Limited (JKMSCL), 20 April 2017, Jammu

D.K. Sharma

1. Hospital operations management, Healthcare Management Development Programmes (HxMDP), Resource Faculty invited by Department of Hospital Administration, AIIMS at Agra (UP), 22 February 2018, AIIMS, Agra, UP
2. Guest of Honour address, “3rd Healthcare Sabha” organized by Express Healthcare, The Indian Express at Pune, 8 and 9 March 2018, Pune
3. Healthcare delivery system in India, 2nd Joint Working Group Meeting on Health between India and Japan at Tokyo, 25-26 April 2017, Tokyo, Japan

Nirupam Madaan

1. Procurement of medicines, CME on Contract Management, 16 May 2017, Indian Institute of Coal Management, Ranchi
2. Negligence in medical practice, Conclave on Legal and Ethical Challenges in the Healthcare System, 18 May 2017, Manekshaw Convention Centre, New Delhi
3. Procurement procedures for hospitals, Healthcare Executive Management Development Program, 10 October 2017, Sanjay Gandhi Post Graduate Institute (SGPGI), Lucknow
4. Hospital planning and design: The reality of India, Conference on Recent Advances and Future Trends in Healthcare (RAFTHNCON-2017), 13-15 October 2017, SKICC, Sher-I-Kashmir Institute of Medical Sciences, Srinagar
5. Ethical and legal issues related to the management of nursing care, Program on Hospital Administration, 21 February 2018, Academy of Hospital Administration, NOIDA, UP
6. Disaster management—Role of nursing services, Program on Hospital Administration, 21 February 2018, Academy of Hospital Administration, NOIDA, UP
7. Administrative issues in hospital-I, Training programme on Hospital Management and Administration for Medical Superintendents GDMOs, 27 January 2018, IICM, Ranchi
8. Service rules and disciplinary proceedings, Training programme on Hospital Management and Administration for Medical Superintendents GDMOs, 27 January 2018, IICM, Ranchi
9. Consumer Protection Act in hospitals, Training programme on Hospital Management and Administration for Medical Superintendents GDMOs, 29 January 2018, IICM, Ranchi
10. Patient rights and responsibilities, Training programme on Hospital Management and Administration for Medical Superintendents GDMOs, 29 January 2018, IICM, Ranchi

Amit Lathwal

1. Six lectures on hospital management topics, Training programme on Hospital Management and Administration for Medical Superintendent GDMOs, 27-29 January 2018, IICM, Ranchi

Anoop Daga

1. Panelist on “Regulatory Councils of Medical, Dental and Nursing Profession: How to bridge the demand supply mismatch of professionals”, Conclave on “Legal and Ethical Challenges in Healthcare Ecosystem”, 20 May 2017, Organized by Research Foundation for Hospital and Health Care Administration, New Delhi
2. A perspective on “Healthcare Textiles: Issues, Challenges and Quality Standards Requirement”, National conclave on Standards on Technical Textiles, 3 November 2017, Organized by FICCI, BIS and Ministry of Textiles, Government of India at New Delhi
3. Hospital Support Services (6 lectures), Management development programme on Hospital Administration for Medical Officers, 5-8 February 2018, Indian Institute of Coal Management, Ranchi, Jharkhand
4. Lectures on various topics of ‘Quality in Hospital Services’, Contact programme on “Nursing Care Administration and Quality Management” for Government of Gujarat, 18 February 2018, Organized by Academy of Hospital Administration, NOIDA at Ahmedabad, Gujarat
5. Lectures on various topics of ‘Quality in Hospital Support Services’, Contact programme of PGQM&AHO for Gujarat Government, 25 March 2018, Organized by Academy of Hospital Administration, NOIDA at Ahmedabad, Gujarat
6. Panelist on ‘Spreading QI in institution–Value of Leadership’, ‘Leadership in Quality Improvement and Capacity Building’ Workshop cum Consultation, 28 March 2018, Organized by Department of Pediatrics, AIIMS

Mahesh R.

1. End of life decisions, Legal and Ethical Challenges in Healthcare Ecosystem, 18-20 May 2017, Manekshaw Convention Centre, New Delhi
2. Code of medical ethics, Special programme on Hospital Management and Administration for Medical Superintendents, GDMO’s of Coal India Ltd, 5-8 February 2018, Indian Institute of Coal Management, Ranchi, Jharkhand
3. Management of change, Training programme on Hospital Management and Administration for Medical Superintendents GDMOs, 5-8 February 2018, IICM, Ranchi
4. Grievance redressal, Training programme on Hospital Management and Administration for Medical Superintendents GDMOs, 5-8 February 2018, Hospital Engineering Services, 5-8 February 2018, IICM, Ranchi
5. Leadership in hospitals, Training programme on Hospital Management and Administration for Medical Superintendents GDMOs, 5-8 February 2018, IICM, Ranchi
6. Planning and quality needs in hospital dietetic services, Training programme on Hospital Management and Administration for Medical Superintendents GDMOs, 5-8 February 2018, IICM, Ranchi
7. Planning and quality needs in OPD, Accident and Emergency Services, Quality Management and Accreditation of Health Care Organization [QM&AHO] Programme, 16 March 2018, Academy of Hospital Administration, NOIDA, Uttar Pradesh
8. Research methodology and project writing, QM&AHO, 16 March 2018, Academy of Hospital Administration, NOIDA, Uttar Pradesh
9. Planning and quality needs in inpatient services and operation theatre, QM&AHO, 16 March 2018, Academy of Hospital Administration, NOIDA, Uttar Pradesh
10. Planning and quality aspects in human resource planning, development and utilization, QM&AHO, 16 March 2018, Academy of Hospital Administration, NOIDA, Uttar Pradesh

Angel Rajan Singh

1. Patient safety in ambulance design, 3rd North East Patient Safety Workshop, 9 December 2017, Guwahati
2. Ambulance procurement: A case study, 15th Healthcare Executive Management Development Programme, 11 January 2018, Agra
3. Acts applicable to hospitals—An overview, Disaster management in Hospitals, Ambulance services in Hospitals, Hospital project management—An overview, Hospital accreditation—Overview, Hospital Security Services at Training Programme on Hospital Management and Administration for Medical Superintendents GDMOs, Non Specialist of Coal India Ltd, 2-3 February 2018, Ranchi

Vijaydeep Siddharth

1. Compensation: When, why and how much? Legal and Ethical Challenges in Healthcare Ecosystem organized by AIIMS and RFHHA, 18-20 May 2017, New Delhi
2. Planning and organization of indoor services, Planning and organization of OT services, Planning and organization of CSSD, Patient safety—An overview, Transplant of Human Organs Act, Consumer Protection Act in hospitals, Planning and management of OT, Training programme on Hospital Management and Administration for Medical Superintendents GDMOs, Non Specialist of Coal India Ltd at IICM, Ranchi, 8-10 February 2018, Ranchi, Jharkhand
3. Hospital planning and designing, 93rd Training Course on Hospital Administration for Senior Hospital Administrators, 5-23 February 2018, NIHF, 12 February 2018, New Delhi

Parmeshwar Kumar

1. Human resources management, WHO Capacity Development Workshop for Hospital Managers in Sudan, 21-22 May 2017, Khartoum, Sudan
2. Implementation of biomedical waste management rules-2016: An AIIMS case study, CME on Capacity Building on Implementation of Waste Management Rules-2016, Organized by CPCB and MOEF, 5 June 2017, New Delhi
3. Biomedical waste management and regulatory mechanisms, CME on Medical Law, Patient Safety and Ethics: Contemporary Issues, 11 May 2017, Symbiosis Law College, Pune
4. Mental health at workplace: An administrators perspective, CME on Mental Health at Workplace, 6 March 2018, CMET, AIIMS, New Delhi
5. Challenges in implementation of bio medical waste management in tertiary care hospitals, Conference on Biomedical Waste Management: Issues, Challenges and Opportunities organized by ASSOCHAM, 22 March 2018, New Delhi

Kanika Jain

1. Change ideas, CME on Cost Effective Use of Technology, 11-13 September 2017, New Delhi
2. Documentation and biomedical waste management, Emergency Life Support Course, 6 November 2017 and 4 December 2017, New Delhi
3. Planning and organization of emergency services, Legal issues in emergency services, Planning and organization of laundry and linen services, Planning and organization of MR Department, PCPNDT Act in hospitals, at training programme on Hospital Management and Administration for Medical Superintendents GDMOs, Non specialist of Coal India Ltd at IICM, 8-10 February 2018, Ranchi, Jharkhand

Dr Abdul Hakim

1. Clinical audit—Overview, pharmacy services in hospitals, Fire safety in hospitals, Group work presentation, Group work finalization at training programme on Hospital Management and Administration for Medical Superintendents GDMOs, Non specialist of Coal India Ltd at IICM, 9-11 February 2018, Indian Institute of Coal Management, Ranchi

Oral papers/posters presented

1. Satpathy S. Patient and staff privacy vs Disclosure in public interest—a tightrope walk for HAs, Management and Behaviour Sciences, 26-27 June 2017, Toronto, Canada
2. Sahran D, Siddharth V, Satpathy S. Understanding operation theatre services utilization in a tertiary care hospital of India—First step towards improving efficiency and patient experience, Middle East Forum on Quality and Safety in Healthcare 2017, 5-7 May 2017, Doha, Qatar
3. Sahran D, Siddharth V, Satpathy S. Patient safety in Operation Theatre: A descriptive prospective observational study in a tertiary care teaching hospital of North India, The 2nd Annual Patient Safety Conference, 22 and 23 September 2017, New Delhi
4. Kausar M, Siddharth V, Gupta SK. How much does it cost increasing access to healthcare? A study of an outreach healthcare facility, SASH 2018 National Conference on Safe and Sustainable Hospitals, 20 and 21 January 2018, Hyderabad
5. Choudhary AH, Sharma DK, Sanjay A, Mahesh R. Equipment utilization and audit in a large tertiary teaching care institute, National conference on Recent Advances and Future Trends in Healthcare (RAFTHCON), 13-15 October 2017, SKICC, Srinagar

Collaborative research papers presented by other colleagues in conferences:

1. Study on the applicability and benefits of EOQ lot order based cost optimization in an apex tertiary care government hospital in India. Kausar M, **Madaan N, Arya S**; presented at Symhealth 2017, Symbiosis, Pune by Dr Mohd. Kausar, where it won the first prize for best oral presentation, 5 May 2017
2. A study of stress among first year MBBS students at a tertiary care teaching hospital: Wundavalli T, **Madaan N, Satpathy S**; presented by Dr Tej Wundavalli at the International Conference on Stress Management at Goa, 5 November, 2017

RESEARCH

Departmental projects

Ongoing

1. To study the assessment and care of indoor admitted patients against selected NABH standards to improve patient experience at AIIMS
2. A study of existing records management system of Medical Superintendent Office (Hospital Section)
3. To study the role of healthcare analytics in improving hospital indices
4. To study the medication errors in selected critical patient care areas to improve patient safety
5. To study of organizational climate amongst the newly recruited professionals (Doctors and nurses) at AIIMS
6. Streamlining the process of EHS known to counter
7. Integrated Pest Management Practice Guidelines for AIIMS
8. Study of costing on management of cardiac patients admitted under cardiology Department of CNC
9. Physical and chemical hazard identification and risk analysis for healthcare workers at AIIMS Hospital
10. Development of an Android App to increase patient ease/way finding at AIIMS hospital
11. Study the impact of OPD transformation project in RAK OPD at AIIMS, New Delhi
12. To study of time utilization and effectiveness of Nurse Administrators Process at AIIMS Hospital
13. A study of the effectiveness of the “never use” list of abbreviations in medical prescriptions at AIIMS
14. A study of the leadership profile of HODs of various departments and its impact on the performance and well being of fellow doctors
15. A comparative study of Emergency Department of select hospitals in Delhi, with 100 and above beds, against standard guidelines

Completed

1. To do a comparative study of the implementation of the national guidelines for clean hospitals among select hospitals in Delhi
2. A study of the downtime of hospital equipment in the AMC/CMC period
3. Study of utilization of OTs at main hospital
4. A study of utilization of Free Standing Interactive Kiosks at Dr BRAIRCH, AIIMS, New Delhi
5. A study to develop the specifications for implementation of an effective wayfinding and signage system in CT and NS Centre, AIIMS
6. Medical record audit at a Tertiary Care Trauma Centre at New Delhi
7. Critical review of discharge summaries at a Tertiary Care Ophthalmic Centre, New Delhi
8. A study of decongestion of CNC OPD, AIIMS
9. A study of utilization of poor fund donation boxes in a Tertiary Care Hospital
10. A comparative study of the implementation of National guidelines for clean hospital among select hospitals in Delhi

Collaborative projects

Ongoing

1. Comparison of methods of assigning cause of death through verbal autopsy, ICMR
2. An evaluation of the impact of training amongst the food handlers in dietary services on knowledge, practices and beliefs of food safety behavior, Dietetics

3. Study the profile of treatment dropout patients admitted at National Drug Dependence Treatment Centre in North India, Psychiatry
4. Design of inventory system for surgical items at AIIMS, Indian Institute of Management, Lucknow

Completed

1. Study of the patient experiences among substance abusers in an in-patient ward in a public sector hospital in India, NDDTC
2. Study of the patient experiences among Substance abusers in an in-patient ward in a public sector hospital in India, Psychiatry

PUBLICATIONS

Journals: 10

AWARDS, HONOURS AND SIGNIFICANT EVENTS

AIIMS Hospital was awarded first prize in “Kaya-Kalp” in 2017-2018 for the second year continuously after a stringent assessment.

Professor Sidhartha Satpathy participated as External Technical Expert of Assessment Committee for assessment of NTPC Project hospitals for “Swarn Shakti” awards during this year; Contributed to development of AIIMS Bhubneswar as Mentor, and subject expert to assist Selection Committee for Assistant Professor Hospital Admn at AIIMS Bhubneswar; Member of Building Committee of National Brain Research Institute, providing oversight for development of Auditorium, Academic Block and Laboratories; Contributed as expert member of Academic Audit Committee of IIHMR University, for improvement of academics as mandated by UGC; Member of Committee for Rationalization of Recruitment Rules for posts at upcoming CAPFIMS under the aegis of Ministry of Home Affairs, Government of India; Contributed as external subject expert for starting of MHA Course at KIMS University, Bhubneswar as nominated by UGC; Contributed as Editorial Committee member of JAHA and IJRFHHA, and Reviewer for National Medical Journal of India; External examiner in MD (HA) Examination at Kamineni Institute of Medical Sciences, Narketapally and BPKIHMS, Dharan, Nepal; Examiner in PG Diploma in Hospital Management at NIHFWS, New Delhi; Examiner in AIIMS—MBBS-2017 Entrance Exam (CBT Mode) at UP, NOIDA; Expert member for assessment of Department of Hospital Administration at AIIMS, Bhubneswar; Chaired sessions on “Stress in Health arena” and “Scope of Stress Management Labs in India”, International conference on Stress Management, 3-4 November 2017, Panji, Goa.

Dr Shakti Kumar Gupta was panelist in the “5th NATHEALTH Annual Event NATEv2018” at Shangri-La’s - Eros Hotel, New Delhi on Friday 16 March 2018; Attended 70th Anniversary of the UK’s National Health Services (NHS), Future of healthcare organized by Department for International Trade (DIT) in association with Federation of Indian Chambers of Commerce and Industry (FICCI) on 5 February 2018 at Mumtaz Hall, Taj Diplomatic Enclave, New Delhi; Member of “FICCI Health Services National Committee” for the year 2018-2019 and nominated as “Taskforce Chair for Pricing of Healthcare”; Invited as Chief Guest for the Valedictory Session held on 23 January in NOIDA, Delhi on National Skill Development and Hands on Training in Quality Control of Biologicals for PG students from University of Jammu and Himachal Pradesh organized by National Institute of Biologicals, Ministry of Health and Family Welfare (MoHFW) held from 3-23 January 2018; Expert member for Panel Discussions on “Universal Health Coverage in India Enabled by Emerging Technologies” on 19 January 2018, at New Delhi organized by CNN News 18; Expert member for “Faculty Selection for AIIMS”, Patna on 29 September 2017 at Institute of Liver and Biliary Sciences, New Delhi; “Australia-India Digital Health Dialogue”, organized by Confederation of Indian Industry (CII) and Australian Trade Commission held on 29 August 2017 at Hyatt Regency, New Delhi; 9th FICCI Healthcare Excellence Awards—11th Edition of FICCI HEAL Indian Health Care: A Patient view on 17 and 18 August 2017; External expert for “Apical Selection Committee for Faculty Selection” of Sher-i-Kashmir Institute of Medical Sciences, Srinagar on 1 August 2017; External expert for Technical Evaluation Committee for providing Manpower for Housekeeping and Laundry services etc at Institute of Liver and Biliary Sciences, Vasant Kunj, New Delhi on 11 July 2017; Chairman, Conclave on “Legal and Ethical Challenges in Healthcare Ecosystem” organized by Department of Hospital Administration, AIIMS, New Delhi and Research Foundation of Hospital and Healthcare Administration (RFHHA) held from 18-20 May 2017 at Manekshaw Convention Centre, New Delhi and panelist for the session on “Code of Conduct for Medical Technology Industry—Legal and Ethical Compliances”; External examiner for MD Hospital Administration Annual Examination (Batch 2014) from 9-10 May 2017 at Sher-I-Kashmir Institute of Medical Sciences, Srinagar; External examiner for PG Medical Degree/Diploma Examination from 5-6 May 2017 at Jagadguru Sri Shivarathreeshwara University, Mysuru, Karnataka; Expert member of Selection Committee for Selection of Resident Medical Officer on 13 April 2017 at New Delhi; Speaker, for CME on Medical Logistics and Supply Chain Management, Manekshaw Centre, held on 6 April 2017 and delivered lecture on “Biomedical Equipment Management—Issues, Challenges and Strategies”.

Dr D.K. Sharma visited Tokyo, Japan as member of 2nd Joint Working Group Meeting on Health between India and Japan, by MoHFW, Government of India on 26-27 April 2017; Contributed as expert member of Selection Committees at various Institutes/Colleges/Hospitals for Medical Superintendent/Deputy MS etc.

Professor I.B. Singh was appointed internal examiner for MHA final examination to be held in May 2017, AIIMS; Appointed external examiner for PG degree examination held in 2-3 January 2017 for conduct of Practicals, Clinicals and Orals in the Speciality of Hospital Administration (MD) at Kamineni Institute of Medical Sciences, Narketpally, under Dr NTR University of Health Sciences, Vijay Wada-8, AP; Appointed external examiner for thesis examination and for MD Hospital Administration Final Examination at Sher-I-Kashmir Institute of Medical Sciences, J&K. Vide letter no. SIMS/ Exams/305/05/383/2017-3757 dated 3 January 2018; I was a panelist in the session, “Pricing of drugs, devices and medical implants-legal and ethical issues” held 20 May 2017 in the “Conclave on Legal and Ethical Challenges in Healthcare Ecosystem” which was organized from 18-20 May 2017 at Manekshaw Convention Centre, New Delhi, India; Chairperson in the scientific session, “Preventing Infection: Preventing AMR, BMW, Sterilization and Disinfection, Role of CSSD in Infection Control” organized as part of Swachhta Action Plan (SAP) 2017-2018 held on 16 March 2018; Member of the expert group for discussion, in the meeting held under the chairperson of Dr B. D. Athani Spl DGHS, Nirman Bhawan, New Delhi - 110011, to suggest guidelines for collaboration between Armenia and India in Health Sector.

Dr Nirupam Madaan was member of the editorial board of the Journal of Research Foundation for Hospitals and Healthcare Administration; Member of the Editorial Board of Journal of Academy of Hospital Administrators.

Dr Anoop Daga was invited as Judge in Research Paper Competition in “SASH-2018: National Conference on Safe and Sustainable Hospitals” organized by Nizam’s Institute of Medical Sciences, Hyderabad from 20-21 January 2018; Associate Editor, Journal of Academy of Hospital Administration (JAHA), NOIDA, India; Member, Editorial Board, International Journal of Research Foundation of Hospital and Healthcare Administration (IJRFHHA), New Delhi, India.

Dr Mahesh R was technical expert in developing National patient safety implementation frame work, Principal Member of Medical Equipment and Hospital Planning Division Council (MHDC), Bureau of Indian Standards; Expert in the Committee for Development of Pack Warnings, MoHFW, GOI (Tobacco Control Division); Member Sub-Committee for “Development of Minimum Standards for Clinical Establishments, GOI, DGHS, Member.

Dr Vijaydeep Siddharth was awarded with International Society for Quality in Healthcare (ISUQA) Fellowship; Selected and successfully completed National Quality Accreditation Standard (NQAS) Assessor Programme and an empanelled assessor of the same.

Dr Parmeshwar Kumar developed training of Trainers Module and Handbook for Human Resources Management, which has been used to train over 400 hospital managers in Iran in a cascading model and subsequently in other countries in the EMRO region.

Dr Kanika Jain was awarded the ISQUA Fellowship on 15 October 2017; Empanelled as a National assessor for the implementation and evaluation of the National Quality Assurance Standards after the successful completion of the National External Assessors Training-2018 from 15-19 January 2018 organized by National Health Systems Resource Centre, Ministry of Health and Family Welfare at New Delhi; Successfully completed the Improvement Coach Professional Development Program conducted by Institute of Healthcare Improvement on the 24 May 2018; Member of the expert group constituted to formulate the operational guidelines for establishing Emergency Department at 200 bedded District Hospital, constituted by the National Health Systems Resource Centre under the aegis of the Ministry of Health and Family Welfare, GoI.

Dr Abdul Hakim chaired a session on “Central Line Associated Blood Stream Infection” in Ramalingaswamy Board Room, AIIMS on 25 February 2018.

9.18. Laboratory Medicine

Professor and Head

A.K. Mukhopadhyay

Professors

M. Irshad

Sarman Singh

Additional Professor

Subhadra Sharma

Assistant Professors

Sudip Kumar Datta

Shyam Prakash

Raghavendra L. (Contract)

Scientists

Mrs Vandita Vasudev, S-III

HIGHLIGHTS

The major contribution of the Department of Laboratory Medicine is in patient care for AIIMS Hospital and Research by respective faculty with continued education for undergraduates, postgraduates, PhD and post-doctoral students. Faculty organized National and International Conferences as shown in respective sections. Communication of Director AIIMS with Ministry of Health and Family Welfare and forwarding of letters to MCI and NBE for starting MD/DNB in Laboratory Medicine Course throughout the country is another noteworthy event to highlight. In the service area major highlights are establishment of pre-phlebotomy automation in the central blood collection center and starting a few new investigations by the faculty there. Major achievement is in research on Drug-resistant Tuberculosis, which brought accolade for the faculty. Continued effort of faculty to bring mind-body issues within systems science resulted in publication of a few important papers of translational value in cell biology and artificial intelligence, which brought national and international recognition for the faculty.

The Clinical Biochemistry Division of Department of Laboratory Medicine is an established setup with regular contribution to the academic, research and patient-care activities. With an annual test load of more than 65 lakhs tests, this division is running both Internal and External Quality Assurance Programme (RIQAS) to ensure quality results in patient service. Simultaneously, it is conducting teaching at UG/PG level with award of MD Laboratory Medicine Degree and ever engaged in research with publications in high caliber and indexed journals both in preceding and current years. Expansion of test profiles which is long due, is expected to be achieved very soon. It is providing training to students coming from outside our institution in research and analytical procedures.

It streamlined the appointment system for collection of samples at central collection facility with 1000-1200 sample collections per day (nearly 4.5 lakhs annually). A second blood collection shift has been started to ease patient's difficulty. The blood collection time is now 7.45-11.30 a.m. followed by post-prandial samples up to 1.30 p.m. The second shift collects samples during 1.30-3 p.m. The appointment for registration of collection of samples is 11.30 a.m. to 2.30 p.m. at the collection center.

An automated phlebotomy tube labeler system has been installed and communication with the E-hospital has been completed with effect from May 2017. A pneumatic tube has been installed and services for transportation from the collection center to the second floor laboratory have been started.

We have also started phlebotomy training for all laboratory technologists working in different laboratories.

EDUCATION

Besides its MD Lab Medicine course with weekly seminar and journal club, department imparted training to postgraduates from the Departments of Pathology, Biochemistry and Pediatrics.

There was one trainee from RMIT University Bundoora, Australia for three months with permission of Academic Section.

Dr A. K. Mukhopadhyay

PhD degree awarded: 1

Dr M. Irshad

MD thesis completed: 1 Summer training: 1

Dr Sarman Singh

PhD:

5

MD:

1

Dr Sudip Kumar Datta

Dr Datta is Coordinator of Departmental/Inter-Departmental Academic Activities: PG lectures, seminars, case-discussions and practical teaching of post-graduates in Lab Medicine, Pathology and Biochemistry. He also took lectures for BSc nursing students.

Dr Shyam Prakash

Dr Prakash lectures for students of M Biotechnology, Phlebotomists, MBBS, BSc Nursing and Orientation Programme for Laboratory Technicians. He is the moderator for the journal club and also organized International Conference on 16th Annual Meeting of SFRRI-2018.

Dr Raghavendra L.

Dr Raghavendra L. teaches hematology to the residents of laboratory medicine and is also actively involved in Seminars, case-discussions and practical teaching of post-graduates in Lab Medicine, Pathology and Biochemistry. He lectures to classes for BSc nursing students. He coordinated the training of newly joined academic residents from Department of Pediatrics on peripheral smear and fluid examination in Emergency Lab.

CMEs/Workshops/Symposia/Conferences Organized

1. Dr Sarman Singh: Organized a CME and public lecture by Dr Veeranoot Nissapatorn, Associate Professor, School of Allied Health Sciences, Walailak University, Thailand on 'A search for novel natural products for the treatment of Acanthamoeba infection', 11 June 2017, Division of Clinical Microbiology, AIIMS, New Delhi
2. Dr Sarman Singh: Organized a National Conference on Zoonotic Diseases, jointly with Millennium India Education Foundation, 6 July 2017, Division of Clinical Microbiology, AIIMS, New Delhi
3. Dr Sarman Singh: Organized a Hands-on-Workshop on 'Laboratory diagnosis of opportunistic intestinal parasitic infection' during 41st Annual Conference of Indian Association of Medical Microbiologists, 22 November 2017, RIMS, Ranchi, Jharkhand
4. Dr Sarman Singh: Organized a Symposium on 'Recent advances in the diagnosis of tuberculosis in India' during the 41st Annual Conference of Indian Association of Medical Microbiologists, 26 November 2017, RIMS, Ranchi, Jharkhand
5. Dr Sudip Kumar Datta: Organized a Guest Lecture by Dr Lakshmi V Ramanathan, PhD, Chief, Clinical Chemistry Service, Department of Laboratory Medicine, Memorial Sloan-Kettering Cancer Center, New York on 'Challenges in interpreting routine chemistry tests in cancer patients', 6 September 2017
6. Dr Sudip Kumar Datta: Organized a Guest Lecture by Professor Jay Kalra, PhD, MD, FRCPC, FCAHS, Professor of Pathology, College of Medicine University of Saskatchewan, Canada, 'Laboratory Errors and Disclosure', 11 December 2017

Lectures delivered**Dr A.K. Mukhopadhyay**

1. Joining the dots: The ladder of cognition, Science and Scientist 2017, 18-19 August 2017, National Academy of Nepal, Kathmandu
2. Psychology, Artificial intelligence and robotics. Some difficult questions in their ambitious fusion, Consciousness and Artificial Intelligence, 25 October 2017, Zakir Hussain College, New Delhi
3. Perception in the ladder of cognition, 12th Nalanda Dialogue 2018, 22-24 February 2018, Nava Nalanda Mahavira, A Deemed University, Bihar
4. How to make a science of consciousness, Mind, Consciousness and Beyond, 6 March 2018, CSIR-NISTADS, New Delhi
5. Artificial intelligence, Human Intelligence and Intelligence in Nature, TSC@DEI-2018, 21-22 March 2018, Dayalbag Educational Institute, Agra

Dr Sarman Singh

1. Mycobacteria of Zoonotic Importance with special emphasis on mycobacterium avium *Subsp* paratuberculosis and chaired a scientific session during the 17th Indian Veterinary Congress and National Symposium on New Generation Vaccine for Societal Benefits, 8-9 April 2017, IVRI, Bareilly
2. Recent advances in the diagnosis of tuberculosis during the national Symposium on Multidrug Resistant Tuberculosis: Challenges and Strategies, 20 April 2017, Amity University, Haryana

3. Recent development in the transmission of visceral leishmaniasis during the 27th Indian Society of Parasitology Congress, 25-27 April 2017, NIMHANS, Bangalore
4. Human herpes viruses and HIV: How much we know about their co-pathogenesis, Second Euro International Conference on HIV and AIDS, 12-14 May 2017, Kottayam, Kerala
5. Emergence of miltefosine resistant cases of visceral leishmaniasis in India, 6th World Congress of Leishmaniasis, 18-20 May 2017, Toledo, Spain
6. Good laboratory practices during the workshop on Molecular Biology Techniques and Stem Cell in Human Health and Diseases, 16 June 2017, AIMMSCR, Amity University, Noida
7. Presidential lecture: How to write a successful research project? 23-24 June 2017, Chettinad, Tamil Nadu
8. Toxoplasma and toxoplasmosis, Sri Lanka College of Microbiologists, 31 August-1 September 2017, Colombo, Sri Lanka
9. Recent advances in toxoplasmosis research, 10th National Conference of Indian Academy of Tropical Parasitology, 7 September 2017, India Academy of Tropical Parasitology at SKIMS, Gangtok, Sikkim
10. Kala-Azar: Research in India, Rosalind Franklin University, 7-9 October 2017, California, Chicago, USA
11. Genetic mutations associated with second line drug resistance in *Mycobacterium tuberculosis* strains of various lineages isolated from Northwest India, 48th World Congress on Tuberculosis and Lung Health, 11-14 October 2017, Guadalajara, Mexico
12. First appraisal of genetic diversity of *Mycobacterium tuberculosis* isolated from captive Asian elephants (*Elephas maximus*), 48th World Congress on Tuberculosis and Lung Health, 11-14 October 2017, Guadalajara, Mexico
13. Intestinal parasitic infestations in children: Diagnosis and management, 2nd International Congress on Tropical Medicine, 8-9 December 2017, Kandy, Sri Lanka
14. Congenital Toxoplasmosis at King George's Medical University, 7-10 March 2018, Lucknow, UP
15. Evolution of modern science: Best is yet to be achieved, National Conference Recent Trends in Biomedical Sciences 2018, 16 March 2018, Phagwara, Jalandhar, Punjab
16. Recent advances in TB diagnosis, CME to commemorate world TB Day, 22 March 2018, SGPGI, Lucknow, UP
17. Toxoplasmosis in pregnancy, CME organized by Sri Lanka College of Gynecologists and Obstetricians, 25 March 2018, Colombo, Sri Lanka
18. Biotechnology in the diagnosis and prevention of infectious diseases, South Asian Biotech Conference 2018, 28-30 March 2018, ICGEB (Italy) and National Academy of Sciences, Colombo, Sri Lanka

Dr Sudip Kumar Datta

1. Interpretation of biomarkers in a setting of chronic renal failure, National Conference on Biomarkers, 19-20 January 2018, Kalyani, West Bengal
2. Panelist in panel discussion on biomarkers, National Conference on Biomarkers, 19-20 January 2018, Kalyani, West Bengal
3. Oxidative stress in relation to genetic polymorphisms of glutathione S-transferase in chronic kidney disease, 16th Annual Meeting of Society for Free Radical Research in India (SFRR-India), 18-20 February 2018, AIIMS, New Delhi

Dr Shyam Prakash

1. Growth differentiation factor-15 as a novel cytokine in changing of lifestyle diseases: A manifestation of metabolic syndrome (Invited lecture), World Cancer Congress 2017, 20-22 September 2017, Science City, Kolkata, West Bengal
2. Growth differentiation factor-15 as a stress responsive cytokine in changing of lifestyle diseases: An expression of metabolic syndrome (Invited lecture), 44th Annual Conference of Clinical Biochemist of India (ACBICON-2017), 3-6 December 2017, KGMU Convention Centre, Lucknow
3. Growth differentiation factor-15 as a novel biomarker in non-alcoholic fatty liver disease: An Exhibition of Metabolic Syndrome (Invited lecture), Biomarker 2018, 19-20 January 2018, College of Medicine and JNM Hospital, WBUHS, Kalyani, Kolkata
4. Translation from biomarker discovery to clinical relevance (Panel discussion), Biomarker, 19-20 January 2018, College of Medicine and JNM Hospital, WBUHS, Kalyani, Kolkata
5. Growth differentiation factor-15 as a pleiotropic molecule in changing of lifestyle diseases: An approach for metabolic syndrome (Invited lecture), 2nd J&K Medical Science Congress, Srinagar and 1st Annual meeting of M P PCOS Society, 10-13 May 2017, Sher-i-Kashmir Institute of Medical Sciences (SKIMS), Srinagar

Oral papers/posters presented

1. Mukhopadhyay T, Venencia A, Arulselvi S, Mukhopadhyay AK. A retrospective study of platelet transfusion response amongst trauma patients and its correlation with immediate outcome in a level I trauma care centre, Symposium cum workshop on coagulation disorders and metabolic targets of antiplatelet activity: An update, 11 November 2017, Department of Biochemistry, MAMC, New Delhi (Best Poster Award)
2. Gupta P, Irshad M. Standardization of Quadruplex TaqMan real time PCR assay for simultaneous detection of hepatitis B, C, D and E viruses, 16th ISVHLD Global Hepatitis Summit, 14-17 June 2018, Toronto, Canada
3. Datta SK, Parashar P, Deepak KK, Anand S, Mukhopadhyay AK. Effects of in vitro exposure of static magnetic field on human blood electrolyte levels (poster), 69th American Association of Clinical Chemistry Annual Scientific Meeting and Clinical Lab Expo, 30 July-3 August 2017, San Diego, California, USA
4. Chowdari P, Datta SK. Active communication between laboratory and clinicians: An essential factor to improve patient care (poster), 23rd International Congress of Clinical Chemistry and Laboratory Medicine (IFCC World Lab-2017), 22-25 October 2017, Durban, South Africa (IFCC International Travel Scholarship Award)
5. Arora P, Datta SK, Sarkar A, Mahor DS. Discrepancies in electrolyte measurements by direct and indirect ion selective electrodes due to interferences (oral), 25th Annual Conference of Association of Medical Biochemists of India (AMBICON-2017), 17-19 November 2017, Mysore, India
6. Datta SK, Mukhopadhyay T, Shekhar S. Interpretation of clinical biochemistry results in the context of renal dysfunction (oral), 44th Annual Conference of Association of Clinical Biochemists of India (ACBICON-2017), 4-6 December 2017, Lucknow, India
7. Shekhar S, Mukhopadhyay T, Datta SK. Serum total acid phosphatase levels in patients with renal dysfunction (poster), 44th Annual Conference of Association of Clinical Biochemists of India (ACBICON-2017), 4-6 December 2017, Lucknow, India
8. Himani, Datta SK, Ansari JA, Mahdi AA, Sharma D, Ranjan R, Karunanand B. Association of Vitamin D level and gene polymorphism (TaqI and FokI) in occupationally lead exposed workers (poster), 44th Annual Conference of Association of Clinical Biochemists of India (ACBICON-2017), 4-6 December 2017, Lucknow, India (Best Poster award)
9. Mukhopadhyay T, Shekhar S, Datta SK. Pseudohyperamylasemia in patients with renal dysfunction (poster), 44th Annual Conference of Association of Clinical Biochemists of India (ACBICON-2017), 4-6 December 2017, Lucknow, India
10. Priyatma, Prakash S. An assessment of outbreak of acute HBV with high fatality due to unsafe injection practices associated with HBV Mutants in Sabrakantha, Gujarat, India
11. Saroj M, Priyatma, Prakash S. Development of an inexpensive method for detection of HCV RNA by Loop Mediated Isothermal Amplification (LAMP), 44th Annual Conference of Clinical Biochemist of India (ACBICON-2017), 3-6 December 2017, KGMU Convention Centre, Lucknow
12. Singh A, Verma A, Das P, Jindal G, Prakash S, Nayak B, et al. Non-invasive biomarkers for assessment of villous abnormalities in patients with celiac disease. Gastroenterology 2017, Digestive Disease Week, April 2017, USA
13. Tiwari U, Priyatma, Saroj M, Prakash S. Synergistic involvement of IL-17 and haematological indices as surrogate marker for monitoring of azathioprine therapy in Inflammatory Bowel Disease patients, 44th Annual Conference of Clinical Biochemist of India (ACBICON-2017), 3-6 December 2017, KGMU Convention Centre, Lucknow
14. Singh A, Verma A, Das P, Jindal G, Prakash S, Nayak B, et al. Non-invasive biomarkers for assessment of villous abnormalities in patients with celiac disease and other enteropathies: An alternative to mucosal biopsies. ICDS, 2017 Immunology Workshop, 17th International Celiac Disease Symposium (ICDS 2017), 8-10 September 2017, New Delhi, India
15. Jacob OM, Kant S, Haldar P, Kaur R, Prakash S, Dhadwal V. Effect of intravenous iron sucrose administration on level of antioxidant stress markers among moderately anemic pregnant women attending a sub-district hospital, Haryana, 21st IUNS, International Congress of Nutrition ICN 2017, 15-20 October 2017, Buenos Aires
16. Jacob OM, Kant S, Haldar P, Kaur R, Prakash S, Dhadwal V. Effectiveness of intravenous iron sucrose in the treatment of moderate anaemia among pregnant women attending a sub district hospital in Haryana, North India, Leiden International Biomedical Student Conference 2017, 15-19 ??? 2017, Netherlands
17. Prakash S. Growth differentiation factor-15 as a pleiotropic molecule in changing of lifestyle diseases: An approach for metabolic syndrome, 1st Annual meeting of M P PCOS Society, 10-13 May 2017, SKIMS, Srinagar
18. Sarkar A, Ningombam A, Lingaiah R. Therapy-related AML or AML as second primary neoplasm: A dilemma in a treated case of retinoblastoma, Hematocon 2017, November 2017, Guwahati, Assam
19. Ningombam A, Raghavendra L, Kumar A. Common hemoparasite with an uncommon effect of pancytopenia, Hematocon 2017, November 2017, Guwahati, Assam

RESEARCH

Funded projects

Ongoing

1. Lapid-based immunodiagnostics of active tuberculosis, Sarman Singh, Metrohm India Limited, 1 year, 2017-18, Rs 12.18 lakhs
2. Development of rapid biosensor based diagnostic test for tuberculosis, Sarman Singh, DHR, 3 years, 2017-2020, Rs 49.03 lakhs
3. Evaluation of blood based diagnostic tests for tuberculosis in India, Sarman Singh, Nextgen Invitro Diagnostic Private Limited, 2 years, 2017-2019, Rs 57.69 lakhs
4. Transcriptome analysis of patient Monocyte Derive Macrophages (MDMs) to understand mechanism of tolerance in the hosts upon M. tuberculosis infection, Sarman Singh, DBT, 3 years, 2017-2020, Rs 23.52 lakhs
5. Development of platform technologies for high affinity antibodies for in vitro diagnostics, Sarman Singh, DBT, 3 years, 2017-2020, Rs 43.54 lakhs
6. Evaluation of a rapid point-of-care serodiagnostic test kit for the early diagnosis and prediction of drug resistant TB, Sarman Singh, DBT, 1 year, 2017-2018, Rs 36.73 lakhs
7. Development of novel molecular test for rapid diagnosis of XDR-TB, Sarman Singh, ICMR, 3 years, 2018-2021, Rs 54.20 lakhs
8. An inexpensive method for development of in house assay for HCV RNA amplification by loop mediated isothermal amplification (LAMP), Shyam Prakash, DBT, 4 years, 2013-2017, Rs 28 lakhs
9. Rapid diagnostic evaluation of micro PCR for hepatitis B virus DNA (HBVDNA) and HCV RNA quantitation, Shyam Prakash, BigTec Bangalore, 6 years, 2013-2019, Rs 20 lakhs

Completed

1. Medicinal orchids of Arunachal Pradesh: Micro propagation: Phytochemical characterization and biological activity evaluation, Sarman Singh, DBT, 3.6 years, 2013-2017, Rs 11.72 lakhs
2. Molecular epidemiology and drug resistance pattern of Mycobacterium tuberculosis from North-East regions of India, Sarman Singh, DBT, 3.5 years, 2014-2018, Rs 29.91 lakhs
3. Evaluation of adhesive sensor for the detection of tuberculosis specific volatile organic compound, Sarman Singh, Bill and Melinda Gates Foundation, USA, 2 years, 2015-2017, Rs 41.35 lakhs
4. Evaluation of organochlorine pesticides levels before and after hemodialysis and after renal transplantation in chronic kidney disease patients: A pilot study, Sudip Kumar Datta, AIIMS Intramural Research Grant, 2 years, 2015-2017, Rs 4.4 lakhs

Departmental projects

1. Cloning expression and purification of a highly antigenic recombinant antigen from *Toxoplasma gondii* and its evaluation for the diagnosis of human and animal toxoplasmosis.
2. Dysregulation of asymmetric dimethyl arginine and molecular expression of tight junctions (claudins) and programmed cell death ligand-1 in gastric cancer
3. Flowcytometric assessment of CD4+ T and CDB+ T cell subset populations in active pulmonary tuberculosis with and without type 2 diabetes mellitus
4. Development and use of a multiplex real time PCR (qPCR) assay for simultaneous detection of hepatitis viruses (A-G) in serum
5. Monitoring of thiopurine drug metabolites and hematological indices in inflammatory bowel disease: An assessment of efficacy and outcome
6. Raising antibodies against novel antigens of mycobacterium tuberculosis and their diagnostic value in clinical samples
7. A cross-sectional pathfinder study to assess the serum vitamin D level in patients undergoing non surgical endodontic therapy and observe its potential association with periapical healing
8. Cloning expression and purification of the novel recombinant protein from *Toxoplasma gondii* and its evaluation for the diagnosis of human toxoplasmosis
9. Development of new molecular test(s) for rapid diagnosis of India specific Pre-XDR/XDR-TB
10. Abnormality of platelet functions and effect of ammonia levels in acute liver failure and acute on chronic liver failure
11. To see the prevalence of microsporidia in stool samples of HIV seronegative adults, pediatric patient with diarrhoea

12. Effectiveness of intravenous iron sucrose in the treatment of moderate anemia among pregnant women, attending a sub district hospital in Haryana, North India
13. Molecular expression and interaction between growth differentiation factor-15 (GDF-15), iron trafficking proteins, micronutrient antioxidants in diabetes and metabolic syndrome
14. Study of mild traumatic brain injury induced novel circulating brain protein SNTF as a rapid diagnostic and prognostic biomarker for brain dysfunction
15. A study to analysis CD27 expression on T cells to differentiate active and latent tuberculosis
16. Artificial intelligence, human intelligence and natural intelligence
17. Canvas of cognition; molecular embroidery, fabrics and the base
18. Cloning, sequencing and expression of TTV related polypeptides.
19. Epidemiological studies on CRF in Indian communities.
20. Genotyping of TTV and HCV in Indian population
21. Isolation of characterization of leishmania or leishmania like parasite(s) from seropositive goats
22. Ladder of cognition: Systems science
23. Multiplexing assays for hepatitis viruses (A-G)
24. Studies on the role of TTV in renal failure cases
25. Study of platelet dysfunction in trauma patients requiring platelet transfusion
26. Systems psyche. Its structure an, operation and possible molecular links
27. Thin layer between neuroscience and consciousness

Completed

1. To assess the effect of renal transplantation on organochlorine pesticides levels in chronic kidney disease (stage 5D) patients
2. Biomarker(s) for assessment of villous abnormalities in patients with celiac disease and other enteropathies

Collaborative projects

Ongoing

1. Correlation between first trimester glucose screening and serum insulin levels with development of gestational diabetes mellitus in pregnancy, endocrinology and metabolism, AIIMS
2. A multicentric study on Chronic Renal Failure (CRF) in Indian population, Nephrology, AIIMS
3. Assessment of risk factors, clinical profile and outcome of early versus late CMV infection in living renal allograft recipients in Indian context, Nephrology, AIIMS
4. Rapid diagnosis of mycobacterium tuberculosis by GeneXpert in gastric aspirate of children with clinically and radiologically diagnosed case of pulmonary tuberculosis, Dr RML Hospital, New Delhi
5. Rapid diagnosis of pediatric pulmonary tuberculosis and rifampicin resistance by GeneXpert MTB/RIF assay using bronchoalveolar lavage. Dr RML Hospital, New Delhi
6. Rapid diagnosis of suspected pulmonary tuberculosis in children by broncho alveolar lavage fluid by loop-mediated isothermal amplification. Dr RML Hospital, New Delhi
7. Monitor the standardization of hemoglobin and WBC of ICT-BRIEF project subjects, Geriatric Medicine, AIIMS
8. Single arm open label trial to assess effectiveness of intravenous Ferric Carboxy Maltose (FCM) in improving haemoglobin level among pregnant women with moderate to severe anaemia attending a sub district hospital, district Faridabad, Haryana, Community Medicine, AIIMS
9. Comparative evaluation of endocrine disrupter chemicals (organochlorine, organophosphate, biphenyl A, phthalate) in polycystic ovary syndrome, type 2 diabetes mellitus and healthy reproductive age Indian women, and their correlation with dietary habits (vegetarian vs non vegetarian) and genetic variability, multi-centric project
10. Evaluation of prevalence, regional phenotypic variation, co morbidities, risk factors and the variations in response to different therapeutic modalities among Indian women with polycystic ovary syndrome (PCOS): A multicenter study across India, multi-centric project

Completed

1. Pulmonary infections in renal transplant recipients: A prospective cohort observational study, Nephrology, AIIMS.
2. High altitude medicinal plants and orchids: Phytochemical characterization and bioactivity evaluation, Amity University, NOIDA

- Rapid diagnosis of pulmonary tuberculosis in children by loop mediated isothermal amplification. Dr RML Hospital, New Delhi
- A phase II/III randomized, double blind placebo controlled study to investigate the efficacy of probiotic VSL#3@ on chemotherapy induced diarrhea in cancer patient receiving fluoropyrimidine and irinotecan, Medical Oncology, IRCH, AIIMS, New Delhi

PUBLICATIONS

Journals: 32 Abstracts: 8 Chapters in Book: 1

PATIENT CARE

- Started to provide clinical pathology and molecular immunology lab service in the department: For investigations such as HbA1c (by HPLC), antiepileptic drug profile (by HPLC) and Chromogranin services for routine the patient care and also developed methods for vitamin A and E, vitamin D2 and D3 estimations.

Grand Total of Investigations: 85,12,138

Centralised Blood Collection Facility

I. Phlebotomy: Total phlebotomy and sample (primary and post-prandial): 4,42,098

II. Distribution of Blood Samples

A) To Department of Laboratory Medicine			
Clinical chemistry section:	1,98,752	Clinical haematology section:	1,48,372
Clinical microbiology:	23,837	Clinical pathology and immunology:	12,900
B) To Laboratories outside the department			
CNC:	29,813	Transfusion Medicine:	5171
Microbiology:	22,623	Endocrinology:	174
Human nutrition unit:	221	SRB laboratory:	235

*because of incomplete computerization, the data shown is summation of computerization as well as manual records

III. Investigations performed

Test	Number	Test	Number
Bleeding time, clotting time	1246	Prothrombin time	7464
Erythrocyte Sedimentation Rate (ESR)	42,622	Activated Partial Thromplastin Time (APTT)	1220

Emergency Laboratory Service (Round the Clock)

Haematology Section

Test	Number	Test	Number
Haemoglobin	1,02,963	Blood and cerebrospinal fluid C/S	9627
Total leucocyte count	1,02,963	Slide stain	1,3,542
Platelets	1,02,963	Mean corpuscular volume	1,02,963
Prothrombin time	70,846	Mean corpuscular haemoglobin	1,02,963
APTT	33,122	Mean corpuscular haemoglobin concentration	1,02,963
CSF cells	12,617	Packed cell volume	1,02,963
Urine	1284	Red blood cell count	1,02,963
Total	9,64,742		

Clinical Biochemistry Emergency Services

Test	Number	Test	Number
Glucose	15,632		
Urea	3,36,655	Creatinine	3,36,655
<i>Electrolytes</i>			
Sodium	1,59,674	Potassium	1,59,674
Ionized calcium	1,59,674	Chloride	1,59,674

Test	Number	Test	Number
Total bilirubin	2,33,275	Alkaline phosphatase	1165
SGOT	1165	SGPT	1165
Total protein	1165	Albumin	1165
Amylase	14,470	ABG with electrolytes	25,578
CSF protein	9535	CSF glucose	9535
Total	16,25,856		

Clinical pathology and molecular immunology section

New investigations started are listed below

Test	Number	Test	Number
HbA1c	11,400	Serum chromogranin	550
HB variants	18	Antiepileptic drug profile	15
Vitamin D2/D3	40	Vitamin A and E.	40

Other investigations

Test	Number	Test	Number
Vitamin B12	400	Folic Acid	302
Ferritin	295	CEA	104
CA 19.9	96	CA 15.3	90
Adenosine deaminase assay (ADA) Body fluids; ascitic fluid, pericardial fluid, pleural, cyst fluid, CSF, bone marrow, serum	2000	iPTH	145
Total	15,495		

Hematology section

Test	OPD	Ward	Test	OPD	Ward
Haemoglobin	1,43,641	89,764	Mean corpuscular volume	1,43,641	89,764
Total leucocyte count	1,43,641	89,764	Mean corpuscular haemoglobin	1,43,641	89,764
Differential leucocyte count	1,43,641	89,764	Mean corpuscular haemoglobin concentration	1,43,641	89,764
Erythrocyte sedimentation rate	4823	10,326	Packed cell volume	1,43,641	89,764
Peripheral smear	28,360	2834	Platelets	1,43,641	89,764
Absolute eosinophil count	1,43,641	89,764	Absolute neutrophil count	1,43,641	89,764
Reticulocyte count	179	468	RDW	1,43,641	89,764
RBC	1,43,641	89,764	MPV	1,43,641	89,764
PT	11,894	14,250	APTT	–	2143
Total	19,12,589	11,96,953			
Grand Total	34,99,228				

* Repeat test, trial test, Quality Control Sample, Internal Q.C. etc.

Note: Hb, TLC, PCV, DLC, Platelet, MCV, MCHC, RBC are measured by single reagent, within the same time frame

Clinical Biochemistry Routine Services

Test	Blood	Urine	Fluid
Sugar	3,78,549	3048	1464
Urea	3,03,106	1518	–
Creatinine	3,05,650	15,833	–
Calcium	3,21,386	12,224	–
Phosphate	3,27,765	13,463	–

Test	Blood	Urine	Fluid
Uric acid	3,27,268	14,854	–
Na	2,99,898	15,930	–
K	2,99,898	15,930	–
SGOT	3,24,270	–	–
SGPT	3,24,270	–	–
Alk. Phosphatase	3,20,379	–	–
Total bilirubin	3,39,307	–	–
Conjugated bilirubin	2,74,035	–	–
Total protein	3,23,130	–	5742
Albumin	3,22,475	–	5742
Cholesterol	16,556	–	–
Amylase	5784	–	1952
24 hour albumin	–	15,954	5183
Total	48,13,726	1,08,754	20,083
Grand Total	49,42,563		

Investigations on request or for research

Test	Number	Test	Number	Test	Number
HBsAg/HBV-DNA	200	IgM anti HBc	200	Anti HCV	200
IgM Anti HEV	200	IgM Anti HAV	100	HCV RNA	600
TTV-DNA	100	CK	100	LDH	100
TG	300	LDLc	100	HDLc	100
Total	2300				

Grand total 65,70,719

Microbiology Section

Routine Investigations

Urine

Test	OPD	Ward	Total
Medical board	0	1522	1522
Routine	33,972	32,864	66,836
Microscopic	33,972	32,864	66,836
PH	33,972	32,864	66,836
Specific gravity	33,972	32,864	66,836
Acetone	33,972	32,864	66,836
Bile pigment/salt	33,972	32,864	66,836
Urobilinogen	33,972	32,864	66,836
Bence Jones Protein	24	28	52
Chyluria	50	22	72
Porphobilinogen	2	0	2
Haemoglobin	1	0	1
Urine cultures	20,683	0	20,683
Strain identifications tests	16,800	0	16,800
Antibiotic sensitivity	3450	0	3450
Subtotal	2,55,961	2,31,620	4,87,581

Stool

Wet mount saline	6315	3347	9662
Wet Iodine stain	6315	3347	9662
Occult blood in stool	2905	1688	4593
Fat globules	34	29	63
Special stains for stool Z-N stain, modified Z-N stain, trichrome and chromotope	334	181	515
Subtotal	15,903	8592	24,495

Semen analysis

Routine	5586	–	5586
No. of reactions	5586	–	5586
Motility	5586	–	5586
Count	4076	–	4079
Fructose	2119	–	2119
Subtotal	22,953		22,953

Sputum analysis

Total samples received	2696	58	2754
ZN staining (Microscopy)	5122	110	5232
MTB culture	489	0	489
Subtotal	8307	168	8475

Urine AFB analysis

Total samples received	858	–	858
ZN staining (Microscopy)	1716	–	1716
Subtotal	2574	–	2574

Specialized Investigations

Immuno-serological and molecular diagnosis

Test	Number	Test	Number
<i>TORCH</i> (these tests remained suspended for most of the year)			
<i>Toxoplasma gondii</i> IgG	1613	<i>Toxoplasma gondii</i> IgM	1718
Rubella IgG	1813	Rubella IgM	1939
Cytomegalovirus IgG	1837	Cytomegalovirus IgM	1938
Herpes simplex virus IgG	320	Herpes simplex virus 2 IgG	321
Rubella IgG avidity	16	Herpes Simplex virus (1+2) IgM	163
Sub Total	11678		
<i>Viral markers and HIV</i>			
HAV IgM	1610	HBsAg	42,957
HBc IgM	122	HBeAg	2524
Anti HBe	640	Anti HBs	439
Anti HCV antibody	39,758	HEV IgM	176
HIV	38,431	HBV DNA	254
HCV RNA	190		
Subtotal	1,27,101		

Test	Number	Test	Number
<i>Others</i>			
Measles IgG	96	Mumps IgG	96
Varicella IgG	64	Varicella IgM	36
Subtotal	292		
<i>Molecular tests</i>			
TB PCR	2202	CMV (RT PCR)	742
Subtotal	2944		
<i>Leishmania serology</i>			
rkE-16 Serology			59
Lab strain maintenance (In vitro)			1998
Lab strain maintenance in hamster			14
Subtotal			2071
<i>BD Influx Cell Sorter (Flow Cytometer)</i>			
Flow cytometer assays			173
<i>TB Laboratory</i>			
Total number of samples received			1171
ZN staining:			2052
LJ medium inoculated			1564
ADA Test			72
BACTEC MGIT 960 inoculated			1937
BACTEC MGIT DST 960:			193
BACTEC MGIT DST 960: Second line			28
Colorimetric Redox Indicator assay (CRI)			16
GeneXpert MTB/RIF			629
Subtotal			7662
Grand Total (A + B)			6,97,999

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor A.K. Mukhopadhyay was awarded Life-Time Achievement Award in systems science by Systems Society of India (SSI) in 2018; Included in the Editorial Board of Journal of Applied Clinical Pathology (previously Journal of Laboratory Medicine); Continued to remain in the position in the prestigious advisory board of UK-based *Commission for Extended Science*, which is a worldwide body with members of international repute including several Nobel Laureates; Continued to remain in the panel of Advisor of *Institute of Global Harmony* at Rajasthan; As in previous seven years, honored to remain the member of nominating Council for Infosys Science Foundation Award, 2017; Significant events is publication of five papers of translational value in mid-body medicine: On ladder of cognition, artificial intelligence, layers between neuroscience and consciousness and systems science.

Professor M. Irshad was nominated as member, Editorial Board, *World Journal of Hepatology*; Nominated as a peer reviewer/expert for numerous other international journals; Awarded 'Bharat Ratna Dr APJ Abdul Kalam Excellence Award' by India International Friendship Society (IIFS); Biography published in Marquis Who's Who, which comprises of top 3% of professionals in the world.

Professor Sarman Singh received prestigious Research Excellence Award consecutively for second year for original research publication in the field of tuberculosis, on AIIMS Foundation Day 2107; Awarded a prestigious fellowship of the Indian Academy of Advanced Veterinary Research (first medical person to receive it) 2017; continues to serve as academic editor of the prestigious journal *Medicine*, Editor of Tuberculosis Research and Treatment and Editor-in-Chief Journal of Laboratory Physicians; continued to be member of Scientific Advisory Committee (SAC), JIPMER, Puducherry; Chairman, Research Advisory Committee (RAC) of Chettinad Medical University, Tamil Nadu; Member, Joint Scientific

Advisory Committee (SAC) of National JALMA Institute of Leprosy and other Mycobacterial Diseases (NJLI), Agra and National Institute of Research in Tuberculosis (NIRT), Chennai both ICMR Institutes; President, Association for Better Health and Society (ABHAS); Abstract reviewer, World AIDS Conference 2018 consecutively for 10th year by the International AIDS Society for his unbiased and critical reviewing on medical sciences; Member, Task Force on Tuberculosis, DBT; Task Force for Scheduled Castes, Scheduled Tribes Population and Rural Development, DBT; Global Technical Committee of International Organization for Standardization (ISO), Geneva; Bureau of Indian Standards (BIS), New Delhi; CPCSEA (Ministry of Environment, Government of India) nominee for Institutional Animal Ethics Committees (IAEC) of Jamia Hamdard University, New Delhi; VP Patel Chest Institute, New Delhi and Rohtak University, Rohtak, Haryana; Chairman, ICMR Equipment Condemnation Committee and Member, Condemnation Board, ICMR, New Delhi; Member, Equipment Purchase Committee, ICMR, New Delhi; Core Committee Member, Assessment Board for Promotion of ICMR Scientists under Flexible Complementing Scheme for Scientists B to Scientist G; Post-Doctoral Fellowship Award Committee, ICMR; Expert Committee of ICMR for re-employment of retired ICMR scientists and Technology Transfer and Patent Committee of ICMR and many more committees; On the editorial and review boards of The Open AIDS Journal, Bentham Publications, USA; Journal of Infection in Developing Countries, Italy; Clinical Medicine: Dermatology, LA-Press, Australia; Lancet, JAMA, Clinical Infectious Diseases, Maternal and Child Health, Clinical and Experimental Immunology, FEMS Immunology, Journal of Medical Virology, Journal of Medical Microbiology, Journal of Infection, AIDS Care and Behaviour, Archives of Medical Research, Infectious Diseases in Clinical Practice, International Journal of Integrative Biology; Journal of Parasitology; Medical Science Monitor; International Journal of Genetics and Molecular Biology; International Journal of Medicine and Medical Sciences; International Journal of Integrative Biology; Expert Reviews in Molecular Medicine; Biomed Central- Infectious Diseases; Tropical Medicine and Health; Evidence Based Complementary and Alternative Medicine; Molecular and Cellular Biochemistry (MCBI); Scandinavian Journal of Clinical and Laboratory Investigation; Tropical Medicine and International Health; PLoS Neglected Tropical Diseases; Annals of Clinical Microbiology and Antimicrobials; International Research Journal of Biotechnology; Current Science; Journal of Parasitic Diseases; Journal of Laboratory Medicine; Neurology India; Journal of Postgraduate Medicine; Indian Journal of Gastroenterology; and several others; Chaired Research Advisory Committee of Chettinad Academy of Research and Education, 23-24 June 2017, Chettinad, Tamil Nadu; Judged poster session for various prizes at 10th National Conference of Tropical Parasitology, SKIMS, 7 September 2017, Gangtok, Sikkim.

Dr Sudip Kumar Datta was given International Travel Grant by IFCC to attend and present paper at IFCC World Lab, Durban, South Africa, 2017; empanelled as technical assessor (Clinical Biochemistry) by National Accreditation Board for Testing and Calibration Laboratories (NABL).

Dr Shyam Prakash is member of project review committee of the SERC Division of DST, Nutrition Division of ICMR and reviewer for Indian Journal of Clinical Biochemistry.

Dr Raghavendra L. received the young researcher award at national workshop on Platelet Activity, in November 2017 at AIIMS, New Delhi.

VISITING SCIENTISTS

1. Professor Anurag Saxena, Professor and Associate Dean, Postgraduate Medical Education of the University of Saskatchewan, Canada, delivered a lecture on 'Competency-based medical education: Canadian model of postgraduate training'
2. Professor Quddus Rahaman, Head Laboratory Medicine, Bangabandhu Sheikh Mujib Medical University (BSMMU), Bangladesh, visited the department and interacted with faculty and residents
3. Professor Jay Kalra, Professor, University of Saskatchewan, Canada, visited the department and interacted with faculty and residents
4. Sten Westgard, USA, interacted with the faculty and residents of the Departments on Methods of Quality Assurance.

9.19. Medicine

Professor and Head

Rita Sood

Professors

Naveet Wig
Sanjeev Sinha

Ashutosh Biswas
Naval K Vikram

Associate Professors

Manish Soneja

Piyush Ranjan

Assistant Professors

Neeraj Nischal
Ranveer Singh Jadon
Prayas Sethi (contract)

Pankaj Jorwal
Animesh Ray

Arvind Kumar
Upendra Baitha
Prabhat Kumar (contract)

HIGHLIGHTS

The Department of Medicine is a vibrant department providing holistic services including patient care, medical education and research. Besides the routine services, it has a strong presence in the field of infectious diseases, metabolic disorders, chest medicine and sleep disorders and many medical problems requiring multi-disciplinary care. The department is actively working in the field of antimicrobial stewardship and is involved in collaborative research projects.

EDUCATION

The department runs comprehensive undergraduate and postgraduate teaching programs which includes integrated lectures, seminars, journal club and bedside clinical case discussions. Currently 55 MD students, 29 DM-Infectious diseases (13 junior residents and 16 senior residents) and 20 senior residents are being trained in the Department of Medicine. It is striving to improve the clinical training of undergraduates and postgraduates with better alignment between the expected outcomes, learning opportunities and assessments. There is increasing focus on regular formative assessments and feedback to students. There are efforts to integrate the clinical skills training with communication skills and medical ethics.

CMEs/Workshops/Symposia/National and International Conferences

Organized by the department/departmental faculty

1. 'Indo-French conference on Dengue fever' in April 2017 in Ramalingaswami Board Room, AIIMS, New Delhi
2. "National Dengue Day and Dengue Symposium" on 16 May 2017 at Dr Ramalingaswami Board Room and JL Auditorium, AIIMS, Ansari Nagar, New Delhi
3. 'My Health My Right' a Symposium cum Workshop for 'Health Care Professional's Protection' on World HIV Day on 1 December 2017
4. CME on 'Difficult to treat EPTB Cases' on 2 February 2018 in CMET
5. Workshop on Antimicrobial Stewardship on 24 February 2018 at APICON, Bengaluru
6. Scientific Symposium on the occasion of World TB Day on 24 March 2018
7. Symposium on Clinical Examination of GI System on 25 March 2018 at AIIMS, New Delhi
8. Symposium on Clinical Skills in CNS on 29 and 30 March at AIIMS, New Delhi

Lectures delivered

Rita Sood

1. Dengue perspective, Public Lecture—National Dengue Day, 16 May 2017, AIIMS, New Delhi
2. Transformative learning, AP State ME Conference, 8 July 2017, PSIMS, Gannavaram, AP
3. Plenary lecture—Overview of faculty development, NCHPE 2017, 10 November 2017, Jorhat Medical College, Jorhat, Assam
4. Innovations in medical education, NCHPE 2017, 11 November 2017, Jorhat Medical College, Jorhat, Assam
5. What is antimicrobial resistance? How is it caused? Public lecture, 14 November 2017, AIIMS, New Delhi

6. Role of SEARAME Network—Global health perspective, International Perspectives on Global Health Education—Bellagio Global Health Education Initiative, 6-7 February 2018, MGIMS Sevagram, Wardha, Maharashtra
7. Experience with accreditation of health professional education in the SEAR, Expert Consultation Meeting ‘Accreditation of health professional education in SEAR’, 14-15 February 2018, Bangkok, Thailand
8. Fever with rash, CME Update, APICON 2018, 23 February 2018, GKVK Campus, Bengaluru, Karnataka
9. Communication and soft skills, APICON 2018, 23 February 2018, GKVK Campus, Bengaluru, Karnataka

Ashutosh Biswas

1. Dengue—Small bite, big threat, On Occasion of National Dengue Day, 16 May 2017, AIIMS, New Delhi
2. Clinical manifestations and management of Dengue, Interactive Symposium on Occasion of National Dengue Day, 16 May 2017, AIIMS, New Delhi
3. Pathogenesis of Dengue infection, National Training of Trainers on Clinical Management of Dengue, Chikungunya JE/AES and Scrub Typhus Cases, 12 June 2017, Lucknow
4. Clinical manifestations and management of Dengue, National Training of Trainers on Clinical Management of Dengue, Chikungunya JE/AES and Scrub Typhus Cases, 12 June 2017, Lucknow
5. Management of Dengue in co-infection and comorbid conditions, National Training of Trainers on Clinical Management of Dengue, Chikungunya JE/AES and Scrub Typhus Cases, 13 June 2017, Lucknow
6. Management of Chikungunya infections, National Training of Trainers on Clinical Management of Dengue, Chikungunya JE/AES and Scrub Typhus Cases, 13 June 2017, Lucknow
7. Case presentation on Dengue and Chikungunya, National Training of Trainers on Clinical Management of Dengue, Chikungunya JE/AES and Scrub Typhus Cases, 13 June 2017, Lucknow
8. Management of JE cases, National Training of Trainers on Clinical Management of Dengue, Chikungunya JE/AES and Scrub Typhus Cases, 14 June 2017, Lucknow
9. Cases presentation and discussion—JE/AES, National Training of Trainers on Clinical Management of Dengue, Chikungunya JE/AES and Scrub Typhus Cases, 14 June 2017, Lucknow
10. Pathogenesis of Dengue infection, National Training of Trainers on Clinical Management of Dengue, Chikungunya Cases in Collaboration with WHO Country Office, 27-28 June 2017, NVBDCP, New Delhi
11. Clinical manifestations and management of Dengue, National Training of Trainers on Clinical Management of Dengue, Chikungunya Cases in Collaboration with WHO Country Office, 27-28 June 2017, NVBDCP, New Delhi
12. Management of Dengue in co-infection and comorbid conditions, National Training of Trainers on Clinical Management of Dengue, Chikungunya Cases in Collaboration with WHO Country Office, 27-28 June 2017, NVBDCP, New Delhi
13. Pathogenesis of Dengue infection, National Training of Trainers (TOT) on Case Management of Dengue, Chikungunya and JE Cases for Capacity Building of the Clinicians Working at Medical Colleges and District Hospitals, 28-31 July 2017, Kolkata, West Bengal
14. Clinical manifestations and management of Dengue, National Training of Trainers (TOT) on Case Management of Dengue, Chikungunya and JE Cases for Capacity Building of the Clinicians Working at Medical Colleges and District Hospitals, 28-31 July 2017, Kolkata, West Bengal
15. Management of Dengue in co-infection and comorbid conditions, National Training of Trainers (TOT) on Case Management of Dengue, Chikungunya and JE Cases for Capacity Building of the Clinicians Working at Medical Colleges and District Hospitals, 28-31 July 2017, Kolkata, West Bengal
16. Management of Chikungunya infections, National Training of Trainers (TOT) on Case Management of Dengue, Chikungunya and JE Cases for Capacity Building of the Clinicians Working at Medical Colleges and District Hospitals, 28-31 July 2017, Kolkata, West Bengal
17. Pathogenesis of Dengue infection, National Training of Trainers on Clinical Management of Dengue, Chikungunya Cases, 7 September 2017, Bengaluru, Karnataka
18. Clinical manifestations and management of Dengue, National Training of Trainers on Clinical Management of Dengue, Chikungunya Cases, 7 September 2017, Bengaluru, Karnataka
19. Management of Chikungunya infections, National Training of Trainers on Clinical Management of Dengue, Chikungunya Cases, 8 September 2017, Bengaluru, Karnataka
20. Case presentation on Dengue and Chikungunya, National Training of Trainers on Clinical Management of Dengue, Chikungunya Cases, 8 September 2017, Bengaluru, Karnataka
21. Standard precaution, Symposium cum Workshop ‘‘Health Care Worker’s Protection’’; World AIDS Day, Department of Medicine, 1 December 2017, AIIMS, New Delhi

22. Chikungunya current concept in diagnose and management, 18th International Congress and Scientific Seminar BSMCOM, 8-10 December 2017, Dhaka, Bangladesh

Sanjeev Sinha

1. Management of HIV and TB, APICON, 23 February 2018, GKVK Campus, Bengaluru

Naval Kishore Vikram

1. Sarcopenia in insulin resistance: Therapeutic strategies, 1st International Diabetes Experts Conclave, 23-25 June 2017, Pune, India
2. Obesity and metabolic syndrome in children and adolescents, 3rd AIIMS-LHMC CME in Pediatric Endocrinology, 29-30 July 2017, AIIMS, New Delhi
3. Medical management of obesity: Present and future, Midterm Indian Society of Clinical Nutrition Meeting, Nutrition, Obesity and Metabolic Diseases: Current Perspectives and Challenges, 29 November 2017, ILBS, New Delhi
4. Non-alcoholic fatty liver and oxidative stress, 16th Annual Meeting of the Society for Free Radical Research India-2018 (SFRRRI-2018), 18-20 February 2018, AIIMS, New Delhi

Manish Soneja

1. Role of hand hygiene, Public Lecture, 5 May 2017, AIIMS, New Delhi
2. Standard precautions, Healthcare Workers Protection Symposium, 1 December 2017, AIIMS, New Delhi

Neeraj Nischal

1. INDEX TB Guidelines, Global Evidence Summit, 13 September 2017, International Convention Centre, Cape Town, South Africa
2. Opportunistic infections in HIV, CME on HIV, 9 September 2017, SGT University, Gurgaon
3. Hospital antibiotic policy: Applying guidelines to practice, Antibiotic Stewardship Programme to Combat Antibiotic Resistance, 29 November 2017, MAMC, Delhi

Animesh Ray

1. Lung cancer screening, Post Graduate Review Course on Lung Cancer, 4 February 2017, Ghaziabad, UP
2. Legal and ethical issues in ICU, Critical Care Nursing Training Program, 7 September 2017, AIIMS, Delhi

Prayas Sethi

1. Management of diabetes and hypertension at primary level, 16 February 2018, MAMC, Delhi
2. Teaching medical skills by virtual teaching, 8 February 2018, AIIMS, New Delhi

Oral papers/posters presented

1. Sharma R, Singh BK, Sharma SK, Jorwal P, Sinha S, Ramachandran R. Silent presence of pre-XDR strains among drug sensitive TB cases: A study from an apex tertiary care center from Delhi state, ASM Conference on Tuberculosis: Past, Present and Future, 1-4 April 2017, New York
2. Singh BK, Sharma R, Sharma SK, Jorwal P, Sinha S, Raizada N. Non interpretable results with rpo B gene in genotype MTBDRPlus ver2.0: What will be next? ASM Conference on "Tuberculosis: Past, Present and Future", 1-4 April 2017, New York
3. Sinha S. Diagnostic accuracy of Xpert Mtb/Rif assay in stool samples in intrathoracic childhood tuberculosis, American Thoracic Society, May 2017, Washington, USA
4. Sinha S. Sleep related disorders in kidney transplant, European Respiratory Society Conference, September 2017, Milan, Italy
5. Fazal F, Wig N, Soneja M, et al. Secondary HLH in patients with sepsis, 33rd Annual Histiocyte Society of the World, 3 October 2017, Singapore
6. Singh BK, Sharma R, Sharma SK, Sinha S, Jorwal P, Alavadi U, Myeenudu VP. Molecular characterization of pre XDR and XDR-TB at tertiary care center of New Delhi, India, 48th Union World Conference on Lung Health, 11-14 October 2017, Guadalajara, Mexico
7. Kumar V, Gowda S, Anghan H, Soneja M. Serum Angiopoietin-1 and 2 and ratio are markers of disease severity in Malaria, APICON 2018, 23 March 2018, GKVK, Bengaluru, Karnataka

8. Jose T, Jain S, Arora U, Banerjee S, Soneja M, Nischal N, Singh A. Impact of MDI technique demonstration in medical OPD, APICON 2018, 23 March 2018, GKVK, Bengaluru, Karnataka

RESEARCH

Funded projects

Ongoing

1. Initiating antimicrobial stewardship activities in hospitals in India, Rita Sood, ICMR, 1 year, 2018-2019, Rs 10 lakhs
2. Seroprevalence of dengue infection, Ashutosh Biswas, NVBDCP, MoHFW, 2 years, 2016-2018, Rs 20 lakhs
3. Study the pattern of HIV drug resistant mutations in HIV patients co-infected with active tuberculosis infection in India, Sanjeev Sinha, NACO, 3 years, 2014-2017, Rs 48 lakhs
4. Studies on molecular approaches to tuberculosis: Determination of the prevalence of MDR and XDR strains and drug susceptibility testing, development of new diagnostic test and test a hypothesis for new drug discovery platform for tuberculosis, Sanjeev Sinha, Department of Pharmaceuticals, Government of India, 3 years, 2015-2018, Rs 52 lakhs
5. New biotherapeutic approaches to the treatment of tuberculosis, Sanjeev Sinha, Department of Pharmaceuticals, Government of India, 4 years, 2015-2019, Rs 45 lakhs
6. To study the effect of mobile phones on well-being, sleep and cognitive function, Sanjeev Sinha, DST, 2 years, 2016-2018, Rs 78 lakhs
7. Prevention of relapse in Category I treated pulmonary tuberculosis patients with and without Vitamin D3 supplementation: A randomized double blind control clinical trial, Sanjeev Sinha, DHR, ICMR, 5 years, 2015-2020, Rs 40 lakhs
8. Study the pattern of HIV drug resistant mutations in HIV patients co-infected with active tuberculosis infection in India, Sanjeev Sinha, NACO, 3 years, 2014-2017, Rs 56.50 lakhs
9. A prospective, multi-center, randomized, double-blind, parallel-group, active-controlled, Phase III study to compare the efficacy, Safety and immunogenicity of premixed human insulin biphasic (30% human insulin soluble injection and 70% human insulin isophane suspension) injectable suspension of MJ Biopharm Private Limited with Huminsulin® 30/70 in treatment of patients diagnosed with type 2 diabetes mellitus, Naval K Vikram, JSS Medical Research India Private Limited, 1 year, 2017, Rs 4.16 lakhs
10. A Phase 3, multicenter, randomized, double blind, placebo controlled, parallel study to evaluate the efficacy and safety of Lorcaserin Hydrochloride in the treatment of obesity, Naval K Vikram, Dr Reddys Laboratories, 1 year, 2017, Rs 9 lakhs
11. Effect of electromagnetic radiations due to mobile phone use on sleep and neurocognitive functions: A molecular approach, Manish Soneja, DST, 3 years, 2015-2018, Rs 65 lakhs
12. A study to evaluate the safety and efficacy of Saroglitazar 4 mg versus placebo in the treatment of HIV associated lipodystrophy, Neeraj Nischal, Zydus Cadila, 3 years, 2015-2018, Rs 15 lakhs
13. In sleep pattern, perceived stress and coping strategies at the end of first year among first year medical undergraduate students, Neeraj Nischal, AIIMS, 2 years, 2016-2018, Rs 4.6 lakhs
14. Pattern of invasive fungal infection among high risk patients in critical care settings at AIIMS, New Delhi, Pankaj Jorwal, AIIMS, 2 years, 2016-2018, Rs 10 lakhs
15. To study current practice in the management of bacterial urinary tract infection in patients at AIIMS, New Delhi with focus on current antibiotic usage and clinical outcomes, Arvind Kumar, AIIMS, New Delhi, 2 years, 2017-2018, Rs 1 lakh
16. Study of Leptospira and Scrub Typhus in patients admitted with acute undifferentiated febrile illnesses, Ranveer S Jadon, AIIMS, 1 year, 2017, Rs 4.25 lakhs

Completed

1. Nonalcoholic fatty liver disease: Associations with bone mineral density, Vitamin D and Adipokines, Naval K Vikram, DBT, 3 years, 2013 onwards, Rs 9 lakhs

Departmental projects

Ongoing

1. A study on clinical spectrum and outcome of hospitalized patients with acute febrile illness and new onset organ dysfunction presenting during monsoon season at a tertiary referral centre in India

2. A study on factors determining the dose of topical lignocaine study used by “spray as you go” technique during broncho-alveolar lavage by a fibre-optic bronchoscopy
3. Active surveillance and targeted intervention in an ICU and HIC practices and its impact on ventilator associated pneumonia
4. Adherence to lifestyle modification advices in non-alcoholic fatty liver disease
5. Antibiotic resistance pattern in clinical isolates and its correlation with morbidity
6. Anti-tubercular therapy induced liver injury in patients with type 2 diabetes mellitus: Prospective cohort study
7. ARDS in medical ICU at AIIMS, New Delhi
8. Association of ectopic fat deposits with metabolic syndrome
9. Association of lean mass, muscle strength and physical performance with diabetes and metabolic parameters
10. Association of nonalcoholic fatty liver disease with bone mineral density, adiposity, and nutrient intake
11. Burden of Dengue among adult population in Delhi/NCR
12. Clinical and socio-demographic correlates of the patients presenting with medically unexplained physical symptoms in 25 medicine outpatient clinic at a tertiary care teaching hospital
13. Clinical spectrum, laboratory profile and outcome of patients with acute febrile encephalopathy: A prospective study from a tertiary care hospital in North India
14. Clinical, etiological and laboratory profile of patients with pericardial effusion
15. Clinical, laboratory profile and outcome of patients with Chikungunya fever: A prospective study from a tertiary care hospital in Northern India
16. Comparison between obese and non-obese individuals with non-alcoholic fatty liver disease
17. Comparison of CPR quality pre and post training through the usage of high quality CPR markers
18. Development and validation of questionnaire to assess knowledge, attitude and practice (KAP questionnaire) towards obesity among obese persons
19. Diagnosis of patients with oligoarthritis with special reference to Brucellosis and Lyme disease
20. Diagnostic yield of bronchoscopy and bronchoscopic procedures in sputum negative and sputum-scarce patients presenting with fever and miliary shadowing on chest imaging
21. Effect of implementation of protocol based nutrition therapy on outcomes in medical ICU
22. Effectiveness of implementation of standardized checklist on incidence of adverse outcomes during intra-hospital transport of critical ill patients in Medicine Department at AIIMS, New Delhi
23. Efficacy of yoga on symptom severity and quality of life of patients suffering from pain predominant Medically Unexplained Physical Symptoms (MUPS)
24. Epidemiology of invasive fungal infections in ICU at AIIMS, New Delhi
25. Epidemiology of systemic fungal infections in Medical Wards at AIIMS, New Delhi
26. Erectile dysfunction in nonalcoholic fatty liver disease
27. Facilitating conduct of invasive diagnostic procedures of Out-Patient-Department (OPD) patients
28. Hepatic left lobe volume as a sensitive index of metabolic improvement in patients with Nonalcoholic Fatty Liver Disease (NAFLD)
29. Impact of surveillance and preventive intervention on device associated infection in Medicine ICU
30. Incidence of respiratory syncytial virus infection in adults in the first year following hematopoietic stem cell transplant
31. Magnitude of psychiatric comorbidities in patients with rheumatoid arthritis
32. Magnitude of psychiatric comorbidity in patients with obesity in a tertiary care centre
33. Nutritional and Lifestyle Risk Factors Associated with NAFLD (Non alcoholic fatty liver disease)
34. Outcome of implementation of guidelines on artificial airway maintenance and tube care in mechanically ventilated patients in medicine department at AIIMS, New Delhi
35. Outcome of protocol based management of pain, agitation and delirium in mechanically ventilated patients in Medicine Department at AIIMS, New Delhi
36. Outcome of protocol-based weaning practices in medical ICU
37. Prevalence of NAFLD in young adults (18-30 years)—A hospital based pilot study
38. Psychiatric morbidities in HIV/TB co-infection
39. Quality improvement of invasive procedures in Medicine Wards

40. Reference values for pulmonary function tests in healthy Indian adults
41. Risk factors for dengue mortality in patients admitted in AIIMS
42. Role of cytokines in severe Dengue
43. Role of FDG-PET in monitoring of tubercular lymphadenopathy
44. Role of serum procalcitonin levels in the management of sepsis
45. Secondary Hemophagocytic Lymphohistiocytosis (HLH) in patients with sepsis
46. Significance of candiduria in catheterised patients
47. Sonographic comparison of subclavian vein and inferior vena cava collapsibility for assessment of volume status of hypotensive patients
48. Spectrum of infections and cytokine profile in Acute on Chronic Liver Failure (ACLF) patients
49. Sterile pyuria in patients admitted to medical wards: Incidence of Chlamydia Trachomatis, Ureaplasmaurealyticum, Mycoplasma Hominis and Mycoplasma Genitalium
50. Study of Clinico-epidemiological profile of acute undifferentiated febrile illness patients at a tertiary care centre
51. Study of Leptospira and Scrub typhus in patients admitted with acute undifferentiated febrile illnesses
52. Study of the effect of implementation of 'Critical Pathways' on the Quality of Management of Community Acquired Pneumonia
53. Survival analysis of people living with HIV/AIDS with adult HIV progression model
54. To evaluate the risk factors associated with HIV TB co-infection

Completed

1. Association of ectopic fat deposits with metabolic syndrome
2. ARDS in Medical ICU at AIIMS, New Delhi
3. Magnitude of psychiatric comorbidity in patients with obesity in a tertiary care centre
4. The effect of implementation of an antibiotic stewardship program in a medical ward of a tertiary care hospital (as Co-Guide)
5. Disability and family burden in rheumatoid arthritis (as co-guide)
6. Association of nonalcoholic fatty liver disease with bone mineral density, adiposity, and macro- and micro-nutrients intake
7. Adherence to lifestyle modification advices in non alcoholic fatty liver disease
8. Community Acquired Pneumonia
9. Pathogenetic markers in severe Dengue infection
10. Oral candida infectious amongst patients living with HIV/AIDS

Collaborative projects

Ongoing

1. Surveillance of carriage of colistin resistant Enterobacteriaceae and the role of antimicrobial stewardship program, Microbiology, Pharmacology
2. Influence of genetic polymorphisms, clinical and biochemical parameters in determining susceptibility to nonalcoholic fatty liver disease in Indian overweight adolescents, Pediatrics
3. To study the genetic polymorphisms and correlations with cytokine and hormone levels of Macrophage Migration Inhibitory Factor (MIF) Peroxisome Proliferator— Activated, Receptor- γ (PPAR γ) Interlukin-6 (IL-6) C-Reactive Protein (CRP), Insulin Receptor Substrate (IRS) Insulin Receptor Substrate (IRS) 1 and Leptin receptor genes in Obstructive Sleep Apnea Syndrome (OSAS) and Non Alcoholic Fatty Liver Disease (NAFLD), Pulmonary Medicine and Sleep Disorders
4. Role of acute lung injury biomarker gene polymorphisms in obstructive sleep apnea, Pulmonary Medicine and Sleep Disorders
5. Obesity and metabolic syndrome: The role of nutrition, physical activity, and inflammation, Pulmonary Medicine and Sleep Disorders
6. Therapeutic drug monitoring and evaluation of clinical response in abdominal tuberculosis, Microbiology, Pharmacology, Gastroenterology
7. A prospective study on clinical spectrum, prescription pattern and diagnosis of enteric fever in a tertiary care hospital of North India, Microbiology

8. Efficacy and safety of oral semaglutide versus Placebo in subjects with Type 2 diabetes mellitus treated with insulin, A 52-week, randomised, placebo-controlled trial, double-blinded study, Endocrinology
9. A randomized, double-blind, placebo and active-controlled, multicenter, Phase 3 study to assess the efficacy and safety of Filgotinib administered for 52 weeks alone and in combination with Methotrexate (MTX) to subjects with moderately to severely active rheumatoid arthritis who are Naïve to MTX Therapy, Rheumatology
10. A randomized, double-blind, placebo- and active-controlled, multicenter, Phase 3 study to assess the efficacy and safety of Filgotinib administered for 52 weeks in combination with Methotrexate to subjects with moderately to severely active rheumatoid arthritis who have an inadequate response to Methotrexate, Rheumatology
11. Identifying the role of exogenous ATP in joint inflammation, Rheumatology
12. Musculoskeletal symptoms and their impact in adolescent school children, Rheumatology

Completed

1. Childhood obesity in India: A multicenter study on its measurements and determinants, Endocrinology and Metabolism, and INCLIN
2. Diagnostic yield of bronchoscopy and bronchoscopic procedures in sputum negative and sputum-scarce patients presenting with fever and miliary shadowing on chest imaging, Pulmonary Medicine
3. Significance of candiduria in catheterized patients, Microbiology
4. Study to determine the association between pancytopenia and tuberculosis, Microbiology, Hematology

PUBLICATIONS

Journals: 69 Abstracts: 2 Chapters in Book: 1

PATIENT CARE

Medicine OPD is a direct non-referral clinic running 6 days a week. The department runs speciality clinics including Sleep Disorders Clinic (Monday 2 PM), Infectious Diseases Clinic (Monday 2 PM), Chest Clinic (Friday 2 PM) and Obesity and Metabolic Disorders Clinic (Wednesday 2 PM). The department also runs ART centre, DOTS centre and DOTS-Plus site under national programs. The department has a Pulmonary Function Tests Lab (MOPD Room No 34) wherein, there is no waiting period and the investigations are done and reports given on the same day. Bronchoscopy lab is situated in DII ward and equipped with state-of-the-art Endobronchial Ultrasound System. Sleep lab located in CII ward is equipped with polysomnography machines, ambulatory blood pressure monitoring system, and equipment for non-invasive assessment of endothelial dysfunction. The Department of Medicine provides diagnostic facilities for tuberculosis to patients coming to the AIIMS hospital as well as those referred from six zones of Delhi (Chest Clinics) under the RNTCP (Revised National Tuberculosis Control Programme). The department has state-of-art biosafety level 3 (BSL-3) lab.

Following is the data of patients in various clinics and laboratory investigations run by the department

Medical OPD	1,65,506		
Infectious Disease Clinic	668	Sleep Clinic	825
Chest Clinic	2514	Obesity and Metabolic Disorders Clinic	111
Antiretroviral (ART) Centre			
Pre-ART	879	ART	710
Laboratories			
Sleep lab			
Sleep studies	341	Ambulatory monitoring of blood pressure	37
Endothelial dysfunction studies	13		
PFT lab			
Pulmonary Function Tests	6058	6 minute walk test	185
Bronchoscopies			
Fibre-optic bronchoscopy	384	EBUS	84
ADA/ACE Lab			
Adenosine deaminase tests	245	ACE tests	370
Intermediate Reference Laboratory (IRL) Services			
Sputum smear	9585	Solid culture	500
Liquid culture	9585	Solid drug susceptibility test	52
Liquid DST (1st line)	118	Samples for liquid DST (2nd line)	665
Line Probe Assay (1st line LPA)	2186		

Line Probe Assay (2nd LPA)
Gene/Xpert

891 (since October 2017)
5196 (since July 2017)

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor Rita Sood continued to be member of the Institute Body of AIIMS, Rishikesh; Invited as assessor, team member, Australian Medical Council (AMC), as part of Assessment Team for Accreditation of a new Medical Program of Macquaire University, Sydney Australia (2-7 April 2017). Invited for site visit to Apollo Hospital, Hyderabad and Macquaire University, Sydney (20-23 March 2017) and (2-7 April 2017) respectively; Invited to participate in the WFME Executive Council Meeting (2-3 May 2017) and to discuss the 3rd Edition of WFME standards for basic medical education at Ferney-Voltaire, France (2-4 May 2017); Invited as external examiner for final Fellowship Examination (FCPS Part II Clinical and Viva voce) of Bangladesh College of Physicians and Surgeons (15-19 July 2017 and 13-17 January 2018); Invited by WHO to participate in the 70th Session of the Regional Committee of WHO-SEARO in Maldives (6-10 September 2017), representing WFME during the meeting. Presented statement on behalf of WFME on the need for accreditation of medical education in SEAR; Invited to participate in the Bellagio Global health education network meeting on “A universal curriculum for Global Health” held at MGIMS, Wardha from Bellagio Global Health Education Initiative (BGHEI), 6-7 February 2018; Attended 4th Meeting of Board of Management for Medical Education at Parmukhswami Medical College on 10 February 2018 at Karamsad, Gujarat; Invited by the director, DHSD (Department of Health Systems Development) WHO SEARO to participate in expert consultation on “Experience with accreditation of health Professionals” Education in SEAR (14-15 February 2018), at Bangkok, Thailand; Moderated CPC and led facilitation of workshop on Antibiotic Stewardship Program along with faculty and ID residents from Department of Medicine and Microbiology during APICON’2018 at Bengaluru (23-24 February 2018).

Professor Naveet Wig was member, Governing Body of All India Institute of Ayurveda; Member of Scientific Body of Indian Pharmacopoeia Commission; Member of ICMR Technical Resource Group on HIV/AIDS and member of HIV/AIDS Project Review Committee (PRC) of ICMR.

Professor Ashutosh Biswas was nominated by WHO, SEARO, India as an international expert to examine the Dengue outbreak situation in Bhutan. He was also an international expert selected by WHO, SEARO for Dengue Case Management Training, in Royal University of Bhutan, Bhutan; He was awarded fellowship for attending Training Antibiotic Stewardship Program organized by Institute of Infectious Diseases and Epidemiology, Tan Tock Seng Hospital, Singapore; He is also an expert member of National Strategic Plan for Malaria Elimination in India (2017-2022); He was nominated by Ministry of Health and Family Welfare, Government of India as one of the expert members of the Central Team to investigate the Dengue/Chikungunya outbreak situation and strategic planning for prevention and control in Kerala, Chennai and Pondicherry; Expert member with National Vector Borne Disease Control Program (NVBDCP), Ministry of Health and Family Welfare, Government of India. He is also an expert member of National Human Right Commission, Government of India responsible for giving expert opinion in case of custodial death for legal proceeding; Expert member 1st Meeting of Advisory Committee Group, ICMR, New Delhi. External Examiner of various National Universities/Medical Colleges, Expert member of selection board for combined Medical Service Examiner Union Public Service Commission (UPSC), New Delhi; Expert member of selection board of the faculty in IGIMS, Patna, Bihar; He was the organizing Secretary of National Dengue Day and Dengue Symposium, World TB Day, organized in AIIMS, New Delhi. Member of Disease Prevention, and Response Cell, AIIMS; Special invitee by Delhi Doordarshan Kendra (DD) for telecasting “Doctor Online” show program on “Japanese encephalitis” and All India Radio Broadcasting—Interview on topic “Pollution”. TV and Radio Programme; Delhi Doordarshan Broadcasting: Topic—“Japanese encephalitis” “Doctor’s Online” Programme, Loksbha TV on 25 March 2017 at Delhi Doordarshan, DD Bhawan (Tower B), Mandi House, New Delhi; All India Radio Broadcasting—Interview on Topic Pollution, 20 November 2017 at Akashvani Bhavan, Parliament Street, New Delhi – 110001.

Professor Sanjeev Sinha was member of Medical Board Antarctica Expedition, Government of India, Goa; Member of Scientific Committee, NACO, Ministry of Health and FW, Government of India; Member of Health Wellness Programme, Ministry of Tourism, Government of India; *Membership of Editorial Boards of Indexed International Journals/Review Committees of National Bodies and Institutions:* Editorial board of “Cases Journal”, Review Committee of Journal of Physical Education and Sport Management. Published from South Africa, Review Committee of Journal IJMR, Review Committee of Journal of Current HIV Research, Review Committee of Projects Funded by DHR, ICMR, Government of India.

Professor Naval K Vikram was elected as member of ‘National Academy of Medical Sciences’ for the year 2018.

9.20. Microbiology

Professor and Head

Gita Satpathy

Professors

Rama Chaudhry

Bimal K Das

Immaculata Xess

Arti Kapil

Bijay Ranjan Mirdha

Seema Sood

Lalit Dar

Benu Dhawan

Urvashi B Singh

Assistant Professors

Sarita Mohapatra

Hitender Gautam

Aashish Choudhary

Nishant Verma

Gagandeep Singh

Nishat Hussain Ahmed

Kiran Bala

Megha Brijwal

HIGHLIGHTS

The Department of Microbiology has always been dedicated towards patient care, teaching, research and CME Programmes. It has been actively involved in teaching undergraduate and postgraduate students enrolled in MBBS, MD, PhD and BSc (Nursing) courses. The DM (Infectious Diseases) course (3- and 6-years programmes) have continued with the Department of Medicine.

The Department of Microbiology, which is an essential component of health care services, contributed significantly towards patient care. During this year, it carried out a total of **2,78,425 diagnostic tests** and played a prime role in hospital infection control. The external inspection committee for Kaya Kalp made several visits to laboratories and other areas of the department and were extremely satisfied with the level of cleanliness and bio-medical waste management standards being followed. The department initiated the process of NABL accreditation for most of its sections.

The department made a significant contribution in terms of research with 80 publications in indexed national and international journals. Several funded research projects were started or continued during the period, many of which were in collaboration with other departments or institutes. Many award winning oral and poster presentations were made at national and international conferences.

The department was involved in the organization of a public lecture on World Hand Hygiene Day and a Two-Days' Symposium (CME) on World TB Day.

EDUCATION

Undergraduate teaching

MBBS for Medical Microbiology

BSc (Nursing) for Medical Microbiology

Postgraduate teaching

PhD (Microbiology):

- Lecture - Once/week

- Journal Club - Once/week

MD (Microbiology)/DM (Infectious Diseases):

- Lecture - Once/week

- Journal Club - Once/week

- Tutorial - Twice/month

- Practical Exercise presentation - Twice/month

Short-Term Training

The department provided short-term training to 12 candidates from various parts of the country.

CME/Workshops/Symposia/National and International Conferences Organized by the department:

1. Public lecture on World Hand Hygiene Day, 5 May 2017
2. Two-Days' Symposium (CME): World TB Day—'Wanted: Leaders for a TB free world, you can make history, End TB', 21-22 March 2018, AIIMS, New Delhi

Lectures delivered

Rama Chaudhry

1. Exploring Indian Gut Microbiota in inflammatory bowel disease and colon carcinoma, 2nd Probiotics Congress: Asia and 3rd Microbiome R&D and Business Collaboration Congress: Asia, 1-2 March 2017, Hong Kong
2. *Mycoplasma genitalium*—An Update, MICROCON 2017 at R.I.M.S., 22-26 November 2017, Ranchi, Jharkhand

Arti Kapil

1. AMR in India: The current scenario, CG MICROCON 2017 at AIIMS, Raipur, 17 September 2017, Raipur, Chattisgarh
2. Interpretation of laboratory reports on AMR and clinical correlation, 73rd Annual Conference of API, 24 February 2018, Bengaluru
3. Role of HAI in ASP, 73rd Annual Conference of API, 24 February 2018, Bengaluru

Lalit Dar

1. Viral hepatitis: Laboratory diagnosis, National Centre for Disease Control (NCDC) Annual Day at NCDC, 28 July 2017, Delhi
2. Respiratory viral infections: An emerging challenge, 1st Annual State Conference MICROCON at AIIMS Raipur, 16 September 2017, Raipur, Chattisgarh
3. Diagnostic challenges: BK polyomavirus and human papillomavirus infections, Indian Society of Organ Transplantation Conference (ISOT 2017), 14 October 2017, Indore, MP
4. Immune profile and diagnosis of viral hepatitis, 41st Annual Conference of the IAMM-MICROCON 2017 at R.I.M.S., 26 November 2017, Ranchi, Jharkhand
5. Do we face the same problem in viral diarrhea? 41st Annual Conference of the IAMM-MICROCON 2017 at R.I.M.S., 26 November 2017, Ranchi, Jharkhand
6. Diagnosis of respiratory viral infections, Centre for Biotechnology, Maharshi Dayanand University (MDU), 29 November 2017, Rohtak, Haryana
7. Interactive large group teaching and lesson planning, Basic Course Workshop in Medical and Health Professionals Education at CMET, AIIMS, 15 March 2018, New Delhi
8. Assessment of knowledge—Improving essay questions and short note answer questions, Basic Course Workshop in Medical and Health Professionals Education at CMET, AIIMS, 16 March 2018, New Delhi

Immaculata Xess

1. CNS fungal infections, IAMM-Delhi Chapter at Apollo Hospital, 14 October 2017, New Delhi
2. Do we need routine *AFST*? 12th Conference of Society for Human and Animal Mycologists at St. John's Medical College, 2-4 March 2018, Bengaluru

Seema Sood

1. Novel strategies to improve STI screening, 22nd Annual Scientific Sessions, College of Sexual Health and HIV Medicine (CoSHH)—In collaboration with IUSTI, 5-6 October 2017, Colombo, Sri Lanka
2. Testing for STIs: Novel approaches, 41st National Conference of IASSTD and AIDS (ASTICON-2017), 24-26 November 2017, Bhubaneswar
3. Community-Acquired Pneumonia (CAP), CME on Airborne Infectious Diseases at ESIC Medical College, Hyderabad, 16 December 2017, Hyderabad
4. Plenary lecture: Journey of an in house PCR for diagnosis of Gonorrhoea, Workshop on “Molecular Diagnostics of Infectious Diseases: Advances and New Applications” at Dr B.R. Ambedkar Center for Biomedical Research, DU, 16 March 2018, Delhi

Urvashi B. Singh

1. Challenges in diagnosis of extrapulmonary TB, Medicine Update at MAMC, New Delhi, 11 March 2018, New Delhi
2. Latent tuberculosis: Evidence revisited, World Tuberculosis Day Symposium at AIIMS, 22 March 2018, New Delhi
3. End TB strategy, Panel Discussion, Pulmocrit 2018 at AIIMS, New Delhi, 31 March 2018, New Delhi

Sarita Mohapatra

1. Dental caries and microbiology, Oral Microbiology, 8 September 2017, Patna
2. Hand hygiene, Hospital Infection Control and Prevention at AIIMS, 15 March 2018, New Delhi
3. Catheter associated Urinary Tract Infection, Quality Care and Infection Control Strategies at AIIMS, 16 March 2018, New Delhi
4. Introduction to HAI: An overview in Neurosciences Centre, Quality Care and Infection Control Strategies at AIIMS, 16 March 2018, New Delhi

Aashish Choudhary

1. Dengue and Zika—Interaction between viruses (Antibody dependent enhancement), International Symposium on Dengue, Zika and Chikungunya: Organized by AIIMS, Foundation De L'Academiae De Medicine (FAM), The Paris Descartes University, Sanofi Pasteur and The French Embassy in India at AIIMS, 28 April 2017, New Delhi

Gagandeep Singh

1. Infection Control Committee—Structure, role and responsibility, 41st National Conference of the Indian Association of Medical Microbiologists at R.I.M.S., 22-26 November 2017, Ranchi
2. Reuse of 'Single use devices', 41st National Conference of the Indian Association of Medical Microbiologists at R.I.M.S., 22-26 November 2017, Ranchi
3. Fungal infections: Reducing time for diagnosis, IAMM-Delhi Chapter, 8 December 2017, New Delhi
4. Management issues in hospital laboratory services, 93rd Training Course on Hospital Administration for Senior Hospital Administrators at N.I.H.F.W., 5-23 February 2018, New Delhi
5. Entomophthoromycosis, 12th Conference of Society for Human and Animal Mycologists at St. John's Medical College, 2-4 March 2018, Bengaluru
6. Sterilization and disinfection, Residents Induction Training and Nurses Training Programme on Infection Control at AIIMS, New Delhi
7. Standard precautions, Residents Induction Training and Nurses Training Programme on Infection Control at AIIMS, New Delhi

Hitender Gautam

1. Biomedical waste segregation and Management guidelines for residents, Hospital Infection Control Training Program for Residents of AIIMS, 5-6 September 2017, New Delhi
2. Standard precautions, Hospital Infection Control Training Program for Residents of AIIMS at CMET, AIIMS, 7 September 2017, New Delhi
3. Transmission based precautions, SGPGIHICON-2017, National CME cum Workshop on Hospital Infection Prevention and Control Practices and Antimicrobial Stewardship Program at SGPGIMS, 14 December 2017, Lucknow
4. Scope of research in hospital infection control, 2nd National Workshop on Hospital Infection Control at JIPMER, 2 February 2018, Puducherry
5. Overview of health care associated infections, Workshop on Prevention of Central-Line Associated Blood Stream Infections at Ramalingaswami Board Room, AIIMS, 26 February 2018, New Delhi
6. Sterilization and disinfection, Workshop on Quality Care and Infection Prevention Strategies at AIIMS, 16 March 2018, New Delhi

Nishant Verma

1. Newer parasitic diarrhea, 41st Annual Conference of the IAMM-MICROCON 2017 at R.I.M.S., 26 November 2017, Ranchi, Jharkhand

Nishat Hussain Ahmed

1. How to ensure a sterile OT, Joint DOS-SPOSI International Congress, 10 December 2017, New Delhi

Kiran Bala

1. Gene Xpert in diagnosis of extra pulmonary TB, World Tuberculosis Day Symposium at AIIMS, 22 March 2018, New Delhi

Megha Brijwal

1. Laboratory diagnosis of Dengue and Chikungunya infections, National Training of Trainers on the Clinical Management of Dengue/Chikungunya Cases: Organized by the MOHFW and the NVBDCP, 28 June 2017, New Delhi

Oral Papers/Posters Presented

1. Ahmed NH, Satpathy G, Sharma N, Tandon R, Titiyal JS. Leading bacterial pathogens causing Infective Keratitis and their Antimicrobial Susceptibility in a Tertiary Care Eye Centre from North India, Clinical Infectious Diseases Society of India, National Conference (CIDSCON) 2017, 19 August 2017, Nagpur, Maharashtra
2. Anjana A, Sood S, Chaudhry R, Kapil A, Sharma PK, Gupta S. A pilot study to determine NG, CT co-infection rates in symptomatic patients attending STI clinics, 41st National Conference of IASSTD and AIDS (ASTICON-2017), 24-26 November 2017, Bhubaneswar
3. Arif N, Sebastian S, Khanna N, Sood S, Dhawan B. Comparative analysis of Syndromic Case Management and PCR based diagnostic assays for treatment of *Neisseria gonorrhoeae*, *Chlamydia trachomatis* and Genital mycoplasmas in patients of genitourinary discharge. Indian Association of Medical Microbiologists (IAMM)-Delhi Chapter, 14 October 2017, New Delhi (**IAMM Best Poster Award**)
4. Bahadur T, Bamola VD, Chutani AM, Chaudhry R. Exploring gut microbial diversity of 16S rRNA gene (V3 region) by next generation sequencing and DGGE in Indian obese and lean individuals, 4th Biennial Conference of PAi and International Symposium on "Probiotic Therapy: Translating to Health and Clinical Practice", 16-17 February 2018, New Delhi (**Best Poster Award**)
5. Bahadur T, Chaudhry R, Bamola VD, Chutani AM. Next generation sequencing shows variations in the human gut Microbiota composition between obese and lean individuals in Indian population, 41st Annual Conference of Indian Association of Medical Microbiologist (MICROCON 2017), 22-26 November 2017, Ranchi
6. Bamola VD, Pandey D, Samanta P, Kapardar R, Lal B, Chaudhry R. Next generation sequencing based analysis of human gut Microbiota in Indian Healthy Subjects, Inflammatory bowel disease and colon carcinoma patients, 4th Biennial Conference of PAi and International Symposium on "Probiotic Therapy: Translating to Health and Clinical Practice", 16-17 February 2018, New Delhi (**Best Poster Award**)
7. Bhattacharya A, Xess A, Bala K, Singh U. *M. abscessus* infection in post knee replacement—A case report, World Tuberculosis Day Symposium, 21 March 2018, New Delhi
8. Bir R, Mohapatra S, Kumar A, Kapil A. Comparative evaluation of in-house Carba NP test with commercial Carba NP, modified hodge test and CHROM agar for rapid detection of carbapenemase producing carbapenem resistant enterobacteriaceae, ASM Microbe 2017, June 2017, New Orleans, USA
9. Chaudhry R, Sreenath K, Valavane A, Vinayaraj EV, Sagar T. The high prevalence of *Legionella pneumophila* serogroup 1 contamination in the water facilities of a tertiary care center in North India, ASM MICROBE, 1-5 June 2017, New Orleans, USA
10. Choudhary A, Brijwal M, Das R, Dar L. Dengue virus circulating serotypes: Trends over two decades at a tertiary care centre in New Delhi, 26th National Conference of Indian Virological Society (IVS), VIROCON 2017, 7 December 2017, Mangalore, Karnataka
11. Das R, Khot W, Brijwal M, Choudhary A, Sinha S, Dar L. Neurological manifestations in Chikungunya fever: A case series Indian Association of Medical Microbiologists (IAMM)—Delhi Chapter, 14 October 2017, New Delhi (**Best Poster Award**)
12. Garg A, Chopra S, Das N, Goel R, Gautam H, Rath S, ..., Sood S, Kapil A, Das BK, et al. Antimicrobial resistance among gram-negative Bacilli causing healthcare associated Meningitis: A single tertiary care center study, United States and Canadian Academy of Pathology, USCAP 107th Annual Meeting, 17-23 March 2018, Vancouver, Canada
13. Gautam H, Das BK, Dhawan B, Sood S, Mohapatra S, Shukla NK, ..., Kapil A, et al. Surgical site infections among cancer patients in a tertiary care hospital in North India MICROCON 2017, The 41st National Conference of the Indian Association of Medical Microbiologists, 25 November 2017, Ranchi
14. Kapil A, Sharma P, Dahiya S, Kumari B, Pandey S, Manral N. Emergence of Azithromycin Resistance in Typhoid Fever, 66th Annual Conference of Indian Association of Pathologists and Microbiologists and International Academy of Pathology Indian Division, 7-10 December 2017, Bhopal
15. Kapil A, Malik R, Lodha R, Dahiya S, Kumari B, Sangeeta P, Manral N, Sharma P, Kabra S. Changing clinical and microbiological characteristics of enteric fever in patients attending tertiary care hospital of North Delhi, 3rd International Conference on Medical and Health Sciences, 3-5 November 2017, Thimphu, Bhutan

16. Khullar S, Singh P, Gupta V, Verma N, Mirdha BR. Intestinal parasitosis in immunocompromised patients in a tertiary care centre, 11th National Conference of Indian Academy of Tropical Parasitology (TROPACON 2017), 6-8 September 2017, Gangtok, Sikkim
17. Kumar A, Mohapatra S, Kapil A, Bakhshi S, Mahapatra M, Das BK, Sood S. Rectal Carriage of Carbapenemase Resistant Enterobacteriaceae: A menace to highly vulnerable patients, MICROCON, November 2017, Ranchi
18. Lall M, Dar L, Namdeo D, Brijwal M, Choudhary A, Kumar P. Molecular study of Herpes Simplex Viruses (HSV 1&2) and Human Cytomegalovirus (HCMV) in women infected with human immunodeficiency virus type 1 (HIV-1), 9th Annual Conference of the IAMM Delhi Chapter: MICRO-D-CON 2017, 8 December 2017, New Delhi
19. Mahajan N, Sood S, Das BK, Kapil A, Sreenivas V, Kar HK, Sharma VK. Characterization of resistance determinants in ceftriaxone Decreased Susceptibility (DS) isolates of *Neisseria Gonorrhoeae* in New Delhi, India 41st National Conference of IASSTD and AIDS (ASTICON-2017), 24-26 November 2017, Bhubaneswar (**Received Dr V. Govindan Nair Memorial Award**)
20. Maheshwari B, Sharma N, Prakash R, Verma S, Singh U. Stumbling blocks for shorter MDR-TB regimen: Pyrazinamide resistance among MDR-TB patients, Indian Association of Medical Microbiologists Conference, 25 November 2017, Ranchi
21. Namdeo D, Choudhary A, Ahuja V, Sreenivas V, Dar L. Prevalence of Human Cytomegalovirus (HCMV) in colonic biopsies in patients with Ulcerative Colitis, 41st Annual Conference of the IAMM-MICROCON 2017, 24 November 2017, Ranchi
22. Pandey D, Bamola VD, Samanta P, Kapardar R, Lal B, Chaudhry R. A study to assess human gut Microbiota and their metabolic end products using 16s rDNA sequencing and short chain fatty acids in Indian population, 4th Biennial Conference of PAi and International Symposium on “Probiotic Therapy: Translating to Health and Clinical Practice”, 16-17 February 2018, New Delhi (**Young Investigator Award**)
23. Panigrahy A, Xess A, Bala K, Singh U. A positive AFB smear—Not Mycobacterium tuberculosis complex always! (a microbiological perspective), World Tuberculosis Day Symposium, 21 March 2018, New Delhi
24. Perumalla S, Verma N, Gupta V, Mirdha BR. Comparative analysis of different diagnostic methods for Lymphatic Filariasis, 11th National Conference of Indian Academy of Tropical Parasitology (TROPACON 2017), 6-8 September 2017, Gangtok, Sikkim
25. Prakash R, Sharma N, Maheshwari B, Verma S, Singh U. Antigen based detection where nucleic acid amplification test fails for diagnosis of extrapulmonary tuberculosis, Indian Association of Medical Microbiologists Conference, 25 November 2017, Ranchi
26. Ramprasad A, Verma N, Makharia GK, Gupta V, Mirdha BR. *Strongyloides* hyperinfection with steroid therapy, 11th National Conference of Indian Academy of Tropical Parasitology (TROPACON 2017), 6-8 September 2017, Gangtok, Sikkim
27. Rawre J, Dhawan B, Sreenivas V, Khanna N, Chaudhry R. Prevalence and distribution of *Ureaplasma spp.* and *Chlamydia trachomatis* serovars in patients with urogenital infections in a tertiary care hospital, New Delhi, ASM—X Annual Conference cum Workshop by Indian Association of Mycoplasmologists, 20-21 March 2017, New Delhi (**Snehalata Memorial Award for best oral presentation**)
28. Sahoo B, Das BK, Gautam H, Kumar A, Bhatia S. Retrospective study to assess prevalence of syphilis among human immunodeficiency virus positive patients, MICROCON 2017, The 41st National Conference of the Indian Association of Medical Microbiologists, 25 November 2017, Ranchi
29. Sahoo B, Mohapatra S, Shivani, Das BK, Sood S, Kapil A. Fosfomycin: A new ray of hope against multidrug resistant uropathogens, IAMM, Delhi Chapter, April 2017, Delhi
30. Samanta P, Bamola VD, Chaudhry R. Immuno-modulatory activity of indigenous *Lactobacillus salivarius* of human origin on gastrointestinal cell line, 41st Annual Conference of Indian Association of Medical Microbiologist (MICROCON 2017), 22-26 November 2017, Ranchi
31. Samanta P, Bamola VD, Chaudhry R. Gastrointestinal survival, adhesion and immuno-modulatory potential of indigenous *Lactobacillus fermentum* of human origin, 4th Biennial Conference of PAi and International Symposium on “Probiotic Therapy: Translating to Health and Clinical Practice”, 16-17 February 2018, New Delhi (**Young Investigator Award**)
32. Samanta P, Bamola VD, Chaudhry R. Antagonistic properties of indigenous *Lactobacillus* species isolated from human gut against clinical isolates of *Clostridium difficile*, 4th Biennial Conference of PAi and International Symposium on “Probiotic Therapy: Translating to Health and Clinical Practice”, 16-17 February 2018, New Delhi
33. Sebastian S, Dhawan B, Malhotra R, Kapil A, Chaudhry R, Sreenivas V, A clinico-microbiological study of prosthetic joint infections in an Indian tertiary care hospital, ASM—X Annual Conference cum Workshop by Indian Association of Mycoplasmologists, 20-21 March 2017, New Delhi

34. Sharma N, Maheshwari B, Prakash R, Verma S, Singh U. Late bloomers in rapid culture for tuberculosis, Indian Association of Medical Microbiologists Conference, 25 November 2017, Ranchi
35. Shende T, Singh G, Xess I, Kumar A, Padma MV. Non-capsulated *Cryptococcus neoformans* causing chronic meningitis in immunocompetent male: A diagnostic challenge, IAMM-DC, 14 October 2017, New Delhi
36. Maurya SP, Das BK, Ranga UK, Singh R, Kapil A, Sinha S, ...Luthra K. NfKb p65 protein may be useful in patients suspected to have AIDS—Oral Presentation, National Language Seminar, Desert Medicine Research Centre, 29-30 October 2017, Jodhpur, Rajasthan
37. Singh G, Xess I, Agarwal R, Shende T, Padma MV. Performance of the Cryptococcal Antigen Lateral Flow Assay (Crypto-PS) in patients with Cryptococcal meningitis, MICROCON 2017, 25 November 2017, Ranchi
38. Singh S, Gupta S, Dhawan B, Yadav D, Kaul S, Bhatia R. Molecular detection of bacterial pathogens and clinical and laboratory response of syndromic management in patients with cervical discharge and pelvic inflammatory disease, 41st Indian Association for the Study of Sexually Transmitted Disease and AIDS, 24 November 2017, Bhubaneswar (**Awarded IUSTI-IASSTD and AIDS Scholarship**)
39. Sood S, Mahajan N, Bala M, Singh R, Kapil A, Srinivas V, Kar HK, Sharma VK. Antimicrobial Resistance (AMR) and NG-MAST profile of Neisseria Gonorrhoeae isolates collected from STD patients from across India, STI and HIV World Congress (Joint Meeting of the 22nd ISSTD and 18th IUSTI), 9-12 July 2017, Rio, Brazil
40. Thakur C, Gupta N, Das BK, Sood R, Chaudhry R. Scrub Typhus—A glimpse on recent scenario: From 2013-2017, New Delhi, India, MICROCON 2017, 22-26 November 2017, Ranchi (**Dr SS Kelkar Memorial prize for the best poster**)
41. Valavane A, Chaudhry R, Sreenath K, Choudhry M, Sagar T, Shende T, Varma M, Mohanty S, Kabra SK, Dey AB, Thakur B. Detection of *Mycoplasma pneumoniae* and *Legionella pneumophila* in patients having community acquired pneumonia: A study from New Delhi, India, ASM-X National Conference Cum Workshop of Indian Association of Mycoplasmologists, 20-21 March 2017, New Delhi (**Dr Rama Kant Memorial Award**)
42. Valavane A, Chaudhry R, Choudhary M, Kapil A, Lodha R, Kabra SK. Bacterial etiology of acute respiratory infection in infancy—A prospective study, ASM-X National Conference Cum Workshop of Indian Association of Mycoplasmologists, 20-21 March 2017, New Delhi
43. Verma N, Kumar V, Kant K, Mirdha BR. Retinal detachment due to *Baylisascaris* “first time caught under the microscope!”—A rare case report, 27th European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), 22-25 April 2017, Vienna, Austria
44. Xess I, Dabas Y, Mohan A. Risk factors and prediction markers for mortality in an ICU subpopulation with clinical suspicion of Invasive Aspergillosis, 8th Trends in Medical Mycology (TIMM) 2017, 6-9 October 2017, Belgrade, Serbia
45. Yadav D, Arif N, Sebastian S, Dhawan B, Khanna N. A case of oro-pharyngeal *Ureaplasma urealyticum* infection in RV positive bisexual male co-infected with any-genital warts and latent syphilis, 41st Indian Association for the Study of Sexually Transmitted Disease and AIDS, 24 November 2017, Bhubaneswar (**Dr C N Sowmini Award for poster presentation**)

RESEARCH

Funded projects

Ongoing

1. The Asia Cornea Society Infectious Study (ACSIKS), Gita Satpathy, Asia Cornea Foundation, Third Hospital Avenue, Singapore, 2 years, 2016-2018, Rs 16 lakhs
2. A study to assess the effect of a probiotic strains (*Bacillus clausii*) on gut Microbiota and mucosal immunity in Inflammatory Bowel Disease (Ulcerative Colitis/Crohn's Disease), Rama Chaudhry, Unique Biotech Pvt Ltd, Hyderabad, 2 years, 2017-2019, Rs 40 lakhs
3. Characterization of bacteriocins produced by *Lactobacillus* and assessment of antimicrobial profile, Rama Chaudhry, AIIMS, 1 year, 2017-2018, Rs 4.5 lakhs
4. Nodal Center for National Surveillance of Antimicrobial Resistance—2013-2017 ICMR, New Delhi, Arti Kapil, ICMR, 5 years, 2014-2019, Rs 60 lakhs for 1st year
5. Defining ECOFF value for Azythromycin susceptibility in *Salmonella enterica* serovar Typhi and Paratyphi A, Arti Kapil, ICMR, 2 years, 2015-2017, Rs 22 lakhs
6. NACO Regional Reference Lab for HIV Viral Load (VL) and Early Infant Diagnosis (EID), Lalit Dar, National AIDS Control Organization (NACO), No fixed duration, 2012-Ongoing, Rs 10.98 lakhs (per annum) + reagent support

7. National Vector Borne Disease Control Programme Apex Laboratory for Dengue and Chikungunya, Lalit Dar, National Vector-Borne Disease Control Programme (NVBDCP), No fixed duration, 2012-Ongoing, Rs 3 lakhs (per annum) + reagent support
8. Enhancing bio-risk mitigation awareness in public health community and creating lab networks for surveillance and outbreaks of high-risk group viral pathogens causing VHF and respiratory infections, Lalit Dar, Centre for Disease Control (CDC), Atlanta (through NIV, Pune), 5 years, 2015-Ongoing, Rs 44.38 lakhs (per annum)
9. Quantitative real time PCR and genotyping for Human Cytomegalovirus (HCMV) in Ulcerative Colitis, Lalit Dar, ICMR, 3 years, 2014-2018, Rs 7.08 lakhs
10. External Quality Assessment Programme—HIV/AIDS, Bimal Kr. Das, National AIDS Control Organization, Continue Programme, 2005-ongoing, Rs 12 lakhs
11. Flow Cytometer (CD4) ART Programme—HIV/AIDS, Bimal Kr. Das, National AIDS Control Organization, Continue Programme, 2005-ongoing, Rs 40,000
12. NACO National Integrated Biological and Behavioral Surveillance (IBBS) for Dried Blood Spot (DBS) activity for HIV and HCV test, Bimal Kr. Das, NACO National Integrated Biological and Behavioral Surveillance (IBBS), Continue Programme, 2016- ongoing, Rs 1.5 lakhs
13. Identification of *Plasmodium falciparum* cytoadherence molecule in Cerebral malaria, B.R. Mirdha, DBT, 2 years, 2016-2017, Rs 36 lakhs
14. Early detection of *Hemophilus ducreyi*, *Treponema pallidum*, Herpes Simplex Virus type 1 and 2 from patients with genital ulcer disease by Multiplex PCR in a tertiary care hospital, Benu Dhawan, ICMR, 3 years, 2017-2020, Rs 37.63 lakhs
15. Invasive fungal infections: Epidemiology, drug resistance and molecular characterization of the clinical and environmental isolates from the hospital, Immaculata Xess, ICMR, 3 years, 2017-2020, Rs 52 lakhs
16. Molecular analysis of *N. gonorrhoeae* isolates obtained from STD patients from across the country with in vitro decreased susceptibility to cephalosporins and macrolide resistance, Seema Sood, ICMR, 2.5 years, 2015-2017, Rs 35 lakhs
17. Nano-enabled biosensor for detection of *N. gonorrhoeae*, Seema Sood, DBT, 3 years, 2016-2019, Rs 50 lakhs
18. Crohn's Disease in India: A multicenter study from a country where intestinal tuberculosis as well as Crohn's Disease is endemic, Urvashi B Singh, DHR, 3 years, 2016-2019, Rs 5 crores (approx.)
19. Utility of Moxifloxacin as a treatment option in Pre-XDR- TB, Urvashi B Singh, Delhi State OR Task Force, RNTCP, 1 year, 2017-2018, Rs 2 lakhs
20. Prognostic value of serum markers in Category II tuberculosis patients, Urvashi B Singh, Delhi State OR Task Force, RNTCP, 1 year, 2017-2018, Rs 2 lakhs
21. Diagnosis of pulmonary and extra pulmonary tuberculosis patients using differentially expressed proteins as potential biomarkers: An approach towards development of point of care test, Urvashi B Singh, ICMR, 3 years, 2018-2021, Rs 60 lakhs (approx.)
22. Rapid molecular drug resistance detection for MDR and XDR-TB and molecular typing of *Mycobacterium tuberculosis* from Ziehl-Neelsen's stained microscopic slides from Delhi state, Urvashi B Singh, ICMR, 3 years, 2018-2021, Rs 60 lakhs (approx.)
23. Mapping hotspots of MDR-TB in Sikkim, Assam and Tripura using genomics approaches, Urvashi B Singh, DBT-NER, 3 years, 2018-2021, Rs 4 crores (approx.)
24. Validation of novel bio-signature for diagnosis of active pulmonary tuberculosis in children, Urvashi B Singh, DBT, 3 years, 2018-2021, Rs 38 lakhs
25. Design and validation of point of care disposable sensor strip for diagnosis of tuberculosis from urine samples, Urvashi B Singh, DBT, 3 years, 2018-2021, Rs 60 lakhs (approx.)
26. Multi-centric validation of conventional phenotypic assays for diagnosis of drug resistant tuberculosis from sputum samples, Urvashi B Singh, DBT, 2 years, 2018-2020, Rs 100 lakhs (approx.)
27. Validation of indigenously developed technologies for diagnosis of pediatric pulmonary tuberculosis: Multicentric, Urvashi B Singh, ICMR, 1 year, 2018-2019, Rs 1.25 crores (approx.)
28. Validation of indigenously developed technologies for diagnosis of extra-pulmonary tuberculosis: Multicentric, Urvashi B Singh, ICMR, 1 year, 2018-2019, Rs 1.25 crores (approx.)
29. Prevalence and molecular characterization of Occult Hepatitis C Infection (OCI) in patients with cryptogenic liver disease, Aashish Choudhary, AIIMS, New Delhi, 2 years, 2015-Onwards, Rs 3.45 lakhs (per annum)

30. Prevalence of Histoplasmosis in HIV positive patients, Gagandeep Singh, AIIMS, New Delhi, 2 years, 2017-2019, Rs 6 lakhs
31. To study the association of *Mycobacterium tuberculosis* with pancytopenia, Hitender Gautam, AIIMS, New Delhi, 1 year, 2016, Work carried in 2017-2018 also, Rs 4.5 lakhs
32. Prevalence of Microsporidia and their molecular characterization, Nishant Verma, AIIMS, New Delhi, 1 year, 2015-2016, Work carried in 2017-2018 also, Rs 5 lakhs
33. Establishment of Multiplex PCR for detection of Herpes Simplex Viruses Type 1 and Type 2, Cytomegalovirus, Varicella-Zoster Virus and Adenovirus in Ocular Viral Infections, Nishat Hussain Ahmed, AIIMS, New Delhi, 2 years, 2016-2018, Rs 7.7 lakhs
34. Clinical evaluation of viability assays for assessing treatment response in pulmonary tuberculosis, Kiran Bala, AIIMS, New Delhi, 1 year, 2018-2019, Rs 4.94 lakhs
35. Detection and genotyping of BK polyomavirus in renal transplant recipients, Megha Brijwal, AIIMS, New Delhi, 2 years, 2017-2019, Rs 4.2 lakhs per annum

Completed

1. Analysis of human gastrointestinal microbial diversity by molecular methods and application of Metagenomic for isolation of novel bacteriocin, Rama Chaudhry, DBT, 5 years, 2011-2016, Rs 51.72 lakhs
2. A clinical study on the investigation of carries risk in children with Clify Lip and or Palate (CL/P) and non-cleft control, Rama Chaudhry, AIIMS, 1 year, 2016-2017, Rs 4.5 lakhs
3. In-vitro efficacy and safety evaluation of novel mucoadhesive povidone iodine and silver nanoparticle based local drug delivery system for treatment of periodontitis with Rama Chaudhry, AIIMS, 1, 2016-2017, Rs 4.5 lakhs
4. Population genetics study of *Pneumocystis jirovecii* in respiratory clinical specimens and its correlation with the clinical status of patients with Pneumocystis pneumonia, B.R. Mirdha, SERB-DST, 3 years, 2014-2017, Rs 28 lakhs
5. Development of Multiplex PCR assay for rapid detection of *Aspergillus sp* and mucormycetes from tissue sample and blood from patients with suspected invasive fungal infections and application of melting curve analysis for species identification of mucormycosis, Immaculata Xess, AIIMS, 2 years, 2016-2018, Rs 3.85 lakhs
6. Validation of indigenous diagnostic kits for detection of TB and drug resistance in TB, Urvashi B Singh, ICMR, 3 years, 2014-2017, Rs 70 lakhs
7. Intestinal colonization and blood-stream infection due to Carbapenem resistant Enterobacteriaceae in febrile neutropenic patients, Sarita Mohapatra, AIIMS, New Delhi, 2 years, 2016-2017, Rs 8.37 lakhs

Departmental projects

Ongoing

1. Molecular characterization of fungi from mycotic keratitis and invasive infections and comparison with conventional methods like direct detection and culture
2. Use of advanced genomics in Microbiology of culture negative infections
3. A study on alternate antimicrobial agents against Typhoidal *Salmonellae*
4. Incidence of Respiratory Syncytial Virus (RSV) infection in adults following haematopoietic stem cell transplantation
5. PCR for EBV DNA in suspected nasopharyngeal carcinoma patients
6. Quantitative real time PCR and genotyping for cytomegalovirus in ulcerative colitis
7. Magnitude of Prosthetic Joint Infections and role of amplification based DNA analysis for identifying microbial profile of prosthetic joint infection in a tertiary care hospital
8. Linezolid use and resistance in an Intensive Care Unit of tertiary care hospital
9. Occurrence of *Chlamydia trachomatis*, *Ureaplasma urealyticum*, *Mycoplasma hominis* and *Mycoplasma genitalium* in patients with sterile pyuria
10. *Staphylococcus aureus* colonization in HIV infected patients: Incidence, risk factors and subsequent skin and soft tissue infections
11. Real time PCR for diagnosis of invasive fungal infections
12. Prevalence of moulds and nocardial infections in patient admitted to pulmonary ward and ICU
13. Screening for *Candida* colonization, with special reference to *Candida auris* among patients admitted in Medicine ICU

14. High-Resolution Melting (HRM) curve analysis for detection of decreased susceptibility to extended spectrum cephalosporins in *N. gonorrhoeae*
15. Development of an aptamer based detection system for *N. gonorrhoeae*
16. Role of aptamer technology in detection of Bacterial Vaginosis (BV) associated bacteria
17. Detection of *N. gonorrhoeae* in genital and extra genital sites in men who have sex with men (MSM)
18. Prevalence of intestinal colonization and blood-stream infection due to Carbapenem resistant Enterobacteriaceae in haematological malignancy patients
19. Role of HCMV reactivation in causing pneumonia in immunocompetent, mechanically-ventilated patients
20. To identify prognostic markers for Category II pulmonary tuberculosis patients
21. Molecular detection of Colistin resistance in multidrug resistance gram negative bacilli from various clinical samples
22. The effects of an antimicrobial stewardship model in the medical wards and Intensive Care Unit of a tertiary care hospital
23. Microbiological follow up and genotypic investigation of close contacts of MDR-TB patients
24. Small molecule bio-signatures in diagnosis of childhood intra-thoracic tuberculosis
25. Detection and molecular characterization of microsporidia in inflammatory bowel disease
26. Association of therapeutic drug levels and worm infestation with treatment response in patients with TB lymphadenitis

Collaborative projects

Ongoing

1. Assessment of Microflora of Dental carries in Indian children using anaerobic culture and molecular techniques, CDER AIIMS
2. CDC-AIIMS cooperative agreement projects on Influenza and other respiratory viruses, Centre for Disease Control (CDC), Atlanta (USA) and Centre for Community Medicine, AIIMS
3. A multi-centric observation study to examine replicative fitness and pathogenic properties of the emerging new viral strains of HIV-1 in India, YRG Centre for AIDS Research, Chennai; National AIDS Research Institute, Pune; Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru; St. John Hospital, Bengaluru
4. National surveillance of antimicrobial resistance, PGIMER/ICMR, New Delhi
5. Comprehensive National Nutrition Survey, UNICEF
6. Epidemiology of chronic dermatophytosis, Dermatology
7. Utility of isotretinoin with or without terbinafine in patients with chronic dermatophytosis, Dermatology
8. Multi-centric prospective hospital based sentinel surveillance to determine the aetiology of acute bacterial meningitis in children, Central Research Laboratory, K.I.M.S. Hospital and Research Centre, Kempegowda Institute of Medical Sciences, Bengaluru
9. Cryptococcal antigenemia in people living with HIV and AIDS, Medicine
10. Evaluation of various clinical and immunological parameters in predicting the outcome of sino-nasal and skull base invasive fungal diseases: A descriptive study, Otorhinolaryngology
11. To study diagnostic performance of presepsin in sepsis: A pilot study, Medicine
12. Elucidating role of microRNA in the pathogenesis of active generalized vitiligo and in pigment regulation, Dermatology
13. To study the dynamic relationship of airway colonization and Endotracheal Tube Biofilm with Ventilator Associated Pneumonia, Pulmonary Medicine
14. To study the antimicrobial prescribing practices in critically ill patients in Pulmonary Medicine ICU, Pulmonary Medicine
15. Analysis of vaginal microbiome and metabolome in women affected with bacterial vaginosis before and after treatment and their correlation with relapse or recurrences, Dermatology
16. To study current practice of management of bacterial UTI in patients at AIIMS, New Delhi, Medicine
17. A proof-of-concept study of 3 days intravenous Ceftriaxone followed by switch to oral Cefexime with Nephrotic syndrome, Pediatrics
18. To determine if colonization of gut with carbapenem resistant Enterobacteriaceae in surveillance culture affect the outcome of high risk febrile neutropenic patients, Hematology

19. To study current practice in the management of bacterial urinary tract infection in patients at AIIMS, New Delhi with focus on current antibiotic usage and clinical outcome, Medicine
20. Understanding disease biology and diagnosis of bacterial sepsis in hospitalized neonates: A multi-centre study, Pediatrics
21. Multiplexed Point-of-Care Test for Acute Febrile Illness (mPOCT), Pediatrics
22. Efficacy of enriched fecal microbiota transplantation in patients with treatment naïve ulcerative colitis: A randomized control trial, Gastroenterology

Completed

1. Epidemiological study of respiratory pathogens in acute respiratory infections among children and elderly in India, Centre for Disease Control (CDC), Atlanta (USA) and Centre for Community Medicine, AIIMS
2. Live attenuated Influenza vaccine trial, Centre for Disease Control (CDC), Atlanta and Centre for Community Medicine, AIIMS
3. Prevalence and clinical outcome of respiratory viral infections among children with cancer and febrile neutropenia, Pediatrics
4. Invasive fungal infections in ICU, Medicine
5. Infections in post renal transplant patients, Nephrology
6. Candiduria in ICU patients, Medicine
7. Predictors of ventilator associated pneumonia in patients of acute exacerbation with COPD and its impact on short term and 3 months outcome, Pulmonary Medicine
8. Comparison of endotracheal tube and subglottic suction drainage with standard endotracheal tube in the incidence of airway colonization and VAP, Pulmonary Medicine
9. A phase IIB open label randomized trial to evaluate the anti-bacterial activity, pharmacokinetics, safety and tolerability of metformin when given along with rifampicin, isoniazid, pyrazinamide and ethambutol in adults with newly diagnosed sputum positive pulmonary tuberculosis: An 8-week study, Pulmonary Medicine and Sleep Disorders
10. Phase III, Randomized, Double-blind, Placebo Controlled Trial to evaluate the efficacy and safety of VPM1002, Immunovac Vaccines in Preventing of Tuberculosis Disease in Healthy household Contacts of Newly Diagnosed Sputum Positive Pulmonary TB (PTB) Patients, Pulmonary Medicine and Sleep Disorders

PUBLICATIONS

Journals: 70

Abstracts: 2

Chapters in Books: 6

Book: 1

PATIENT CARE

The Department of Microbiology carried out a total of **2,78,425 tests** during the year.

Name of assay/test/investigation	No. of tests performed	Name of assay/test/investigation	No. of tests performed
BACTERIOLOGY LAB		PARASITOLOGY LAB	
Pus samples culture and identification	19,464	Intestinal parasitosis	
Urine samples culture and identification	29,923	Stool examination—Ova/Parasites (wet mount/concentration)	2349
Blood samples culture and identification	32,036	Coccidian parasites—Mod. Acid-fast/special staining	2349
Sputum/Throat swab/Tracheal swab samples culture and identification	19,085	In-vitro culture	42
CSF samples culture and identification	9241	PCR for Microsporidia	212
Stool samples culture and identification	2380	Malaria	
Antimicrobial susceptibility testing		Giemsa staining	4276
Pus/Exudates/Tissue -Antimicrobial susceptibility testing	5839	Acridine Orange (AO) fluorescent staining	4276
Urine—Antimicrobial susceptibility testing	4710	Quantitative Buffy Coat (QBC)	4,276
Blood—Antimicrobial susceptibility testing	3843	Malaria antigen detection assay	4,276

Name of assay/test/investigation	No. of tests performed	Name of assay/test/investigation	No. of tests performed
Respiratory samples—Antimicrobial susceptibility testing	2626	Leishmaniasis (Kala azar)	
CSF and other fluids—Antimicrobial susceptibility testing	312	Giemsa staining	34
Stool—Antimicrobial susceptibility testing	0	Acridine Orange (AO) fluorescent staining	34
Total	1,29,459	Kala-azar serology (rk-39)	639
		Filariasis	
HOSPITAL INFECTION CONTROL (HIC) LAB		Direct examination and concentration of blood	339
Surveillance cultures	25,935	Thin Smear	339
CSSD/Sterilization Monitoring	3291	Thick Smear	339
Water samples	1693	Acridine Orange (AO) fluorescent staining	339
Total	30,919	Filaria antigen detection	85
		Quantitative Buffy Coat (QBC)	339
ANAEROBIC, SPECIAL PATHOGENS and MYCOPLASMA LABS		Other investigations	
Anaerobic culture (Bile, pus, drain, blood, etc)	1407	Investigation for <i>Pneumocystis jirovecii</i> infection (PCP)	270
<i>C. difficile</i> stool culture	409	Cerebrospinal fluid examination for Free Living Amoebae (FLA)	76
<i>C. difficile</i> ELISA (Toxin A and B)	409	Worm specimens	15
Campylobacter stool culture	11	Arthropod specimens	7
Anti-Bartonella IgM (IFA)	8	Parasitic serology	
Leptospira culture	127	Amoebic serology for anti-amoebic IgG antibodies by ELISA	153
Anti-Leptospira IgM (ELISA)	578	Hydatid disease serology (ELISA/IHA)	145
Urine dark ground microscopy	536	Toxoplasmosis serology for IgG antibodies by ELISA	20
Plasma dark ground microscopy	560	Miscellaneous	
Anti- <i>Legionella pneumophila</i> IgM (ELISA)	443	Examination of aspirates (Sputum. Pus etc.)	112
<i>Legionella pneumophila</i> Urine Antigen	41	Total	25,341
Legionella culture	210		
Legionella environmental sampling	35	VIROLOGY LAB	
<i>Legionella pneumophila</i> PCR	254	Influenza real time multiplex RT-PCR	1735
Scrub typhus IgM ELISA	653	HSV 1&2 DNA PCR (CSF, GUD, Ocular, etc.)	788
Scrub typhus IFA	422	HCMV DNA PCR (Urine, Colonic biopsy etc.)	1015
Scrub typhus PCR	125	HIV-1 total nucleic acid RT-PCR (Early Infant Diagnosis)	3667
ICT for Scrub typhus	552	HIV-1 RNA RT-PCR (viral load) (NACO)	2341
Anti- <i>Mycoplasma pneumoniae</i> IgM	443	Dengue, Chikungunya and Zika virus real time RT-PCR	150
<i>Mycoplasma pneumoniae</i> culture	254	BK polyoma virus real time RT-PCR	16
<i>Mycoplasma pneumoniae</i> PCR	254	Varicella Zoster Virus (VZV) DNA PCR	9
<i>Mycoplasma hominis</i> culture	343	John Cunningham (JC) virus real time PCR	3

Name of assay/test/investigation	No. of tests performed	Name of assay/test/investigation	No. of tests performed
<i>Mycoplasma hominis</i> PCR	415	Cell culture (Influenza, Dengue, HSV 1&2)	341
<i>Ureaplasma urealyticum</i> culture	343	HCMV pp65 antigenemia (Immunofluorescence)	35
<i>Ureaplasma urealyticum</i> PCR	415	Dengue NS1 antigen (ELISA)	2517
Anti- <i>Chlamydia pneumoniae</i> IgM (ELISA)	443	Anti-Dengue IgM (ELISA)	3643
<i>Chlamydia trachomatis</i> PCR	435	Anti-Chikungunya IgM (ELISA)	692
Strains for inter laboratory comparison of anaerobes	9	Anti-Japanese Encephalitis IgM (ELISA)	33
Total	10,134	Anti-EBV (VCA) IgM	11
		Complement fixation test (CFT)- for SSPE diagnosis	160
MYCOLOGY AND ICP LAB.		Tzanck Smear (for HSV 1&2, VZV)	11
Respiratory (BAL, Sputum, Tracheal aspirate)	4921	Total	17,167
Urine	1393		
C.S.F	1197	SEXUALLY TRANSMITTED DISEASES (STD) LAB	
Miscellaneous (Plates, Catheter tips)	1390	High Vaginal Swabs (HVS)	304
Pus	256	Semen	1028
Tissue/Biopsy	573	Expressed Prostatic Secretions (EPS)	48
Skin scrapings/Nail/Hair	608	Urethral discharge	38
Bone Marrow	135	Cervical discharge	198
Blood/Blood BACTEC	919	Vaginal discharge	10
Cryptococcal antigen	1309	Pharyngeal swabs	99
Aspergillus antibody	121	Rectal swabs	14
Galactomannan antigen	331	Antimicrobial susceptibility testing	
Histoplasma antibody	71	High Vaginal Swabs (HVS)	77
Histoplasma PCR	5	Semen	83
Cryptococcus PCR	3	Expressed Prostatic Secretions (EPS)	8
Panfungal PCR	11	Urethral discharge	6
Aspergillus PCR	1	Cervical discharge	–
Antifungal susceptibility test	200	Vaginal discharge	1
Swab	178	Pharyngeal swabs	–
Peritoneal/ Pleural/Synovial Fluid	248	Rectal swabs	1
Total	13,870		1915
HIV IMMUNOLOGY LAB		TUBERCULOSIS LAB.	
HIV testing	2561	Smear for Ziehl-Neelsen (ZN) staining	8811
CD4 counts	7945	Lowenstein-Jensen (LJ) medium— Culture and Sensitivity	3887
Western blot for HIV indeterminate samples	7	Rapid Culture on MGIT 960 + Drug Sensitivity	2476
HCV Testing of DBS samples (NACO surveillance activity: Jharkhand)	3303	PCR for <i>Mycobacterium tuberculosis</i>	5737
Total	13,816	Genxpert MTB/RIF	1285
		ADA test	552
SEROLOGY LAB		Total	22,748

Name of assay/test/investigation	No. of tests performed	Name of assay/test/investigation	No. of tests performed
VDRL	8303		
Widal	4490		
TPHA	167		
Anti-Streptolysin O (ASO)	96		
Total	13,056		

HIV laboratory:

- NABL accreditation: Successful NABL reassessment in July 2017
- ICTC activity: Pre-test counseling (2612 patients), Post test counseling (2216 patients), Referred to RNTCP center (29 patients)
- Quality Control Program (External Quality Control Activities)
 - o EQAS activity with Apex Lab National AIDS Research Institute, Pune, July 2017 and January 2018 (twice/year)
 - o EQAS Panel Distributed to 4 State Reference Laboratories (SRLs), July 2017 and January 2018 (twice/year)
- International EQAS activity with National Serology Reference Laboratory (NSRL) Australia, June 2017 and September 2017, Performance: 100%

Parasitology laboratory:

- Quality Control Program (External Quality Control Activities)
 - o Accorded Grade A for EQAS activity for its routine diagnostic services with Indian Academy of Tropical Parasitology

Virology laboratory:

- NABL accreditation: National AIDS Control Organization (NACO) Regional HIV Reference Laboratory for HIV-1 Early Infant Diagnosis (EID) and Viral Load (VL)

STD Laboratory:

- External quality assessment: Participated in External Quality Assurance (EQA) programme of WHO GASP (Gonococcal Antimicrobial Surveillance Programme) and our percentage score was 99.1%

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor Gita Satpathy served as the SAC Committee member for RMRC, Bhubaneswar

Professor Rama Chaudhry was appointed as member of ASM Ambassador Leadership Circle (ALC) for 2017-2019; ASM international ambassador 2016-2018; Conferences and workshops organized: 4th Biennial Conference of PAI and International Symposium on “Probiotic Therapy: Translating to Health and Clinical Practice” on 16 and 17 February 2018 at AIIMS, New Delhi, India; Chaired a session in 2nd Probiotics Congress: Asia and 3rd Microbiome R&D and Business Collaboration Congress: Asia held on 1-2 March 2017 in Hong Kong; Chaired a session on Sexually Transmitted Infections in MICROCON, 22-26 November 2017, Ranchi; Chaired a session on Biomedical Waste Lab’s Perspective in Pathcon and Lab Expo 2017, 16-17 December, New Delhi.

Professor Arti Kapil chaired a National AEFI Committee held in 2018 organized by Ministry of Health and Family Welfare (Immunization Division), Nirman Bhawan, New Delhi; Chaired a session on Syndromic Approach to Diagnosis and Management-Meningitis and Encephalitis at Indraprastha Apollo Hospital, during Delhi Chapter 2nd Quarterly Meet of Indian Association of Medical Microbiologists held on 14 October 2017; Expert in Expert Committee Meeting to Formulate “National Guidelines for Antibiotic Prescription in the ICU” held from 27-28 January 2018, organized by Department of Pulmonary Medicine and Sleep disorders at AIIMS, New Delhi.

Professor Benu Dhawan was awarded IUSTI-IASSTD and AIDS Scholarship for the paper entitled “Molecular detection of bacterial pathogens and clinical and laboratory response of syndromic management in patients with cervical discharge and pelvic inflammatory disease.” Singh S, Gupta S, Dhawan B, Yadav D, Kaul S, Bhatia R. 41st Indian Association for the Study of Sexually Transmitted Disease and AIDS held on 24 November 2017 at AIIMS, Bhubaneswar.

Professor Immaculata Xess and Dr Gagandeep Singh: A special mention was made in the 'News Section' of the Leading International Fungal Education (LIFE) website titled 'CLINICAL PATTERNS OF HISTOPLASMOSIS IN INDIA' of our work on histoplasmosis. <http://www.life-worldwide.org/media-centre/article/clinical-patterns-of-histoplasmosis-in-india>.

Professor Seema Sood filed a patent for development of biosensor for gonorrhoea approved in November 2017 (PCT Application No.: AP/P/2012/006092): "Nucleic Acid Primers and Probe Sequence for detection of *Neisseria gonorrhoeae*"; Received Dr V. Govindan Nair Memorial Award; Invited as Resource Person and Faculty to Sri Lanka College of Sexual Health and HIV Medicine; Member, Stream Committee (Scientific Program Committee, SPC) of 2018 IUSTI Asia Pacific Sexual Health Congress to be held in Auckland, November, 2018; Executive member, IUSTI Asia Pacific Region; Invited as expert for framing "Guidelines for Antibiotic prescribing in ICUs" organized by the Indian Society of Critical Care Medicine at AIIMS by Department of Pulmonary Medicine and Sleep Disorders; Faculty, National Board of Examination (NBE); Member, Organizing Team of ASTICON-2018; Member, Project Monitoring Committee, BIRAC, DBT; Member, Student Research Advisory Committee (SRAC) Jamia Millia Islamia; Nominated subject expert for Selection Committee - AIIMS, Bhubaneswar; Member, Institution Human Ethical Committee (IHEC), ACBR (Dr B.R. Ambedkar Centre for Biomedical Research).

Professor Urvashi B Singh was member, National Expert Committee on Diagnosis and Management of TB under RNTCP, 2012 onwards; Member of 'Project review Committee of the Task Force on Female Genital Tuberculosis', ICMR, since 2009; Member 'STOP TB New Diagnostics Working group', WHO since 2009; Expert in 'Expert Committee for finalizing validation protocols for Indian Indigenous Technologies', DBT and ICMR since 2014; Expert in 'Expert Group on Tuberculosis', constituted by DBT for three years, January 2015-January 2018; National Lab Committee of the Revised National TB Control Program, since 2011; India TB Research Consortium, ICMR, Member on Diagnostic, Therapeutic, Vaccine and Implementation Research Groups; Member, State TB Task Force and OR Committee; Expert member on International SAG committee of India TB Research Consortium, ICMR since 2016; Reviewer: Emerging Infectious Diseases, Medical Microbiology, Microbes and Infection, Epidemiology and Infection, PLOS One, Journal of Biosciences, Indian J Med research, Indian J Tuberculosis.

Dr Sarita Mohapatra underwent training on Antimicrobial Research at Cleveland, OH and La Jolla, CA, USA from 10-18 October 2017 as a part of Indo-US Collaboration Project organized by National Institute of Allergy and Infectious Diseases (NIAID) and National Institute of Health (NIH).

Dr Hitender Gautam attended Management of Bio-Medical Waste and KAYA KALP rounds for Department of Microbiology; Nominated faculty from Department of Microbiology, AIIMS, New Delhi for Upgradation of Microbiology Laboratories of Government Medical College under Pradhan Mantri Swasthya Suraksha Yojana, Phase III; As Hospital Infection Control Officer, IRCH, Committee Member for Poster Competition on Infection Control and Biomedical Waste Management in CMET, AIIMS, on 27 January 2018 along with Department of Hospital Administration and Department of Nursing; Editorial Board Member of Journal of Clinical and Medical Case Reports, Austin Tuberculosis: Research and Treatment and Advances in Microbiology Research; Member Secretary: Infection Control Committee in Dr BRA IRCH, AIIMS, New Delhi w.e.f 16 October 2017; External Resource Faculty at SGPGIHICON-2017, National CME cum Workshop on "Hospital Infection Prevention and Control Practices and Antimicrobial Stewardship Program, Sanjay Gandhi Post Graduate Institute of Medical Sciences (SGPGI), Lucknow, 12-15 December 2017; External Resource Faculty for organization of "2nd National Workshop on Hospital Infection Control" at JIPMER, Puducherry, 29 January-2 February 2018; Judge for Oral Papers on Zoonotic and Anaerobic Infections at Annual National Conference of Indian Association of Medical Microbiologists, IAMM, 41st MICROCON-2017, at Rajendra Institute of Medical Sciences, Ranchi, 24-26 November 2017.

Dr Nishant Verma was executive committee member of Indian Association of Tropical Parasitologists; Member Secretary: Infection Control Committee at CDER, AIIMS, New Delhi w.e.f 5 December 2017; Reviewer of Journal of Hospital Infection, JMM Case Reports.

VISITING SCIENTISTS

1. Dr Paul Jensen, Division of TB Elimination, CDC, Atlanta, Georgia, USA, visited and gave expert advice and a talk on "Airborne Infection Control" on 16 February 2018
2. Dr Marcio Pocas, University of Brasilia, Brasilia, Brazil, visited and gave a talk on "Epigenetic regulation of the virulence phenotypes in the human pathogen *Cryptococcus neoformans*" on 10 March 2018.

9.21. Nephrology

Professor and Head
Sanjay Kumar Agarwal

Professors

Dipankar Madhusudhan Bhowmik

Sandeep Mahajan

Associate Professor
Soumita Kamalkumar Bagchi

Assistant Professors
Raj Kumar Yadav

Vikraman G (Contract, up to 22 July 2017)

Arun Kumar Subbiah (Contract, from 15 February 2018)

HIGHLIGHTS

The department is regularly doing state of art nephrology care including renal transplantation at affordable cost. ABO-incompatible Renal Transplant in the institute during this period are regularly being done. Department is continuing immunosuppressive drug monitoring and infection in renal transplant monitoring free of charge for all renal transplant patients. The department is providing nearly 80 patients hemodialysis per week at very low cost and free for patients who are below poverty line. Department is running a bio-repository of samples for potential research in renal sciences for patients of primary glomerular disease and chronic kidney disease. Department faculty is almost in all government policy making bodies related to chronic kidney disease, dialysis and renal transplantation. Dr SK Agarwal is technical advisor to National Organ and Tissue Transplant Organization (NOTTO) and Officer in Charge of National Organ and Tissue Transplant Registry (NOTTR).

EDUCATION

Long-term training

The department runs DM nephrology, a three-year degree course for post MD (Medicine and Pediatrics) candidates, selected by AIIMS based on merit through an all India entrance examination. Seven candidates were admitted to DM nephrology course during this period. Residents from Departments of Pediatrics and Pathology regularly come for the training courses in Nephropathology. At present, the department has three non-academic junior residents for six months each.

Short-term training

The department is providing short-term training for following:

1. Postgraduates from the Department of Internal Medicine, Geriatric Medicine, Emergency Medicine, Urology, Anesthesia and Critical Care Medicine and Transfusion Medicine are posted on rotational basis for a variable period of few weeks to few months
2. Dr Sonam Yangzom from Bhutan had short-term training in nephrology between 21-28 March 2018

CME/Workshops/Symposia/National and International Conference Organized by Department

1. “**World Kidney Day-2018**” and public awareness regarding kidney diseases was organized in collaboration with RML Hospital, at AIIMS and RML Hospital and ESI Hospital, New Delhi on 7-9 March 2018
2. **Delhi Nephrology Society Annual Update** organized on 21 May at AIIMS, New Delhi
3. Department organized “**AIIMS Glomerulonephritis Conclave-2017**”, an academic meeting from 27-29 October 2017 at AIIMS, New Delhi. Faculties from India and abroad were invited for the meeting. Glomerular diseases are most common potentially reversible diseases responsible for chronic kidney disease. Meeting aimed to share experience on practice pattern on glomerular diseases and tried to make consensus on care of these patients. This meeting was supported by **International Society of Nephrology**. Dr Daniel Cattaran (Canada), Dr Sanjeev Sethi (Mayo Clinic, USA), Dr Jai Radhakrishnan (Columbia University, USA) and Dr Liz Lightstone (Imperial College, London) participated as foreign guest faculties

Lectures delivered

S.K. Agarwal

1. How to write a good manuscript, Research Methodology Workshop, 9-11 June 2017, New Delhi
2. NOTTO functionality, 28th Annual Conference of Indian Society of Organ Transplant, 13-15 October, Indore

3. CKD and its prevention, ICMR Hindi Diwas, 21 September, New Delhi
4. Pre-transplant immunological monitoring, PG Course, 7-8 October, Kolkata
5. Approach to glomerular disease, AIIMS Glomerulonephritis Conclave-2017, 27-29 October 2017, New Delhi
6. Pattern of GN in North India, AIIMS Glomerulonephritis Conclave-2017, 27-29 October, New Delhi
7. Vidya Acharya Oration, Annual Conference of Indian Society of Nephrology, 14-17 December, New Delhi
8. NOTTO, Organ Donation Program at RML Hospital, 19 January, New Delhi
9. NOTTO, The Transplant Colloquium, 21 January, Kolkata
10. NOTTO: Where we stand today, Transplant Update-2018 organized by IKDRC-ITS, 2-4 February 2018, Ahmedabad
11. Recipient and donor selection for renal transplant, 73rd Annual Conference of APICON, 22-25 February, Bangalore
12. Long-term outcome of AKI in India, "AKI-CRRT-2018" Annual Conference, 6-9 March, San Diego, USA

Dipankar Bhowmik

1. Nutritive value of Indian foods, Indian Society of Hemodialysis Conference 2017, 1 April 2017, Hyderabad
2. Management of acute kidney injury, Medicine Update 2017, 9 April 2017, Jabalpur
3. Use of probiotics and prebiotics in chronic kidney diseases and transplant recipients, Advance Course in Renal Nutrition and Metabolism 2017, 30 April 2017, Lucknow
4. Incremental hemodialysis, 12th Annual Conference Indian Academy of Nephrology, 10 September 2017, Aurangabad
5. Renal Transplant Case, 12th Annual Conference Indian Academy of Nephrology, 10 September 2017, Aurangabad
6. Sexuality after transplant—Can it be restored? 28th Annual Conference of Indian Society of Organ Transplantation, 13 October 2017, Indore
7. Dialysis in ICU—Timing and choice, Annual Update of Association of Physicians of India, Dehradun Chapter, 28 October 2018, Dehradun
8. Rituximab - ? Panacea for glomerular diseases, 73rd Annual Conference of Association of Physicians of India, 24 February 2018, Bengaluru
9. Rituximab in nephrotic syndrome, South Asian Conference of Nephrology and Transplantation, 10 March 2018, Bhubaneswar

Sandeep Mahajan

1. Renal bone disease, Nephrology Update, 7 April 2017, Goa
2. Statins in CKD, Cross-Connect 2017, 8 April 2017, Goa
3. Renal replacement therapy in critically ill, AIIMS PULMOCRIT 2017, 15 April 2017, New Delhi
4. The triad of sleep apnea, hypertension, and chronic kidney disease: How to deal? Cross-Connect 2017, 13 May 2017, Gurgaon
5. Metabolic syndrome and CKD, 2nd J&K Medical Science Congress and 1st Annual Conference of Metabolic Syndrome, 12 May 2017, Srinagar
6. Case control study: An overview, 1st Research Methodology Workshop 2017, Conducted by Indian Society of Nephrology, 19 June 2017, Delhi
7. Stem cells and the kidney: Present status, NENCON 2017 Annual Conference of Indian Society of Nephrology—North East Chapter, 30 July 2017, Imphal
8. Fluid management, SRNMCON-17, Annual Conference of Society of Renal Nutrition and Metabolism of India, 8 October 2017, Delhi
9. Newer IS drugs: Is there any hope, ISOTCON 2017, Annual Conference of Indian Society of Organ Transplantation, 14 October 2017, Indore
10. Guidelines for GFR for kidney donors, ISOTCON 2017, Annual Conference of Indian Society of Organ Transplantation, 14 October 2017, Indore
11. Endpoints in Clinical Trials in GN, AIIMS Glomerulonephritis Conclave-2017, 28 October 2017, Delhi
12. Should all diabetics be screened by CA prior to RT, ISNCON 2017, Annual Conference of Indian Society of Nephrology, 17 December 2017, Delhi
13. Induction with IL-2 receptor blocker, Transplantation Update 2018, 4 February 2018, Ahmedabad
14. Tropical nephrology: Should we be concerned? 3rd Conference of SIMON, 17 February 2018, Biratnagar, Nepal

15. Dialysis therapy during pregnancy, Symposium on Kidney Diseases, 8 March 2018, Delhi
16. Ethics of deceased donor allocation, World Kidney Day, 9 March 2018, Delhi
17. Primer on renal transplantation, 10th Annual Training Course in Pediatric Nephrology, 30 March 2018, Delhi

Soumita Bagchi

1. Updates of Oxford classification of IgA nephropathy, Delhi Nephrology Society—Annual Update, 21 May 2017, Delhi
2. IgA nephropathy in India: Is it different, AIIMS Glomerulonephritis Conclave, 27 October 2017, Delhi
3. Calcium handling by the kidneys: When does it concern the nephrologist, Indian Society of Nephrology—Annual Conference 2017, 14 December 2017, Delhi
4. A peek into proteomics and metabolomics in CKD, Indian Society of Nephrology—North Zone Annual Conference 2017, 18 February 2018, Jaipur
5. Women as organ donor, Nursing Symposium—World Kidney Day 2018, 8 March 2018, Delhi
6. Nephrotic syndrome in adults, CME—World Kidney Day 2018, 9 March 2018, Delhi
7. Early initiation of renal replacement therapy could be beneficial in cirrhotic—Against (Debate), Annual Conference of the Asian Pacific Association for the Study of the Liver-2018, 16 March 2018, Delhi

R.K. Yadav

1. Prevention of CKD, World Kidney Day—Kidney and Women's Health, 8 March 2018, VMMC and Safdarjung Hospital, New Delhi
2. Pregnancy in transplant patient, Symposium on Kidney Diseases, 8 March 2018, AIIMS, New Delhi

Oral Paper/Poster Presented

1. Bhowmik D, Gupta A, Lakshmy R, Guleria R, Agarwal SK. Evaluation of physiological and biochemical parameters in living kidney donors—Pre and post transplantation, 54-ERA-EDTA Congress, 4 June 2017, Madrid, Spain
2. Mahajan S, Rathi OP, Sood S, Chhabra YK. Effect of renal transplantation on cognitive function in hemodialysis patients: A longitudinal study, 54th ERA-EDTA Congress, 4 June 2017, Madrid, Spain
3. Bagchi S, Singh G, Bhowmik D, Mahajan S, Yadav RK, Barwad A, Dinda A, Agarwal SK. Borderline Cellular Rejection (BCR)—Clinical correlates and impact on graft outcome (Poster), Indian Society of Nephrology Annual Conference-2017, 13 December 2017, New Delhi
4. Mangalgi S, Bagchi S, Madan K, Das C, Singh G, Yadav RK, Xess I, Singh S, Agarwal SK. Profile of pulmonary infections in renal transplant recipients in a tertiary care centre (Oral), Indian Society of Nephrology Annual Conference-2017, 14 December 2017, New Delhi
5. Behera V, Bagchi S, Mahajan S, Bhowmik D, Agarwal SK. Rituximab treatment of adult patients with steroid resistant Focal Segmental Glomerulosclerosis (FSGS), Indian Society of Nephrology Annual Conference-2017, 15 December 2017, New Delhi
6. Yadav RK, Agarwal SK, Bhowmik D, Mahajan S, Bagchi S. Outcome of primary Focal Segmental Glomerular Sclerosis (FSGS) after renal transplantation in adult, 48th Annual Conference of Indian Society of Nephrology, 16 December 2017, New Delhi
7. Behera V, Bhowmik D, Yadav RK, Bagchi S, Mahajan S, Agarwal SK. A rare case of isolated cerebral mucormycosis in a renal transplant recipient, 24th Annual Conference of North Zone Indian Society of Nephrology, 17 February 2018, Jaipur

RESEARCH

Funded projects

Ongoing

1. Multicentric study to find out prevalence of chronic kidney disease in adults in urban Indian population, S.K. Agarwal, ICMR, New Delhi, 4 years, 2012-2018, Rs 90 lakhs
2. Prospective cohort study to find circulating levels of Anti Phospholipase A2 Receptor (PLA2R) antibodies and its correlation with Idiopathic Membranous Nephropathy (IMGN), S.K. Agarwal, ICMR, New Delhi, 3 years, 2017-2020, Rs 31 lakhs
3. Prevalence and significance of serum galactose deficient IgA1 in Indian patients with IgA nephropathy: A case control study, Soumita Bagchi, AIIMS, 1 year, 2017-2018, Rs 5 lakhs
4. Pattern of CYP3A5 and MDR-1 single nucleotide polymorphism and its impact on individualization of Tacrolimus based immunosuppression in living renal allograft recipient, R.K. Yadav, AIIMS, 2 years, 2016-2018, Rs 4.05 lakhs

Completed

1. A dose ranging study to evaluate the role of Hydroxychloroquine in preserving the kidney function by slowing down the progression of kidney disease due to type-II diabetes, S.K. Agarwal, IPCA Pharmaceutical, 18 months, 2016-2017, Rs 8.5 lakhs

Departmental projects

Ongoing

1. Clinicopathological correlation of HBV and HCV infection in patients on renal replacement therapy
2. Impact of CsA and Tacrolimus on outcome of living related renal transplantation
3. Impact of universal CMV prophylaxis with Valganciclovir on incidence and pattern of CMV infection in D+/R+ renal transplantation in Indian setting
4. Supportive management of IgA nephropathy—A prospective study
5. To study the outcomes of percutaneous hemodialysis catheters in Tertiary Care Nephrology Centre
6. Three arm randomized comparison of laparoscopic peritoneal dialysis catheter insertion with or without omentectomy versus conventional open peritoneal dialysis catheter insertion in chronic kidney disease stage 5 patients in terms of catheter malfunction and post operative complications
7. A study to assess the effect of intradialytic exercises on urea-creatinine clearance and fatigue level of CKD patients undergoing hemodialysis at a tertiary care hospital
8. Study of cognitive function in patients with chronic kidney disease and the effect of renal transplantation
9. A cohort study to evaluate the changes in exercise tolerance and nutritional status in chronic kidney disease patients on hemodialysis before and after renal transplantation

Completed

1. Proteinuria in renal transplant recipient and histopathological correlation
2. Assessment of risk factor, clinical profile and outcome of early versus late CMV infection in living related renal allograft recipient in Indian context
3. Prospective cohort study of the process and outcome of Chronic Kidney Disease (CKD) care in India
4. Spectrum of AKI and its short and long-term outcome in tertiary care hospital in India
5. Impact of type of CNI on incidence of post-transplant tuberculosis
6. Comparative analysis of Luminex-based donor specific antibody mean fluorescence intensity values with complement-dependent cytotoxicity and flow cross-match results in live donor renal transplant
7. Circulating genotypes of *Pneumocystis jirovecii* and its clinical correlation in patients from a single tertiary center in India
8. Hemodialysis patients treated for Hepatitis C using a Sofosbuvir-based regimen
9. Healthcare access and quality index based on mortality from causes amenable to personal health care in 195 countries and territories
10. Nations within a nation: Variations in epidemiological transition across the states of India, 1990-2016 in the Global Burden of Disease Study
11. To evaluate changes in CIMT in CKD-5D patients undergoing renal transplant
12. Retrospective study for evaluating the Oxford classification of IgA nephropathy in the Indian population
13. Retrospective study for evaluating the profile of biopsy proven kidney disease in elderly patients in India
14. Retrospective study for evaluating the clinical profile and treatment response and outcome of adult patients with primary FSGS
15. The profile and risk factors of infections requiring hospitalization in the first year after renal transplantation
16. To delineate the pattern of biopsy proven renal disease in a tertiary care hospital in India
17. Pulmonary infections in renal transplant recipients: Prospective cohort observational study
18. Assessment of arterial stiffness and autonomic function before and after renal transplantation
19. Long term outcome of renal donors

Collaborative projects

Ongoing

1. Detection and genotyping of human cytomegalovirus from neonates and renal transplant recipients, Microbiology

2. Molecular detection and characterization of *Pneumocystis jiroveci* in respiratory samples from the patients both immunocompromised as well immunocompetent with suspected interstitial pneumonia and other chronic lung diseases, Microbiology
3. To study the prevalence of UL 97 gene mutation in Ganciclovir non-responders vis a vis responders in Indian renal transplant patients, Lab Medicine
4. A prospective study comparing outcomes and quality of life after laparoscopic donor nephrectomy versus open donor nephrectomy, Surgery
5. Study of population genetics of clinical strains of *Pneumocystis Jiroveci* and its clinico-epidemiological correlation, Microbiology
6. Development of immunoblot assay for diagnosis of subclinical cryptococcus, Microbiology
7. Intravascular fluid guided therapy versus standard fluid therapy in predicted severe acute pancreatitis: A randomized controlled study, Gastroenterology
8. Detection and genotype distribution of BK polyomavirus in renal transplant recipients, Microbiology
9. Study of muscle enzyme elevation in neurosurgery and its relevance in postop acute kidney injury: A pilot study, Neuroanaesthesia
10. An immunohistochemical and ultrastructural study of glomerular capillary endothelial injury in cellular rejection, Pathology
11. Membranous nephropathy: A study of immunofluorescence, electron microscopy and PLA2R profile with clinical correlation, Pathology
12. Development of immunoblot assay for diagnosis of subclinical cryptococcosis, Microbiology
13. Antifungal susceptibility testing and genotyping of Cryptococcal isolates from Delhi and other parts of India, Microbiology

Completed

1. Post transplant diabetes mellitus—A prospective observational study, Pharmacology
2. Identification of biomarkers that predict response to treatment in lupus nephritis, Medicine
3. Evaluation of the effect of renal transplantation on organochlorine pesticides levels in chronic kidney disease (stage 5D) patients, Lab Medicine
4. Evaluation of plasma and urine Neutrophil Gelatinase—Associated Lipocalin (NGAL) as an early marker in predicting Acute Kidney Injury (AKI) in trauma patients in Surgical Intensive Care Unit, Anesthesia

PUBLICATIONS

Journals: 16

Chapters in Book: 1

PATIENT CARE

Following number of patients were provided respective facility.

S. No.	Area			
1.	<i>HD Related</i>			
	New Patients	1312	Emergency Patients	997
	Total HD	11,817	Plasmapheresis	148
	Femoral vein catheterization	666	Jugular/subclavian catheterization	342
	AV fistula	641	AV shunts	0
	Permacath insertion	57		
2.	<i>ICU Related</i>			
	CRRT/SLED	74		
3.	<i>Peritoneal dialysis</i>			
	Acute PD	32	CAPD	33
4.	<i>Indoor related</i>			
	Kidney Biopsy	704	Liver biopsy	0
	Indoor regular admission	1467	Indoor short admission	949
	Indoor death/male	73/45	Nephrology consultation	5395
	Ultrasound	699		

S. No.	Area			
5.	<i>Day care treatment</i>			
	Pulse methyl prednisolone	63	IV iron therapy	154
	IV cyclophosphamide	60	Others	672
6.	<i>Renal transplant</i>			
	Evaluation of LRRT	467	Evaluation of cadaver recipient	134
	Living RT done	129	Cadaver RT done	12
7.	<i>Renal lab related</i>			
	Blood sampling	1,02,291	Biochemistry (Urea, Cr, Na, K)	1,02,291
	Urine osmolality	204	24 hour urine testing	14,614
	Hemogram for RT patients	11,906	CO2	23,091
	Serum iron	7990	T saturation	8172
	TIBC	7984	UIBC	7984
	Serum ferritin	2073	NGAL	0
	Tac level	4551	Vitamin D and PTH	793
8.	<i>OPD related</i>			
	Renal clinic new patient	11,574	Renal clinic old patient	39,537
	Renal clinic total patients	51,111	RT new cases	141
	RT counseling clinic (3 days/week)	2290	RT old cases	10,719
			RT Clinic total patients	10,860

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor S.K. Agarwal was editor of Indian J of Nephrology; Core group member of National Acute Kidney Injury Registry of Indian Society of Nephrology; Invited to be member of Technical Expert Committee for National Program for Prevention and Control of Cancer, Diabetes, Cardiovascular Disease and Stroke (NPCDCS), August 2017; Invited as an expert in Medical Technology Assessment Board (MTAB) of government of India for renal replacement therapy in the country, 2017; Awarded “Dr VN Acharya” Oration Award by Indian Society of Nephrology for 2017; Awarded AIIMS Excellence Research Award 2017 on 25 September during 62nd AIIMS Foundation Day Ceremony for paper on tuberculosis in post renal transplant period; Awarded Fellowship of Indian Society of Organ Transplantation during 28th Annual Conference of the Society held at Indore, 13-15 October 2017; Member of expert committee for making guidelines for National Organ Transplant Program; Member of expert committee making operational guidelines for continuous ambulatory peritoneal dialysis in India; Elected by the ISN-Advancing Clinical Trial (ACT) as ISN-ACT Committee member for 2016-2018; Member of Board of Study (BOS)—Member for Dialysis Management at Texila American University; First hand assessment of increasing incidence of chronic kidney disease in the affected area during 19-22 January 2017; Invited to be member of “Expert Group” constituted for Kidney Diseases under Grant-in-Aid (GIA) Scheme of Inter-Sectoral Convergence and Coordination for Promotion and Guidance on Health Research formed by Department of Health Research.

Professor Dipankar M Bhowmik was member of DBT Task-force on Bioengineering; Member of ICMR Ad-hoc Committee in non-communicable diseases; Joint Secretary of 48th Indian Society of Nephrology Conference 2017 (ISNCON-2017) in Delhi; Member of committee to finalize technical specifications of equipments for upgradation of medical colleges under PMSSY-Phase III; Secretary of Indian Society on Nephrology—Northern Zone; Associate editor of Indian Journal of Nephrology; Treasurer of Institute Kidney Foundation of Delhi; Joint Secretary and Treasurer of Delhi Nephrology Society; External expert for faculty selection in AIIMS Bhopal and AIIMS Jodhpur; DM examiner for various national institutes; Trustee of Guru Kripa Trust.

Professor Sandeep Mahajan was member of the National PD Guidelines Committee; North Zonal Executive of the Peritoneal Dialysis Society of India; Appointed as a country lead for India (Nephrology) by the New York University School of Medicine for the NIH/NHLBI funded ISCHEMIA-CKD Trial; Invited as member to the Editorial Board of Journal of Nephrology Research, IHJ Case Reports; Invited to the National Expert Panel of the Certificate Course in Management of Hypertension by Public Health Foundation of India; Appointed member of the Scientific Committee of Indian Society of Nephrology; Appointed Program Chair for the Post Graduate Medical Program (Nephrology) for the Texila American University; Elected as member of National Academy of Medical Sciences (India); Nominated as expert member of the reconstituted Task Force of Metabolic Disorders and Auto-Immune Diseases, by the Department of Biotechnology, Ministry

of Science and Technology; Member of Committee for Roll-out of Peritoneal Dialysis under the National Health Mission; Member of the Committee on Extra Budgetary Resources and Corporate Social Responsibility; Invited as an expert by the Indian Society of Critical Care Medicine to frame ‘Guidelines for Antibiotic prescribing in ICUs’.

Dr R.K. Yadav won 2nd Best Poster Award titled “A Rare Case of Isolated Cerebral Mucormycosis in a Renal Transplant Recipient” in NZ ISNCON 2018 on 17 February 2018 held at Jaipur.

VISITING SCIENTISTS

1. Chris Larsen, Staff Pathologist, Arkana Laboratories, 10810 Executive Center Drive, Ste. 100 Little Rock, AR 72211 and spoke on Membranous Nephropathy: An Update on 10 October 2017
2. Dr Ajay Singh, Associate Professor and Senior Academic Dean from Harvard Medical School visited Department of Nephrology on 20 March 2018 and delivered a talk on “How to publish in high impact factor journal”.

9.22. Nuclear Magnetic Resonance

Professor and Head

N.R. Jagannathan

Professors

Rama Jayasundar

S. Senthil Kumaran

Associate Professors

Uma Sharma

Virendra Kumar

Scientists

Sujeet Kumar Mewar

Pawan Kumar

HIGHLIGHTS

Professor N.R. Jagannathan led an Indian delegation to the 19th International Biophysics Congress, Edinburgh, UK, 16-20 July 2017. The department added a state-of-the-art 1.5T MRI scanner for patient care and research.

EDUCATION

Postgraduate

The faculty and Scientists participated and delivered lectures for course titled “*Course 10: Structural Biology and NMR Technology, Course 11: Bioinformatics*” and “*Molecular Medicine*”, of M. Biotech programme of the Department of Biotechnology, AIIMS; MBBS Course Third Semester and MD Physiology Course.

Short/Long Term Training

Seven persons from medical and science disciplines from various Institutes and Universities from India and BSc Radiography students, AIIMS, underwent training in MRI, fMRI and MRS techniques.

CMEs/Workshops/Symposia/National and International Conferences

The department organized one day lectures on CEST imaging and perfusion imaging on Department Day, 22 March 2018. The faculty participated in and delivered several lectures in continuing medical education programs, symposia, workshops and conferences during the year.

Lectures delivered

N.R. Jagannathan

1. Role of MRI and MR spectroscopy in medicine, Conference on Molecular Imaging and Drug Discovery, 27 March 2018, New Delhi
2. MRI in India (key note address), Workshop in quantitative body imaging—organized by ISMRM, CA, USA, 26 March 2018, New Delhi
3. Role of NMR spectroscopy in muscle myopathies, perspectives in GNE myopathy: Research, Clinical Management and Patient Care, 16 February 2018, New Delhi

4. Basics of MR imaging (MRI), UGC workshop on frontiers of NMR spectroscopy and MRI, 28 September 2017, Rajkot
5. Applications of MRI including fMRI, UGC workshop on frontiers of NMR spectroscopy and MRI, 29 September 2017, Rajkot
6. In-vivo NMR spectroscopy in clinical research, UGC workshop on frontiers of NMR spectroscopy and MRI, 29 September 2017, Rajkot
7. Technicalities of medical imaging, Workshop on medical imaging techniques, post-processing and clinical applications, 15 April 2017, New Delhi

Rama Jayasundar

1. Traditional system of medicine: Ayurveda, invited lecture, 63rd Professional Course for Foreign Diplomats, 6 April 2017, New Delhi
2. Applications of MR in Ayurveda, invited lecture series, University of Wellington, 15 April 2017, Wellington, New Zealand
3. History of medicine in India, invited lecture, History of Science in India, 16 April 2017, Christchurch, New Zealand
4. Applications of MR in Ayurveda, invited lecture, History of Science in India, 17 April 2017, Christchurch, New Zealand
5. Research areas in traditional Indian sciences, invited lecture, History of Science in India, 18 April 2017, Christchurch, New Zealand
6. History of science and medicine in India, plenary lecture, History of Science in India, 20 April 2017, Christchurch, New Zealand
7. Research methodologies for Ayurveda, plenary lecture, 5th Bhartiya Vigyan Sammelan and Expo, 13 May 2017, Pune
8. National priorities for AYUSH research—Panelist in panel discussion, AYUSH Research for New India: Vision and Strategies, 4 August 2017, Pune
9. NMR and MRI based research methodologies in Ayurveda, plenary lecture, International Conference on Integrative Ayurveda and Modern Medicine, 7 August 2017, Kochi
10. Traditional system of medicine: Ayurveda, invited lecture, Special Course for ASEAN Diplomats, 14 August 2017, New Delhi
11. NMR and MRI based research methodologies in Ayurveda, institute invited lecture series, Uttarakhand Ayurved University, 21 August 2017, Haridwar
12. Traditional systems of medicine for health and wellness, invited lecture, Wellness India 2017 Expo, 29 August 2017, New Delhi
13. Scientific principles of Ayurvedic medicine and MR based research in Ayurveda, invited lecture series, Fordham University, University of New York, 8 September 2017, New York, USA
14. Novel applications of NMR in Ayurveda, invited guest lecture, Centre for Magnetic Resonance and Optical Imaging, Department of Radiology, Perelman School of Medicine, University of Pennsylvania, 12 September 2017, Philadelphia, USA
15. Ayurveda, food and cardiac health, invited lecture, First Healthy Food Conference on World Heart Day, 29 September 2017, New Delhi
16. Comparison between methods of research in Ayurveda and contemporary health sciences, keynote address, National Workshop on Research Methodology for Ayurveda, 7 October 2017, New Delhi
17. Traditional system of medicine: Ayurveda, invited lecture, 64th professional Course for Foreign Diplomats on Ayurveda, 16 October 2017, New Delhi
18. Research methodologies in Ayurveda and NMR based research in Ayurveda, invited lecture, National Conference on Ayurveda sciences: From Vedic period to nano-era challenges, opportunities and skills, 27 October 2017, Satna, Madhya Pradesh
19. Traditional system of medicine: Ayurveda, invited lecture, Special Training for CARICOM Foreign Diplomats, 15 November 2017, New Delhi
20. Ayurveda, environment and health, keynote address, National Conference on Recent Trends and Advances in Environmental Issues, Awareness and Health 2017, 17 November 2017, Jaipur
21. Applications of MR in Ayurveda, invited guest lecture, National Centre for Cell Science, 10 January 2018, Pune
22. Modern sciences and Vedic sciences: A dialogue - Panelist representing the modern sciences in the panel discussion, 3rd World Congress of Vedic Sciences, 10 January 2018, Pune

23. A physicist's journey into Ayurveda: From NMR and MRI to doshas and dhatus, invited lecture, 3rd World Congress of Vedic Science, 12 January 2018, Pune
24. Science in India - inaugural address, keynote address, Science Film Festival of India, 16 January 2018, Goa
25. Science and research, invited lecture, Science Film Festival of India, 16 January 2018, Goa
26. NMR and MRI based research methodologies in Ayurveda, invited lecture, Science Film Festival of India, 17 January 2018, Goa
27. Science and research and biomedical applications of NMR, invited lecture, Level II, Science Camp for School Children, Tamil Nadu, 27 January 2018, Coimbatore
28. Science and research - interaction with school students as the chief guest, Level II, Science Camp for School Children, Tamil Nadu, 28 January 2018, Coimbatore
29. NMR metabolomics to fingerprint chemosensory property of medicinal plants, invited lecture, 1st Workshop on Designing standard Research Protocol for Medicinal Plants in Ayurvedic Pharmacology, 31 January 2018, Jaipur
30. Research methodologies for Ayurveda, invited lecture, International Ayurvedic Online (webinar) Conference, National Ayurvedic Medical Association of Russia, 3 February 2018, New Delhi
31. Health issues concerning women working in research, distinguished lecture, Women for Science, Science for Women, International (UN) Day of Women and Girls in Science, 9 February 2018, New Delhi
32. Science education and popularising science—panelist in panel discussion, National Science Day, Malaviya National Institute of Technology, 26 February 2018, Jaipur
33. How to improve science education and interest in science in school children - panelist in group discussion, National Science Day, Malaviya National Institute of Technology, 27 February 2018, Jaipur
34. Environment, health and Ayurveda, keynote lecture, National Science Day, 27 February 2018, Jaipur
35. NMR based research work on nutraceutical medicinal plants, keynote speaker, Traditional Knowledge Inspired Nutraceutical, 6 March 2018, Bangalore
36. Access to justice: The key opportunities for women in science - distinguished panelist in the panel discussion, International Women's Day, Jawaharlal Nehru University (JNU), 8 March 2018, New Delhi
37. Ayurvedic pharmacology, AICTE Sponsored XXI Quality Improvement Programme, 12 March 2018, New Delhi
38. Traditional system of medicine: Ayurveda, 65th Professional Course for Foreign Diplomats on Ayurveda, 13 March 2018, New Delhi
39. Scientific research in Ayurveda, Scientific Advisory Committee Meeting for AYUSH Centre of Excellence, Savitribai Phule University, 16 March 2018, Pune
40. Epistemology relevant research work, Workshop on Trans disciplinary Research and Capacity Building, 17 March 2018, Pune
41. Trans disciplinary research and capacity building - panel member for discussion, Workshop on Trans disciplinary Research and Capacity Building, 17 March 2018, Pune

S. Senthil Kumaran

1. Urinary metabolomic profiling in idiopathic Parkinson's Disease, 25th Meeting of International Society for Magnetic Resonance in Medicine (ISMRM), 24 April 2017, Hawaii, USA
2. MRI and fMRI – Novelty in preclinical and clinical applications, International Conference on Technology in Redefining Health (ICONTRH-2017), 22 November 2017, Bengaluru
3. Cognition in the elderly, literacy and cognition, 31 January 2018, Jawaharlal Nehru University, New Delhi
4. Trying to understand Parkinson's Disease using MRS, MRI and fMRI, Conference of the National Magnetic Resonance Society of India, 18 February 2018, IISER Mohali, Punjab

Virendra Kumar

1. MRI and MRS data acquisition, Workshop on Medical Imaging Techniques, Post Processing and Clinical Applications, IIT-Delhi, 14-16 April 2017, Delhi

Oral papers/posters presented

1. Ankeeta, S. Senthil Kumaran, Rohit Saxena, A tract-based diffusion analysis in early and late blind subjects in the optic nerve and optic radiation, 25th Meeting of The International Society for Magnetic Resonance in Medicine (ISMRM), 24 April 2017, Hawaii, USA

2. Ankeeta, S. Senthil Kumaran, Rohit Saxena, Role of visual cortex performance during after and before critical developmental period in early blind and late blind: A fMRI study, 25th Meeting of the International Society for Magnetic Resonance in Medicine (ISMRM), 24 April 2017, Hawaii, USA
3. A Singh, M Makhdoomi, K Luthra, T Velpandian, Rama Jayasundar. NMR based pharmaco-metabolomics of drug response in HIV-1 pseudo virus infected TZM-bl cells, 2017, World Molecular Imaging Conference (WMIC), 14 September 2017, Philadelphia, USA
4. A Singh, M Makhdoomi, K Luthra, T Velpandian, Rama Jayasundar, NMR as a tool for quick screening of drug response, 24th Conference of National Magnetic Resonance Society, 17 February 2018, Mohali
5. Dibashree Tamuli, Tavpritesh Sethi, Anup Singh, S. Senthil Kumaran, Ashok Kumar Jaryal, Achal Kumar Srivastava, Kishore Kumar Deepa. Volumetric MR analysis of brain areas identifies SCA 1, 2 and 3 by applying random forest classifier, 25th Meeting of the International Society for Magnetic Resonance in Medicine (ISMRM), 24 April 2017, Hawaii, USA
6. Rama Jayasundar, Altered inter-hemispheric neurochemical asymmetry in brain due to conscious mental routine evaluated in vivo by proton MRS, 2017, World Molecular Imaging Conference (WMIC), 14 September 2017, Philadelphia, USA
7. Sadhana Kumari, S Senthil Kumaran, Vinay Goyal, Achal Srivastava, S N Dwivedi, N.R. Jagannathan, ¹H NMR based metabolomics study of serum in Parkinson's patients, 25th Meeting of the International Society for Magnetic Resonance in Medicine (ISMRM), 24 April 2017, Hawaii, USA
8. Sadhana Kumari, Suman Jain, S. Senthil Kumaran, Vinay Goyal, S.N. Dwivedi, Achal Srivastava, NR Jagannathan. Metabolomic study of serum in 6-hydroxydopamine (OHDA) induced PD rat model, 24th Conference of the National Magnetic Resonance Society of India, 16-19 February 2018, IISER Mohali, Punjab
9. Sharma U, Breast Cancer, The ISMRM 25th Annual Meeting, 22-27 April 2017, Honolulu, HI 96815 USA
10. Sharma U, Upadhyay D, Das P, Datta Gupta S, Makharia G, Jagannathan NR. Metabolic differences in patients with overt and potential celiac disease studied by in-vitro proton NMR, The ISMRM 25th Annual Meeting, 22-27 April 2017, Honolulu, HI 96815 USA
11. Sharma U, Upadhyay D, Kumar V, Jagannathan NR, Makharia G, Das P, Datta Gupta S. Potential celiac disease patients serve as a model for early stage celiac disease: ¹H NMR metabolomics study, 42nd Annual Meeting of Indian Biophysical Society, Emerging Trends in Biophysics, 9-11 March 2018, Pune
12. Shefali Chaudhary, S. Senthil Kumaran, Vinay Goyal, Kalaivani, NR Jagannathan. Proton magnetic resonance spectroscopic imaging study in the frontal white matter of Parkinson's Disease patients, 24th Conference of the National Magnetic Resonance Society of India, 16-19 February 2018, IISER Mohali, Punjab
13. Sunita Gudwani, S. Senthil Kumaran, Rajesh Sagar, Gaurishankar Kaloiya, Madhuri Behari. Visual-feedback in Psychogenic Movement Disorders and it's management, 3rd International Conference on Functional (Psychogenic) Disorders, 6-8 September 2017, Edinburg, Scotland
14. Sunita Gudwani, S. Senthil Kumaran, Rajesh Sagar, SN Dwivedi, NR Jagannathan, Dyslexia therapy customization based on dorsal-ventral pathway representation, 25th Meeting of the International Society for Magnetic Resonance in Medicine (ISMRM), 24 April 2017, Hawaii, USA
15. Upadhyay D, Das P, Datta Gupta S, Jagannathan NR, Makharia G, Sharma U. NMR based metabolomics strategy for identification of biomarkers of villous abnormalities in celiac disease. 17th International Celiac Disease Symposium, 8-10 September 2017, New Delhi
16. Jagannathan NR, Kumar R. Study of prostate tissue metabolism using MRI and in-vivo MR spectroscopy, 62nd Annual Meeting of Biophysical Society, 17-21 February 2018, San Francisco, USA
17. Khushbu Agarwal, Uma Sharma, Vurthaluru Seenu, Rajinder Parshad, Naranamangalam R Jagannathan. Multiparametric MR imaging in the prediction of axillary lymph node status in breast cancer patients, World Molecular Imaging Congress (WMIC) 2017, 13-16 September 2017, Philadelphia, USA
18. N. R. Jagannathan, K. Agarwal, R. G. Sah, U. Sharma, V. Seenu, R. Parshad. In vivo Magnetic Resonance Spectroscopy in the study of breast cancer metabolism, 19th International Biophysics Congress of International Union for Pure and Applied Biophysics (IUPAB), 16-20 July 2017, Edinburgh, UK
19. Durgesh Kumar Dwivedi, Rajeev Kumar, Alok Kumar Dwivedi, Girdhar S. Bora, Sanjay Thulkar, Sanjay Sharma, Siddhartha Datta Gupta, NR Jagannathan. Discriminatory ability of MRSI and DW-MRI in prostatic diseases in biopsy naïve men with PSA 4-10 ng/ml, 25th Annual Meeting of the International Society for Magnetic Resonance in Medicine, ISMRM, 22-27 April 2017, Honolulu, Hawaii, USA
20. Durgesh Kumar Dwivedi, Rajeev Kumar, Alok Kumar Dwivedi, Girdhar S. Bora, Sanjay Thulkar, Sanjay Sharma, Siddhartha Datta Gupta, Naranamangalam R. Jagannathan. Developing pre-biopsy multiparametric MRI based risk calculator for predicting prostate cancer in men with PSA 4-10 ng/ml, 25th Annual Meeting of the International Society for Magnetic Resonance in Medicine, ISMRM, 22-27 April 2017, Honolulu, Hawaii, USA

21. Pradeep Kumar, Virendra Kumar, S. Senthil Kumaran, Sanjay Thulkar, S. Datta Gupta, Rajeev Kumar and Naranamangalam R. Jagannathan. Metabolomic profiling of blood plasma of prostate cancer patients by using ¹H-NMR spectroscopy, 42nd Annual Meeting of the Indian Biophysical Society (IBS), 9-11 February 2018, IISER, Pune
22. Pradeep Kumar, Virendra Kumar, S. Senthil Kumaran, Sanjay Thulkar, S. Datta Gupta, Rajeev Kumar, Naranamangalam R. Jagannathan. Distinguishing benign prostatic hyperplasia (BPH) from prostate cancer by metabolomics using ¹H-NMR spectroscopy, 24th Conference of the National Magnetic Resonance Society of India, 16-19 February 2018, IISER, Mohali

RESEARCH

Ongoing

1. Funds for improvement of S&T infrastructure in Universities and Higher Educational Institutions (FIST), N.R. Jagannathan, Department of Science and Technology. (DST) Government of India, 5 years, 2014-19, Rs 147.00 lakhs
2. Spectroscopic analysis of medicinal plants for standardization and quality assessment, Rama Jayasundar, National Medicinal Plant Board (NMPB), Ministry of AYUSH, Government of India, 4 years, 2014-18, Rs 48.96 lakhs
3. NMR phytometabolomics and studies of chemosensory signature to address the fundamental question of ‘*rasa*’ in ayurvedic pharmacology, Rama Jayasundar, Science and Engineering Research Board (SERB), DST, 3 years, 2017-20, Rs 74.76 lakhs
4. Elucidating the pathobiology of classical ayurvedic interventions in post stroke recovery using Magnetic Resonance and other techniques based structural, functional and chemical biomarkers, Rama Jayasundar (PI-2), Science and Engineering Research Board (SERB), DST, 3 years, 2017-20, Rs 79 lakhs
5. Elucidating the science of yoga as a therapeutic intervention in post stroke recovery study of brain using the technique of Magnetic Resonance, Rama Jayasundar (PI-2), Science and Engineering Research Board (SERB), DST, 3 years, 2017-19, Rs 43.23 lakhs
6. Morphological, functional, biochemical and behavioral evaluation post-emf radiation, S. Senthil Kumaran, SERB, 3 years, 2015-18, Rs 52.7 lakhs
7. Effects of environmental and occupational noise on cognition, S. Senthil Kumaran, Life Sciences Research Board (LSRB), DRDO, 3 years, 2018-2020, Rs 59.25 lakhs
8. NMR Metabolomics of Childhood Acute Lymphoblastic Leukemia and its Correlation with Progression of Disease, Virendra Kumar, AIIMS, New Delhi, 1 year, 2017-18, Rs 3.5 lakhs

Departmental projects

Ongoing

1. NMR Phytometabolomics for chemosensory and pharmacological evaluation for functional signatures of select medicinal plants
2. NMR metabolomics and pharmacological assays for functional signatures of medicinal plants used Ayurveda
3. Role of magnetic resonance in assessing therapeutic efficacy of Ayurveda and yoga interventions in stroke patients
4. Identification of biomarkers in Parkinson’s Disease using NMR technique
5. Mapping functional and biochemical correlates in brain of Parkinson’s Patients with Mild Cognitive Impairment
6. Metabonomics study of celiac disease by NMR spectroscopy
7. Magnetic Resonance (MR) multi-parametric approach to the study of breast cancer and its correlation with molecular markers
8. Metabolomic profile of healthy neonates
9. Evaluation of fumaric acid esters (FAEs) in experimental model of stroke in rats.
10. Neuroprotective study of nano carrier based Berberine chloride in middle cerebral artery occlusion model of transient focal cerebral ischemia in rats
11. Evaluation of dihydromyricetin in experimental model of stroke and post stroke seizure susceptibility in rats
12. Molecular and biochemical characterization of hepatic glycogenoses type I and III
13. In-bore MR guided targeted prostate biopsy in patients suffering from prostate cancer
14. NMR metabolomics study blood and urine in prostate cancer patients

Completed

1. Neuroprotective study of lercanidipine and citalopram in experimental model of stroke in rats.

Collaborative projects

Ongoing

1. Neuro-imaging Hyposmia in Movement Disorder, Neurology, AIIMS
2. Eloquent cortex mapping in chronic intractable epilepsy using Nexstim Navigated brain stimulation system (NBS), functional MRI and MEG: A comparative study, Neurology, AIIMS and NBRC, Manesar
3. Understanding and facilitation of neural plasticity for enhancing post stroke recovery using low-cost non-invasive brain stimulation techniques, Neurology, AIIMS
4. Role of Normobaric oxygen therapy, fluoxetine and transcranial direct current stimulation (rtcds) in hypoxic ischemic brain injury-HIBI initiative, Neurology, AIIMS
5. Development of Diagnostic Grid for Prediction of Infarction in Patients with Tuberculous Meningitis, Neurology, AIIMS
6. Effect of Neuronavigation based rTMS therapy on corticomotor excitability and cognitive functions in Fibromyalgia patients, Physiology, AIIMS
7. Role of Neuro-Navigation based Repetitive Transcranial Magnetic Stimulation in Chronic Migraine, Physiology, AIIMS
8. Effect of physical, cognitive and emotional stress in patients of multisomatoform disorder: An fMRI based case-control study, Psychiatry, AIIMS
9. Assessment of Gray Matter Volume and White Matter Integrity in patients with suicidality in Bipolar Disorder type I, Psychiatry, AIIMS
10. Neuroimaging and cerebral metabolite changes in children undergoing treatment for acute lymphoblastic leukemia: A pilot study, Paediatrics, AIIMS
11. Small molecule Bio-signatures in Diagnosis of Tuberculosis, Microbiology, AIIMS
12. Study of cortical sources of EEG and brain iron levels during rest and visuospatial working memory in Attention deficit hyperactivity disorder (ADHD), Physiology, AIIMS
13. HIV associated neurocognitive decline and brain metabolism, Medicine, AIIMS
14. Measuring organ cross talk in acute-on chronic liver failure (ACLF) through metabolomics—a pilot study, Biochemistry, AIIMS
15. Role of multiparametric MRI in detection and localization of prostate cancer, Centre for Biomedical Engineering, IIT-Delhi
16. Abnormalities in brain neurochemistry assessed by magnetic resonance spectroscopy in unmedicated obsessive compulsive disorder patients and changes after 12 weeks of escitalopram treatment, Psychiatry, AIIMS
17. Neuroprotective study of nano carrier based Berberine chloride in middle cerebral artery occlusion model of transient focal cerebral ischemia in rats, Pharmacology, AIIMS
18. Effect of angiotensin receptor modulation in rat middle cerebral artery occlusion: A morphological and biochemical study, Anatomy, AIIMS
19. Evaluation of dihydromyricetin in experimental model of stroke and post stroke seizure susceptibility in rats, Pharmacology, AIIMS

Completed

1. Evaluation of autonomic functions in patients of spinocerebellar ataxia (SCA) types 1, 2 and 3 and comparison with morphological changes in brain, Physiology, AIIMS
2. Study of saccadic eye movements using Functional Neuroimaging (fMRI) technique, Physiology, AIIMS
3. Effect of superparamagnetic nanoparticle implantation in 6-OHDA rat model of Parkinson's Disease: Role of magnetic field stimulation, Physiology, AIIMS
4. Cross-sectional, controlled fMRI study on Neural Correlates of Dissociation in Dissociative Convulsions, Psychiatry, AIIMS
5. Neurochemical correlates of cognitive functions in Euthymic patients with Bipolar I Disorder, Psychiatry, AIIMS
6. Role of multiparametric MRI, diffusion tensor imaging and quantitative shear wave elastography in evaluation of prostate cancer, Radiodiagnosis, AIIMS

PUBLICATIONS

Journals: 15

PATIENT CARE

The department has three whole body MRI scanners (one 1.5 Tesla and two 3.0 Tesla scanners) for patient care and research. The department provides the Clinical MRI facility, and the time is divided between the three user-departments, Radio Diagnosis, Neuro Radiology and Cardiac Radiology for more than 12 hours a day from Monday to Friday and till 5.00 pm on Saturdays. The department also provides emergency diagnostic services to Neuro Radiology and Radio Diagnosis (esp. post-op complications, casualty patients and special dignitaries). A total of 7136 MRI/MRS/fMRI scans were performed from April 2017 to March 2018.

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor N.R. Jagannathan was leader of Indian delegation to 19th International Biophysics Congress, Edinburgh, UK, 16-20 July 2017; Co-Chair, Scientific Advisory Group–Devices and Diagnostics, National Bio-pharma Mission, Biotechnology Industry Research Assistance Council (BIRAC), Government of India; Vice-President of Indian National Science Academy (INSA); Member, Council of Indian Science Congress; Chairperson, INSA Committee for International Union of Pure and Applied Biophysics (IUPAB); J.C. Bose National Fellow, DST, Government of India; President, Indian Chapter of International Society for Magnetic Resonance in Medicine (ISMRM), USA; Vice-President, Molecular Imaging Society of India (MISI); Associate Member, Quantitative Imaging Network (QIN), National Cancer Institute (NCI), National Institutes of Health (NIH), USA; Chairperson (moderator), session on ‘Oncology-Preclinical Imaging’, World Molecular Imaging Congress 2017, Philadelphia, USA, September 2017; DST nominated member of Facility Management Committee (FMC), Sophisticated Analytical Instruments Facility, IIT-Madras, Chennai; Chairperson, National Steering Committee (NSC) for ‘Indigenous Magnetic Resonance Imaging (IMRI)–A National Mission’, Department of Electronics and Information Technology, Ministry of Communication and Information Technology, Government of India; Member, Science Advisory Committee (SAC), Center of Biomedical Research (CBMR), SGPGI Campus, Lucknow; Member, Task Force on Cognitive Science Research Initiative (CSRI) of the DST; Member, Progress Review Group (PRG), ICMR, Government of India. Member of Fund for Improvement of S&T Infrastructure in Higher Educational Institutions (FIST) of the Department of Science and Technology (DST), Government of India; Chairperson, IIPME of the Medical Electronics Evaluation and Advisory Group (MEAG), BIRAC, Government of India; Member of the Chapters Committee, International Society for Magnetic Resonance in Medicine (ISMRM), USA; Deputy Editor, *Neuroscience Imaging and Biophysical Reviews*; Member, Editorial Board of: (i) MAGMA (Magnetic Resonance Materials in Physics, Biology and Medicine), Springer; (ii) Magnetic Resonance Insights, Libertas Academica, USA; (iii) NMR Biomedicine, John Wiley & Sons, (iv) Magnetic Resonance Imaging, Elsevier; (v) Biomedical Spectroscopy and Imaging, IOC Press, Netherlands, Springer; Member, Steering Committee, Asian Biophysics Association (ABA); Member, Steering Committee, Sophisticated Instruments Facilities of DST; Coordinator, Expert panel on ‘Biomedical Devices and Bioengineering’, Life Sciences Research Board, DRDO; Member, Scientific Advisory Committee, Biosciences and Bioengineering Group, IIT Indore; Member, Science Advisory Council, National Brain Research Center (NBRC), Manesar, Haryana; Past President, Indian Biophysical Society (IBS); Fellow, Indian Academy of Sciences (FASc), Bangalore; Fellow, National Academy of Sciences (FNASc), Allahabad; Fellow, National Medical Academy of Sciences (FAMS), Delhi; Fellow, International Society for Magnetic Resonance in Medicine (ISMRM), USA; Fellow (FNA), Indian National Science Academy (INSA).

Professor Rama Jayasundar received Women Achiever Award, Gandhi Smriti and Darshan Samiti, India, Sep 2017; Nominated by Ministry of Human Resource Development (MHRD), Government of India to Board of Governors of Indian Institute of Science Education and Research (IISER), Kolkata for a period of three years, Sep 2017; Nominated by Ministry of Human Resource Development (MHRD), Nominated by Government of India as a Council’s Nominee on the selection committee for appointment of Professors in the Indian Institute of Science Education and Research (IISER), Mohali, Sep 2017; Member, Scientific Advisory Committee, Centre of Excellence, Interdisciplinary School of Health Sciences, Savitribhai Phule Pune University, 3 years, Jan 2018; Member, Organising Committee, International Society for Magnetic Resonance in Medicine (ISMRM) Workshop on Quantitative Body Imaging, New Delhi, India, March 2018; Distinguished resource person for setting National priorities for AYUSH research; Invited lectures in International Universities - University of Wellington (New Zealand), University of Canterbury (New Zealand), Moscow (Russia), Fordham University (USA), University of Pennsylvania (USA); Keynote speaker in 7 conferences; Plenary speaker in 3 conferences; Chief Guest and Guest of honor in 6 scientific meetings and conferences; Distinguished invited speaker in 23 meetings and conferences.

Dr S.S. Kumaran was reviewer for journals (a) Contrast Media and Molecular Imaging, (b) Journal of Parkinson’s Disease, (c) Journal of Medical Physics, (d) Journal of Bio Sciences, (e) Biomedical Engineering/Biomedizinische Technik. Reviewer of projects for Department of Science and Technology (DST); Council of Scientific and Industrial Research

(CSIR); Indo-US Science and Technology Forum (IUSSTF) and Department of Bio-technology; Subject expert for MD and PhD evaluations and procurement of specialized MR/EEG/fMRI related equipments of various institutes/universities including National Institute of Mental Health and Neurosciences (NIMHANS), National Brain Research Centre (NBRC), Sree Chitra Tirunal Institute for Medical Sciences and Technology (SCTIMS), Institute of Nuclear Medicine and Allied Sciences (INMAS), Centre of Behavioural and Cognitive Sciences, University of Allahabad, Allahabad, and Safdarjung Hospital, New Delhi.

Dr Uma Sharma was reviewer of journals: NMR Biomedicine; *J Magn Reson Imaging*; *Biochem Biophys Reports*, *World J Gastroenterology*, *European J Pharmacology*, Plos One; Executive Council Member, Indian Biophysical Society.

Dr Virendra Kumar was reviewer for SERB, DST, New Delhi, India; Computational and Structural Biology Journal, Elsevier; Computer Methods and Programs in Biomedicine, Elsevier; Journal of Cardiac Disorders and Therapy, Scholarena, USA; Journal of Magnetic Resonance Imaging, Wiley, NY, USA; Medicine, Wolters Kluwer; IEEE Access; Editorial Board member, Current Metabolomics, Bentham Science.

VISITING SCIENTISTS

1. Professor Daniel Topgaard, Lund University, Sweden
2. Dr T.N. Venkatraman, Duke University Medical Center, Durham NC, USA.

9.23. Nuclear Medicine		
Professor and Head		
C.S. Bal		
Professors		
Rakesh Kumar		Chetan D Patel (CNC)
Associate Professors		
Madhavi Tripathi		Anil K Pandey (Medical Physics)
Assistant Professors		
Nishikant A Damle		Shamim A Shamim

HIGHLIGHTS

The Department of Nuclear Medicine (Main) has three SPECT/CT, two single head and one dual head gamma camera, an uptake probe with well-counter and a well-equipped Radiopharmacy Laboratory. There are two PET/CT scanners. In the last year the department took upon itself an initiative to reduce the waiting list of all investigations. The department is running a daily OPD for Radionuclide therapy and all 5 consultants in the department run the OPD. Many points raised by the regulatory authority (AERB) that had not been complied with before were rectified and compliance report was sent to the AERB. A phenomenal increase in the number of scans done was achieved.

All investigations in Nuclear Medicine at AIIMS are done at a very nominal charges. Thus the poor and middle class patients greatly benefit since these investigations are available at very few centers across the country and that too at high cost.

Currently the department has 6 DM students, 16 MD students, 20 MSc students and 4 PhD students. They are actively involved in daily academic activities as well as research work.

Nuclear Medicine in Cardiothoracic Centre (CTC) routinely performs diagnostic nuclear cardiological procedures. Nuclear Medicine post graduate and Nuclear Medicine technology students are trained on rotational basis in nuclear cardiology procedures. The unit is involved in international multi-center research project.

EDUCATION

The faculty of the department participated in and delivered 41 lectures in continuing medical education programme, workshop, Symposia and annual conference during the year 2017-2018.

CMEs, National and International Conferences

Lectures delivered

C.S. Bal

1. Beyond structural imaging in epilepsy, 49th Annual Conference of Society of Nuclear Medicine India (SNMI), 14-17 December 2017, Delhi
2. Controversies and consensus in the management of thyroid cancer, THYROCON, 29-30 April 2017, Department of Surgical Oncology, JIPMER, Puducherry
3. Role of radioiodine in the management of differentiated thyroid cancer, Regional Thyroid Conclave, 26-27 August 2017, Department of Endocrinology, Gorakhpur Medical College, Gorakhpur
4. Radiopharmaceutical therapies in the management of bone pain palliation, CME, 24 March 2018, AIIMS, Bhubaneswar
5. Targeted radionuclide therapy of metastatic Castration Resistant Prostate Cancer (mCRPC), CME, 24 March 2018, AIIMS, Bhubaneswar
6. Role of 131I-MIBG therapy in neuroblastoma, 11th Pediatric Surgery Update 2018, 25 March 2018, MAMC, Delhi

Rakesh Kumar

1. Radionuclide scintigraphy, IXth Annual Training Course, 1 April 2017, Ped Nephrology, AIIMS, New Delhi
2. Molecular imaging in H&N cancer, Maulana Azad Institute of Dental Sciences, 12 April 2017, MAMC, Delhi
3. Role of FDG PET/CT and PET/MR in breast cancer, 29th Turkish SNM, 13 May 2017, Antalya, Turkey
4. PET radiopharmaceuticals in breast cancer, 29th Turkish SNM, 13 May 2017, Antalya, Turkey
5. Triple assessment and beyond, ASOMA con 2017, 8 October 2017, AIIMS, New Delhi
6. PET/CT in oncology, CME on PET/CT Application, 26 October 2017, SKIMS, Srinagar
7. PET/CT in infections, CME on PET/CT Application, 26 October 2017, SKIMS, Srinagar
8. PET/CT beyond FDG in HNSCC, NCI Conference, 4 November 2017, AIIMS, New Delhi
9. Recent advances in molecular imaging, International Day CME, 8 November 2017, Safdarjung Hospital, New Delhi
10. PET/CT in multiple myeloma, 49th Conference of the SNM India, 17 December 2017, Delhi
11. Nuclear imaging in thoracic disease, Symposium on Thoracic Surgery, 20 January 2018, AIIMS, New Delhi
12. PET/CT in pediatrics oncology, 28th Jan Techniques in PET/CT, 28 January 2018, AIIMS, New Delhi
13. Techniques in PET/CT, 2nd Conference of NMPAICON, 17 February 2018, Mumbai
14. Special techniques in PET/CT, Tech Aspire, 18 March 2018, Delhi
15. PET/CT in TB, Symposium on World TB Day, World TB Day, 24 March 2018, AIIMS, New Delhi
16. Nuclear medicine imaging in Ped Surg, 11 Peds Surg Update, 24 March 2018, MAMC, Delhi

Chetan D Patel

1. Debate: Ideal imaging technique to assess myocardial viability: Nuclear or MRI? 15th Annual Association of Nuclear Medicine Physicians of India National Conference, 10-11 November 2017, Bengaluru
2. Presentation of data of research project titled "Value of intraventricular synchronism assessment by gated-SPECT MPI in the management of HF patients submitted to CRT", 3rd Research Co-Ordination Meeting, 13-17 November 2017, International Atomic Energy Agency, Vienna, Austria
3. FDG PET-CT for assessing myocardial viability: How does it fare against other options? CME on Nuclear Cardiology in Clinical Practice, 4 February 2018, Rabindranath Tagore International Institute of Cardiac Sciences, Kolkata

Anil K Pandey

1. Concepts of radiomics and possible utility in nuclear medicine, 2nd Annual Conference of NMPAICON-2018, 17-18 February 2018, Mumbai
2. Technical challenges in PET/MR fusion, 2nd Annual Conference of NMPAICON-2018, 17-18 February 2018, Mumbai
3. Morphological operations in image processing, 49th Annual Conference of the Society of Nuclear Medicine 2017, 14-17 December 2017, New Delhi
4. Radiation safety issues in PET/CT, CME on Application of PET in Medicine, 26-27 October 2017, SKIMS Auditorium, Sher-i-Kashmir Institute of Medical Sciences, Soura, Srinagar

Madhavi Tripathi

1. Characterizing neurodegeneration: Molecular imaging approach, SNMICon, 16 December 2017, New Delhi
2. Ga-68 labelled radiopharmaceuticals—Applications in oncology, CME, 23 December 2017, Delhi State Cancer Institute, Delhi
3. Functional imaging in epilepsy—PET and SPECT, Nuclear Neuro-Imaging CME, 17 February 2018, TMH, Mumbai
4. Functional imaging approach in Parkinson's Disease, Nuclear Neuro-Imaging CME, 17 February 2018, TMH, Mumbai

Nishikant A Damle

1. Medullary thyroid carcinoma, CME, August 2017, Government Cancer Hospital, Aurangabad
2. Panel discussion on management of 'Differentiated Thyroid Cancer', CME, August 2017, Government Cancer Hospital, Aurangabad

Shamim A Shamim

1. Molecular imaging in breast cancer, Annual Conference on Breast Cancer Foundation, 10-11 March 2018, Manav Rachna University, Faridabad
2. Role of PET scan in hepatobiliary malignancy, VMMC Oncology Update 2018, 3 February 2018, Safdarjung Hospital, New Delhi
3. PET-CT in oncology and benign condition of brain, CME on Application of PET in Medicine, 26-27 October 2017, SKIMS, Srinagar
4. PET-CT in VHL, Annual Conference of SNM India, 14-17 December 2017, Manekshaw Auditorium, New Delhi
5. To evaluate long term outcome of Re -188 tin colloid radiosynovectomy in patients with inflammatory joint conditions who were refractory to conventional treatment, British Nuclear Medicine Society Annual Meeting, 20-22 May 2017, ICC Birmingham, UK
6. PET in response prediction in GI cancers, TRITIYA CRAB E-Con, 9 September 2017, Jammu
7. Radiosynovectomy—12 years experience with Re-188 tin colloid, 2nd World Rhenium Congress, 14-16 August 2017, KMCH, Coimbatore

Oral papers/poster presented

1. Dheer P, Gupta P, Passah A, Taywade S, Pandey AK, Patel CD. Optimization of reconstruction parameters in OSEM and comparison with FBP reconstructed images in Tc-99m MIBI MPS in Indian population, 49th Annual Conference of Society of Nuclear Medicine, 14-17 December 2017, New Delhi
2. Goyal H, Tripathi M, Goyal V, Sharma A, Patel CD, Bal CS. Semi-quantitative striatal-to-occipital ratios on L-3,4-dihydroxy-6-F-18 fluorophenylalanine brain positron emission tomography in idiopathic Parkinson's Disease, 49th Annual Conference of Society of Nuclear Medicine, 14-17 December 2017, New Delhi
3. Patel C, Mukherjee A, Roy A, Naik N, Sharma G. Correlation between Tc-99m MIBI MPS and Equilibrium Radionuclide Angiography in assessment of LV dyssynchrony 12th Asia Oceania Congress of Nuclear Medicine and Biology, 5-7 October 2017, Pacifico, Yokohama, Japan
4. Talwara S, Sankhyana L, Patel C, Sreenivas V, Choudhary SK, Airan B. Evaluation of differential pulmonary perfusion using Tc99m-MAA after Fontan procedure, 18th Annual Conference of Pediatric Cardiac Society of India, 27-28 October 2017, Mumbai
5. Kumar M, Pandey AK, Saroha K, Bal CS, Kumar R. Development of F18 FDG PET/CT database of lung masses for imaging research, 17th Asia-Oceania Congress of Medical Physics, AOCMP-2017, 4-7 November 2017, SMS Medical College and Hospitals, Jaipur
6. Pandey AK. Introducing Monte Carlo Simulation through Microsoft Excel, 17th Asia-Oceania Congress of Medical Physics, AOCMP-2017, 4-7 November 2017, SMS Medical College and Hospitals, Jaipur
7. Pandey AK, Sharma A, Vaishali, Raj A, Bal CS, Kumar R. Investigating the role of intensity transformation function in high dynamic range bone scintigraphic image enhancement, 49th Annual Conference of the Society of Nuclear Medicine 2017, 14-17 December 2017, New Delhi
8. Pandey AK, Saroha K, Parida GK, Raj A, Bal CS, Kumar R. An investigation of the effect of shape and size of two-dimensional median filter on the noise removal from iodine-131 scintigraphic image, 49th Annual Conference of the Society of Nuclear Medicine 2017, 14-17 December 2017, New Delhi
9. Yadav M, Ballal S, Tripathi M, Damle N, Bal CS. Lu-177-DKFZ-PSMA-617 therapy in metastatic castration resistant prostate cancer: Safety, efficacy and quality of life assessment, Annual SNMMI Annual Meeting 2017, 10-14 June 2017, Denver, Colorado

10. Lakra AM, Tripathi M, Kumar R, et al. Evaluation of differential renal function on technetium-99m-dimercaptosuccinic acid and technetium -99m-L,L-ethylenedicysteine in unilateral hydronephrosis: A comparative study, SNMICon 2017, 15-17 December 2017, New Delhi

RESEARCH

Funded projects

Ongoing

1. 18FDG PET/CT in the standardization of Pediatric Lymphoma, C.S. Bal, International Atomic Energy Agency, 3 years, 2015-2018, Euro 18,000
2. 177Lu-PSMA Therapy in mCRPC, C.S. Bal, ICMR, 3 years, 2017-ongoing, Rs 10 lakhs (approx.)
3. Use of PET-CT with Gallium-68 labeled prostrate specific membrane antigen in the diagnosis and follow-up of patients with prostate cancer, Rakesh Kumar, International Atomic Energy Agency, 5 years, 2017-ongoing, Euro 6000
4. Value of intraventricular synchronism assessment by Gated SPECT Myocardial Perfusion Imaging (MPI) in the management of heart failure patients submitted to cardiac resynchronization therapy, Chetan D Patel, International Atomic Energy Agency, 4 years, 2013-ongoing, Rs 18 lakhs
5. Enhancing the capacity of neuroimaging and biomarkers: Application in early-stage Alzheimer's Disease with comorbidities, Madhavi Tripathi, International Atomic Energy Agency, Vienna, 3 years, 2017-ongoing, Euro 6000

Departmental projects

Ongoing

1. Evaluation of F-18 FDOPA in detection of myocardial sympathetic denervation in patients with advanced Parkinson's Disease
2. Role of Ga68-DOTANOC PET/CT in Cardiac Sarcoidosis; Comparison with cardiac MRI
3. To study the role of vascular function and pain sensitivity in microvascular angina
4. Study of cardiac sympathetic denervation by F-18 FDOPA PET-CT imaging in patients with early Parkinson's Disease and Atypical Parkinsonism
5. Comparison of Left Ventricular Ejection Fraction (LVEF) derived on OSEM and FBP reconstructed images in Tc99m-MIBI myocardial perfusion SPECT: Validation with LVEF derived on Equilibrium Gated Radionuclide Ventriculography (ERNA)
6. Role of cardiac MRI in diagnosis and prognosis in patients of cardiac sarcoidosis using T1 mapping, T2 mapping and late gadolinium enhancement
7. DE-CMR compared with FDG PET for assessment of viability and prediction of functional improvement in patients with CAD and LV dysfunction
8. Role of Ga68-DOTANOC PET/CT in cardiac sarcoidosis; Comparison with cardiac MRI
9. To study the role of vascular function and pain sensitivity in microvascular angina
10. Study of cardiac sympathetic denervation by F-18 FDOPA PET-CT imaging in patients with early Parkinson's Disease and Atypical Parkinsonism
11. Comparison of Left Ventricular Ejection Fraction (LVEF) derived on OSEM and FBP reconstructed images in Tc99m-MIBI myocardial perfusion SPECT: Validation with LVEF derived on Equilibrium Gated Radionuclide Ventriculography (ERNA)
12. Role of cardiac MRI in diagnosis and prognosis in patients of cardiac sarcoidosis using T1 mapping, T2 mapping and late gadolinium enhancement
13. DE-CMR compared with FDG PET for assessment of viability and prediction of functional improvement in patients with CAD and LV dysfunction
14. Image segmentation using adaptive thresholding
15. Image compression using principal component analysis
16. Image enhancement using stochastic resonance
17. Role of diuretic 18F-FDG PET/CT in patient of renal cell carcinoma and correlation of PET parameter with histopathological subtype
18. Comparison of Left Ventricular Ejection Fraction (LVEF) derived on Ordered Subset Expectation Maximization (OSEM) and Filtered Back Projection (FBP) reconstructed images in Tc-99m-MIBI myocardial perfusion SPECT: Validation with LVEF derived on Equilibrium Gated Radionuclide Ventriculography (ERNA)

19. Standardization of Dynamic F-18 FDG protocol and comparison of whole body FDG PET with diffusion weighted MRI for early treatment response evaluation in lung cancer
20. Efficacy of Rhenium -188 HDD lipiodol in hepatocellular carcinoma with malignant portal vein thrombosis
21. A prospective study to determine the efficacy of Positron Emission Tomography/Computed Tomography (PET/CT) in detecting residual disease in Locally Advanced Head and Neck Squamous Cell Carcinoma managed with primary Chemo-Radiation Therapy
22. Comparison of ¹⁸⁸Re-HDD of lipiodol tumor retention in liver labelled with two different methods (Centrifugation and shaking method) in hepatocellular carcinoma
23. Comparison of whole body radiation exposure to nuclear medicine personnel during the synthesis of ¹⁷⁷Lu labelled DOTATATE by manual and automated synthesis method
24. Comparison and standardization of techniques for the labelling of ¹⁸F-FDG-leukocytes

Completed

1. Molecular and imaging characterization of differentiated thyroid cancer
2. Radioactive skin patches for the treatment of basal cell carcinoma and keloids
3. Comparison of ⁶⁸Ga-Exendin4 and ⁶⁸Ga-DOTANOC PET/CT in localization of suspected insulinoma
4. In vivo assessment of novel tau imaging tracer binding in Alzheimer's Disease and assessing its relationship to regional brain metabolism using F-18 FDG PET/CT
5. Optimization of reconstruction parameters in Ordered Subset Expectation Maximization (OSEM) and comparison with images reconstructed using Filtered Back Projection in ^{99m}Tc-SESTAMIBI myocardial perfusion imaging
6. Comparison of pulmonary perfusion after Fontan procedure using Tc^{99m} MAA lung perfusion scan: Extracardiac TCPC vs lateral tunnel TCPC
7. Normalized mutual information based methods and its influence on PET and CT image registration
8. Role of gaussian and butterworth filter in noise removal from nuclear medicine images
9. Optimization of reconstruction parameters in ordered subset expectation maximization and comparison with Filtered Back Projection reconstructed images in Tc^{99m}-MIBI myocardial perfusion SPECT
10. Interim treatment response evaluation of non-small cell lung cancer after four cycles of chemotherapy using texture analysis on F18-FDG PET/CT study
11. Role of texture analysis of baseline F18-FDG PET/CT as predictor of survival in non-small cell lung cancer

Collaborative projects

Ongoing

1. International Study of Comparative Health Effectiveness with Medical and Invasive Approaches (ISCHEMIA Trial), Cardiology
2. Prevalence of symptomatic and asymptomatic coronary artery disease in patients with ischemic stroke and TIA, Neurology, Cardiology
3. Value of Gated-SPECT MPI for Ischemia-Guided PCI of non-culprit vessels in STEMI Patients with Multivessel Disease after primary PCI, Cardiology
4. Comparison of conventional MDP bone scan and Somatostatin Receptor PET/CT in articular manifestation of Rheumatoid Arthritis-Investigator, Rheumatology
5. Evaluation of the graft kidney by contrast-ultrasound and elastography in early post-operative period, Radiology

PATIENT CARE

ROUTINE DIAGNOSTIC		
1.	Tc ^{99m} Thyroid Scan	346
2.	I-131 WB Scan (Diagnostic)	1456
3.	RAIU	741
4.	I-131 WB Scan (Post-Therapy)	842
5.	^{99m} Tc-MDP Bone Scan	2624
6.	Renal Dynamic Scan	4258

7.	GFR	2903
8.	DRCG	276
9.	HIDA scan	394
10.	GET (Gastric Emptying Time)	50
11.	Blood Pool	18
12.	Gastro Esophageal Reflux	705
13.	Lymphoscintigraphy	363
14.	Sentinel Lymphnode	20
15.	MIBG Scan (Diagnostic)	358
16.	GHA	6
17.	Liver Spleen	5
18.	MAG-3	45
19.	Meckle's scan	61
20.	Parathyroid	193
21.	TRODAT Scan	306
22.	SPECT-CT (ECD-ICT and ECD-INT)	604
THERAPEUTIC		
23.	Thyroid Cancer Treatment	785
24.	Thyrotoxicosis Treatment	272
25.	MIBG Therapy	22
26.	Lutetium 177-DOTATATE	180
27.	¹⁷⁷ Lu PSMA-617	70
28.	¹⁷⁷ Lu EDTMP	15
29.	²²⁵ Ac PSMA	4
30.	¹⁷⁷ Lu DOTMP	10
31.	¹⁷⁷ Lu BPAMB	5
32.	¹⁷⁷ Lu Zoledronic Acid	2
33.	Rhenium 188- Radiosynovectomy	31
POSITRON EMISSION TOMOGRAPHY (PET/CT)		
34.	18F FDG	6912
35.	Ga68 PSMA	360
36.	Ga68 DOTA NOC	700
37.	F18 Choline	20
38.	Ga68 DATA	20
39.	68Ga Exendin	13
40.	F18 DOPA	80
41.	F18 TAU	30
42.	Sodium Fluoride Bone Scan	180
43.	18F FES	10
44.	F18WBC	11
CARDIAC CENTRE ACTIVITIES		
45.	Cardiac Ammonia-13	8
46.	Cardiac F18FDG PET	215
47.	99mTc/201TI-Myocardial perfusion study	1566
48.	RNV Study(MUGA)	586
49.	Misc. (V/Q Scan, 1st Pass)	81

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor C.S. Bal was elected as Fellow of National Academy of Medical Sciences (FAMS) for the year 2017, Delivered Oration in National Conference of the Indian Society of Thyroid Surgeons (ISTS) held at CMC, Vellore from 16-18 November 2017; Nominated by Ministry of Health and Family Welfare, Government of India to Radiopharmaceutical Expert Committee of Indian Pharmacopoeia Commission; Invited to conduct “Meet-the-Professor” session “On Radioiodine Remnant Ablation” along with Dr Megan Heymart from University of Michigan in The World Congress on Thyroid Cancer (WCTC) at Boston from 26-30 July 2017; Invited by Prof Frank Rosch, Chairman, Department of Chemistry, Johannes Gutenberg University, Mainz, Germany as part of Indo-German Collaborative Research Project for one week from 8-13 October 2017 and to deliver lectures to the research scholars and faculty members; Expert panel to develop “International Guidelines on Sentinel Lymph Node Biopsy in Early Stage Oral Squamous Cell Carcinoma” at IAEA Head Quarter, Vienna from 15-17 January 2018; International Atomic Energy Agency (IAEA) nominated Professor Bal to assess and submit the report on “Current Infrastructure and Need of Dual Head SPECT Gamma Camera in the University Clinic of Kinshasa”, Kinshasa, Democratic Republic of Congo from 5-9 March 2018.

Professor Rakesh Kumar took over as President (2018-2019), Society of Nuclear Medicine, India; received Editor’s Award by the journal “*Clinical Nuclear Medicine*” for distinction in reviewing and outstanding contribution.

9.24. Obstetrics and Gynaecology

Professor and Head
Alka Kriplani

Professors

Sunesh Kumar
K.K. Roy

Dipika Deka
Neena Malhotra

Neerja Bhatla
Vatsla Dadhwal

J.B. Sharma

Neeta Singh

Associate Professors

Aparna Sharma
Reeta Mahey

Garima Kachhawa
P. Vanamail

Assistant Professors

Vidushi Kulshrestha

Seema Singhal

Rajesh Kumari

Jyoti Meena

Juhi Bharati

Scientists

Rohini Sehgal (G. III)

Arun Kumar (G. I)

EDUCATION

Innovation in the Education

Department of Obstetrics and Gynaecology continues to organize monthly meetings for junior/senior resident doctors and fellowship candidates. The training component focuses on the latest updates that include clinical and surgical skills, development of protocols and guidelines, case presentations and discussions. Invited faculties from various academic and teaching institutions of Delhi as well as international faculty contribute towards training of postgraduates. The department offers short and long-term training in various super specialty subjects like ‘Endoscopy Surgery’, ‘High Risk Pregnancy’, ‘Oncology Ultrasonography’, ‘Fetal Medicine’ and ‘Infertility’.

The Post-Partum Programme (PPP) is a mandatory centre hospital-based approach to family welfare programme by providing a package of RCH and family welfare services in the vicinity of the hospital as well as in the field practice areas. PPP is implementing the latest family planning measures such as Antra Injection, CHAYYA oral contraceptive pills and there are variety of measures being implemented according to the need of patients. Further, PPP is run as an integrated multidisciplinary exercise where the Department of Obstetrics and Gynaecology coordinates with Departments of Pediatrics, Community Medicine, Surgery and Anesthesiology.

The department started the following initiatives for postgraduates:

1. Six monthly examinations for postgraduates with a systematic course structure and feedback system
2. Coordination with Association of Obstetricians and Gynaecologists of Delhi to send exam going postgraduates for regular teaching and training updates

Super speciality courses

From the academic year 2016-2017 onwards super speciality courses such as Fellowship (Fetal Medicine), MCh (Gynae Oncology), Fellowship (Uro Gynae) and DM (Reproductive Medicine) were started. In each course one fellow/resident had been admitted.

Short Term Training

The department offers short term training in various super specialty subjects like 'Gynae Endoscopic Surgery', 'High Risk Pregnancy', 'Gynae Oncology' 'Ultrasonography' and 'Infertility'. Following doctors were trained in different disciplines.

1. Dr Arshad Bhat, Jammu, 15 March 2017-14 May 2017, Fetal Medicine
2. Dr Tshering Tamang, Bhutan, 1-30 June 2017, Uro Gynnae
3. Dr Nikita Minhas, Nottingham, 12 March 2018-6 April 2018, Elective Training in Obstetrics and Gynaecology
4. Dr Khumanthem Pratima Devi, Imphal, 13 November 2017-10 December 2017, Observership
5. Dr Nupur Gupta, New Delhi, 16 August 2017-30 September 2017, Observership (IVF)
6. Dr Arindam Mallik, Tripura, 1 November 2017-31 December 2017, Observership
7. Dr Pradip Sarkar, Tripura, 1 November 2017-31 December 2017, Observership
8. Ms Yashmita Ragha, U.K, 27 June 2017-12 July 2017, Elective

Long Term Training

1. Lt Col Gunjan Rai, New Delhi, 1 July 2015-30 June 2017, Fetal Medicine
2. Dr Lt Col Mohd. Rasheed, New Delhi, 4 April 2016-1 April 2017, Obstetrics and Gynaecology
3. Dr Lt Col Venus Deshwal, New Delhi, 1 November 2017-31 October 2019, Obstetrics and Gynaecology, Endoscopy
4. Dr Roman, Afghanistan, 1 November 2017-31 October 2018, Observership (Laproscopy)

CMEs/Workshops/Symposia/National and International Conferences Organized in the Department

1. Contraception Update on Recent WHO Medical Eligibility Criteria and Selected Practice Recommendations 2016 Guidelines, Organized in collaboration with AOGD and GESI, Delhi, 1 April 2017, AIIMS, New Delhi
2. Women Health Initiative (WHI) 28th Training Course in Minimally Invasive, 1-6 May 2017, AIIMS, New Delhi
3. Evidence Based Fetal Care 1st Quarterly Meet Society of Fetal Medicine (2017-2018), 7 May 2017, AIIMS, New Delhi
4. Sixth AIIMS Fetal Medicine Workshop, 8-11 May 2017, AIIMS, New Delhi
5. Hands on training on VIA. MoHFW Training of State ToTs for Medical Officer to Roll Out Population Based Screening for NCD conducted by NCDC, 19 May 2017, 23 May 2017, 26 May 2017, 30 May 2017, AIIMS, New Delhi
6. FOGSI GCPR Meeting "Cervical Cancer Screening and Management and HPV vaccination", 31 May 2017, AIIMS, New Delhi
7. Organizing Secretary - Symposium: Ovary - Unfolding the Secrets in Management, Organized with Gynae Endocrine Society of India, 24 September 2017, AIIMS, New Delhi
8. CME in Gynaecologic Oncology, 30 October 2017, AIIMS, New Delhi
9. Evidence Based Fetal Care: Screening Protocols - Pre-Congress Workshop, 17 November 2017, AIIMS, New Delhi
10. Workshop on Fetal Echocardiography, 9 and 10 December 2017, AIIMS, New Delhi
11. Cadaver Workshop and CME in Gynaecologic Oncology Procedures (CaDGO 2018), 6-7 January 2018, AIIMS, New Delhi
12. Women Health Initiative (WHI), 29th Training Course in Minimally Invasive Gynaecology, 29 January-3 February 2018, AIIMS, New Delhi
13. Women Health Initiative (WHI), 30th Training Course in Minimally Invasive Gynaecology, 5-10 February 2018, AIIMS, New Delhi
14. Women Health Initiative (WHI), 31st Training Course in Minimally Invasive Gynaecology, 5-10 March 2018, AIIMS, New Delhi

Lectures delivered

Alka Kriplani

1. AUB—Managing iron deficiency anaemia, Society of Endometriosis and Uterine Disorders (SEUD) Congress 2017, 7 April 2017, Singapore
2. AUB—Current Management Guidelines, CME organized by Association of Gynae Endoscopic Surgeons of Rajasthan (AGESR) and Mahatma Gandhi Medical College, Hospital and MG University, 14 April 2017, Jaipur
3. How Endoscopy can Influence Results of Infertility/ART—Case Vignettes, (Panel Moderator) at 22nd Annual Congress ISAR 2017, under the auspices of Indian Society for Assisted Reproduction in collaboration with its Haryana State Chapter, 21 April 2017, Gurgaon
4. Operative endoscopy in infertility, 28th WHI Training Course in MAS, Organized by Department of Obstetrics and Gynaecology, AIIMS, 1 May 2017, New Delhi
5. Evolution of TLH, 28th WHI Training Course in MAS, Organized by Department of Obstetrics and Gynaecology, AIIMS, 4 May 2017, New Delhi
6. Ectopic pregnancy, TOG DTree, Organized by FOGSI, 27-28 May 2017, Goa
7. Hirsutism—Current concepts and management, FOGSI CNN Conference, Organized by FOGSI and Pune Obstetrics and Gynaecological Society (POGS), 24 June 2017, Pune
8. Ovulation induction—Teasing the ovaries the right way! Panel Moderator FOGSI Conference Organized by FOGSI and Pune Obstetrics and Gynaecological Society (POGS), 24 June 2017, Pune
9. Fertility enhancing endoscopic surgeries (Panel Moderator), LEGENDS GO LIVE Organized by Sunrise Group of Hospitals, IMAGES and DGES, 1 July 2017, Delhi
10. Challenge your Bias—Complications and management in Laparoscopic Gynecological Surgeries (Panelist), Ethicon Surgical Symposium, 15 July 2017, Delhi
11. Recurrent pregnancy loss—Evidence based management, 17th Annual Conference of the NOIDA Obstetrics and Gynaecology Society, 30 July 2017, NOIDA
12. Endoscopy in BOH, The Triology conference, organised by joint venture of FOGSI and AOGD, 19 August 2017, Delhi
13. AUB, All India PG Training Programme FOCUS 2017, Organized by Department of Obstetrics and Gynaecology, Jubilee Mission Medical College Hospital supported by KFOG and Thrissur Obstetrics and Gynaecological Society (TOGS), 22 August 2017, Thrissur, Kerala
14. Recurrent pregnancy loss, All India PG Training Programme FOCUS 2017, Organized by Department of Obstetrics and Gynaecology, Jubilee Mission Medical College Hospital supported by KFOG and Thrissur Obstetrics and Gynaecological Society (TOGS), 23 August 2017, Thrissur, Kerala
15. PCOS—The Challenges, Symposium on Ovary—Unfolding the secrets in management organized by Department of Obstetrics and Gynaecology, AIIMS, New Delhi and Gynaecological Endocrine Society of India (GESI), 24 September 2017, AIIMS, New Delhi
16. Congenital malformations of genital tract—Diagnosis to intervention, 29th Annual conference of U.P. Chapter of Obstetrics and Gynaecology (UPCOG 2017), Organized by LLRM Medical College and Obstetrical and Gynaecological Society of Meerut (OGSM, 14 October 2017, Meerut
17. Abnormal uterine bleeding—Evidence based practice, 39th Annual Conference of AOGD 2017, Organized by Association of Obstetricians and Gynaecologists of Delhi (AOGD), 19 November 2017, Delhi
18. Congenital malformations of the genital tract—Diagnosis to intervention, 23rd Annual International Conference of the Egyptian Fertility and Sterility Society (EFSS), 30 November 2017, Cairo, Egypt
19. Cesarean myomectomy, An update, 23rd Annual International Conference of the Egyptian Fertility and Sterility Society (EFSS), 30 November 2017, Cairo, Egypt
20. Adenomyosis in infertility—Evidence based management, (IFS), 13th Annual Conference Fertivision 2017, Organized by Indian Fertility Society, 10 December 2017, Delhi
21. Congenital malformation of genital tract—Diagnosis to intervention, 28th North East Obstetrics and Gynaecological Societies Conference (NEOGSCON 2017), Organized by Dibrugarh Obstetrics and Gynaecological Society, 16 December 2017, Assam
22. AUB—Current management guidelines, 28th North East Obstetrics and Gynaecological Societies Conference (NEOGSCON 2017), Organized by Dibrugarh Obstetrics and Gynaecological Society, 16 December 2017, Shivasagar, Assam
23. Complications of laparoscopiesurgery in gynaeacology, (Panelist), Endoscopy Committee Workshop of 61st All India Congress of Obstetrics and Gynaecology (AICOG) 2018, Organized by Federation of Obstetric and Gynaecological

Societies of India (FOGSI), Hosted by the Association of Obstetricians and Gynaecologists of Odisha (AOGO), 18 January 2018, Bhubaneswar

24. Evolution and advancements in minimally invasive gynaecology, 61st All India Congress of Obstetrics and Gynaecology (AICOG) 2018, Organized by Federation of Obstetric and Gynaecological Societies of India (FOGSI), Hosted by the Association of Obstetricians and Gynaecologists of Odisha (AOGO), 20 January 2018, Bhubaneswar
25. Uterine transplant (Panelist), Summit on Uterine Transplantation, Organized by Gleneagles Global Health City, 25 January 2018, Chennai
26. Operative endoscopy in infertility, 29th WHI Training Course in MAS, Organized by Department of Obstetrics and Gynaecology, AIIMS, 29 January 2018, New Delhi
27. Evolution of TLH, 29th WHI Training Course in MAS, Organized by Department of Obstetrics and Gynaecology, AIIMS, 1 February 2018, New Delhi
28. Operative endoscopy in infertility, 30th WHI Training Course in MAS, Organized by Department of Obstetrics and Gynaecology, AIIMS, 5 February 2018, New Delhi
29. Evolution of TLH, 30th WHI Training Course in MAS, Organized by Department of Obstetrics and Gynaecology, AIIMS, 8 February 2018, New Delhi
30. Operative endoscopy in infertility, 31st WHI Training Course in MAS Organized by Department of Obstetrics and Gynaecology, AIIMS, 5 February 2018, New Delhi
31. Evolution of TLH, 31st WHI Training Course in MAS Organized by Department of Obstetrics and Gynaecology, AIIMS, 8 March 2018, New Delhi

Sunesh Kumar

1. Laparoscopy-patient positioning pneumoperitoneum safe first entry, selection of accessory ports indications/contradictions, Training Course in Minimally Invasive Gynaecology, 24 May 2017, New Delhi
2. Forceps and vacuum, 20th Post-graduate Practical Course and CME organized by the Department of Obstetrics and Gynaecology, 24 September 2017, New Delhi
3. Laparoscopy-patient positioning pneumoperitoneum safe first entry, selection of accessory ports indications/contradictions, Training Course in Minimally Invasive Gynaecology, 29 January 2018, New Delhi
4. Laparoscopy-patient positioning pneumoperitoneum safe first entry, selection of accessory ports indications/contradictions at AIIMS, New Delhi, Training Course in Minimally Invasive Gynaecology, 6 February 2018, New Delhi

Dipika Deka

1. Prevention of Rh-D alloimmunization, Indian Society of Perinatology and Reproductive Biology (ISOPARB), 9 April 2017, New Delhi
2. Techniques in fetal cardiac evaluation, Fetal Cardiocon 2017, The Annual Cardiology Congress of the Society of Fetal Medicine, 14 April 2017, New Delhi
3. Hormonal changes at perimenopause in woman affecting her health, CME on Menopause and Health, Organized by Indian Menopause Society Pune Chapter, Bharati Vidyapeeth Medical College, 20 May 2017, Pune
4. Workshop on fetal medicine, Organized by the Genetics and Fetal Medicine Committee of Patna Obstetric and Gynaecological Society (POGS), 30 July 2017, Patna
5. Moderator for session “Rh Negative Pregnancy”, Gurukul classes organized by Department of Obstetrics and Gynaecology, Sir Ganga Ram Hospital under the aegis of ISOPARB, IMS and AOGD, 19 July 2017, New Delhi
6. Moderators, Expert Board for Consensus “Arriving at a Consensus for screening strategies in Indian context” CME: Fetal Medicine, Organized by Apollo Hospital and FMF, 12-14 August 2017, Udaipur
7. Fetal blood transfusion: Assessing Rh isoimmunized woman, Set up for in utero procedures, WORKSHOP on Prenatal Diagnostic Techniques and Basic Clinical Genetics/Fetal Interventions Simulation Workshop—Techniques and Rationale, 14 August 2017, Udaipur
8. Practice Simulation Models Fetal Blood Sampling and Intra Uterine Transfusion, Workshop on Prenatal Diagnostic, 14 August 2017, Udaipur
9. Moderator, Rh incompatibility—Prevention and treatment (Case Situations), FOGSI National Conference BOH—The Triology, 19 August 2017, Gurgaon
10. Anaemic foetus: How to monitor and what to do? Ahmedabad Obstetrics and Gynaecological Society under the Aegis of FOGSI, 8 October 2017, Ahmedabad
11. Amniocentesis cordocentesis CVS and IUT, Interventional Obstetric USG, 14 October 2017, Model Town Centre, IAN Donald School CME

12. Rh negative pregnancy, Annual Conference of Gurgaon Obstetrics and Gynaecological Society, 29 October 2017, Gurgaon
13. “Prenatal screening—Challenges in the Indian scenario” and “Screening for Pre-Eclampsia—The essentials”, FETOCAN 2017, Organized by Association with “FETAL HEART”, Amrita Centre of Excellence in Fetal Care, 17 November 2017, Kochi
14. “Rh Isoimmunisation/Fetal Anemia When to refer, what to do?”, AOGD 2017, 19 November 2017, New Delhi
15. Sonogenetics—A new breakthrough in prenatal diagnosis, East Zone Yuva FOGSI Conference, 23-26 November 2017, Guwahati
16. Current scenario in Fetal Medicine and Fetal Surgery, Oration Army Hospital (R&R), 15 November 2017, New Delhi
17. Rising expectation of fetal anomaly detection—Reality check, Chair a session on “Obgyn Today – Making a difference”, 61st All India Congress of Obstetrics and Gynaecology (AICOG) Fetal Medicine Workshop, 17-19 January 2018, Bhubaneswar
18. Issue related to gynae problem, Supreme Court Bar Association, 13 February 2018, New Delhi

Neerja Bhatla

1. Co-moderator on challenges in India and South Asia with colposcopy and cervical cancer, 16th IFCPC World Congress, 4-7 April 2017, Orlando, Florida
2. The role of colposcopy for cervical cancer screening in low-resource setting, Recent Strategy in Cervical Cancer Prevention and Colposcopy Workshop, 12-13 April 2017, Jakarta, Indonesia
3. Screening for cervical cancer, MoHFW Training of State ToTs for Medical Officer to roll out population based screening for NCD conducted by NCDC and MoHFW, 17 May 2017, VMMC, New Delhi
4. Hands on training on VIA, MoHFW Training of State ToTs for Medical Officer to roll out population based screening for NCD conducted by NCDC and MoHFW, 17 May 2017, VMMC, New Delhi
5. Vaccination in pregnancy, FOGSI Academic Meet, 27-28 May 2017, Goa
6. Importance of evidence-based practice and GCPR, Expert Group Meeting, FOGSI GCPR “Cervical Cancer Screening and Management and HPV vaccination”, 31 May 2017, AIIMS, New Delhi
7. GCPR development process in resource stratified Indian perspective, Expert Group Meeting, FOGSI GCPR “Cervical Cancer Screening and Management and HPV vaccination”, 31 May 2017, AIIMS, New Delhi
8. Algorithms for women screened by HPV testing, Expert Group Meeting, FOGSI GCPR “Cervical Cancer Screening and Management and HPV vaccination”, 31 May 2017, AIIMS, New Delhi
9. Screening in special situations, Expert Group Meeting, FOGSI GCPR “Cervical Cancer Screening and Management and HPV vaccination”, 31 May 2017, AIIMS, New Delhi
10. The FIGO smart phone application for the management of Gynaecological Cancers, 25th Asian and Oceanic Congress of Obstetrics and Gynaecology (AOCOG) 2017, 15-18 June 2017, Hong Kong
11. Debate: Should HPV vaccination be a part of the Cervical Cancer Strategy in India? COGS meeting alongside best of ASCO, 2017 Annual Meeting Demystifying Advances in Oncology, 14-16 July 2017, Chandigarh
12. Screening tests for cervical cancer—A new paradigm, FOGSI-FIGO Pratishruti Workshop on “Cervical Cancer: Screening and Prevention” organized by Gorakhpur Obstetrics and Gynaecological Society and Hanuman Prasad Poddar Cancer Hospital, 23 July 2017, Gorakhpur
13. HPV vaccine—What is new? FOGSI-FIGO Pratishruti Workshop on “Cervical Cancer: Screening and Prevention” organized by Gorakhpur Obstetrics and Gynaecological Society and Hanuman Prasad Poddar Cancer Hospital, 23 July 2017, Gorakhpur
14. Cervical cancer screening and HPV vaccination in India: The current scenario, CME on Cervical Cancer, 24 July 2017, Kolkata
15. FIGO workshop on Gynae Oncology, FOGSI-FIGO International Conference on Clinical Challenges in Obstetrics and Gynaecology, 4 August 2017, Hyderabad
16. Pragmatic management of HPV positive women in Indian context, FOGSI-FIGO International Conference on Clinical Challenges in Obstetrics and Gynaecology, 4-6 August 2017, Hyderabad
17. The FIGO smartphone mobile application for management of Gynaecological Cancers, International FOGSI Gynae Oncology Conference, 11-13 August 2017, Bhubaneswar
18. Video on Radical Hysterectomy, International FOGSI Gynae Oncology Conference, 11-13 August 2017, Bhubaneswar

19. What's new in the HPV vaccine basket? 8th Annual Conference of AOGIN India 2017, 8-10 September 2017, Lucknow
20. AOGIN India Oration—Control of cervical cancer in Asia Oceania—The dream is coming true, 8th Annual Conference of AOGIN India 2017, 8-10 September 2017, Lucknow
21. An interactive session showcasing key information communication technologies such as the mobile apps for cancer staging and appropriate use of nuclear cardiology studies, 61st IAEA General Conference, 19-20 September 2017, Vienna, Austria
22. Keynote lecture on Adiposity and women's cancers, Annual Conference of Women's Cancer Initiative-Tata Memorial Hospital (WCI-TMH) and Association of Gynecologic Oncologists of India (AGOI), 27-29 October 2017, TMH, Mumbai
23. Video on parametrial and ureteric dissection in a radical hysterectomy, Annual Conference of Women's Cancer Initiative-Tata Memorial Hospital (WCI-TMH) and Association of Gynecologic Oncologists of India (AGOI), 27-29 October 2017, TMH, Mumbai
24. FIGO staging of gynaecological cancers: What the future holds, 11th International Conference on Cancer in Africa entitled "Cancer in Africa: Making Strides, Creating Solutions", 7-10 November 2017, Kigali, Rwanda
25. Panel discussion in Recurrent Ovarian Carcinoma, 39th Annual Conference of AOGD 2017 Pre-Congress Gynae Oncosurgery Video Workshop, 17 November 2017, New Delhi
26. Staging laparotomy for ovarian cancer, 39th Annual Conference of AOGD 2017 Pre-Congress Gynae Oncosurgery Video Workshop, 17 November 2017, New Delhi
27. FIGO smart phone application for management of Gynaecological Cancers, 39th Annual Conference of AOGD 2017, conducted by UCMS and GTB Hospital, 18-19 November 2017, New Delhi
28. FIGO staging future directions, 5th Biennial Meeting of Asian Society of Gynecologic Oncology (ASGO 2017), 30 November-2 December 2017, Tokyo, Japan
29. Cervical cancer screening in Asia, 5th Biennial Meeting of Asian Society of Gynecologic Oncology (ASGO 2017), 30 November-2 December 2017, Tokyo, Japan
30. Panel discussion on current role of imaging in staging for gynaecological malignancies, AICC RCOG North Zone Annual Conference 2017, 17-18 December 2017, MAMC, New Delhi
31. Practical cervical cancer prevention in India in basic colposcopy course, Post Conference Workshop of AICC RCOG North Zone Annual Conference 2017, 17-18 December 2017, MAMC, New Delhi
32. Laparoscopic anatomy pertaining to lap radical hysterectomy, Cadaver Workshop and CME in Gynae Oncology Procedures (CaDGO 2018), 6-7 January 2018, AIIMS, New Delhi
33. Cervical cancer prevention, FOGSI-FIGO Pratishruti Workshop 2018 Prevention of HPV Related Cancers, 14 January 2018, Gurgaon
34. Cervical cancer control: Dream or reality? 61st All India Congress of Obstetrics and Gynaecology—AICOG 2018, FOGSI-ICOG - Dr C.L. Jhaveri Endowment Symposium on "She Matters, Care, Educate, Transform", 17-21 January 2018, Bhubaneswar
35. Moderator in panel discussion on HPV vaccination—Case Scenarios "Doses, Regimen, Pregnancy, Abnormal Pap, CIN, HPV", 61st All India Congress of Obstetrics and Gynaecology—AICOG 2018, Workshop on Clinical Dilemmas in Mature Women (Preventive Oncology and Menopause), 17-21 January 2018, Bhubaneswar
36. Essential tool for all: The FIGO mobile app for management of gynaecological cancers, 61st All India Congress of Obstetrics and Gynaecology—AICOG 2018, FOGSI Gynaecologic Oncology Committee Workshop, 18 January 2018, Bhubaneswar
37. NEW FOGSI GCPR on "Screening and Management of Preinvasive Lesions of Cervix and HPV Vaccination" along with Tips and Tricks on Onco Fertility, 61st All India Congress of Obstetrics and Gynaecology—AICOG 2018, FOGSI Gynaecologic Oncology Committee Workshop, 18 January 2018, Bhubaneswar
38. Case-based discussion: Screening and management of CIN (With practical demonstration of usage of GCPR charts and videos on treatment procedures), 61st All India Congress of Obstetrics and Gynaecology—AICOG 2018, FOGSI Gynaecologic Oncology Committee Workshop, 18 January 2018, Bhubaneswar
39. FOGSI guidelines and recommendations for cervical cancer screening, 13th ISCCP Conference 2018, 10-11 March 2018, Bengaluru

Kallol Kumar Roy

1. Surveillance and decision making in intra uterine growth restriction, Preterm Labour Workshop, 14 May 2017, Bareilly

2. Abortion, DGO class room programme, National Association for Reproductive and Child Health of India (Narchi), 9 September 2017, Kolkata
3. APH, DGO class room programme, National Association for Reproductive and Child Health of India (Narchi), 9 September 2017, Kolkata
4. Genital fistula, DGO class room programme, National Association for Reproductive and Child Health of India (Narchi), 9 September 2017, Kolkata
5. Prenatal diagnosis, DGO class room programme, National Association for Reproductive and Child Health of India (Narchi), 9 September 2017, Kolkata
6. Amenorrhoea, DGO class room programme, National Association for Reproductive and Child Health of India (Narchi), 9 September 2017, Kolkata
7. Coagulation failure, DGO class room programme, National Association for Reproductive and Child Health of India (Narchi), 9 September 2017, Kolkata
8. Gestational diabetes, DGO class room programme, National Association for Reproductive and Child Health of India (Narchi), 9 September 2017, Kolkata
9. Genital TB, DGO class room programme, National Association for Reproductive and Child Health of India (Narchi), 9 September 2017, Kolkata
10. Multifetal gestation, DGO class room programme, National Association for Reproductive and Child Health of India (Narchi), 9 September 2017, Kolkata
11. Pelvic organ prolapsed, DGO class room programme, National Association for Reproductive and Child Health of India (Narchi), 9 September 2017, Kolkata
12. Genital infections, DGO class room programme, National Association for Reproductive and Child Health of India (Narchi), 9 September 2017, Kolkata
13. Preterm prelabour rupture of membranes, DGO class room programme, National Association for Reproductive and Child Health of India (Narchi), 9 September 2017, Kolkata
14. Abortion, DGO class room programme, National Association for Reproductive and Child Health of India (Narchi), 9 September 2017, Kolkata
15. Primary and secondary infertility, DGO class room programme, National Association for Reproductive and Child Health of India (Narchi), 17 February 2018, Kolkata
16. Contraception in detail, DGO class room programme, National Association for Reproductive and Child Health of India (Narchi), 17 February 2018, Kolkata
17. PCOS and Hirsutism, DGO class room programme, National Association for Reproductive and Child Health of India (Narchi), 17 February 2018, Kolkata
18. MTP in details, DGO class room programme, National Association for Reproductive and Child Health of India (Narchi), 17 February 2018, Kolkata
19. Early pregnancy bleeding, DGO class room programme, National Association for Reproductive and Child Health of India (Narchi), 17 February 2018, Kolkata
20. Ectopic, DGO class room programme, National Association for Reproductive and Child Health of India (Narchi), 17 February 2018, Kolkata
21. Prophylactic antibiotic in Obs/Gynae, DGO class room programme, National Association for Reproductive and Child Health of India (Narchi), 17 February 2018, Kolkata
22. Common infection in Gynaecology, DGO class room programme, National Association for Reproductive and Child Health of India (Narchi), 17 February 2018, Kolkata
23. AUB-HMB, DGO class room programme, National Association for Reproductive and Child Health of India (Narchi), 17 February 2018, Kolkata
24. Endometriosis, DGO class room programme, National Association for Reproductive and Child Health of India (Narchi), 17 February 2018, Kolkata
25. Surveillance and decision making in intra uterine growth restriction, Workshop on Preterm Labour, 3 September 2017, Patiala
26. Hysteroscopy: Diagnostic and operative—Our experience, Training Programme in Minimally Invasive Gynaecology, 29 January-3 February 2018, New Delhi
27. Hysteroscopy: diagnostic and operative—Our experience, Training Programme in Minimally Invasive Gynaecology, 5-10 March 2018, New Delhi
28. Philosophy of ovulation induction, Workshop on Ovulation Induction, 26 November 2017, Kolkata

29. Audit in still birth, FOGSI First World Congress on Why Fetus die in Utero? 1-3 December 2017, Kolkata
30. Power morcellation—Current scenario, 43rd Annual Conference of the Bengal Obstetrics and Gynaecological Society, 5-7 January 2018, Kolkata

Neena Malhotra

1. Endocrinology of PCOS, 22nd Annual Conference of ISAR (Indian Society of Assisted Reproduction), 21-23 April 2017, Gurgaon
2. Genital tuberculosis—Diagnostic dilemmas and management challenges, YUVA FOGSI (Federation of Obstetricians and Gynecological Society of India), 30 April 2017, Lucknow
3. Oral ovulogens or gonadotropins for optimizing ovulation induction in PCOS, 2nd J&K Medical Science Congress, 11 May 2017, Srinagar
4. Genital tuberculosis—Challenges in diagnosis and management, Inaugural CME of IFS (Indian Fertility Society), Nepal Chapter, 3 June 2017, Kathmandu
5. Ovulation induction for IUI and optimizing results, FOGSI CNN (Controversies, Newer Advances, Newer Evidences), 24-25 June 2017, Pune
6. Update on endometriosis: Where do we stand in 2017, FOGSI CNN, 24 June 2017, Pune
7. Maternal near miss, 17th Annual Conference of NOIDA Obstetrics and Gynaecology Society (NOGS), 30 July 2017, NOIDA
8. Fertility preservation in heritable cancers, FERTIPROTECT 2017, 4th Annual Conference of Fertility Preservation Society of India, 19 August 2017, Chennai
9. Trouble shooting infertility in PCOS, PCO Symposium, Gujarat Chapter of IFS (Indian Fertility Society), 10 September 2017, Surat
10. “Dilemmas in diagnosis and management of Genital Tuberculosis”, KSOGA, 2017, 28th Annual Conference of Karnataka State Obstetrics and Gynecology Association, 12 November 2017, Shimoga
11. “Immune and thrombophilia tests prior to IVF—When and for whom?”, LIFE CONFERENCE, Life beyond Expectations, 1 December 2017, Bengaluru
12. Pregnancy outcome between Fresh and Frozen ET—Current evidence, FERTIVISION, 2017, 13th Annual Conference of IFS (Indian Fertility Society), 9 December 2017, New Delhi
13. Impact of ovulation induction on endometrial receptivity, YUVA ISAR, 16 December 2017, Ahmedabad
14. Recurrent implantation failure in ART, Be up to Date, RCOG Annual Professional Development Conference, 17 December 2017, New Delhi
15. Poor responders in ART, The World Congress on Reproductive Health with Emphasis on Family Planning and Assisted Reproductive Technology and 28th Annual Meeting of the Indian Society for the Study of Reproduction and Fertility (*ISSRF 2018*), 24 February 2018, Hyderabad
16. “Clinical, Biochemical and Genetic characteristics of PCOS”, PCON organized by Punjab Chapter of IFS, 4 March 2018, Jalandhar

Vatsla Dadhwal

1. Fetal therapy in complicated monochorionic pregnancy—Moderator in workshop, 33rd National Conference of ISOPARB 2017, Pre-Conference Fetal Medicine Workshop on IHC, 7 April 2017, New Delhi
2. Medical fetal therapy, North Zone Yuva FOGSI 2017, 28-30 April 2017, Lucknow
3. Breast cancer and pregnancy, Updates in Management of Breast Cancer, 6-7 May 2017, New Delhi
4. Management of common scenarios in twin pregnancies: Case based panel discussion intervention procedures and delivery decisions, CME Evidence Based Fetal Care 1st Quarterly Meet Society of Fetal Medicine (2017-2018), 7 May 2017, New Delhi
5. Lecture-CVS, VIth AIIMS Fetal Medicine Workshop, 8-11 May 2017, New Delhi
6. Amniocentesis: Practical considerations and techniques, “A Live and hands on Simulator Workshop and Course in Basic Diagnostic and Interventional Procedures in Fetal Medicine”, 26-28 May 2017, New Delhi
7. Management of Rh isoimmunization, THGF Annual CME—Safe Fetal Journey, 13 July 2017, New Delhi
8. “Cervical Cancer in Pregnancy: A surgeon’s perspective”, Updates in Management of Gynaecology Cancer, 5 August 2017, New Delhi
9. Fetal Medicine Foundation of India Symposium, 12-14 August 2017, Udaipur, Rajasthan

10. Fetal reduction, FOGSI Conference in Association with AOGD BOH—The Triology, 19 August 2017, New Delhi
11. TTTS: Optimizing outcomes, National Association of Reproductive and Child Health of India, Delhi Branch, Theme of the Conference “Maternal and Child Health: Intensifying Core Competencies”, 29 October 2017, New Delhi
12. Invasive PND procedures: When and how? Common Clinical Scenarios, Evidence Based Fetal Care: Screening Protocols—Pre-Congress Workshop, 17 November 2017, New Delhi
13. “Growth Problems, Monitoring and Timing Delivery in Multiples”, 39th Annual Conference Association of Obstetricians and Gynaecology (AOGD), 18-19 November 2017, New Delhi
14. Indications for fetal echo moderator for fetal rhythm abnormalities: Case based discussions, Workshop on Fetal Echocardiography, 9 and 10 December 2017, New Delhi
15. Panelist—Intrauterine growth restriction, Annual Conference RCOG North Zone, 16 December 2017, New Delhi
16. Problem associated with monochorionic twins: Management pregnancy after ART—An overview of its problem, Management of Rh isoimmunized pregnancy moderator- panel on intrauterine fetal growth restriction, CME “Maternal Fetal Medicine—An Update 2018”, 4 February 2018, Bareilly
17. How to interpret screening results? 3rd Maternal Fetal Medicine Workshop, 10 February 2018, New Delhi

J.B. Sharma

1. Prolapse—When to do, What surgery for prolapse, AICC RCOG 2017 Conference, 2 September 2017, Mumbai
2. Anemia in pregnancy and female genital tuberculosis, Deliver Lecture in Conference, 17 September 2017, Rajasthan
3. The vaginal suspensory and support systems: Anterior, posterior, lateral and central compartment defects, 1st World Congress of Reconstructive and Cosmec Gyneco, 6-8 October 2017, Gurgaon
4. Role of phosphomycin in UTI, Deliver Lecture on CME, 26 November 2017, Amritsar
5. Genital TB, The 72nd National Conference on Tuberculosis and Chest Diseases (NATCON 2017), 15-17 December 2017, Andhra Pradesh
6. FOGSI First World Congress, Why Fetus Die in Utero, 2-3 December 2017, West Bengal
7. MDR tuberculosis in pregnancy, 61st All India Congress of Obstetrics and Gynecology 2018, 19-20 January 2018, Bhubaneswar
8. ISSRF “Issues in Reproductive Health”, 23-25 February 2018, Hyderabad

Neeta Singh

1. Fertility preservation options in patients of carcinoma cervix, National Conference of Fertility Preservation Society, 17-19 August 2017, Chennai
2. Organized the National Quiz on Assisted Reproduction and Infertility, 12th National Conference of Indian Fertility Society, 4-6 December 2017, New Delhi

Aparna Sharma

1. Invasive procedures, Indian Society of Perinatology and Reproductive Biology (ISOPARB) Pre-Conference Fetal Medicine Workshop at Indian Habitat Centre, 7 April 2017, New Delhi
2. QI tools, Faculty Development Workshop, 7 April 2017, New Delhi
3. Analysis in QI, QI Workshop for Resident Doctors, 16 April 2017, New Delhi
4. Oration: She matters: Care educate and transform, NZYF, 29 April 2017, Lucknow
5. Prediction of preterm birth, CME on Evidence Based Fetal Care, 7 May 2017, New Delhi
6. Amniocentesis, VIth AIIMS Workshop on Fetal Medicine, 8-11 May 2017, New Delhi
7. 12-week scan: Window of opportunity, FOGSI-CNN, 23 June 2017, Pune
8. Panelist: Fetus asks: What next? FOGSI-CNN, 23 June 2017, Pune
9. Management of Rh isoimmunization, SAFE FETAL JOURNEY, 13 July 2017, Ghaziabad
10. Tools in QI, Quality Improvement Workshop, Pre-Congress Workshop of EMINDIA 2017, 12 July 2017, New Delhi
11. TTTS-risk stratification and management, FOGSI FIGO 2017, 4 August 2017, Hyderabad
12. Anomaly scan, FOGSI National Conference on BOH, 20 August 2017, Gurgaon
13. Workshop coordinator, Capacity Building Workshop for Improving Quality of Facility-Based Care Around Child Birth, 22-24 August 2017, Sri Lanka
14. Coordinator doppler in fetal growth restriction: Live scans and interactive workshop, Fetal Med 2017 and APCMFM 13, 1 September 2017, New Delhi

15. QI tools, 7th International CME, Workshop and Conference on Cost Effective Use of Technology in e-healthcare, 12 September 2017, AIIMS
16. Anaemia in pregnancy (Case presentation), 20th Post-Graduate Practical Course and CME, 22 September 2017, New Delhi
17. Management of Rh isoimmunized pregnancy, Annual CME Trichy Obstetrics and Gynaecological Society, 23 October 2017, Trichy
18. Management of complicated monochorionic twins, Annual CME Trichy Obstetrics and Gynaecological Society, 23 October 2017, Trichy
19. Selective feticide in monochorionic twins, Annual CME Trichy Obstetrics and Gynaecological Society, 23 October 2017, Trichy
20. Gonadal dysgenesis, Symposium on Ovary “Unfolding the secrets in management”, 24 October 2017, New Delhi
21. Evaluating the fetus in second trimester, Workshop on Obstetric Ultrasound: Essentials to Advance, 27 October 2017, New Delhi
22. Management of Rh isoimmunization, 19th Annual CME Ghaziabad Obstetric and Gynecological Society, 29 October 2017, Ghaziabad
23. First trimester aneuploidy screening, Evidence Based Fetal Care: Screening Protocols AOGD Pre-Congress Workshop, 17 November 2017, New Delhi
24. Live demo of invasive procedures, Evidence Based Fetal Care: Screening Protocols AOGD Pre-Congress Workshop, 17 November 2017, New Delhi
25. Cesarean on demand is the right of a pregnant mother, 39th AOGD Conference, 19 November 2018, New Delhi
26. Materials for POCQI, Workshop for Launch of Point of Care Quality Improvement Model (version 2): Facilitators Meet, 24 November 2017, New Delhi
27. Fetal circulation, Fetal Echo Workshop, 10 December 2017, New Delhi
28. Panelist on fetomaternal module, AICC RCOG North Zone Annual Conference 2017, 16 December 2017, New Delhi
29. Fetal growth restriction, Update on Small Babies, CME by GOGS and Safe Motherhood Committee, 27 December 2017, Gurgaon
30. Oration on “She Matters: Care, Educate and Transform”, 61st AICOG, 21 January 2018, Bhubaneswar
31. Materials for self learning for QI, CGR on Quality Improvement, 23 January 2018, New Delhi
32. Late presenters—How to manage? 3rd MFM Workshop Essentials of Fetal Medicine-Clinical Approach, 10 February 2018, New Delhi
33. Screening in first trimester, CME on the Role of USG in Obstetrics and Gynaecology, 11 February 2018, Haldwani
34. Doppler in third trimester, CME on the Role of USG in Obstetrics and Gynaecology, 11 February 2018, Haldwani
35. Rh negative pregnancy—An Update, CME on “Rh Negative Pregnancy—An Update” by Saharanpur Obstetrics and Gynaecological Society, 22 February 2018, Saharanpur
36. Fetal endoscopy, Women’s Health Initiative 30th Training Course in Minimally Invasive Gynaecology, 16 March 2018, New Delhi
37. POCQI website, Leadership in Quality Improvement and Capacity Building Workshop cum Consultation, 28 March 2018, New Delhi
38. Spreading QI in institution—Value of leadership, Leadership in Quality Improvement and Capacity Building Workshop cum Consultation, 28 March 2018, New Delhi

Garima Kachhawa

1. Pregnancy after renal transplant, ISOPARB 2017, 8 April 2017, New Delhi
2. Robotic surgery: Advantages over laparoscopy, North Zone Yuva FOGSI 2017, 28 April 2017, Lucknow
3. Myomectomy: When and how? North Zone Yuva FOGSI 2017, 29 April 2017, Lucknow
4. Laparoscopic management of ectopic pregnancy, WHI Training Course in MAS, 1 March 2017, New Delhi
5. Approach to a patient with postmenopausal bleeding, FOGSI-CNN, 23-25 June 2017, Pune
6. HCG to all patients of RPL/BOH? BOH-The Triology, 19-20 August 2017, New Delhi
7. Tips to prevent future vault prolapsed during TLH, DGES (Annual Conference) and IAGE (NZ) 2017, 25-27 August 2017, New Delhi
8. Evidence based recent treatment of fibroid, CME of Ghaziabad Obstetrics and Gynaecological Society, 18-19 November 2017, Ghaziabad

9. All fibroids seen during caesarean section must be removed, 39th Annual Conference of Association of Obstetricians and Gynaecologists of Delhi, 18-19 November 2017, New Delhi
10. Laparoscopic management of ectopic pregnancy, 29th WHI Training Course in MAS, 29 January 2018, New Delhi
11. Laparoscopic management of ectopic pregnancy, 30th WHI Training Course in MAS, 5 February 2018, New Delhi
12. Hyperprolactinemia and infertility, CME Organized by ESIC, 3 February 2018, Hyderabad

Reeta Mahey

1. Office hysteroscopy (Lecture), WHI Gynae Endoscopy Training, April 2017, New Delhi
2. How endoscopy affects infertility (Co-moderator), ISAR 2017, 21-23 April 2017, New Delhi
3. Panel on HIV, STD and infertility (Panelist), Let's Talk Sex, 30 April 2017, New Delhi
4. Fertility enhancing endoscopic surgeries (Co-moderator), Legends Go Live, 17 July 2017, New Delhi
5. PCOS-Case scenarios (Co-moderator), 4th GOAL Conference, 20-21 August 2017, Udaipur
6. Prevention of preterm birth (Lecture), AOGD Conference, 17-19 November 2017, New Delhi
7. Third party reproduction—Ethical issues (Panelist), FERTIVISION 2017, 9-11 December 2017, New Delhi

P. Vanamail

1. Statistical inference, type of errors, power of a test, statistical significance vs clinical significance, PG Workshop on Research Methods, Writing and Communication, 17 August 2017, AIIMS, New Delhi
2. Statistical inference, type of errors, power of a test, statistical significance vs clinical significance, PG Workshop on Research Methods, Writing and Communication, 24 September 2017, AIIMS, New Delhi
3. Inferential statistics and test of significance, Workshop on Research Methodology, 22 November 2017, AIIMS outreach Ballabgarh
4. Essential elements of statistics in research studies, Workshop on Research Methodology and Publication, 15 December 2017, Apollo Hospital, New Delhi
5. Statistical inference, type of errors, power of a test, statistical significance vs clinical significance, PG Workshop on Research Methods, Writing and Communication, 18 March 2018, AIIMS, New Delhi

Vidushi Kulshrestha

1. Selected practice recommendations on contraception, CME on Contraception, Organized by FIGO, FOGSI, WHO-HR, Department of Obstetrics and Gynaecology, AIIMS, 1 April 2017, New Delhi
2. Morcellation: To do or not to do (Debate-Against), 33rd ISOPARB 2017 National Conference of Indian Society of Perinatology and Reproductive Biology, Organized by ISOPARB Delhi Branch and Sir Ganga Ram Hospital, 7-9 April 2017, New Delhi
3. Complications of hysteroscopy, 28th Training Course in Minimally Invasive Gynaecology, Organized by AIIMS and WHI, 6 May 2017, New Delhi
4. Genital tuberculosis—Unusual presentation (Video), Annual Conference of DGES and IAGE (North Zone), Organized by DGES, 27 August 2017, Delhi
5. Endometriosis, Symposium on Ovary—Unfolding the secrets in management, Organized by Department of Obstetrics and Gynaecology, AIIMS, New Delhi and Gynae Endocrine Society of India under Aegis of AOGD, 24 September 2017, New Delhi
6. Guidelines on AUB, 19th Annual CME of Ghaziabad Obstetrics and Gynaecological Society, Organized by Ghaziabad Obstetrics and Gynaecological Society, 29 October 2017, Ghaziabad
7. Selective progesterone receptor modulators, 39th Annual Conference of AOGD, 19 November 2017, New Delhi
8. Complications of hysteroscopy, 29th Training Course in Minimally Invasive Gynaecology, Organized by AIIMS and WHI, 3 February 2018, New Delhi
9. Complications of Hysteroscopy, 30th Training Course in Minimally Invasive Gynaecology, Organized by AIIMS and WHI, 10 February 2018, New Delhi
10. Complications of Hysteroscopy, 31st Training Course in Minimally Invasive Gynaecology, Organized by AIIMS and WHI, 10 March 2018, New Delhi

Seema Singhal

1. National Informatic Centre Niti Aayog, Women's Health Issues, 10 May 2017, Delhi
2. Management of abnormal cytology, Expert Group Meeting FOGSI GCPR Screening and Management of Pre-Invasive Lesions of Cervix and HPV vaccination, 31 May 2017, Delhi

3. Grading of recommendations and summary of global guidelines, Expert Group Meeting FOGSI GCPR Screening and Management of Pre-Invasive Lesions of Cervix and HPV Vaccination, 31 May 2017, Delhi
4. QI methodology, EMINDIA 201, The Annual Conference of Emergency Medicine Association and Academic College of Emergency Experts in India, 12 July 2017, New Delhi
5. Role of surgical management in recurrent cancer cervix, Updates in Management of Gynecological Cancer, 5 August 2017, Delhi
6. Reproductive outcome after treatment of pre-invasive lesions of cervix, International FOGSI Gynae Oncology Conference, 12 August 2017, Bhubaneswar
7. FOGSI GCPR on cervical cancer screening and management and HPV vaccination, International FOGSI Gynae Oncology Conference, 12 August 2017, Bhubaneswar
8. Menopause and ovary, Unfolding the secrets in management organized by Department of Obstetrics and Gynecology, AIIMS under GESI, 24 September 2017, Delhi
9. Primary HPV screening vs VIA for the motion, AGOI WCI TMH Conference, 29 October 2017, Mumbai
10. Proposed coaching plan, Workshop for Launch of Point of Care Quality Improvement Model (version 2), 24 November 2017, Delhi
11. Management of early endometrial cancer current strategies, 29th Annual Conference of Patiala Obstetrics and Gynaecological Society, 10 December 2017, Patiala
12. Carcinoma ovary, GURUKUL Classes, 20 December 2017, Delhi
13. Manuals for QI POCQI manuals, e manuals, Point of Care Quality Improvement Model (version 2): Facilitators Meet and Dissemination Meet of Educational Package for Reducing ROP, 26 December 2017, AIIMS, New Delhi
14. Case-based discussion: Screening and management of CIN (With practical demonstration of usage of GCPR charts and videos on treatment procedures), 61st All India Congress of Obstetrics and Gynaecology, 18 January 2018, Bhubaneswar
15. HPV testing—The future in cervical cancer prevention, 61st All India Congress of Obstetrics and Gynaecology, 21 January 2018, Bhubaneswar
16. Step 1 picking a problem and forming a team statement, Leadership in QI and Capacity Building Workshop cum Consultation, 27 March 2018, New Delhi
17. Clinical presentation and work up of carcinoma cervix, Certified Digital Course Screening and Management of Carcinoma Cervix, Web lecture, www.fogsi.org
18. Surgical management of carcinoma vulva, Pre-Conference Workshop Updates in Management of Gynecological Cancer: An NCI Initiative, 4 August 2017, Delhi

Rajesh Kumar

1. A cross sectional study of preoperative and postoperative nutritional and tumor markers in women with SUI, Recogyn 2017, 5-8 October 2017, Gurgaon
2. Contraceptive update, Ministry of Health, 6 March 2018, New Delhi
3. Hands on training on pelvi trainer: Introduction to laparoscopy, Minimally Invasive Gynaecology, February and March 2018, New Delhi

Jyoti Meena

1. Menstrual problems in adolescent girls with autism, Public Lecture—“Autism from Early Detection to Autonomy: Challenges and Way Forward”, 26 April 2017, Delhi
2. Algorithms for women screened by HPV testing, Expert Group Meeting FOGSI GCPR—Cervical Cancer Screening and Management and HPV Vaccination, 31 May 2017, Delhi
3. Harms of treatment, Expert Group Meeting FOGSI GCPR—Cervical Cancer Screening and Management and HPV Vaccination, 31 May 2017, Delhi
4. Video presentation on carcinoma endometrium surgery, Updates in Management of Gynecological Cancer—Workshop, 4 August 2017, Delhi
5. Sentinel lymph nodes in gynae oncology, Updates in Management of Gynecological Cancer—Workshop, 4 August 2017, Delhi
6. Pregnancy in CA cervix, FOGSI BOH Conference, 19 August 2017, Gurgaon
7. Adolescent ovarian tumors—Case discussion, Symposium: Ovary-Unfolding the Secrets in Management, 24 September 2017, Delhi

8. HPV vaccination—Current scenario, 6th Hands-on Workshop on Cervical Cancer Screening for Pathologists, 12 October 2017, NOIDA
9. Management of screen positive cases, NARCHI Pre-Conference Workshop on Basics of Colposcopy, 27 October 2017, Delhi
10. Heart disease in pregnancy, Gurukul Classes, 21 December 2017, Delhi

Jughi Bharati

1. Common women's health issues, Women's Health Issues, 11 April 2017, New Delhi
2. Video presentation on radical vaginal hysterectomy, Updates in Management of Gynecological Cancer—Workshop, 4 August 2017, New Delhi

Rohini Sehgal

1. WHO medical eligibility criteria for contraceptive use, FIGO-WHO-FOGSI Workshop on Medical Eligibility Criteria for Contraception, 1 April 2017, AIIMS, New Delhi
2. Injectable MPA—Integrated District Health Society (South district)—Contraceptive Update Seminar for Service Providers, 8 March 2018, Pt Madan Mohan Malviya Hospital, Malviya Nagar, New Delhi

Oral papers/posters presented

1. Kriplani A. Successful management of live caesarean scar ectopic pregnancies with ultrasound guided local potassium chloride and systemic methotrexate, Royal Australian and New Zealand College of Obstetricians and Gynaecologists 2017 Annual Scientific Meeting (RANZCOG 2017 ASM), 29 October-1 November 2017, Auckland, New Zealand
2. Kriplani A. Laparoscopic Davydov's peritoneal pull through vaginoplasty in MRKH—An experience at tertiary care centre, Royal Australian and New Zealand College of Obstetricians and Gynaecologists 2017 Annual Scientific Meeting (RANZCOG 2017 ASM), 29 October-1 November 2017, Auckland, New Zealand
3. Kriplani A. Successful management of live caesarean scar ectopic pregnancies with ultrasound guided local potassium chloride and systemic methotrexate (Poster presentation), DC 46th AAGL Global Congress on Minimally Invasive Gynecologic Surgery, 15 November 2017, Maryland, Washington DC
4. Kriplani A. Laparoscopic Davydov's peritoneal pull through vaginoplasty in MRKH—An experience at Tertiary Care Centre (Video presentation), 46th AAGL Global Congress on Minimally Invasive Gynecologic Surgery, 15 November 2017, Maryland, Washington DC
5. Singhal S, Kumar S, Meena J, Roy KK, Singh N, Sharma JB, et al. Outcome of pregnancy with anti immune disorders: Our experience, ACOG, 19 January 2018, Bhuvneshwar
6. Deka D, Mohanty S, Devi P. "Amniotic Fluid Mesenchymal Stem Cells have Differentiation Potential", "16th World Congress in Fetal Medicine", Organized by the Fetal Medicine Foundation, 25-29 June 2017, Ljubljana, Slovenia
7. Mochan S, Bhatla N, Rani N, Gupta SK, Saxena S, Arora P, Dhingra R. sFlt-1 induces endoplasmic reticulum stress by activating PERK pathway in BeWo cells, SLIMP Conference, 11-13 April 2017, Chile, South America
8. Arora P, Kshetrapal P, Bhatla N, Rani N, Mochan S, Gupta SK, Saxena S, Dhingra R. Matrix metalloproteinase 2 and tissue inhibitor of metalloproteinase 2 mRNA levels in early onset preeclampsia, SLIMP Conference, 11-13 April 2017, Chile, South America
9. Gupta SK, Bhatla N, Rani N, Mochan S, Saxena S, Arora P, Dhingra R. Hydrogen sulphide producing enzymes are decreased in placentas from preeclampsia. SLIMP Conference, 11-13 April 2017, Chile, South America
10. Mochan S, Bhatla N, Rani N, Gupta SK, Saxena S, Arora P, Dhingra R. Role of sVEGFR1 (sFlt-1) in inducing endoplasmic reticulum stress in trophoblast cells and its status in preeclampsia, 65th National Conference of Anatomical Society of India, 30 November-3 December 2017, Raipur (**Dr Dharam Narayan Gold Medal**)
11. Arora P, Kshetrapal P, Bhatla N, Luthra K, Sharma A, Rani N, Mochan S, Gupta S, Saxena S, Dhingra R. Expression of MMP9 and TIMP1 in human placenta from early onset preeclampsia, 65th National Conference of Anatomical Society of India, 30 November-3 December 2017, Raipur
12. Mochan S, Bhatla N, Luthra K, Sharma A, Rani N, Gupta S, Saxena S, Arora P, Dhingra R. sFlt-1 (sVEGFR1) induces placental endoplasmic reticulum stress in trophoblast cells via IRE1 axis of the ER stress pathway; implication in preeclampsia, SYSCON, 11-12 January 2018, AIIMS, New Delhi (**Dr G P Talwar Gold Medal**)
13. Arora P, Kshetrapal P, Bhatla N, Luthra K, Sharma A, Rani N, Mochan S, Gupta SK, Saxena S, Dhingra R. Study on the genetic expression of hydrogen sulphide producing enzymes in early onset pre-eclampsia, SYSCON, 11-12 January 2018, AIIMS, New Delhi

14. Singh P, Bhatla N, Kriplani A, Gupta S. Glioblastoma multiforme in pregnancy: A rare combination, 61st All India Congress of Obstetrics and Gynaecology (AICOG 2018), 19 January 2018, Bhubaneswar, Odisha
15. Mochan S, Bhatla N, Luthra K, Sharma A, Rani N, Gupta SK, Saxena S, Arora P, Dhingra R. VEGF alleviates endoplasmic reticulum stress in trophoblast cells, herewith PERK arm: Implications in Preeclampsia, 20th International Conference on Cell Biology, 27-31 January 2018, Hyderabad
16. Gupta SK, Mochan S, Bhatla N, Luthra K, Kshetrapal P, Saxena S, Arora P, Rani N, Dhingra R. Effect of Hydrogen Sulphide on migration of trophoblast cells: An *in vitro* study, 20th International Conference on Cell Biology, 27-31 January 2018, Hyderabad
17. Saxena S, Kshetrapal P, Mochan S, Bhatla N, Luthra K, Sharma A, Gupta SK, Arora P, Rani N, Dheeraj K, Dhingra R. The role of Hydrogen Sulphide in mediating trophoblast cell invasion during placentation and its likely role in preeclampsia, 20th International Conference on Cell Biology, 27-31 January 2018, Hyderabad
18. Arora P, Kshetrapal P, Bhatla N, Luthra K, Sharma A, Rani N, Mochan S, Gupta S, Saxena S, Dhingra R. Effect of cystathionine gamma lyase on markers of trophoblast invasion 'an *in vitro study*': Implications in adverse pregnancy outcomes like preeclampsia, 20th International Conference on Cell Biology, 27-31 January 2018, Hyderabad
19. Malhotra N, Dada R. 8-Isoprostane a novel oxidative stress biomarkers in follicular fluid of women with endometriosis undergoing In-Vitro-Fertilization (IVF), Global Endometriosis Summit, 20-21 July 2017, Reykjavik Iceland
20. Malhotra N, Noor N. Randomized controlled trial comparing three-dimensional automated volume measurement and two-dimensional manual tracking of follicular development during In-Vitro-Fertilization (IVF) cycles, 73rd Annual Meeting of American Society of Reproductive Medicine (ASRM), 28 October-1 November 2017, USA
21. Malhotra N, Dolkar D, Singh N, Mahey R. To flush or not to flush: A randomized controlled trial comparing follicular flushing and direct aspiration at oocyte retrieval in poor responders undergoing In-Vitro-Fertilization (IVF), 73rd Annual Meeting of American Society of Reproductive Medicine (ASRM), 28 October-1 November 2017, USA
22. Dadhwal V, Sharma AK, Deka D, Chawla L. Successful management of two cases of fetal airway compromise by the EXIT procedure, 16th World Congress in Fetal Management, 25-26 June 2017, Slovenia
23. Dadhwal V, Sharma A, Deka D, Chawla L. Chorionicity a challenge: Preliminary experience of fetal reduction in monochorionic twins at a tertiary care center, Asia Pacific Conference on Maternal Fetal Medicine (APCMFM 13), 2 and 3 September 2017, Gurgaon
24. Dadhwal V, Sita GS, Khoiwal K, et al. Mifepristone followed by misoprostol or ethacridine lactate and oxytocin for second trimester abortion: A RCT, 12th Congress of the European Society of Gynecology, 18-21 October 2017, Barcelona, Spain
25. Dadhwal V, Khoiwal K, Sharma A, Deka D. An unusual cause of abdominal mass, 12th Congress of the European Society of Gynecology, 18-21 October 2017, Barcelona, Spain
26. Bansal P, Malhotra N, Dadhwal V, Deka D, Sharma A. The role of GnRh-analogues in improving outcome in women undergoing super-ovulation and intra uterine insemination after surgical correction of minimal to mild endometriosis. A randomized control trial, 12th Congress of the European Society of Gynecology, 18-21 October 2017, Barcelona, Spain
27. Bansal P, Deka D, Dadhwal V. Mirror syndrome: A case report, 12th Congress of the European Society of Gynecology, 18-21 October 2017, Barcelona, Spain
28. Jacob OM, Kant S, Haldar P, Kaur R, Prakash S, Dadhwal V. Effect of intravenous iron sucrose administration on level of antioxidant stress markers among moderately anemic pregnant women attending a sub-district hospital, Haryana, IUNS ICN 2017, 15-20 October 2017, Buenos Aires
29. Jacob OM, Kant S, Haldar P, Kaur R, Prakash S, Dadhwal V. Effectiveness of intravenous iron sucrose in the treatment of moderate anaemia among pregnant women attending a sub district hospital in Haryana, North India, Leiden International (bio-)Medical Student Conference 2017, 15-19 March 2017, Leiden, Netherlands
30. Divya, Sharma KA, Dadhwal V, Deka D. Oral presentation—Use of Sotalol in fetal Supraventricular Tachycardia—A case report, Asia Pacific Conference on Maternal, Fetal Medicine (APCMFM 13), 2 September 2017, Gurgaon
31. Aashna, Agarwal N, Sharma KA, Dadhwal V, Deka D. Pregnancy outcome in patient with ebstein anomaly—Case presentation, Asia Pacific Conference on Maternal Fetal Medicine (APCMFM 13), 2 September 2017, Gurgaon
32. Sarkar P, Sharma KA, Deka D, Dadhwal V. Rare complication of Caesarean Section: Uterocutaneous Fistula, 39th Annual Conference Association of Obstetricians and Gynaecology (AOGD), 18 November 2017, India Habitat Centre, Delhi
33. Verma R, Sharma KA, Agarwal N, Deka D, Dadhwal V. E poster—Metoclopramide induced extrapyramidal side effects—A case report, 39th Annual Conference Association of Obstetricians and Gynaecology (AOGD), 19 November 2017, India Habitat Centre, Delhi

34. Kumari A, Dadhwal V, Deka D, Malhotra N, Agarwal N, Sharma KA. Poster—Kyphoscoliosis complicating pregnancy—A case report, 39th Annual Conference Association of Obstetricians and Gynaecology (AOGD), 18 and 19 November 2017, India Habitat Centre, Delhi
35. Kumari S, Deka D, Dadhwal V, Agarwal N, Sharma KA, Vanamail P. Correlation of doppler assessment of fetal blood flow in various blood vessels, with fetal Anaemia, in women with Rh isoimmunized pregnancies, 39th Annual Conference Association of Obstetricians and Gynaecology (AOGD), 18 and 19 November 2017, India Habitat Centre, Delhi
36. Deedwania P, Deka D, Mohanty S, Dadhwal, Sharma A. Isolation and characterization of mesenchymal stem cells derived from human amniotic fluid, 39th Annual Conference Association of Obstetricians and Gynaecology (AOGD), 18 and 19 November 2017, Habitat Centre, Delhi, India
37. Deedwania P, Dadhwal V, Kapil A, Deka D, Malhotra N, Sharma KA. Surgical Site Infection after Caesarean Section—Prevalence and risk factors, 39th Annual Conference Association of Obstetricians and Gynaecology (AOGD), 18 and 19 November 2017, Habitat Centre, Delhi, India
38. Deedwania P, Deka D, Mohanty S, Dadhwal V, Sharma A. Study of differentiation potential of mesenchymal stem cells derived from human amniotic fluid, 61st All India Congress of Obstetrics and Gynaecology (AICOG), 19-21 January 2018, Bhubaneswar, Orissa
39. Bansal P, Malhotra N, Dadhwal V, Deka D, Sharma A. The role of GnRH-analogues in improving outcome in women undergoing super-ovulation and intra uterine insemination after surgical correction of minimal to mild endometriosis: A Randomized Control Trial, Gynecological Endocrinology the 18 World Congress, 7-10 March 2018, Firenze, Italy
40. Sharma JB. A cross-sectional study of pre-operative and post-operative study of nutritional and tumor markers in women with sui, IUGA 42nd Global Annual Meeting, 20-24 June 2017, Canada
41. Singh N. Increased dose and duration of gonadotropin stimulation decreases clinical pregnancy rates in fresh IVF cycles, IX Ovarian Club Meeting, 14-16 September 2017, Barcelona, Spain
42. Sharma KA, Deka D, Dadhwal V, Agarwal N, Khoiwal K. Rh isoimmunization: The challenge continues, 39th Annual Conference of AOGD, 19 November 2017, New Delhi
43. Sharma KA, Dadhwal V, Deka D, Agarwal N, Bansal P. Maternal and perinatal outcomes of twin pregnancies in a tertiary care centre in North India, 13th Asia Pacific Congress of Maternal Fetal Medicine, 2 September 2017, Gurgaon
44. Sharma KA, Das D, Deka D, Dadhwal V, Agarwal N, Singhal S, Vanamail P. A prospective observational study comparing ultrasound prediction of birth weight using 2 Dimensional fetal biometry and 3 Dimensional Fractional Limb Volume, 61st AICOG, 2018, 21 January 2018, Bhubaneshwar
45. Mishra D, Sharma KA, Dadhwal V, Deka D, Agarwal N. Use of Sotalol in treatment of fetal supra-ventricular tachycardia: A case report, 13th Asia Pacific Congress of Maternal Fetal Medicine, Fetal Med 2017, 2 September 2017, Gurgaon
46. Dhawan A, Agarwal N, Sharma KA, Dadhwal V, Deka D. Pregnancy outcome in woman with Ebstein's anomaly, 13th Asia Pacific Congress of Maternal Fetal Medicine, Fetal Med 2017, 2 September 2017, Gurgaon
47. Nim I, Dadhwal V, Sharma KA, Agarwal N, Deka D. Successful management pregnancy induced bicytopenia: A case report, 39th Annual Conference of AOGD, 19 November 2018, New Delhi
48. Verma R, Sharma KA, Agarwal, Dadhwal V, Deka D. Metoclopramide induced extrapyramidal side effects, 39th Annual Conference of AOGD, 19 November 2018, New Delhi
49. Kumari A, Dadhwal V, Sharma KA, Deka D. Pregnancy outcome in a woman with severe kyphoscoliosis, 39th Annual Conference of AOGD, 19 November 2018, New Delhi
50. Deedwania P, Deka D, Dadhwal V, Sharma KA, Mohanty S. Characterization of mesenchymal stem cells derived from amniotic fluid, 39th Annual Conference of AOGD, 19 November 2018, New Delhi
51. Deedwania P, Deka D, Dadhwal V, Sharma KA, Mohanty S. Differentiation potential of mesenchymal stem cells derived from human amniotic fluid, 61st AICOG, 2018, 21 January 2018, Bhubaneshwar
52. Sharma KA, Sarkar S, Deka D, Dadhwal V, Agarwal N. Uterocutaneous fistula, 39th Annual Conference of AOGD, 17 November 2017, New Delhi
53. Kachhawa G, Raj P, Anita G, Jaryal AK, Kulshrestha V, Mahey R, Kriplani A. Correlation of sFlt1 and PlGF levels in early pregnancy with the development of preeclampsia: A prospective cohort study, The National Conference of FOGSI CNN, 23-25 June 2017, Pune (**Awarded best paper award for research presentation in senior category**)
54. Narang S, Kachhawa G, Kulshrestha V, Kriplani A, Shalimar, Kumari R. Intrahepatic cholestasis of pregnancy managed with rifampicin: A case report, 24th Annual Conference of NARCHI, 28-29 October 2017, New Delhi (**Best Paper**)

55. Singh A, Kachhawa G, Kulshrestha V, Seth D, Kriplani A, Agarwal N. Medicolegal awareness among reproductive age women attending obstetrics and gynaecology OPD in tertiary care hospital, 24th Annual Conference of NARCHI, 28-29 October 2017, New Delhi
56. Narang S, Kachhawa G, Kulshrestha V, Kriplani A. Low dose mifepristone in submucosal fibroid: A case report, 39th Annual Conference of AOGD, 18-19 November 2017, New Delhi
57. Singh A, Kachhawa G, Kulshrestha V, Kumari R, Kriplani A. Comparison of bone mineral density b/w normal weight and obese/overweight PCOS women and correlation with insulin resistance (Poster), 39th Annual Conference of AOGD, 18-19 November 2017, New Delhi
58. Singh A, Kachhawa G, Malik N, Kulshrestha V, Mahey R, Kumari R, Kriplani A. To analyze maternal and fetal outcome in pregnancy with chronic renal disease, YUVA FOGSI Conference East Zone, 24-26 November 2017, Guwahati
59. Kachhawa G, Kriplani A, Mahey R, Kulshrestha V, Kumari R, Jain N. To evaluate the efficacy of Cabergoline as compared to GnRH agonists in women with endometriosis: A Prospective Open Label Randomized Control Trial, 61st AICOG-2018, 17-21 January 2018, Bhubaneswar (**Awarded the CS Dawn best paper**)
60. Kachhawa G, Kriplani A, Mahey R, Kulshrestha V, Jaryal AK, Anita G, Pratima R. Evaluation of sFlt1 and PlGF during pregnancy and correlating with development of Preeclampsia, CORION, 17-21 January 2018, Bhubaneswar (**Awarded FOGSI-CORION AWARD (2nd runner up) for the year 2017, for the Best Scientific Work in Obstetrics and Gynecology in the senior category**)
61. Mahey R, Jain S, Kriplani A, Malhotra N, Singh N, Kalaivani M. Effect of intrauterine perfusion of G-CSF on clinical pregnancy rate in women undergoing in IVF/ICSI cycles: A Double Blind Randomised Controlled Trial, ISAR 2017, 21-23 April 2017, Gurgaon
62. Mahey R, Goel T, Kriplani A, Kachhawa A, Bhatla N, Kalaivani M. Pregnancy after endometrial scratching in infertile couples undergoing ovulation induction and intrauterine insemination cycles—A Randomised Controlled Trial, AOCOG conference 2017, 15-18 June 2017, Hong Kong (**One of three YOUNG GYNAECOLOGIST awardees from India**)
63. Mahey R, Agrawal A, Kriplani A, Kachhawa G, Perumal V. To compare the metabolic and hormonal effects of Metformin plus Myoinositol vs Metformin alone in PCOS women undergoing Ovulation induction + IUI cycles and infertility outcome: Randomized controlled double-blind study, FERTIVISION Conference 2017, 8-10 December 2017, New Delhi (**MANGLA TELANG Best research paper award**)
64. Gupta M, Mahey R, Kandpal S, Perumal V, Kriplani A. Fertility awareness and knowledge among infertile women attending ART clinic—An observational study (Co-author), FERTIVISION 2017, 8-10 December 2017, New Delhi (**Best paper award**)
65. Perumal V. Age and gender specific profile of breast cancer and risk score assessment among Indian population, East Asia Regional Conference of International Biometric Society, 16-17 February 2018, JIPMER, Puducherry
66. Kulshrestha V, Singh A, Harsh, Kachhawa G, Kumari R, Kriplani A. Use of 'Printed Investigation sheet' in admitted antenatal patients—A quality improvement initiative, Capacity Building Workshop on Leading and Facilitating Quality Improvement organized by AIIMS, Delhi in collaboration with USAID Institute for Healthcare Improvement (IHI), 24 May 2017, New Delhi
67. Kulshrestha V, Agarwal N, Kriplani A. Clitoroplasty in cases with virilization at puberty, 1st World Congress of Reconstructive and Cosmetic Gynaecology (RECOGYN 2017), Organized by Urogynaecology and Pelvic Health Association of India, 8 October 2017, Gurgaon
68. Kulshrestha V, Narang S, Kachhawa G, Kumari R, Shalimar, Kriplani A. Rifampicin as an adjunct to ursodeoxycholic acid for treatment of refractory intrahepatic cholestasis of pregnancy (Poster), 39th Annual Conference of AOGD, 19 November 2017, New Delhi
69. Singhal S, Kumar S, Meena J, Roy KK, Singh N, Bharti J, Sekhar B, Kumari S, Yadav A, Jayraj A. Outcome of pregnancy in women with auto immune disorders "When defender becomes the offender", 61st All India Congress of Obstetrics and Gynaecology, 21 January 2018, Bhubaneswar
70. Singhal S, Sharma KA, Bharti J, Meena J, Amrita, Kumar S, Kriplani A. Establishing hand hygiene practice amongst obstetricians before conducting emergency LSCS, ASSIST Final QI Meeting, 8 November 2017, Delhi
71. Singhal S, Sharma A, Bharti J, Meena J, Amrita, Kumar S, Kriplani A. Reduction in patient time to reach EXIT counter from Gynae OPD, ASSIST Final QI Meeting, 8 November 2017, Delhi
72. Singhal S, Kumar S, Meena J. Reduction in patient time to reach EXIT counter from Gynae OPD, Improvement Coach Professional Development Programme, 23 May 2017, Delhi
73. Padmashri P, Roy KK, Bhavana G, Darshna M, Anusha MSR, Singhal S. A rare case of Herlyn Werner Wunderlich syndrome requiring hemihysterectomy, RCOG World Congress 2018, 21-24 March 2018, Singapore

74. Kumari R, Swati, Sharma JB, Kriplani A. A cross sectional study of preoperative and postoperative nutritional and tumor markers in women with SUI, Recogyn 2017, 5-8 October 2017, Gurgaon
75. Agarwal A, Kumari R. Ovarian tumors: Case discussion and management issues, Symposium ovary—Unfolding the secrets in management on 24 September 2017 (Department of OBG, Gynae Endocrine Society of India under Aegis of AOGD), 24 September 2017, New Delhi
76. Shekhar B, Meena J, Kumar S, Roy KK, Singh N, Singhal S, Bharti J. Primary infertility: An unusual presentation of transverse vaginal septum, AOGD Annual Meeting, 28 July 2017, Delhi
77. Girish B, Roy KK, Kumar S, Singh N, Singhal S, Meena J. A comparative study of transverse uterine fundal incision versus classical uterine incision in women with placenta praevia with percreta undergoing peripartum hysterectomy, RCOG World Congress 2018, 21-24 March 2018, Singapore
78. Sehgal R, Kriplani A. Can blood group affect Fertility? 61st All India Congress of Obstetrics and Gynaecology, 21 January 2018, Bhubhneshwar
79. Kandpal S, Gupta M, Mahey R, Vanamail P, Malhotra N, Singh N, Kriplani A. Knowledge and awareness regarding fertility and reproductive factors, Their association with socio economic status among Indian women, 5th Annual Conference of All India Association of Medical Social Work Professionals, 24 and 25 March 2018, Chandigarh **(Best paper award)**

RESEARCH

Funded projects

Ongoing

1. Phase III clinical trial of SMB T Cu 380Ag in 3 Sizes/Models: Mini, Normal and Maxi, Alka Kriplani, SMB Corporation of India, Mumbai, 2 years, 2015-2017, Rs 5 lakhs
2. Respectful maternity care initiative—ICMR task force study in collaboration with Center for Catalyzing Change/ White Ribbon Alliance India (WRAI), Alka Kriplani, ICMR, 1 year, 2018-2019, Rs 0.25 lakh
3. Phase I-II Clinical Trial on safety, Immunogenicity and probing efficacy of the Revived Recombinant Vaccine against Human Chorionic Gonadotropin (hCG), Alka Kriplani, ICMR, 3.5 years, 2017-2021, Rs 26.48 lakhs
4. An open-label, Non-Comparative Phase-IV Study to Evaluate the Efficacy and Safety of Atosiban 7.5 mg/ml in Preterm Labor, Alka Kriplani, Zuventus Health Care, 2 years, 2017-2019, Rs 4.51 lakhs
5. Effectiveness and safety of 2 vs 3 doses of HPV vaccine in preventing cervical cancer: An Indian Multi-Centre Randomized Trial, Neerja Bhatla, WHO-IARC, 9 years, 2009-2018, Rs 151.36 lakhs
6. Evaluation of quantitative detection of HR-HPV oncogene over-expression as an emerging novel biomarker for cervical cancer screening, Neerja Bhatla, Cure Health Diagnostics, 4 years, 2014-2018, Rs 35 lakhs
7. The expression of Human Epididymis protein 4 (HE4) in ovarian carcinoma and correlation with prognosis, Neerja Bhatla, ICMR, 2 years, 2017-2019, Rs 3.19 lakhs
8. A side-by-side comparison of a transvaginal colposcope to standard of care visual inspection in a 100-patient pilot study on women undergoing cervical cancer screening, Neerja Bhatla, Duke University, 1 year, 2017-2018, Rs 5.26 lakhs
9. Rapid point of care detection of HPV—Associated malignancies, Neerja Bhatla, Arizona University, NCI, USA, 2 years, 2017-2019, Rs 28.29 lakhs
10. Age specific normograms of Anti-Mullerian Hormone (AMH) and Antral Follicle Counts in infertile and fertile Indian women, Neena Malhotra, RECPDCL, 2 years, 2016-2018, Rs 50 lakhs
11. Prevalence of Vitamin B12 deficiency among Indian women with Polycystic Ovary Syndrome (PCOS) and the Impact of Vitamin B12 Supplementation on the efficacy of conventional drugs in the management of women with PCOS, Vatsala Dadhwal, DBT, 3 years, 2015-2018, Rs 49.75 lakhs
12. Effects of Non-ionizing Electro Magnetic Field (EMF) on Human Health, JB Sharma, ICMR, 5 years, 2009-Till date, Rs 47 lakhs
13. To study the efficacy and safety of Diosmin (900 mg) given along with Traneximic acid (500 mg) and Mefenamic acid (250 mg) in reducing menstrual blood loss in patients of abnormal uterine bleeding, JB Sharma, Wallter Bushnel Pvt Ltd, 1.5 years, 2016-Till date, Rs 17 lakhs
14. Evaluation of Gene Xpert as compared to conventional methods in diagnosis of genital TB among infertile women, JB Sharma, Ministry of Health and Family Welfare (MOHFW), 3 years, 2016-Till date, Rs 28 lakhs
15. To evaluate the ROS levels in semen samples and effect of FERTISURE-M on ROS levels and IVF outcome in infertile men undergoing in vitro fertilization—A randomized double-blind placebo controlled study, Reeta Mahey, AIIMS, 2 years 2016-2018, Rs 9.4 lakhs

16. Role of genital Chlamydia trachomatis infection in infertile women, Vidushi Kulshrestha, AIIMS, 3 years, 2016-2019, Rs 8.5 lakhs
17. Assessment of disease severity in patients with epithelial ovarian cancer by EMT related protein expression and micro RNA 200 a, b, c, Seema Singhal, AIIMS, 2 years, 2015-2017, Rs 4 lakhs
18. Prevalence of cytological lesion and HPV type in vulval lesion on visual inspection and colposcopy, Rajesh Kumari, AIIMS, 2 years, 2016-2018, Rs 4 lakhs
19. Placental growth factor as a predictive and prognostic Marker for development of pre-eclampsia in high risk patients, Jyoti Meena, AIIMS, 2 years, 2015-2017, Rs 4 lakhs

Completed

1. A Randomized Double Blind Controlled Trial to investigate the effects of Vitamin D supplementation on maternal and new-born baby's Vitamin D status in Asian-Indian subjects, Garima Kachhawa, ICMR, 3 years, 2013-2017, Rs 45 lakhs
2. Evaluation of molecular markers (PCR, Immunohistochemistry) against conventional methods (histopathology, AFB staining and culture in endometrial samples) and laparoscopy in detection of genital tuberculosis in infertile women, Neena Malhotra, ICMR, 5 years, 2012-2017, Rs 108 lakhs
3. Effects of oral probiotic supplementation during pregnancy and lactation in modulating immune response in breast milk, fetus and neonate—A Randomized Double-Blind Placebo-Controlled Trial, Neena Malhotra, ICMR, 3 years, 2014-2017, Rs 33.86 lakhs

Departmental projects

Ongoing

1. To study the role of 3DUSC (three-dimensional ultrasonography) endometrial volume on day of hCG trigger and 7th day of embryo transfer in predicting pregnancy in IVF cycle
2. Incidence of pelvic and paraaortic lymph node metastasis in patients undergoing primary debulking for epithelial ovarian cancer
3. Prospective randomized comparative study using thunderbeat technology, harmonic ace and ligasure device during total laparoscopic hysterectomy for the treatment of benign diseases of the uterus-pilot study
4. Randomized controlled trial comparing follicular flushing and direct aspiration in poor responders in IVF
5. Comparing evaluation of HPV DA and HPV E6/E7 MRMA for the diagnosis of high grade cervical intraepithelial neoplasia
6. Correlation of doppler assessment of fetal flow in various blood vessels with fetal anaemia in women with Rh isoimmunised pregnancies
7. Effect of intrauterine perfusion of granulocyte colony stimulating factor on endometrial thickness
8. Implantation rate and pregnancy rate in women undergoing in vitro fertilization. A double blinded placebo controlled randomized controlled trial
9. A prospective study of aortic isthmus doppler changes in appropriately grown and small for gestational age fetuses and association with perinatal outcome
10. Comparison of the efficacy of 2.5 mg versus 5 mg ulipristal acetate in the treatment of symptomatic uterine fibroids
11. A study of the acceptability and feasibility of opportunistic cervical cancer screening in pregnancy by conventional pap smear and HPV DNA testing
12. A comparative study of prevalence of human papillomavirus infection and precancerous lesions of vulva and cervix in HIV positive and HIV negative women
13. A crossover randomized study of portable transvaginal colposcope and hand-held colposcope for evaluation of Cervical Intraepithelial Neoplasia
14. Evaluation of laparoscopic ovarian drilling by monopolar drilling needle versus harmonic scalpel in cases of clomiphene citrate resistant polycystic ovarian syndrome
15. Comparison of ovarian drilling by harmonic scalpel and letrozole in infertile women with polycystic ovarian syndrome: A pilot prospective randomized controlled trial
16. Prospective randomized comparative clinical trial of hysteroscopic septal resection using conventional resectoscope vs mini resectoscope
17. Assessment of tubal patency with selective chromo-perturbation at office hysteroscopy compared with modified mini laparoscopy in infertile women

18. Effect of administration of intravenous intralipid on implantation rate in women with implantation failure after IVF/ ICSI: A randomized control trial
19. To correlate serum MicroRNAs, MiR 20a and MiR 205 levels with clinico-pathologic characteristics in patients of epithelial ovarian cancer
20. A randomized controlled trial comparing follicular flushing and direct aspiration at oocyte retrieval in poor responders undergoing In-Vitro-Fertilization (IVF)
21. Effects of myoinositol in comparison to metformin on art outcome in women with Pcos undergoing In-Vitro Fertilization (IVF) cycles—A “non-inferiority” trial
22. A validation of Endometriosis Fertility Index (EFI) for non-art pregnancy in women with endometriosis associated infertility. A prospective study
23. To evaluate the changes in serum AMH levels in endometrioma patents receiving dienogest therapy in comparsion to endometriotic cystectomy
24. Randomised control trail comparing pregnancy outcome using Letrozole versus HRT for endometrial preparation during frozen embryo transfer cycles
25. Correlation of fetal soft tissue thickness measured sonographically with neonatal body composition
26. Association of maternal pre-pregnancy BMI, Gestational weight gain, Nutrition and metabolic markers with neonatal adiposity
27. Prediction of adverse perinatal outcome by cerebroplacental ratio in term pregnancy
28. A comparative study of solifenacin and tolterodene in the treatment of over active bladder syndrome (Guide)
29. A pilot study comparing 5 mm telescope and 2.9 mm telescope in chronic pelvic pain
30. Vit-D Level in patients with SUI and role of its supplementation
31. To study the role of 3D endometrial volume and 2D endometrial thickness in IVF patients
32. Prevalence and prognostic significance of Herzner in Ca Endometrium
33. Study of association between insulin sensitivity and cardio-vascular risk factors in lean versus overweight subjects with polycystic ovarian syndrome
34. To compare efficacy of Tolterodine and Solefanacin in patients with overactive bladder syndrome
35. Comparison of various modalities to diagnose occult stress urinary incontinence in pelvic organ prolapse
36. Role of Gene Xpert in diagnosis of female genital tuberculosis as compared to other conventional diagnostic techniques
37. To compare the effect of metformin plus myoinositol vs myo inositol alone in terms of clinical pregnancy rate in infertile PCOS women undergoing ovulation induction and IUI cycles
38. A comparative pilot study of autologous rectus fascia pubovaginal sling and transobturator vaginal tape procedure in women with stress urinary incontinence
39. To evaluate the efficacy of myoinositol in treatment of gestaional diabetes mellitus in Asian Indian women: A pilot study
40. A study on distribution of glucose tolerance among women with history of gestational diabetes mellitus by IADPSG criteria/overt diabetes in pregnancy and their spouses
41. A randomized control trial to assess the impact of relaxation technique on stress, anxiety and milk output among postpartum mother of hospitalized neonate in NICU
42. To compare the efficacy of ulipristal acetate versus GnRH agonist in women with symptomatic uterine myoma and post treatment follow up: A prospective randomized control study
43. To evaluate the association of FSH receptor gene polymorphisms with ovarian response in Indian women undergoing IVF/ICSI: A prospective study
44. Role of IOTA simple rules and 3D ultrasound in evaluation of adnexal masses
45. Placental growth factor, uterine artery doppler and 3D power doppler of placenta for prediction of pre-eclampsia in high risk pregnancies

Completed

1. Effect of administration of intravenous intralipid on implantation rate in women with implantation failure after IVF/ ICSI: A randomized control trial
2. Role of transdermal testosterone gel pretreatment in poor responders on IVF outcome—A prospective randomized controlled trial with active control

3. Molecular basis of cationic anti-microbial peptide on human placental cytotrophoblast cells
4. Luteal phase low molecular weight heparin in women with previous failed IVF bar ICSI cycle
5. Evaluation of serum HE-4 and CA-125 in women with carcinoma endometriosis
6. A prospective randomized comparative clinical trial of hysteroscopic adhesiolysis using conventional resectoscope versus mini resectoscope in patients of Asherman's Syndrome
7. Prospective randomized study of MTNILAPAR Oscopy (5 mm) s modiued minilaparo scopy (29) in TLiE management of chronic pelvic pain
8. Association of placental volume and vascularisation indices in first trimester with birth weight
9. A comparative study of the treatment of gestational diabetes mellitus by metformin vs insulin: A randomized control trial
10. Interventional study on the effect of antitubercular treatment on endometrium, fallopian tubes and ovaries in genital tuberculosis
11. Expression of biomarkers in endometrial hyperplasia and carcinoma
12. To Evaluate the role of endometrial scratching in the outcome of In Vitro Fertilization Cycles (IVF-ET)
13. Evaluation of enterleukin-6 and VEGF levels in ascitic fluid of patients with epithelial ovarian cancer
14. Assessment of lower segment cesarean scar by transvaginal ultrasound and MRI
15. Prospective randomized comparative study of hysteroscopic myomectomy using unipolar system and bipolar system
16. Role of MRI in evaluation of vault prolapse and its relationships with POPQ classification and operative finding
17. Vitamin D level in women with stress urinary incontinence and effect of vitamin D supplementation
18. A comparative study of burchcolposuspension and transobturator vaginal tape procedure in women with stress urinary incontinence
19. To compare the efficacy, Safety and cost effectivity of intravenous ferric carboxymaltose vs iron sucrose complex in the management of anaemia in pregnancy
20. To compare the hormonal and metabolic outcomes in metformin plus myoinositol vs metformin alone and fertility outcome in PCOS women undergoing OVI and IUI
21. To evaluate the efficacy of cabergoline as compared to GnRH agonist in women with endometriosis: A prospective randomised controlled trial

Collaborative projects

Ongoing

1. Evaluation of gene Xpert as compared to conventional methods in diagnosis of genital TB among infertile women, Ministry of Health and Family Welfare
2. Endometrial neurotrophic factors and nerve fibres in edometriosis associated pain, ICMR
3. Exploring the role of proteomic signature in saliva: Step towards non-invasive diagnostic tool for ovarian cancer, ICMR
4. Inter institutional program for maternal, neonatal and infant sciences—A translational approach to studying preterm birth, Pediatrics
5. A population based prospective cohort study to unravel the causes of stroke and cognitive decline: A cross cultural perspective (Indo-Netherlands Project), Neurology
6. A lifestyle intervention program for the prevention of type 2 diabetes mellitus among South Asian women with gestational diabetes mellitus. India, Bangladesh, Sri Lanka, Endocrinology and Metabolism
7. To develop a strategy for postpartum, follow up of woman with history of gestational diabetes mellitus by using the right test and frequency of testing and developing patient centric approach after incorporating their views, Endocrinology and Metabolism
8. Magnetic nanoparticles and quantum dots coupled visual confirmation of cervical cancer cells from cytology sample: A cost effect, quick and suitable test for rural Indian setup, Anatomy
9. Effectiveness of intravenous iron sucrose in the treatment of moderate anemia among pregnant women attending subdistrict hospital in Haryana, North India, Community Medicine
10. Etiological evaluation of Nonimmune Hydrops Fetalis (NIHF), Pediatrics
11. Body composition of healthy term neonates at birth by air displacement plethysmography, Pediatrics
12. Role of intervention radiology in obstetric related haemorrhage, Radiodiagnosis

13. Metabolic abnormalities and sleep disorders in PCOS, Medicine
14. SOPs to study Very Small Embryonic-Like Stem Cells (VSELs) in various adult tissues, Stem Cell Facility
15. ICD-11 categories on female sexual disorders: Evaluation of validity, reliability and utility of ICD-11 proposed diagnostic guidelines among Indian women, Psychiatry
16. Hypoxia Adaptation and Pregnancy Outcome Study (HAPS): An investigation of the influence of hypoxia on birth weight, Pediatrics
17. Role of mesenchymal stem cells in animal models of hypoxia induced brain injury: Implications for translation: HIBI initiative, Stem Cell Facility
18. Molecular basis of Estrogenism in Endometriosis, Physiology
19. Study of genome-wide transcriptional landscape of ovarian endometriosis, Physiology
20. Etiopathology of hyperprolactinemia/macroprolactinemia, Reproductive Biology
21. Genetic determinant of premature ovarian failure, Reproductive Biology
22. Biomarkers of polycystic ovarian syndrome, Reproductive Biology
23. Study of bone mass in Asian Indian Newborn Subjects—A hospital-based study, Endocrinology and Metabolism
24. Metabolomics approach for identification of differentially regulated metabolites and pathway in Preeclampsia/ Gestational Hypertension and Gestational diabetes patients during pregnancy to assess the risks of pre-term delivery, International Centre for Genetic Engineering and Biotechnology (ICGEB)
25. Phase I-II clinical trial on safety, immunogenicity and probing efficacy of the revised recombinant vaccine against human Chorionic Gonadotropin (hCG), ICMR
26. An open-label, Non-comparative Phase-IV study to evaluate the efficacy and safety of Atosiban 7.5 mg/ml in Preterm Labor, Zuentus Health Care
27. A randomized, multicentre, parallel-group, assessor-blind Phase III study to compare the efficacy and safety of Foligraf™ and Gonal-F in subjects undergoing controlled ovarian stimulation for ART, Bharat Serum and Vaccines (Multicentric project)
28. Anti-mullerian hormone levels in Indian women, Setting the nomograms, Biochemistry

Completed

1. Diabetes in Pregnancy, ICMR
2. CORONIS—International study of caesarean section surgical technique—A randomized control trial, Oxford University, London
3. Role of sub antologous stem cell implantation in women with Asherman Syndrome, ICMR
4. A pilot study: Role of subendometrial transplantation of autologous stem cell in women with asherman syndrome and poor endometrium, ICMR
5. A study on treatment of genital tuberculosis: A randomized controlled trial of either discontinuation at 6 months or continuation at 9 months after initial response to 6 months RNTCP Category I Treatment, Central TB Division, MOHFW
6. Randomized open level comparative study of safety and efficiency of metformin and subcutaneous insulin in Asian Indian women with gestational diabetes, ICMR
7. Efficacy and safety of fixed dose combination of Drotaverine Hydrochloride (80 mg) and Mefenamic Acid (250 mg) vs Mefenamic Acid (250 mg) alone in the treatment of Primary Dysmenorrhoea: Double blind randomized comparative study, Walter and Bushnell
8. Effects of non-ionizing Electro Magnetic Field (EMF) on Human Health, ICMR
9. Study of bone mass in Asian Indian Newborn Subjects—A hospital-based study, Endocrinology and Metabolism
10. Metabolomics approach for identification of differentially regulated metabolites and pathway in Preeclampsia/ Gestational Hypertension and Gestational diabetes patients during pregnancy to assess the risks of pre-term delivery, International Centre for Genetic Engineering and Biotechnology (ICGEB)
11. Randomised controlled trial of uterine artery embolization vs Abdominal hysterectomy for symptomatic uterine fibroids in patients who have completed their family, Radiodiagnosis

PUBLICATIONS

Journals: 59

Abstracts: 5

Chapters in Books: 16

Books: 2

PATIENT CARE

Table I. Distribution of Patients' Attendance by Type of Clinics

Clinics	Number of Days/Week	New Patients	Old Patients
General OPD	6	41,995	1,10,009
High risk pregnancy	3	2172	11,526
Gynae endocrine	3	13	124
Gynaecological cancer	2	934	3596
IVF	1	1091	4655
ANC	3	894	4247
URO Gynae	1	20	385
Family welfare	6	4605	3937

Table II. Maternal Health Performance

Type of Services	Number of Pregnant Women
TT 1st dose	1361
TT 2nd dose	1223
No. of pregnant women given IFA tablets	2586
No. of pregnant women detected with hypertension (BP > 140/90) and managed	276
No. of Eclampsia cases managed	38
No. of pregnant women tested for haemoglobin	2507
No. of pregnant women treated with haemoglobin <11 g/dl	252
No. of pregnant women treated with haemoglobin <7 g/dl	60
No. of pregnant women treated for tested for OGTT	2443
No. of pregnant women treated for GDM	452
No. of pregnant women given insulin out of GDM positives	150
No. of pregnant women tested using POC test for syphilis	2443

Table III. List of Minor and Major Surgeries Performed During 2017-2018

Surgery	Unit 1	Unit 2	Unit 3	Total
<i>Fetal Medicine</i>				
Amnio reduction	2	0	15	17
Amniocentesis	62	54	131	247
Amnioinfusion	0	0	1	1
Cardio Centesis	1	0	2	3
Cephalocentesis	0	0	1	1
Cordo Centesis	9	2	24	35
Chorionic Villus Sampling	51	60	132	243
Exit	0	0	1	1
Fetal Ascitic Tapping	0	0	4	4
Intra Amniotic Prostaglandin Instillation	12	9	2	23
Intrauterine Transfusion	14	3	132	149
Pleural Fluid Aspiration	0	0	1	1
Radio Frequency Ablation	0	0	4	4
Selective Fetal Reduction	0	0	21	21
Shunt Insertion	0	0	1	1
Vesicocentesis	0	0	3	3
Grand Total	151	128	475	754

Surgery	Unit 1	Unit 2	Unit 3	Total
<i>Minimally invasive surgeries</i>				
Laparoscopy for infertility (diagnostic)	292	478	200	970
Laparoscopy for infertility (operative)	37	14	33	84
Laparoscopic cystectomy	50	87	36	173
Laparoscopic ovariectomy	11	9	4	24
Laparoscopic salpingectomy/clipping	46	42	60	148
B/L laparoscopic salpingoophorectomy (risk reducing)	3	0	1	4
U/L laparoscopic salpingoophorectomy	0	1	0	1
Laparoscopic ovarian drilling	10	7	0	17
Laparoscopic tubal recanalisation	3	0	1	4
Laparoscopic abdominal cerclage	2	0	1	3
Laparoscopic bursch colposuspension	6	0	0	6
Lap VVF repair + cystoscopy	3	0	0	3
Laparoscopic Davydov vaginoplasty	8	0	0	8
Laparoscopic gonadectomy	4	1	6	11
Laparoscopic luna		1		1
Laparoscopic myomectomy	29	41	20	90
Laparoscopic adenomyomectomy	5	5	0	10
Laparoscopic rudimentary horn excision	8	8	2	18
Laparoscopic sacrohysteropexy/sacrocolpopexy	6	0	0	6
Laparoscopic scar ectopic excision	2	0	0	2
Laparoscopic uterosacral plication + cystocele repair	1	0	0	1
Laparoscopy + hysteroscopy + cut removal	1	0	1	2
Laparoscopy assisted vaginoscopic septal resection	5	0	0	5
Tlh ± salpingectomy	63	50	12	125
Tlh ± u/l or b/l salpingo-oophorectomy	50	9	7	66
Laparoscopic assisted vaginal hysterectomy	0	1	0	1
Micro laparoscopic hysterectomy + bso	1	0	0	1
Laparoscopic radical hysterectomy (type-c) + bso + b/l pelvic lymphadenectomy	21	0	0	21
Laparoscopic extrafascial hysterectomy + bso + b/l pelvic lymphadenectomy	11	0	0	11
Laparoscopic (r) hemihysterectomy		1		1
Diagnostic hysteroscopy	304	554	399	1257
Hysteroscopic adhesiolysis	12	12	10	34
Hysteroscopic IUCD removal	8	8	8	24
Hysteroscopic myomectomy	5	7	8	20
Hysteroscopic polypectomy	22	27	32	81
Hysteroscopic septal resection	26	19	10	55
Transurethral resection of bladder endometrioma	0	0	1	1
Grand Total	1035	1382	852	3289
<i>Robotic Surgeries</i>				
Hysterectomy	2	0	0	2
Hysterectomy +USO/BSO	7	0	0	7
Myomectomy	3	0	0	3
Grand Total	12	0	0	12

Surgery	Unit 1	Unit 2	Unit 3	Total
<i>Open Abdomen Surgeries</i>				
TAH ± salpingectomy	39	45	39	123
TAH ± U/L/B/L salpingoophrectomy	29	55	19	103
Peripartum Hysterectomy	4	2	2	8
Radical Hysterectomy	9	35	3	47
Myomectomy	27	13	19	59
Adenomyomectomy	4	1	1	6
Caesarean Myomectomy	14	0	1	15
Cystectomy/Ovariectomy U/L or B/L Salpingoophrectomy	17	8	11	36
Minilap Ligation	1	0	0	1
Neosalpingostomy	2	0	0	2
Recanalisation	5	3	2	10
Hysterotomy	1	1	0	2
Laparotomy + B/L Rudimentary Horn Excision + Ovarian Cystectomy + To Mass Excision	1	0	0	1
Laparotomy + Cerclage	0	0	1	1
Laparotomy For Ectopic	9	4	6	19
Laparotomy + Peritoneal Wash Cytology + Myomectomy + Right Oophorectomy (For Diffuse Peritoneal Leiomyomatosis)	1	0	0	1
Laparotomy + Peritoneal Wash Cytology + To Mass Drainage	0	0	1	1
Abdominal Sacrocolpopexy	1	3	1	5
Metroplasty	1	0	1	2
Utero-cutaneous fistula excision	0	0	1	1
Burch colposuspension	6	0	0	6
Exploratory laparotomy + Bowel resection anastomosis with bladder injury repair	0	0	1	1
Staging laparotomy for CA ovary	9	7	14	30
Debulking surgery for CA ovary	33	56	20	109
Extrafascial hysterectomy + BSO + B/L Lymphadenectomy	8	29	14	51
Grand Total	221	262	157	640
<i>Vaginal Surgeries</i>				
Radical Vulvectomy + B/L Inguino Femoral Lymph Node Dissection	9	2	0	11
Simple Vulvectomy	0	1	0	1
Vaginal Hysterectomy + Pfr	43	24	34	101
Clitoroplasty	2	0	0	2
Hymenoplasty	0	0	2	2
Cystocele Repair	1	0	0	1
Rectocele Repair	0	0	3	3
Fothergill Operation	3	5	1	9
Manual Removal Of Placenta	2	0	1	3
Rectovaginal Fistula Repair	2	0	0	2
Vesicovaginal Fistula Repair	4	0	3	7
Sacrospinous Fixation	6	0	0	6
TVT-O	17	2	1	20
Vaginal Cyst Excision	3	3	1	7

Surgery	Unit 1	Unit 2	Unit 3	Total
Vulval Mass Excision	1			1
Labial Mass Excision	1	0	0	1
Labial Separation	3	0	0	3
Perineal Cyst Excision + Vaginoplasty + Rt Labioplasty	0	0	0	0
Sinus Excision	0	1	0	1
Grand Total	97	38	46	181
Other Surgeries				
3 Swab Test	2	0	1	3
Bartholin Cyst Excision	8	9	8	25
Cervical Polypectomy	3	1	1	5
Conization	2	1		3
CPT Repair	0	1	0	1
Cyst Aspiration	19	24	23	66
EA + ECC + PAP Smear	39	61	19	119
EA + ECC + Polypectomy	15	19	14	48
Examination Under Anaesthesia	2	11	4	17
Excision Of Scar Endometrioma	2	0	2	4
Granulation Tissue Removal	1			1
Labial Cyst Excision	3	0	4	7
Leep	7	4	4	15
Malecots Change	1	2	2	5
Mesh Removal	1	0	0	1
Mould Change	9	6	14	29
Pyometra Drainage	3	13	7	23
Resuturing	16	9	13	38
Transverse Vaginal Septum Excision	2	1	3	6
Biopsies (Cervical/Vaginal/Vault/Vulval)	18	13	14	45
Ovarian Cyst Aspiration	22	19	16	57
Mirena Insertion	13	24	28	65
Grand Total	188	218	177	583

Table IV. Procedures Done in the OPD

Minor			
EA and ECC:	1613	D&C:	31
IUI:	662	Iron therapy:	445
NST:	5343	Mirena:	62
EA:	2830	Colposcopy/Cryo/LEEP:	595
MTP:	677	PAP smear:	5806
MOCK ET:	1	Cervical biopsies:	68
Obstetric ultrasound:	7725	Gynae Ultrasound:	13156
F-form USG:	5981		

Table V. Delivery and others details

Major (LSCS):	1242		
Minor:			
Operative vaginal deliveries (Forceps):	108	Normal vaginal deliveries:	1093

ART Centre			
Intra-Uterine Insemination (IUI):	259	Ovum Pick Up (OPU):	417
Embryo Transfer (ET):	360	Frozen Embryo Transfer (FET):	98
Surgical sperm retrieval:	8	Others (CA, fetal reduction):	24
Total:	1166		

POST PARTUM PROGRAMME

Table VI. Achievements of Different Family Planning Methods, Post Partum Programme

Methods	Previous Year (2016-2017)	Current Year (2017-2018)
Cu.T	950	1012
MPA Injection 1st dose	0	57
MPA Injection 2nd dose	0	1
MPA Injection 3rd dose	0	1
Oral pills	612 packets	698 packets
Conventional contraceptives	77,130 pieces	75,350 pieces
Tubectomy	802	648

Colposcopy: 655

Cryotherapy: 30

Community services/camps

Professor Dipika Deka appeared on Doordarshan for Live Health Show titled “Total Health” on 7 (Sunday) May 2017 at 8.30 am to 9.30 am; Doordarshan for Live Health Show titled “Total Health” on 11 (Sunday) February 2018 at 8.30 am to 9.30 am.

Professor Neerja Bhatla

Cervical Cancer Camps

1. Organized AOGIN—India 2nd Cervical Cancer Screening Camp at Garib Nawaz Colony, New Seelam Pur, Delhi with CanSupport, 22 May 2017
2. Organized AOGIN—India 3rd Cervical Cancer Screening Camp at Kanak Durga, R.K. Puram, Delhi with CanSupport, 14 July 2017
3. Organized AOGIN—India 4th Cervical Cancer Screening Camp at Chakkarapur, Gurgaon, with the support of Kalyanmayee and Airport Authority of India, New Delhi, 16 December 2017. In one day, 100 women have been screened with VIA and Pap smear
4. Organized AOGIN—India 5th Cervical Cancer Screening Camp at Kapashera, with the support of Kalyanmayee and Airport Authority of India, New Delhi, 20 January 2018
5. Organized AOGIN—India 6th Cervical Cancer Screening Camp at Kapashera, with the support of Kalyanmayee and Airport Authority of India, New Delhi, 10 February 2018

Public Lectures

1. **Cervical cancer prevention: Time for new paradigm.** Public lecture organized by NITI Aayog, Patel Chowk, New Delhi, 9 June 2017
2. Talk on **Gynaecological cancer.** Program conducted by Lok Sabha TV Channel, New Delhi, 16 March 2018

Professor Vatsla Dadhwal Doordarshan for live programme on “Importance of Iodized salt during pregnancy” on 31 July 2017 at 6:30 pm to 7:00 pm; Doordarshan for live programme “Doctor On-line” (Live Phone-in) on “Sexual Reproductive Health Awareness Day” on 12 February 2018 (Monday) at 6:30 pm to 7:00 pm.

Dr Garimma Kachhawa is successfully running the special Gynae Endo Clinic in the department of Obstetrics and Gynaecology where patients are treated in a multidisciplinary manner; Participated in medical camp to attend to serious and chronic patients at Kargil and Ladak from 2-8 July 2017.

Dr Vidushi Kulshrestha is successfully running the special Gynae Endo Clinic in the Department of Obstetrics and Gynaecology where patients are treated in a multidisciplinary manner.

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor Alka Kriplani awarded Times Healthcare Achievers Award in legend category in Obstetrics and Gynaecology, Delhi NCR 2017, Organized by Times of India (TOI), Delhi, 20 August 2017; Awarded for Excellence in Minimally Invasive Gynaecology at IOG (Indian Obstetrics and Gynaecology) Dr Satya Paul Awards Function 2017, Organized by Apeejay Satya and Svrn Group, Delhi, 22 October 2017; Oration on Recurrent Pregnancy Loss—Evidence based management at 17th Annual Conference of the NOIDA Obstetrics and Gynaecology Society, NOIDA Obstetrics and Gynaecological Society (NOGS), NOIDA, 30 July 2017; Dr Usha Sharma Oration on Congenital Malformations of Genital Tract—Diagnosis to Intervention at 29th Annual Conference of UP Chapter of Obstetrics and Gynaecology (UPCOG 2017), LLRM Medical College and Obstetrical and Gynaecological Society of Meerut (OGSM), Meerut, 14 October 2017; Professor R.K. Das Memorial Oration on Congenital Malformation of Genital Tract—Diagnosis to intervention at 28th North East Obstetrics and Gynaecological Societies Conference (NEOGSCON 2017), Organized by Dibrugarh Obstetrics and Gynaecological Society, Assam, Shivasagar, 16 December 2017; FOGSI Rallis Oration on Evolution and Advancements in Minimally Invasive Gynaecology at 61st All India Congress of Obstetrics and Gynaecology (AICOG) 2018, Federation of Obstetrics and Gynaecological Societies of India (FOGSI), Hosts: Association of Obstetricians and Gynaecologists of Odisha (AOGO), Bhubaneswar, 20 January 2018; 1st prize for paper presentation, at FOGSI-CNN Congress, FOGSI and Pune Obstetrics and Gynaecological Society (POGS), Pune (Dr Garima Kachhawa); 1st prize for paper presentation, NARCHI 2017, Delhi (Dr Shinjini Narang); Awarded Dr Neelam Bala Vaid Gold Medal Award, AOGD 2017, Delhi (Dr Bhawna Girish); 2nd prize for paper presentation, Conference on Tuber Pathologies and Infertility Surgeries, Organized by International Society of Reproductive Surgeries (ISRS), Southampton, UK (Dr Tuhina Goel); 1st prize for paper presentation, 13th Annual Conference Fertilisation 2017, Indian Fertility Society (IFS), Delhi (Dr Reeta Mahey); 1st prize for paper presentation, 13th Annual Conference Fertilisation 2017, Indian Fertility Society (IFS), Delhi (Dr Monica Gupta); FOGSI Corion Award in senior category, 61st All India Congress of Obstetrics and Gynaecology (AICOG) 2018, Organized by FOGSI, and Association of Obstetricians and Gynaecologists of Odisha (AOGO), Bhubaneswar (Dr Garima Kachhawa); CS Dawn Award, 61st All India Congress of Obstetrics and Gynaecology (AICOG) 2018, Organized by FOGSI and AOGO, Bhubaneswar (Dr Garima Kachhawa); Chief Guest at Live operative Workshop on Gynaecological Endoscopic Surgery, Association of Gynaec Endoscopic Surgeons of Rajasthan (AGESR) and Mahatma Gandhi Medical College, Hospital and MG University, Jaipur, 14 April 2017.

Professor Sunesh Kumar was peer reviewer for European Journal of Obstetrics, Gynaecology and Reproductive Medicine; Member, Interview board for post of Medical Officer, Union Public Selection Commission (UPSC), New Delhi; Member, Selection Committee for Selection of Faculty in Gynae at PGI, Chandigarh; Member, Selection Committee for the Selection of Faculty in Gynae at PGIMER, Rohtak; Member, ICMR Group on Research in Reproductive Medicine; Member, ICMR Research Advisory Committee for Model Rural Health Research Unit (MRHRU), Rajasthan; Member, Bureau of Indian Standard, Ministry of Consumer Affairs, Food and Public Distribution, Government of India; Member, DBT Sub-Group Committee for Finalizing the REACH Scheme for Biotechnology based Programme for Women; Member, Technical Specification/Selection Committee at AIIMS, New Delhi; Member, Staff Council Committee at AIIMS, New Delhi; Member, Ethics Committee, AIIMS, New Delhi; Member, Subcommittee on Cancer Cervix, Indian Council of Medical Research, New Delhi.

Professor Dipika Deka participated at the Technical Committee for Formulating Guidelines for MTP Board for late term abortions on 18 December 2017 at DGHS Conference Room, Nirman Bhawan at 2 pm; Examiner/Official assignments; External Subject Expert for Faculty Assessment Promotion Scheme (APS) selection of Faculty at Department of Obstetrics and Gynaecology at All India Institute of Medical Sciences, Bhopal (M.P.), 18 September 2017; External Expert, Faculty Selection, JIPMER, Department of Obstetrics and Gynaecology on 23 October, 2.30 pm in Administrative Block, Pondicherry; External Examiner for final examination of Post Doctoral Certificate Course (PDCC) in Maternal and Fetal Medicine on 20 December 2017 at SGPGI, Lucknow; Chair Session “Case based discussions”, 3rd Maternal Fetal Medicine Workshop and AOGD Fetal Medicine Sub-Committee, The theme of the workshop is “Essentials of Fetal medicine—Clinical Approach”, 10 February 2018, New Delhi.

Professor Neerja Bhatla was Chairperson, Gynecologic Oncology Committee, FIGO, 2015-2018; Council Member, Asian Society of Gynecologic Oncology (ASGO), 2017-2019; Member of the Advisory Committee for XXIIInd FIGO World Congress in Rio de Janeiro in 2018, Scientific Track Gynecological Oncology 2017-2018; Secretary-General, International Federation of Cervical Pathology and Colposcopy (IFCPC) 2017-2020; President-Elect, Association of Obstetricians and Gynaecologists of Delhi (AOGD); Member of Committee to Frame the Outlines/Framework/Protocol of a National Wide Screening Programme for Common Cancer viz Breast, Oral and Cervical Cancer, Ministry of Health and Family Welfare; Member of NTAGI Standing Technical Sub-Committee for inclusion of HPV vaccine in National Immunization Program; Co-opted member for HPV Vaccination Programme by State Technical Advisory Group on Immunization (STAGI)—Delhi, Ordered issued by Directorate of Family Welfare (Government of NCT of Delhi); Member, Constitution of Technical Expert Committee for National Programme for Prevention and Control of Cancer, Diabetes, Cardiovascular Disease and Stroke (NPCDCS), conducted by Ministry of Health and Family

Welfare; Member of the Scientific Advisory Committee for review and monitoring of qHPV vaccine Phase II/III clinical trial activities in India, Program Management Unit at BIRAC (PMU-BIRAC); Member of the International Advisory Board of GLSE trial under the recommendation of DSMB, Conducted by Dr Ramesh Agarwal, PI and Professor of Paediatrics, AIIMS; Established new subspecialty of MCh in Gynaecological Oncology at AIIMS; FIGO Smartphone Application for Management of Gynae Cancers. This application is available as a free download and can be used offline to inform the staging and guide resource-based management of all types of Gynae cancer cases; FOGSI Workshops Series on Cervical Cancer Prevention—"Pratishruti". Workshops conducted in all regions countrywide based on standard course content developed by master trainers, 2017; Thermal coagulation, a new method of outpatient treatment of cervical precancerous lesions, was introduced in the department; involved in development of FOGSI Good Clinical Practice Recommendation for Screening and Management of Cervical Pre-invasive Lesions and HPV Vaccination. These guidelines have been developed for the first time for the Indian scenario and are also resource based, 2018; New FOGSI GCPR on "Screening and Management of Pre-invasive Lesions of Cervix and HPV Vaccination" along with Tips and Tricks on Onco Fertility, 2018; Evaluation of an HPV Antibody Biomarker based on Multimodal Spectroscopy Platform for Cervical Cancer Screening: A pilot study: Collaborative research with University of Michigan, USA; A side-by-side comparison of a transvaginal colposcope to standard of care visual inspection in a 100-patient pilot study on women undergoing cervical cancer screening: Collaborative research with Duke University, North Carolina, USA; Invited as clinical co-chair of every woman study by Board of the World Ovarian Cancer Coalition Study Advisory Panel. This will be a seminal piece of work for the coalition, underpinning the creation of a Global Ovarian Cancer Charter.

Professor K.K. Roy was organizing secretary in Women's Health Initiative Training Course in Minimally Invasive Gynaecology held in the department on the following dates: (i) 1-6 May 2017; (ii) 29 January-3 February 2018; (iii) 5-10 March 2018.

Professor Neena Malhotra delivered Professor Ratnabai Morey Oration by Karnataka State Obstetrics and Gynecology Society; Overseas fund (2017-2018) by Royal College of Obstetricians and Gynecologists (RCOG), London.

Professor Vatsla Dadhwal attended meeting of Pulse Coordination Committee for Students' Union Activities and Pulse-2017 on 15 June 2017 (Thursday) at 12:00 pm in Dean Committee Room, AIIMS; Medical board constituted at AIIMS to give specific opinion about any lapses in treatment of deceased Smt. Shelly W/o Sonu vide NHRC Case No. 2839/7/19/2011/1652 on 31 July 2017 (Monday) at 3:30 pm in Seminar Room, M.S. Office Wing, Ground Floor, AIIMS, New Delhi; National AEFI Committee on 29 November 2017 (Wednesday) at New Delhi from 10:30 am-4:30 pm in Hotel Taj Vivanta, Delhi; External Examiner for FCPS Part-II Examination in July Session, 2017 of Bangladesh College of Physicians and Surgeons (BCPS) in Obstetrics and Gynaecology on 22-26 July 2017.

Professor J.B. Sharma was examiner, MRCOG Part I-II, 4-5 September 2017 at Apollo Hospital, New Delhi.

Dr Garima Kachhawa was awarded best paper award for research presentation in senior category on "Correlation of sFlt1 and PIGF levels in early pregnancy with the Development of Preeclampsia: A Prospective Cohort Study" at FOGSI CNN by the Federation of Obstetrics and Gynaecological Society of India and the Pune Obstetrics and Gynaecological Society held from 23-25 June 2017 at JW Marriot, Pune. (Paper Presentation); As co Author Awarded for, "Serve Intra-hepatic cholestasis of pregnancy managed with rifampicin: A Case Report" (Shinjini, Alka Kriplani, Garima Kachhawa, Shalimar, Vidushi Kulshrestha, Rajesh Kumari) at the 24th Annual Conference of NARCHI organized by National Association for Reproductive and Child Health of India (NARCHI) at Lady Harding Medical College, New Delhi from 28-29 October 2017 (Poster Presentation); Awarded the CS Dawn best paper on "To evaluate the efficacy of Cabergoline as compared to GnRH Agonists in women with Endometriosis: A Prospective Open Label Randomized Control Trial" at 61st AICOG-2018 All India Congress of Obstetrics and Gynaecology (AICOG) of the FOGSI by the Association of Obstetricians and Gynaecologists of Orissa, Cuttack Society held from 17-21 January 2018 at Bhubaneswar on 17-21 January 2018 (Paper Presentation); Awarded FOGSI-CORION Award (2nd runner up) for the year 2017, for the Best Scientific Work in Obstetrics and Gynaecology in the senior category on "Evaluation of sFlt1 and PIGF during pregnancy and correlating with development of Preeclampsia", at 61st AICOG, Organized by FOGSI, Bhubaneswar, 17-21 January 2018; Project Secretary - Post Partum Programme w.e.f 1 February 2018 for a period of two years; Organized WHI Training Course in Minimally Invasive Gynaecology, Organized by Department of Obstetrics and Gynaecology, AIIMS; Treasurer Women Health Initiative (WHI), 28th Training Course in Minimally Invasive Gynaecology, Organized by Department of Obstetrics and Gynaecology, AIIMS, New Delhi, 1-6 May 2017; Treasurer Women Health Initiative (WHI), 29th Training Course in Minimally Invasive Gynaecology, Organized by Department of Obstetrics and Gynaecology, AIIMS, New Delhi, 29 January 2017-3 February 2018; Treasurer - Women Health Initiative (WHI), 30th Training Course in Minimally Invasive Gynaecology, Organized by Department of Obstetrics and Gynaecology, AIIMS, New Delhi, 5-10 February 2018; Treasurer - Women Health Initiative (WHI), 31st Training Course in Minimally Invasive Gynaecology, Organized by Department of Obstetrics and Gynaecology, AIIMS, New Delhi, 10 March 2018.

Dr Reeta Mahey received Young Gynaecologist Award (YGA) (One among three selected from India) for the research work pregnancy after endometrial scratching in infertile couples undergoing ovulation induction and intrauterine insemination cycles—A randomised controlled trial. Award received at 25th ACOG Conference held at Hong Kong (15-18 June 2017); MANGLA TELANG Best research paper award of the conference. Presented at FERTIVISION 2017; Best paper award (as co-author)—Presented by DM reproductive medicine candidate. Presented at FERTIVISION 2017.

Dr P. Vanamail for the supervision of family planning services, AIIMS was awarded for the “Best Post Abortion Family Planning Services” by Directorate of Family Welfare, Government of NCT, New Delhi; Best paper award (as co-author) presented by MSSO; PhD evaluation from Madras University, Tamil Nadu in the discipline of epidemiology; PhD candidate in the nursing discipline submitted his thesis under my co-guideship; Member of ICMR Taskforce Study, Estimating the burden of Pediatric HIV in a “A” category district; Papers reviewed during 2017-2018: IJMR 10; Journal of Obstetrics and Gynaecology 1; Clinical and Investigative Medicine 1; Journal of Geriatric 1; PLOS One 1; Tropical Medicine and Health 1.

Dr Vidurshi Kulshrestha was awarded best paper award as co-author for research presentation in senior category on “Correlation of sFlt1 and PlGF levels in early pregnancy with the Development of Preeclampsia: A Prospective Cohort Study” at FOGSI CNN by the Federation of Obstetrics and Gynaecological Society of India and the Pune Obstetrics and Gynaecological Society held from 23-25 June 2017 at JW Marriot, Pune (Paper Presentation); First prize for best poster co author awarded for, “Serve Intrahepatic cholestasis of pregnancy managed with rifampicin: A Case Report” (Shinjini, Alka Kriplani, Garima Kachhawa, Shalimar, Vidushi Kulshrestha, Rajesh Kumari) at the 24th Annual Conference of NARCHI organized by National Association for Reproductive and Child Health of India (NARCHI) at Lady Harding Medical College, New Delhi from 28-29 October 2017 (Poster Presentation); Awarded the CS Dawn best paper on “To evaluate the efficacy of Cabergoline as compared to GnRH Agonists in women with Endometriosis: A Prospective Open Label Randomized Control Trial at 61st ACOG-2018 All India Congress of Obstetrics and Gynaecology (ACOG) of the FOGSI by the Association of Obstetricians and Gynaecologists of Orissa, Cuttack Society held from 17-21 January 2018 at Bhubaneswar on 17-21 January 2018 (Paper Presentation); Awarded FOGSI-CORION Award (2nd runner up) for the year 2017, for the best scientific work in Obstetrics and Gynecology in the senior category on “Evaluation of sFlt1 and PlGF during pregnancy and correlating with development of Preeclampsia”, at 61st ACOG, Organized by FOGSI, Bhubaneswar, 17-21 January 2018; Awarded first prize for ‘To compare the effect of metformin plus myoinositol vs metformin alone in terms of clinical pregnancy rate in infertile PCOS women’ at 13th Annual Conference of Indian Fertility Society (IFS), New Delhi, 8-10 December 2017; Facilitator/ Faculty for the following: (i) Medical Board, AIIMS for new entrants for MBBS, BSc Nursing, Optometry, Medical Technology in Radiography Courses (2014 onwards), (ii) Gurukul classes in session on “Jaundice in Pregnancy, Organized by Sir Ganga Ram Hospital under the aegis of ISOPARB, 21 December 2017; (iii) 4th Cadaver Workshop and CME Gynae Oncology, Organized by Department of Obstetrics and Gynaecology under Aegis of FOGSI Oncology Committee and Association of Gynaecologic Oncologists of India, 6-7 January 2018; (iv) Leadership in Quality Improvement and Capacity Building Workshop cum Consultation, Organized by WHO CC and Department of Paediatrics, AIIMS, New Delhi, 27-28 March 2018; Quality Improvement (QI): Instrumental in Quality Improvement Initiative of the Department and Completed the IHI Improvement Coach Professional Development Program, May 2017.

Dr Seema Singhal was selected for pursuing MCh course in Gynecologic Oncology; Editor and web editor for AOGIN India 2018-2020; Member, FOGSI Gynecologic Oncology Committee; Member, Subject Expert Committee Reproductive and Urology of the Drug Controller of India; Member Endometriosis Committee, AOGD; Reviewer, Minimally Invasive Surgery, Indian Obstetrics and Gynaecology; IHI certified QI faculty; Documents drafted: (i) FOGSI GCPR Screening and Treatment of pre-invasive lesions of cervix and HPV vaccination as coordinator; (ii) The FIGO Gyn Cancer Management Smartphone Mobile Application: Expert member; (iii) FOGSI GCPR: Anaemia in Pregnancy: Expert; (iv) Point of Care Quality Improvement Model as expert (v) Daksh advanced skill module organized by WHO-MOHFW-LSTM: As expert member.

Dr Jyoti Meena attended FOGSI GCPR Screening and Treatment of pre-invasive lesions of cervix and HPV vaccination as co-coordinator.

9.25. Orthopaedics

Professor and Head

Rajesh Malhotra

Professors

Hira Lal Nag
Shah Alam Khan

Ravi Mittal
Vijay Kumar

Chandra Shekhar Yadav

Associate Professors

Bhavuk Garg

Mohd. Tahir Ansari

Assistant Professors

Vijay Digge
Vivek Shankar

Vikrant Manhas
Venkatesan Sampath Kumar

EDUCATION

CMEs/Workshop/Symposia/National and International Conferences

1. Symposium on Kinematic Knee Replacement organized by Department of Orthopedics at JPNA Trauma Centre, AIIMS, New Delhi on 7 April 2017; Organizing Secretary: Dr Vijay Kumar
2. 11th Annual Conference of Indian Society of Hip and Knee Surgeons (ISHKS) on 7-9 April 2017 at Gurgaon
3. ISHKS Arthroplasty Course 2017 organized by Department of Orthopedics at JPNA Trauma Centre, AIIMS, New Delhi on 20-21 May 2017; Organizing Secretary: Dr Vijay Kumar
4. 1st Navigated Univation X (Unicondylar) Knee Cadaveric Workshop organized by Department of Orthopedics at JPNA Trauma Centre, AIIMS, New Delhi on 15 July 2017
5. Current Concepts in Arthroplasty 2017 organized by Orthopedic Research Society and Department of Orthopedics at All India Institute of Medical Sciences, New Delhi on 12-13 August 2017; Organizing Secretary: Dr Vijay Kumar
6. Newer Horizons in Total Knee Replacement International Guest Faculty Dr David Fisher at Department of Orthopedics, All India Institute of Medical Sciences, New Delhi on 18 September 2017
7. Modular Hip Arthroplasty Master Course at All India Institute of Medical Sciences, New Delhi on 9-10 February 2018; Organising Secretary: Dr Vijay Kumar
8. 6th AIIMS Arthroplasty Update-2018, 7 January, AIIMS, New Delhi
9. TKA Workshop, Indian Orthopaedic Association, Punjab Chapter, 19 November, Government Medical College, Patiala, Punjab
10. TKA cadaver workshop, Annual Conference of Bihar Orthopaedic Association, 9 February, Bhagalpur, Bihar

Lectures delivered

Rajesh Malhotra

1. Acetabular System—with STIKTITE technology for enhanced fixation, 11th Annual Conference of Indian Society of Hip and Knee Surgeons (ISHKS), 7-9 April 2017, Gurgaon
2. Mega Prosthesis, 11th Annual Conference of Indian Society of Hip and Knee Surgeons (ISHKS), 7-9 April 2017, Gurgaon
3. Does medial pivot knee design mimic normal kinematics? 11th Annual Conference of Indian Society of Hip and Knee Surgeons (ISHKS), 7-9 April 2017, Gurgaon
4. Advances in joint replacement, 2nd J&K Medical Sciences Congress and 1st Annual Meeting of MP POC Society, 10-13 May 2017, Srinagar
5. Biomechanics of TKR, ISHKS Arthroplasty Course 2017, 20-21 May 2017, New Delhi
6. Acetabular exposure, Preparation for Uncemented Cup, ISHKS Arthroplasty Course 2017, 20-21 May 2017, New Delhi
7. Modular stems for complex THA, Bihar OA Meeting, 9 June 2017, Patna

8. Step by step TKA—A video demonstration, Bihar OA Meeting, 9 June 2017, Patna
9. Osteoporosis clinical management—Treatment, Osteoporosis Essential Course 2017, 10 and 11 June 2017, Mumbai
10. Osteoporosis essentials—Cases for discussion, Osteoporosis Essential Course 2017, 10 and 11 June 2017, Mumbai
11. Monitoring management, Osteoporosis Essential Course 2017, 10 and 11 June 2017, Mumbai
12. Principles of DXA interpretation, Osteoporosis Essential Course 2017, 10 and 11 June 2017, Mumbai
13. Why are knee failing? Zimmer Biomet Institute Revision Knee Bioskills Workshop, 20 June 2017, Thailand
14. Approaches and exposure options in TKA revisions, Zimmer Biomet Institute Revision Knee Bioskills Workshop, 20 June 2017, Thailand
15. Managing bone loss and use of TM shapes, Zimmer Biomet Institute Revision Knee Bioskills Workshop, 20 June 2017, Thailand
16. Managing infected knees: Options and outcomes, Zimmer Biomet Institute Revision Knee Bioskills Workshop, 20 June 2017, Thailand
17. Navigation in UKA Pro's and Con's, 1st Navigated Univation X (Unicondylar) Knee Cadaveric Workshop, 15 July 2017, New Delhi
18. Bone bank and bone transplant, Guest Lecture at North DMC Medical College, 21 July 2017, New Delhi
19. Newer technology in total joint arthroplasty: Are they making any impact? **Plenary Lecture** at the Ganga Operative Arthroplasty Course, 28-30 July 2017, Coimbatore
20. Acetabular bone loss in revision THA—How to handle it? **Plenary Lecture** at the Ganga Operative Arthroplasty Course, 28-30 July 2017, Coimbatore
21. Taper Wedge—A stem for all seasons? Asia Pacific Arthroplasty Society 2017 (APAS), 18-19 August 2017, Chennai
22. Regional FFN (India), 6th Global FFN Meeting, 24-26 August 2017, Sweden
23. Fragility fractures in austere environment: Who needs surgery? 6th Global FFN Meeting, 24-26 August 2017, Sweden
24. My worst elbow case, AAOS Trauma Conclave, 10-11 September 2017, Goa
25. Complex trauma cases—Dealing with pathological bone, AAOS Trauma Conclave, 10-11 September 2017, Goa
26. Fracture Fragility Network (FFN) in India, Labor, Pain, Birth and Infancy, 5th International Conference of GOSI (GOSICON), 14-16 September 2017, Chandigarh
27. Oxford surgical principals, Oxford User Group Meeting, 23 September 2017, New Delhi
28. Latest technological developments in treatment of orthopaedic problems of senior citizen, 17th World Elders Day Celebration, 28 September 2017, New Delhi
29. Mechanical alignment vs Kinematic alignment: Has the concept changed? ISKSAA 2017, 6-8 October 2017, Chandigarh
30. Cement spacer in infected knee—Presented surgery video, ISKSAA 2017, 6-8 October 2017, Chandigarh
31. Exposure of hips tips and tricks—Surgery Video, ISKSAA 2017, 6-8 October 2017, Chandigarh
32. Fragility fractures among the elderly, First Indo Bhutan Conclave, 12-13 October 2017, Bhutan
33. Modes of failure in TKA, CME during 1st Smart Knee and Hip Conclave, 25 November 2017, New Delhi
34. The difficult primary THR, 38th SICOT Orthopaedic World Congress CME Program, 30 November-3 December 2017, Cape Town, South Africa
35. TKA in extra articular deformities, 2nd Sakra Knee Course, 10 December 2017, Bengaluru
36. Conventional vs computer navigation knee replacement, 2nd Sakra Knee Course, 10 December 2017, Bengaluru
37. Hand Held Navigation System, 2nd Sakra Knee Course, 10 December 2017, Bengaluru
38. Arthritis of knee and treatment options, 60th Diamond Jubilee State Medical (DMA) Conference, 24 December 2017, New Delhi
39. Flexion deformity correction (Video only)
40. 62nd Annual Conference of Indian Orthopaedic Association (IOACON) 2017, 26-30 December 2017, Indore
41. Wound closure techniques in TKA (Video only), 62nd Annual Conference of Indian Orthopaedic Association (IOACON) 2017, 26-30 December 2017, Indore
42. Post-operative Pain Management in TKR, 62nd Annual Conference of Indian Orthopaedic Association (IOACON) 2017, 26-30 December 2017, Indore
43. Current trends in Unicondylar Knee Arthroplasty, 62nd Annual Conference of Indian Orthopaedic Association (IOACON) 2017, 26-30 December 2017, Indore

44. Standard Practice Guidelines—Is it possible in India? 62nd Annual Conference of Indian Orthopaedic Association (IOACON) 2017, 26-30 December 2017, Indore
45. Revision of extensively porous coated long femoral stem, Fellows' Meeting on 4 January during the 16th Winter Meeting of Ranawat Orthopedic Conference, 4-6 January 2018, Mumbai
46. Total femoral replacement? Fellows' Meeting on 4 January during the 16th Winter Meeting of Ranawat Orthopedic Conference, 4-6 January 2018, Mumbai
47. Management of bone defects in primary TKA, Knee Arthroplasty Symposium during the 16th Winter Meeting of Ranawat Orthopedic Conference, 4-6 January 2018, Mumbai
48. Postoperative radiological evaluation in Unicondylar Knee Replacement (UKA), Knee Arthroplasty Symposium during the 16th Winter Meeting of Ranawat Orthopedic Conference, 4-6 January 2018, Mumbai
49. Posterolateral approach to Hip, 16th Winter Meeting of Ranawat Orthopedic Conference, 4-6 January 2018, Mumbai
50. Acetabular reconstruction for major bone loss, 16th Winter Meeting of Ranawat Orthopedic Conference, 4-6 January 2018, Mumbai
51. Bearing choice in total Hip Arthroplasty, KOACON 2018, 2-4 February 2018, Mangalore
52. THA for Dysplastic Hip (Video), KOACON 2018, 2-4 February 2018, Mangalore
53. THA for Fused Hip, 1st Annual Arthroplasty Conference of Hyderabad, 24-25 February 2018, Hyderabad
54. Cup cage construct for revision THA, 1st Annual Arthroplasty Conference of Hyderabad, 24-25 February 2018, Hyderabad
55. Kinematic alignment—Fact or Myth? 1st Annual Arthroplasty Conference of Hyderabad, 24-25 February 2018, Hyderabad
56. Instability following TKA, 1st Annual Arthroplasty Conference of Hyderabad, 24-25 February 2018, Hyderabad
57. Femoral stem implantation in Complex Hip Arthroplasty, Symposium on Complex Hip Arthroplasty, 10 March 2018, Chandigarh
58. Evolution in femoral stem designs, Symposium on Complex Hip Arthroplasty, 10 March 2018, Chandigarh
59. Computer assisted/navigated Total Knee Arthroplasty, The Ortho Academicia Conference, 30-31 March 2018, Puducherry

HL Nag

1. All inside ACL reconstruction, Vizac Arthroscopy Course 2017, 30 April 2017, Vishakhapatnam
2. All inside PCL reconstruction, Vizac Arthroscopy Course 2017, 30 April 2017, Vishakhapatnam
3. Arthroscopic meniscus surgery, Vizac Arthroscopy Course 2017, 30 April 2017, Vishakhapatnam
4. Is there any role of arthroscopy surgery in geriatric patients, 5th International GOSICON 2017, 14-16 September 2017, Chandigarh
5. All inside ACL reconstruction, Regional CME, 21 May 2017, Silchar
6. Arthroscopic meniscus repair, Regional CME, 21 May 2017, Silchar
7. Arthroscopy for elders of shoulder, knee and ankle joints, 17th World Elders Day Celebration, 1 October 2017, New Delhi
8. Reverse shoulder arthroplasty, Arthroscopy Workshop, 9-10 December 2017, Patna
9. Knee examination, Arthroscopy Workshop, 9-10 December 2017, Patna
10. All inside ACL reconstruction, Arthroscopy Workshop, 9-10 December 2017, Patna
11. Clinical and electrophysiological assessment of infra-patellar branch of saphenous nerve injury during anterior cruciate ligament reconstruction using oblique incision for hamstring graft harvest: Prospective study, 38th SICOT Congress 2017, 30 November-2 December 2017, Cape Town, South Africa
12. Infected nonunion of long bones: Our experience, 10th Jharkhand Orthopaedics Association Conference, 19-20 January 2018, Bokaro Steel City
13. Chondrosarcoma of femur: Limb salvage, 10th Jharkhand Orthopaedics Association Conference, 19-20 January 2018, Bokaro Steel City
14. All inside ACL reconstruction, 42nd UP Orthocon 2018, 16-18 February 2018, Allahabad

Ravi Mittal

1. Prevention of infection in trauma surgery, Symposium on Orthopaedic Infections, 23 April 2017, Rishikesh
2. Treatment of infection in trauma surgery, Symposium on Orthopaedic Infections, 23 April 2017, Rishikesh

3. Postero-lateral instability of elbow, DOA Meeting, 28 May 2017, Delhi
4. Capitellum fractures, Delhi Trauma Conference, 9 July 2017, Delhi
5. Case presentation on shoulder trauma and infected DHS, Delhi Trauma Conference, 9 July 2017, Delhi
6. Knee examination, B&B Knee Course, 28-29 July 2017, Kathmandu
7. Postero-medial knee reconstruction, B&B Knee Course, 28-29 July 2017, Kathmandu
8. Tibial avulsion fracture, B&B Knee Course, 28-29 July 2017, Kathmandu
9. Introduction to meniscus tears—How to diagnose different types of tears on MRI and arthroscopy, CTRF-AIIMS Cadaveric All Inside ACL Reconstruction and Meniscus, 27 August 2017, Delhi
10. IM nailing in difficult situations, WDOA Symposium on Nailing, 24 September 2017, Delhi
11. Adhesive capsulitis, EAC-ISKSSA Combined Global Summit, 6-8 October 2017, Chandigarh
12. Tibial inlay PCL reconstruction, EAC-ISKSSA Combined Global Summit, 6-8 October 2017, Chandigarh
13. Prevention of surgical site infection, DOACON, 11-12 November 2017, Delhi
14. Habitual dislocation of patella in children, SICOT, 30 November-2 October 2017, Cape Town, South Africa
15. Latarjet procedure, CGIOACON, 20-21 January 2018, Jagdalpur
16. Revision ACL reconstruction, CGIOACON, 20-21 January 2018, Jagdalpur
17. Enthesopathy, ISSPCON, 2-3 February 2018, Delhi
18. Infected non union, Annual Conference of Nepal Orthopaedic Association, 15-16 February 2018, Nepalgunj
19. Tibial inlay PCL reconstruction, Annual Conference of Nepal Orthopaedic Association, 15-16 February 2018, Nepalgunj
20. Complications in upper limb trauma, DOA Meeting, 25 February 2018, Delhi
21. Recurrent patella dislocation, Knee and Shoulder Symposium 2018, 18 March 2018, Bareilly
22. Anterior shoulder instability, Knee and Shoulder Symposium 2018, 18 March 2018, Bareilly
23. Decision making in rotator cuff repair, CTRF-AIIMS Cadaver Course on Rotator Cuff Repair, 24 March 2018, Delhi

C. S. Yadav

1. My experience with Single Axis Knee, 11th Asia Pacific Hip and Knee Symposium, 8-9 April 2018, Seoul, Korea
2. LLD in THA, Ortho Acamedicia, 5 May 2018, Goa
3. Use of Hyluronic Acid in OA, CME—Geriatric Orthopaedic Association, 13 May 2018, Goa
4. What I do and don't as an Arthroplasty surgeon, Symposium by Agra Orthopaedics Society, 28 May 2018, Agra
5. What is new in TKA, Symposium by Agra Orthopaedics Society, 28 May 2018, Agra
6. Advances in TKA, Eurasian Orthopaedic Forum, 29-30 June 2018, Moscow
7. My Indian experience of TKA, Eurasian Orthopaedic Forum, 29-30 June 2018, Moscow
8. My experience with Triathlon (Indian perspective), Meet the Expert CME by Stryker, 6 August 2018, Delhi
9. What has revolutionized my arthroplasty practice, Bihar Arthroplasty CME, 16 August 2018, Patna
10. Limb length discrepancy in THA, How to prevent it, Bihar Arthroplasty CME, 16 August 2018, Patna
11. Removing femoral cement—Current practice, Asia Pacific Arthroplasty Society Meet 2017, 20 August 2018, Chennai
12. How to live healthy, happy and pain free, World Physiotherapy Day Programme, 8 September 2018, Jamia Milia Islamia University, Delhi
13. Extensor apparatus injury in TKA, EAC - ISKSAA Combined Global Summit, 7 October 2018, Chandigarh
14. What has revolutionized my arthroplasty practice TKA., EAC - ISKSAA Combined Global Summit, 7 October 2018, Chandigarh
15. Why I don't resurface patella., International Congress on Joint Reconstruction, 25-27 September 2018, Cairo, Egypt
16. Cage and mesh in Revision Hip, International Congress on Joint Reconstruction, 25-27 September 2018, Cairo, Egypt
17. THR in Ankylosed Hip, THA Workshop, 36th Annual Conference of Indian Orthopaedic Association MP Chapter, 3 November 2018, Panchmari, MP
18. What is new in THA, 36th Annual Conference of Indian Orthopaedic Association MP Chapter, 3 November 2018, Panchmari, MP

19. CAS or PSI—Whether hope or hype, DOACON-17, 11 November 2018, Delhi
20. THR in fracture acetabulum, 4th UP Orthopaedics Association Arthroplasty Course, 26 November 2018, Lucknow
21. Principles of revision knee, 4th UP Orthopaedics Association Arthroplasty Course, 26 November 2018, Lucknow
22. How I manage my difficult knee, Meril Live Meet,, 16 December 2018, Ahmedabad
23. How I manage my difficult hip, Meril Live Meet,, 16 December 2018, Ahmedabad
24. Dislocation in THA, ROC, 4-6 January 2018, Mumbai
25. Principles of bone cuts in TKA, Annual Conference of Indian Orthopaedics Association, Chhattisgarh Chapter, 20 January 2018, Jagdalpur, Chhattisgarh
26. What I do and don't as an arthroplasty surgeon, Arab Health Congress-2018, 29 January-1 February 2018, Dubai, UAE
27. Simultaneous or staged bilateral TKA—A rational approach, Arab Health Congress-2018, 29 January-1 February 2018, Dubai, UAE
28. Principles of bone cuts in TKA, Arab Health Congress-2018, 29 January-1 February 2018, Dubai, UAE
29. TKA—How to do it for beginner, Annual Conference of Bihar Orthopaedic Association, 9 February 2018, Bhagalpur, Bihar
30. My transformation from PS to CR knee, Annual Conference of Bihar Orthopaedic Association, 9 February 2018, Bhagalpur, Bihar
31. What I do and don't as an arthroplasty surgeon, Annual Conference of Bihar Orthopaedic Association, 9 February 2018, Bhagalpur, Bihar
32. Cementless THA, Annual Conference of UP Orthopaedic Association, 16-17 February 2018, Allahabad, UP
33. Joint replacement in fracture in upper end of femur, Annual Conference of UP Orthopaedic Association, 16-17 February 2018, Allahabad, UP
34. Broken prosthesis, Annual Conference of UP Orthopaedic Association, 16-17 February 2018, Allahabad, UP
35. How big the femoral head size should be, Annual Conference of UP Orthopaedic Association, 16-17 February 2018, Allahabad, UP
36. Dislocation in THA, Delhi Orthopaedic Association Quarterly Meet, MAX Health Care, 25 February 2018, Delhi
37. Simultaneous or staged bilateral TKA—A rational approach, Ortho Academicia 2018, 30 March 2018, Pondicherry

Shah Alam Khan

1. Prosthetic reconstruction in bone tumors, 24th Annual Conference of the Paediatric Orthopaedic Society of India, 17-20 January 2018, Vellore
2. Growth modulation: Role and limitations, CME of the 62nd Annual Meeting of the Indian Orthopaedic Association, 26-31 December 2017, Indore
3. How to search for literature, 62nd Annual Meeting of the Indian Orthopaedic Association, 26-31 December 2017, Indore
4. Algorithm for the treatment of aneurysmal bone cysts, 62nd Annual Meeting of the Indian Orthopaedic Association, 26-31 December 2017, Indore
5. Limb reimplantation in upper limb, Specialists Combined Clinical Meeting, 6 July 2017, Aligarh
6. Paediatric knee deformities, Aligarh Orthopaedic Club, 27-30 January 2017, Aligarh
7. Bone tumors around the knee in children, Paediatric Orthopaedics Annual CME, 2 July 2017, New Delhi
8. Musculoskeletal tuberculosis—An overview, Asia Pacific Orthopaedic Association Meeting on Infection and Trauma, 30 March-2 April 2017, Kuala Lumpur

Mohammed Tahir Ansari

1. Management of scaphoid fracture: Current concepts, 10th National Conference of Bangladesh Society for Hand Surgery, 21 October 2017, Dhaka
2. Extensor tendon injury zone 1, 10th National Conference of Bangladesh Society for Hand Surgery, 21 October 2017, Dhaka
3. Elbow Arthroplasty: Current concepts, 10th National Conference of Bangladesh Society for Hand Surgery, 22 October 2017, Dhaka
4. Acute DRUJ injuries, 62nd Annual Convention of Indian Orthopaedic Association, 27 December 2017, Indore
5. Scaphoid fracture: Conservative management, 62nd Annual Convention of Indian Orthopaedic Association, 27 December 2017, Indore
6. Essex Lopresti injury, 1st Delhi Orthopaedic Association Quarterly Meet (DOA) Quartely Meet 2018, 25 February 2018, Delhi

Bhavuk Garg

1. Distal radius surgical technique, DOA Advanced Trauma Course, 2 April 2017, New Delhi
2. Tube-light: Neuromonitoring in scoliosis surgery, DSS Spine Society Meeting, 27 May 2017, New Delhi
3. Radial head fractures: Fix, excise, replace, DOA Shoulder and Elbow Update, 28 May 2017, New Delhi
4. Safe surgical tools: Burr, Kerrison, Ultrasonic scalpel, Spine Association of Gujarat Annual Meeting, 16 July 2017, Ahmedabad
5. Hemorrhage: Bloody spine surgery, Spine Association of Gujarat Annual Meeting, 16 July 2017, Ahmedabad
6. Communication skills in spine surgery, Spine Association of Gujarat Annual Meeting, 16 July 2017, Ahmedabad
7. Imaging of thoracolumbar trauma, DOA MSK Imaging Course, 6 August 2017, New Delhi
8. Deformity correction and long instrumentation in lumbar canal stenosis, ICS 2017, 11-13 August 2017, Kovalam, Trivandrum, Kerala
9. Pediatric scoliosis, APSS-APPOS 2017, 22-24 September 2017, Goa
10. Kyphoplasty, AOCIP Radiology Conference, 24 August 2017, New Delhi
11. Magnetic rods best practices for great clinical outcome, APSS-APPOS 2017, 24 September 2017, Goa
12. Musculoskeletal complications of hemophilia, Department of Hematology, 7 October 2017, AIIMS, New Delhi
13. 2 level disc problem, AO Spine Masters Course, ISIC, 14 October 2017, New Delhi
14. Post tubercular cervical kyphosis correction, Global Spine Forum, NASS Annual Meeting, 24-28 October 2017, Orlando, USA
15. 2 level disc problem, Spine Connect Program, NASS Annual Meeting, 24-28 October 2017, Orlando, USA
16. 2 level disc problem in a 30 year old male, Post tubercular kyphotic deformities of cervical spine, North American Spine Society's 32nd Annual Meeting, 25-28 October 2017, Orlando, USA
17. 3D printing in spine deformities, Bone and Joint Knowledge, 18 November-19 November 2017, Haryana
18. E-poster presentation, 38th SICOT Orthopaedic World Congress-2017, 30 November-2 December 2017, South Africa
19. 3D printing for spinal deformities, SYSCON 2018, 11 January 2018, AIIMS, New Delhi
20. Sequential, Multiaxial correction for scoliosis, Lunch Symposium, ASSICON 2018, 19-21 January 2018, Chennai
21. Peer review process, ASSICON 2018, 19-21 January 2018, Chennai
22. TB mimickers of spine, Spinecon, 2-4 February 2018, Gurgaon
23. Pediatric cervicodorsal scoliosis, Spinecon, 2-4 February 2018, Gurgaon
24. Lumbar sagittal balance, Spinecon, 2-4 February 2018, Gurgaon
25. Safety and feasibility of cervical pedicle screw fixation in paediatric subaxial cervical spine using a free-hand technique, CSRS-AP 2018, 22-24 March 2018, Gurgaon
26. Tuberculosis spine, POSAC Meeting, 24-25 March 2018, Pune
27. Spinal osteotomies, Ortho Academicia Annual Meet, 30-31 March 2018, Pondicherry
28. Bowel injury after TLIF, Ortho Academicia Annual Meet, 30-31 March 2018, Pondicherry

Vijay Kumar D

1. Patient positioning and basic instruments for arthroscopic rotator repair, Cadaveric Advanced Shoulder Arthroscopy (Rotator cuff repair) Course, 24 March 2018, AIIMS, New Delhi
2. Bone donation and bone harvesting, Deceased Organ and Tissue Donation Workshop, 20 March 2018, AIIMS, New Delhi
3. Talk and cadaveric demonstration of FDL transfer, ISIC Ankle and Shoulder Course, 28 January 2018, ISIC, New Delhi
4. Does adolescent flat foot require treatment—Current concept, ISIC Ankle and Shoulder Course, 28 January 2018, ISIC, New Delhi
5. Bone donation and bone harvesting, Deceased Organ and Tissue Donation, 7 September 2017, AIIMS, New Delhi
6. Bone donation and bone harvesting, Deceased Organ and Tissue Donation, 2 August 2017, AIIMS, New Delhi
7. Bone donation and bone harvesting, First Ever Transplant Co-Ordinator Training Programme by National Organ and Tissue Transplant Organization (NOTTO), 29 July 2017, NOTTO, Safdarjung Hospital, New Delhi
8. Bone donation and bone harvesting, Deceased Organ and Tissue Donation, 2 August 2017, AIIMS, New Delhi

Vikrant Manhas

1. Surgical steps in navigated UKR, Knee Expert Training Course, 14-15 July 2017, New Delhi
2. How to assess joint health, joint evaluation and diagnosis (X-rays and other modalities), Hemophilia—Joint Assessment and Joint Health, 7 October 2017, New Delhi
3. Direct anterior approach to ankle, ISIC Ankle and Shoulder Course 2018, 22-24 September 2017, New Delhi

Vivek Shankar

1. Osteoporotic fractures with neurological deficit, 11th Combines Meeting of Asia Pacific Spine Society and Asia Pacific Paediatric Orthopaedics Society, 22-24 September, Goa

Venkatesan Sampath Kumar

1. Debate against 'Radiotherapy is the treatment of choice for Ewing's sarcoma of the axial skeleton', Debates in Ewing's Sarcoma, 17 January 2018, India Habitat Centre, New Delhi
2. Radiological approach to diagnosis of bone tumours, UP Postgraduate Instructional Course Lectures 2017, 9-11 November 2017, B.R.D. Medical College, Gorakhpur
3. Current concepts in management of osteosarcoma, UP Postgraduate Instructional Course Lectures 2017, 9-11 November 2017, B.R.D. Medical College, Gorakhpur
4. Adjuvant therapy in spine and pelvic tumours, 11th Combined Meeting of the Asia Pacific Spine Society and Asia Pacific Paediatric Orthopaedic Society, 22-24 September 2017, Panaji
5. Autograft and allograft in bone tumours, National CME—Current Concepts in Bone Graft and Bone Graft Substitutes, 10 September 2017, Madras Medical College, Chennai

Oral paper/poster presented

1. Kumar V, **Malhotra R**, Wahal N, Nayak M, Kanogiya G, Srivastava D, Murray D, Pandit H. Results of Oxford mobile bearing medial Unicompartmental Knee Replacement in Indian population, 38th SICOT Orthopaedic World Congress, 30 November-3 December 2017, Cape Town, South Africa
2. **Malhotra R**, Kumar V, Wahal N, Srivastava D, Mellon S, Murray D. In Vivo sagittal plane kinematic analysis of Oxford mobile bearing medial Unicompartmental Knee Replacement (UKR) and its correlation with functional outcome, 38th SICOT Orthopaedic World Congress, 30 November-3 December 2017, Cape Town, South Africa
3. Wahal N, **Malhotra R**, Kumar V, Batra S, Srivastava D, Pandit H. Comparison between In Vivo kinematic analysis of total knee replacement and Unicompartmental Knee Replacement in Indian patients, 38th SICOT Orthopaedic World Congress, 30 November-3 December 2017, Cape Town, South Africa
4. **Malhotra R**, Kumar V, Nayak M, Kanogiya G, Srivastava D, Mellon S, Murray D, Pandit H. Analysis of anthropometric data of South Asian population with knee pain, 38th SICOT Orthopaedic World Congress, 30 November-3 December 2017, Cape Town, South Africa
5. Gautam D, **Malhotra R**, Gaba S, Chawla L. Gross trunnion failure after total hip arthroplasty, 38th SICOT Orthopaedic World Congress, 30 November-3 December 2017, Cape Town, South Africa
6. Kumar V, Banjara R, Srivastava D, **Malhotra R**. Results of total hip replacement in young patients of age <35 years, 38th SICOT Orthopaedic World Congress, 30 November-3 December 2017, Cape Town, South Africa
7. Kumar V, **Malhotra R**, Nayak M, Kanogiya G, Srivastava D, Mellon S, Murray D, Pandit H. Risk of knee osteoarthritis in people having Femoral and Tibia Vara, 38th SICOT Orthopaedic World Congress, 30 November-3 December 2017, Cape Town, South Africa
8. Kumar V, Sharma SS, Sood M, **Malhotra R**. The effect of preoperative undiagnosed psychopathology on patient satisfaction at one year following total knee arthroplasty in South Asian population, 38th SICOT Orthopaedic World Congress, 30 November-3 December 2017, Cape Town, South Africa
9. Kumar V, Sharma S, Sood M, **Malhotra R**. Kinesiophobia as predictor of poor outcome following total knee outcome: A new cut-off score, 38th SICOT Orthopaedic World Congress, 30 November-3 December 2017, Cape Town, South Africa
10. **Malhotra R**, Kumar V, Sharma G, Sood M. The effect of pain catastrophizing on patient satisfaction at one year following total knee arthroplasty in South Asian population, 38th SICOT Orthopaedic World Congress, 30 November-3 December 2017, Cape Town, South Africa
11. **Malhotra R**, Kumar V, Wahal N, Clave A, Murray D, Pandit H. New instrumentation improves patient satisfaction and component positioning for mobile bearing medial Unicompartmental Knee Replacement, 38th SICOT Orthopaedic World Congress, 30 November-3 December 2017, Cape Town, South Africa

12. Digge VK, **Malhotra R**, Batra SB, Kumar V, Srivastava D, Pandit H. Prospective randomized study to compare clinical, radiological and kinematic outcomes between medial pivot knee arthroplasty and posterior stabilised knee arthroplasty, 38th SICOT Orthopaedic World Congress, 30 November-3 December 2017, Cape Town, South Africa
13. Digge VK, **Malhotra R**, Batra SB, Kumar V, Srivastava D, Pandit H. Prospective randomized study to compare clinical, radiological and kinematic outcomes between medial pivot knee arthroplasty and posterior stabilised knee arthroplasty, 38th SICOT Orthopaedic World Congress, 30 November-3 December 2017, Cape Town, South Africa
14. **Malhotra R**, Kumar V, Sharma S. Effect of preoperative modifiable psychological and behavioral factors on pain and functional outcome following total knee arthroplasty in South Asian population, 38th SICOT Orthopaedic World Congress, 30 November-3 December 2017, Cape Town, South Africa
15. Kumar V, Sharma S, Sood M, **Malhotra R**. The effect of preoperative kinesiophobia on patient satisfaction following total knee arthroplasty in south asian population, 38th SICOT Orthopaedic World Congress, 30 November-3 December 2017, Cape Town, South Africa
16. **Khan SA**, Rastogi S, Bakhshi S, Poudel RR, Kumar VS. Functional outcome following no reconstruction in sacral tumors, 19th Meeting of the International Society of Limb Salvage, 10-12 May 2017
17. **Khan SA**, Rastogi S, Bakhshi S, Poudel RR, Kumar VS. Zoledronic acid in fibrous dysplasia—A clinical study, 19th Meeting of the International Society of Limb Salvage, 10-12 May 2017,
18. **Khan SA**, Rastogi S, Bakhshi S, Poudel RR, Kumar VS. Functional outcome following no reconstruction in Type II pelvic resections for Chondrosarcomas, 19th Meeting of the International Society of Limb Salvage, 10-12 May 2017
19. **Khan SA**, Rastogi S, Bakhshi S, Poudel RR, Kumar VS. Functional outcome following no reconstruction in sacral tumors, 30th Annual Meeting of the European Musculoskeletal Oncological Society, 26-29 April 2017
20. **Garg B**. Comparative evaluation of 3D printed zigs and free hand technique of pedicle screw insertion in complex spinal deformities, APSS-APPOS Combined Congress, 22-24 August 2017, Goa
21. **Garg B**. Comparative evaluation of 3D printed zigs and free hand technique of pedicle screw insertion in complex spinal deformities, selected for presentation in VTI gold medal session, ASSICON 2018, 19-21 January 2018, Chennai
22. Mehta N, **Garg B**. Use of free hand cervical pedicle screw in pediatric population: Safety and feasibility, ASSICON 2018, 19-21 January 2018, Chennai
23. Mehta N, **Garg B**. Use of free hand cervical pedicle screw in pediatric population: Safety and feasibility, Cervical Spine Research Society—Asia Pacific Annual Meeting, 22-24 March 2018, New Delhi
24. Mahmood A, **Garg B**. ALL incompetency in posterior approach to Lumbar Spine Surgery, DOACON, 25-27 November 2016, New Delhi
25. **Garg B**. Comparative evaluation of 3D printed zigs and free hand technique of pedicle screw insertion in complex spinal deformities, ICS 2017, 11-13 August 2017, Kovlam
26. Ahuja K, Chowdhary B, **Garg B**, Yadav RK. Comparative analysis of serum melatonin levels in adolescent scoliosis, Congenital Scoliosis and Controls, ICS 2017, 11-13 August 2017, Kovlam
27. *Ahuja K, Chowdhary B, **Garg B**, Yadav RK. Comparative analysis of serum melatonin levels in adolescent scoliosis, Congenital scoliosis and controls the APSS-ASJ best poster award, 11th Combined Meeting of Asia Pacific Spine Society and Asia Pacific Pediatric Orthopaedic Society, 22-24 September 2017, Goa
28. **Garg B**. Comparative evaluation of 3D printed zigs and free hand technique of pedicle screw insertion in complex spinal deformities, SICOT Annual Meeting, 29 November-2 December 2017, South Africa
29. ****Garg B**. Role of bone scan in evaluation of osteoporosis and patients receiving alendronate and teriparatide, ASSICON 2018, 19-21 January 2018, Chennai
30. ***Soni L, Mohan VK, **Garg B**, et al. Diagnostic ultrasound guided lumbar medial branch block of dorsal ramus in facet joint arthropathy: Technical feasibility and validation by fluoroscopy, ASRA's World Congress on Regional Anesthesia and Pain Medicine, 19-21 April 2018, New York
31. Malik G, Attri KS, Piprole V, Gadgil CJ, Wani MR, **Garg B**, Gokhale R. Mycobacterium tuberculosis renovates host signaling networks to potentiate osteoclast differentiation and bone damage in Pott's Spine: A possible molecular explanation for different behaviour as compared to pulmonary tuberculosis, TB Day Symposium 2018, 21-22 March 2018, AIIMS, New Delhi
32. Malik G, Hadda V, **Garg B**. Identification of blood based signatures for spinal tuberculosis: A molecular insight TB Day Symposium 2018, 21-22 March 2018, AIIMS, New Delhi

RESEARCH

Funded projects

Ongoing

1. A multi-centre, prospective, uncontrolled Post Market Clinical Follow-Up Study (PMCFU) to monitor the survival and performance of the Delta Motion Cup System in subjects requiring a total hip replacement, Rajesh Malhotra, Johnson and Johnson Medical India, 5 years, 2013-2018, Rs 15.50 lakhs
2. CV185-158: Phase IV, Open-Label, Multi-center study to evaluate the safety of Apixaban in Indian subjects undergoing elective total knee replacement or total hip replacement surgery, Rajesh Malhotra, Bristol-Myers Squibb India, 3 years, 2015-2018, Rs 3.3 lakhs
3. Comparison of yearly zoledronic acid versus weekly alendronate in preference, convenience, compliance, persistence and bone turnover markers in Indian Postmenopausal Osteoporotic Women, Rajesh Malhotra, ICMR, 3 years, 2015-2018, Rs 40 lakhs
4. A single blind cluster randomized controlled trial to compare the clinical and radiological outcomes in patients with Ankylosing spondylitis with fused hips and spinopelvic deformity undergoing total hip arthroplasty using a novel Computer Aided Design (CAD) Model Based Protocol vs Conventional Technique, Rajesh Malhotra, DBT, 3 years, 2015-2018, Rs 34 lakhs
5. Prospective, Multi-Centre Outcomes Study of Persona Knee System in Total Knee Arthroplasty, Rajesh Malhotra, Zimmer India, 3 years, 2015-2018, Rs 23.5 lakhs
6. Efficacy of short term 6 months vs 9 months treatment of ATT in extra spinal ostioarticular tuberculosis, C.S Yadav, DBT, 4 years, 2013-2017, Rs 60 lakhs
7. Treatment response evaluation in extra spinal musculoskeletal tuberculosis using molecular imaging (PET-CT), Shah Alam Khan, ICMR, 2 years, 2017-2019
8. Understanding differences in the patterns of osteoarthritis in Indian and Western population: Impact on symptoms, treatment options and their outcome, Rajesh Malhotra and Vijay Kumar, DST-UKIERI, 3 years, 2017- 2020, Rs 90 lakhs
9. Evaluation of safety and efficacy of etodolac injection in patients with post-operative orthopedic pain, Vijay Kumar, IPCA, 1 year, 2018-2019, Rs 3 lakhs
10. Safety suitability and clinical effectiveness of unicompartmental knee replacement in the Indian population, Rajesh Malhotra and Vijay Kumar, DST-UKIERI, 2.5 years, 2014- 2017, Rs 35 lakhs
11. Comparison of bone scan changes during and after treatment with Alendronate and Teriparatide for the treatment of osteoporosis, Bhavuk Garg, ICMR, 3 years, 2015-2018, Rs 39.15 lakhs
12. Comparative evaluation of genetic and cytokines profile in age matched Indian subjects with and without knee osteoarthritis, Bhavuk Garg, ICMR, 3 years, 2017-2020, Rs 140.64 lakhs
13. Comparisons of cytokines, matrix metalloproteinase and bone markers between normal, pulmonary, Osteomyelitis and Spine Tuberculosis Subjects, Bhavuk Garg, AIIMS, 2 years, 2016-2018, Rs 9.99 lakhs

Completed

1. Medication use patterns, Treatment satisfaction, and inadequate control of Osteoporosis Study (MUSIC): An Asia Pacific study of postmenopausal women treated for osteoporosis in clinical practice, Rajesh Malhotra, Merck, 2 years, 2014-2016, Rs 3.3 lakhs
2. To develop computer assisted patient specific osteotomy and drill guides for spinal deformities with the help of volumetric CT scan and 3D reconstruction models, Bhavuk Garg, DBT, 3 years, 2013-2016, Rs 50 lakhs

Departmental projects

Ongoing

1. Implant migration analysis using RSA and clinic-radiological outcome in Indian population undergoing mobile bearing UKR
2. A prospective randomized clinical trial to compare clinical, fluoroscopic and radiological outcome between medial pivot and lateral pivot knee
3. A prospective randomised study to compare large console, Image less computer assisted navigation vs accelerometer based portable navigation technique of total knee replacement
4. Clinical and electrophysiological assessment of injury to Infra-Patellar Branch(es) of saphenous nerve during ACL reconstruction using oblique incision for hamstring graft harvest: Prospective study

5. Clinico-radiological evaluation of anterolateral ligament of knee in ACL injury patients
6. Evaluation of tunnel widening and bony bridge between Femoral and Tibial tunnels in patients treated with double bundle ACL. Reconstruction for ACL tear. Using multi-detector CT Scan and their correlation with the knee stability and functional outcome
7. Evaluation of a Novel Clinical Test for diagnosis of tear of posterior horn of medial meniscus of knee with the help of magnetic resonance imaging
8. Retro prospective analysis of “partial” bundle anterior cruciate ligament tear—Diagnosis and management with ACL augmentation
9. Clinico-radiological assessment of arthroscopic repair for recurrent anterior shoulder instability
10. Management of knee hyperextension in ACL deficient patients
11. Study of p53, Ki 67 labelling index, CXCL12 Chemokine and its receptors CXCR4 and CXCR7 in Ewing Sarcoma
12. Clinical and radiological outcomes of different procedures for Neglected Monteggia Fracture Dislocation
13. A prospective randomized study to compare Computer Assisted Navigation vs Free Hand Surgical Technique of total hip replacement
14. Double blind randomized control trial to assess the outcome of pulley release and pulley reconstruction for de Quervain tenosynovitis
15. Comparison of functional outcome and patient reported outcome in cruciate retaining versus posterior stabilizing total knee arthroplasty: A prospective double blind randomized control trial
16. Quantification of the amount of PCL retained in cruciate retaining TKA and its effect on functional outcome
17. Determination of accuracy of implant positioning and limb alignment in medial unicompartmental knee arthroplasty with computer navigation—An ambispective study
18. Functional and radiological outcomes following plating for displaced fractures of patella
19. Comparative study between Technitium-99m Skeletal Scintigraphy, Whole body MRI and 18-Fluoro-Deoxy Glucose Positron Emission Tomography/Computed Tomography for staging patients with Osteosarcoma and Ewing’s sarcoma
20. To study histopathological and electron microscopic features of ligamentum flavum in degenerative lumbar canal stenosis in comparison with young adults undergoing discectomy
21. Role of CT guided percutaneous biopsy in suspected case of tuberculosis spine

Completed

1. Management of adhesive capsulitis of shoulder
2. Clinical and Electrophysiological Assessment of injury to Infra-Patellar Branch(es) of saphenous nerve during ACL reconstruction using oblique incision for hamstring graft harvest: Prospective study
3. Comparison of immediate pain control and early functional recovery in patients undergoing shoulder arthroscopic procedures between general anesthesia and general anesthesia with interscalene brachial plexus block—A randomized control trial
4. Biomechanical investigation of extracorporeal irradiation therapy in malignant bone tumors
5. Correlation between serum biomarkers, dynamic MRI and histopathology in paediatric osteosarcomas
6. A prospective study comparing PET CT SCAN to dynamic MRI in assessment of the arthroscopic anterior cruciate ligament reconstruction
7. Total hip replacement in patients less than 30 years of age
8. Prospective randomized study to compare computer assisted navigation vs accelerometer based navigation technique of total knee replacement
9. Comparative analysis of metabolic and coagulation profile in AIS and congenital scoliosis
10. To study the clinical and radiological outcome of posterior and posterolateral decompression and instrumented interbody fusion using locally harvested bone graft in traumatic fracture dislocation of thoracolumbar spine

Collaborative projects

Ongoing

1. Understanding differences in the patterns of osteoarthritis in Indian and Western population: Impact on symptoms, treatment options and their outcome, DST-UKIERI, IGIB, IIT
2. International orthopaedic multicentre study in fracture care, George Institute for Global Health

3. Association of PAI-1 promoter sequence variations in idiopathic avascular necrosis of head of femur, Anatomy
4. Impact of yoga and meditation on epigenetic profile in rheumatoid arthritis, Anatomy
5. Patient specific stress analysis in congenital dislocation of the hip, IIT, Delhi
6. The PARITY Trial, McMaster University, Canada
7. Understanding differences in the patterns of osteoarthritis in Indian and Western population: Impact on symptoms, treatment options and their outcome, IIT, IBIG, DST and Oxford, UK
8. To elucidate the mechanisms behind documented osteogenic activity of Symphytum officinale in human bone marrow derived mesenchymal stem cells in vitro, Biochemistry
9. Comparative role of Lutetium-177 and Rhenium-188 in radiosynovectomy of chronic knee arthritis, Nuclear Medicine
10. Quantification of tendon injuries using high frequency ultrasonography in upper limb injuries, Radiology
11. The safety and efficacy of transcatheter arterial embolization in moderate osteoarthritis and medial knee pain, Cardiovascular Radiology and Endovascular interventions
12. Elucidating the link between osteoblastic differentiation of human bone marrow derived mesenchymal stem cells and their tumorigenic potential, Biochemistry
13. Transforaminal epidural injection of local anaesthetic and Dorsal root ganglion pulsed radiofrequency treatment in Lumbosacral Radicular Pain—A Randomized, Triple-Blind, Active-Control Trial, Anaesthesia
14. Role of Versican and its signaling in Multiple Myeloma, Biochemistry
15. Effectiveness of bundled intervention in surgical site infections among patients undergoing clean orthopedic surgery with hardware implants: A randomized controlled trial, Microbiology
16. Diagnostic ultrasound guided lumbar medial branch block of dorsal ramus in facet joint arthropathy: Technical feasibility and validation by fluoroscopy, Anaesthesia
17. Histology of lumbar intervertebral disc in Disc Degenerative Disease and its correlation with clinical and radiological findings, Lab Medicine

Completed

1. Safety suitability and clinical effectiveness of unicompartmental knee replacement in the Indian population, DST-UKIERI
2. Biomechanical investigation of extracorporeal irradiation therapy in Malignant Bone Tumors, IIT, Delhi

PUBLICATIONS

Journal: 43

Abstracts: 3

Chapters in Books: 2

PATIENT CARE

- Navigation assisted hip and Knee Replacement Surgery
- Partial Knee Replacement Surgery
- RSA facility
- Small joint arthroscopy and arthroplasty
- Our department established Fragility Fracture Network (FFN), India a subsidiary of FFN Global to the care of osteoporosis
- Department of Orthopaedic has started Fragility Fracture Clinic providing Ortho Geriatric Services both in Main AIIMS and JPNATC
- First time in India, Surgeries during the year: Hip and knee (i.e. Navigated Partial Knee Replacement, and, “Super Path” approach to hip)
- “SATHI and SSAHARA” Programs for specialized care of osteoporotic fracture by fall prevention and balance improvement
- We have pioneered 3D printing in management of Complex Spinal Deformities
- We are modernizing our operation theatres by making them modular and are in the process of acquiring “O Arm”. We have obtained approval for setting up ROBOTIC facilities in Orthopaedics
- The Delhi Organ Transplant Cell, Health and Family Welfare Department, Government of NCT of Delhi has issued a Registration Certificate to perform Bone Bank Facilities under Transplantation of Human Organs and Tissues Act at our hospital
- Our department has established state of the art Gait Lab which is most advanced Gait Lab in India

- Running “Sports Clinic” in the afternoon, once a week
- Attending the injured athletes at Medical Centre, J.L Nehru Stadium, New Delhi, in the afternoon, once a week
- Hand Clinic
- Running “TB Clinic, Spine Clinic and Scoliosis Clinic” in the afternoon, once a week

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Awarded “AIIMS Excellence Research Award 2016” for the paper entitled: A Prospective Randomized Study to Compare the Systemic.

Professor Rajesh Malhotra was Honorary Consultant for Sports Authority of India (SAI); Appointed member, Hospital Management Board; Nominated member, Technical Specification Selection Committee of Surgical Items; External examiner for MS and MBBS examination; Vice President, Orthopaedic Research Society, AIIMS; Member, Store Purchase Committee, AIIMS; Faculty in Charge, Examination Centre, Udaipur, for LDC Tests, AIIMS; Member, Doctoral Committee for PhD of Ms. Surabhi, Department of Anatomy, for impact of Yoga and Meditation on AP Epigenetic profile in rheumatoid arthritis.

Professor Hira Lal Nag was Honorary Consultant for Sports Authority of India (SAI); Appointed member, Hospital Management Board; Nominated member, Technical Specification Selection Committee of Surgical Items; External Examiner for MS and MBBS examination at Silchar, Jaipur and Shillong respectively; Vice President, Orthopaedic Research Society, AIIMS; Member, Store Purchase Committee, AIIMS; Faculty in Charge, Examination Centre, Siliguri for online MBBS Entrance Examination, AIIMS; Member, Doctoral Committee for PhD of Ms. Surabhi, Department of Anatomy, for impact of Yoga and Meditation on AP Epigenetic profile in rheumatoid arthritis; External expert for Interview Board for Selection of Faculty, Department of Orthopaedics, IGIMS, Patna; Unit in Charge of Orthopaedics Unit II and Acting Head Department of Orthopaedics from time to time; Faculty in Charge, Physiotherapy Unit; External expert, Standing Selection Committee, for Selection of Professor, Department of Orthopaedics, AIIMS Patna; Subject expert for Selection of Professors, BPS Government Medical College for Women, Khanpur Kalan, Haryana; External expert, Interview Board for Selection of Professor and Associate Professor, ESIC Medical College, Faridabad, Haryana; Subject expert, J&K Public Service Commission, Srinagar for Selection of Medical Officers; Member, Selection Board for Selection of Senior Residents, AIIMS; External expert, Selection Board for Selection of Faculty Medical College, Gr. NOIDA.

Professor Ravi Mittal was examiner for MS Orthopaedics examination at AIIMS, New Delhi, Tribhuvan University, Kathmandu, Nepal, Gandhi Medical College, Bhopal on 7 July 2017, Supplementary MBBS examination at Jamia Hamdard Hospital; Radio talk on problems of shoulder and neck at FM Rainbow on 12 March 2018; Subject expert in Standing Selection Committee of AIIMS Bhopal on 7 March 2017; External subject expert at APS interview at AIIMS Bhopal on 27 April 2017; Member of the MBBS curriculum for 2017, 2018; Subject expert in the Selection Committee for the Post of Professor in Orthopaedics at Kalpana Chawla Government Medical College Karnal, Interview held in Rohtak; Member of Academic Board Meeting at Jamia Hamdard University on 11 September 2017; Member of Suture Selection Committee at AIIMS 2017 and 2018; Member of Orthopaedic Implant Committee at Manak Bhavan, New Delhi in 2017 and 2018; Expert Committee Meeting for Standards of Implants at Manak Bhavan on 31 January 2018.

Professor Chandra Shekhar Yadav delivered IMA Kota Oration ‘How to live healthy, happy and pain free’ on Foundation Day of Kota IMA 17 April, Kota, Rajasthan; Felicitation by Agra Orthopaedic Society, 28 May, Agra; Felicitation by Jamia Milia Islamia University, 8 September, Delhi; BIOS Senior Fellowship, 10-24 September, Liverpool, UK; Dr B.B. Ohri Oration, 36th Annual Conference of Indian Orthopaedic Association M.P. Chapter, 4 November, Panchmari, MP; Dr A S Dau Oration, Annual Conference of Indian Orthopaedics Association, Chhattisgarh Chapter 20 January, Jagdalpur, Chhattisgarh; Chaired session in majority of conferences, CMEs, Symposia where I delivered guest lectures; Acted panelist in majority of conferences, CMEs, Symposia where I delivered guest lectures; Did live demonstration surgery many conferences, CMEs, Symposia where I delivered guest lectures; Invited as an expert over issues of Arthritis and Arthroplasty by Electronic and Print Media.

Dr Bhavuk Garg received AO Trauma Asia Pacific Research Grant 2017; Member, Scoliosis Research Society CME Committee, North American Spine Society, International Education Committee, Scientific and Consensus Committee, SICOT, India, Task Force on Stem Cell Research and Regenerative Medicine, DBT; Invited as guest faculty by Pune Orthopedic Association, Gujarat Orthopedic Association and North American Spine Society.

Dr Mohd. Tahir Ansari did a fellowship in Hand and Upper Extremity Surgery: Kaplan Hand Institute; Barcelona, Spain, July 2017.

Dr Vijay Kumar Digge received Early Career Research Award by the Department of Science and Technology (DST), Government of India; Organized first ever AIIMS Cadaveric Advanced Shoulder Arthroscopy (Rotator Cuff Repair) Course on 20 March 2018 under the Chairmanship of Professor R Malhotra with guidance from Professor HL Nag; Organized a

Cadaveric Meniscus Repair and All Inside ACL Reconstruction at AIIMS in August 2017 at AIIMS, New Delhi; Organizing faculty for Cadaveric Course in ISIC Ankle and Shoulder Course 2018 at New Delhi on 27 January 2018; Participated in Indian Arthroscopy Association Annual Conference (IASCON) held at Jaipur in November 2017; Participated and presented a poster on “Prospective randomized study to compare clinical, radiological and kinematic outcomes between Medial Pivot Knee Arthroplasty and Posterior Stabilised Knee Arthroplasty” presented at the 38th SICOT Orthopaedic World Congress, to be held in Cape Town, South Africa, from 30 November-2 December 2017; National faculty for Current Concepts in Arthroplasty held on 12-13 August 2017 at the All India Institute of Medical Sciences, New Delhi; Faculty in Deceased Organ and Tissue Donation Workshop at AIIMS, New Delhi.

Dr Vikrant Manhas was Chairperson of session “Unicondylar knee replacement” in Current Concepts of Arthroplasty, 2017; Navigated Univation X (Unicondylar) Knee Cadaveric Workshop, July 2017; Foot and Ankle Cadaveric Workshop, September 2017; Chairperson of session “Flatfoot/Hallux Valgus correction” in ISIC Ankle and Shoulder Course, September 2017; Attended workshops on “pelvis and acetabulum/foot and ankle-approaches/principles of fixation” in WIROC, December 2017.

Dr Vivek Shankar was member Organizing Committee, 11th Combined Meeting of Asia Pacific Spine Society and Asia Pacific Pediatric Orthopaedics Society; Member, Organizing Committee, Current Concepts in Arthroplasty at AIIMS, New Delhi.

VISITING SCIENTIST

1. Dr Jayant Sampat, Bengaluru for Gait Lab Installation.

9.26. Otorhinolaryngology		
Professor and Head		
Suresh Chandra Sharma		
Professors		
Alok Thakar		Rakesh Kumar
Associate Professors		
Kapil Sikka		Chirom Amit Singh
Assistant Professors		
Rajeev Kumar	Prem Sagar	David Victor Kumar Irugu
Arvind Kairo	Shuchita Singh	Hitesh Verma

HIGHLIGHTS

The department continued its activities to impart quality education to its own students and also to delegates and observers. The department conducted 9 major and minor workshops in the year. The department hosted the TOUSS workshop which was the first of its kind technology of removing tumors of upper aerodigestive tract via endoscopic approach using ultrasonic scalpel.

EDUCATION

The formal lecture schedule for the MBBS students are held in the 6th and 8th semesters and consist of 1 hour lectures. The undergraduate students are posted in the ENT Department (OPD and Ward) for a total period of 2 months on rotation basis. For postgraduates, major goals are patient care, teaching, research ability and team work. PG student will have to do presentation of seminar/paper, research writing, acquire clinical decision making ability and management expertise. Postgraduate students perform major and minor surgical procedures under supervision of a faculty member/a senior resident. The department also runs the superspecialty course of MCh Head and Neck Surgery and fellowship in Skull Base Surgery. The MCh residents have been allocated duties in the respective specialties in OPD, OT and also attend academic activities jointly with Departments of Radiation Oncology, Medical Oncology, Pathology, Neurosurgery, etc. MCh residents and Skull Base Fellows also are promoted to participate in research projects jointly with faculty members. They present seminars and journal clubs by rotation.

Long Term Training:

1. Dr Lt Col Anandita Gupta, Department of ENT, Military Hospital, Gaya, Bihar, 1 year (1 October 2016-30 September 2017)
2. Lt Col Dr Abha Kumari, ENT Specialist, Military Hospital, Gwalior, 1 year, 25 April 2017-24 April 2018

Short Term Training:

1. Dr Parmod Kalsotra, Professor, Department of ENT, Government Medical College, Jammu, 10 days, 15-24 January 2018

Elective training:

1. Mr Benjamin Freytag, RWTH Aachen University, Germany, One month, 19 February 2018-20 March 2018
2. Mr Sagar Khanna, Plevan Medical University, Bulgaria, One month, 7 February 2016 to 9 March 2018
3. Mr Kardo Ala' Aldeen, School of Medicine, University of Manchester, Manchester, 3-14 April 2017

The department had observers and rotation postings from Department of Medicine, Pediatrics and Physiology.

CMEs/Workshops/Symposia/National and International Conferences

1. Ved and Prakash Monga Temporal Bone Dissection Competition for Association of Otolaryngologists of India, Delhi Branch on 25 March 2018 at AIIMS, New Delhi
2. AIIMS Rhinology and Endoscopic Sinus Surgery Cadaveric Workshop, 17-18 March 2018 at ACSST, Trauma Center, AIIMS, New Delhi
3. AIIMS Rhinoplasty and Facial Plastic Workshop, 17-18 February 2018 at ACSST, Trauma Center, AIIMS, New Delhi
4. Workshop on TransOral Endoscopic Ultra Sonic Surgery (TOUSS) in Head and Neck Tumors on 24-25 January 2018 at AIIMS, New Delhi
5. Sound4All workshop: Hearing Loss Detection: Status and Future Directions with Theme of Devices and Technology on 16 December 2018 at AIIMS, New Delhi
6. Fourth Head and Neck Cadaveric Hands on Workshop 16-17 November 2017 at ACSST AIIMS, New Delhi
7. Pre-Conference Workshop on Updates in Management of Head and Neck Cancer on 3-5 November 2017 at AIIMS, New Delhi
8. Clinical Monthly Meet, Association of Otolaryngologists of India, Delhi State Branch on 22 July 2017 at AIIMS, New Delhi
9. Third Head and Neck Cadaveric Hands on Workshop 16-17 July 2017 at ACSST AIIMS, New Delhi

Lectures delivered**S.C. Sharma**

1. Endoscopic approach to tracheo bronchial tumors, Clinical Meeting, 20 January 2018, AIIMS, New Delhi

Alok Thakar

1. Panelist—Multi Level Surgery for Sleep Apnoea, 5th National Conference of Indian Association of Surgeons for Sleep Apnoea (IASSOCON 2017), April 2017, Delhi
2. CO2 Laser Microsurgery for Supraglottic Cancers, 34th International Head-Neck Symposium —TransOral Robotic Surgery and TransOral Laser Microsurgery, 15-16 May 2017, Bengaluru
3. Current Treatment of Early Stage Glottic Cancers, 3rd North East Regional Head-Neck Conference, 3 June 2017, Guwahati
4. Moderator and Rapporteur, Robotic Neck Dissection, CME on Robotic Surgery: A New Dimension to Head-Neck Cancer Treatment, Max Hospital, 7 July 2017, Delhi
5. Management of Thyroid Cancer—Surgical and Post Surgical, Management of Cancer Thyroid—Paradigms and Challenges Artemis Hospital, 8 July 2017, Gurgaon
6. Dilemmas in Diagnosis and Initial Management of Thyroid Cancer, World Congress on Thyroid Cancer, Indian Sub-Continent Symposium, 27-30 July 2017, Boston
7. Moderator—Panel Discussion—Recurrent Head-Neck Cancer, National Symposium on Head-Neck Cancer, 5 August 2017, New Delhi
8. Controversial situations in Otolaryngology—Panelist, 7th ENT Conclave, 19 August 2017, New Delhi
9. Role of Contralateral Neck Dissection in Oral Cancers, Oncology Forum, Annual Symposium 2017, New Delhi, 2-3 September 2017
10. TLM for Supraglottic and Hypopharyngeal Cancer, FHNO 2017, Annual Conference of the Foundation for Head-Neck Oncology, 15-17 September 2017, Mumbai

11. Open Approaches in Juvenile Angiofibroma—When, Why and How, 3rd CEORLHNS Congress—Confederation of European Otorhinolaryngology and Head-Neck Surgery Societies, 7-11 October 2017, Barcelona
12. Rehabilitation of the paralysed face, ENTERACT—3rd Annual Congress of the Indian Academy of Otolaryngology and Head-Neck Surgery, 9-12 November 2017, Pune
13. Minimally Invasive Oncosurgery—The Concept and the Practice, Maharashtra State ENT Conference—MENTCON 2017, 17 December 2017, Mumbai
14. Moderator—Panel Discussion, PHONOCON 2018—Annual Conference of the Association of Phonosurgeons of India, 3 February 2018, Kochi
15. Differentiated Thyroid Cancer—New Guidelines, New Advances, FHNO North Regional CME and 10th Meerut Oncocon, IMA Hall, 18 February 2018, Meerut
16. Management of Paragangliomas, EBM 2018, 16th Annual Conference on Evidence Based Management of Cancers in India, 23-25 February 2018, Mumbai
17. Moderator—The modality of choice for commissure sparing T1/2 SCC Glottis, Larynx, A multidisciplinary approach; Multidisciplinary Cancer Symposium, 16-18 March 2018, Jalandhar

Rakesh Kumar

1. Talk and live demonstration of steps of parotidectomy, 3rd Cadaveric Head and Neck Dissection Course, 16-17 July 2017, CTRF Facility, AIIMS, New Delhi
2. Otoplasty—Patient assessment and partial and total pinna reconstruction, bone anchored auricular prosthesis and surgery for bat ears, My Rhinoplasty in unilateral cleft patients, Fifth International Rhinoplasty and Facial Plastic Surgery Workshop, 26-27 August 2017, Care Hospital, Hyderabad
3. Demonstrated the basic suturing technique and planning and using the local advancement flap demonstrated “facial liposuction and Fat transfer”, Fifth National Rhinoplasty and Facial Plastic Surgery Workshop, 29-31 August 2017, at MS Ramaiah College, Bengaluru
4. Demonstrated technique of rib cartilage harvesting and nasal dorsal augmentation, Fifth National Rhinoplasty and Facial Plastic Surgery Workshop, 29-31 August 2017, at MS Ramaiah College, Bengaluru
5. Demonstrated the otoplasty and technique of total pinna reconstruction using rib cartilage, Fifth National Rhinoplasty and Facial Plastic Surgery Workshop, 29-31 August 2017, at MS Ramaiah College, Bengaluru
6. Pre operative workup—Analysis of face, photography, 1st Annual Soft Cadaveric Course on Rhinoplasty, 9-10 September 2017, AIIMS, Jodhpur
7. Cadaveric demonstrations of technique of Rhinoplasty, 1st Annual Soft Cadaveric Course on Rhinoplasty, 9-10 September 2017, AIIMS, Jodhpur
8. Role of laser transoral microlaryngoscopy in early laryngeal carcinoma, Monthly Meet of ENT Surgeons of Jodhpur, 9 September 2017, Jodhpur
9. Instructional course on Microlaryngoscopy, at 6th Annual Conference of Laryngology and Voice Association, 23-24 September 2017, World Laryngology Summit 2017, Rajarajeshwari Medical College and Hospital, Bengaluru
10. Subglottic stenosis, at 6th Annual Conference of Laryngology and Voice Association, 23-24 September 2017, World Laryngology Summit 2017, Rajarajeshwari Medical College and Hospital, Bengaluru
11. Talk and video demonstration on Parotidectomy, 4th Cadaveric Head and Neck Dissection Course, 16-17 November 2017, CTRF Facility, AIIMS, New Delhi
12. Expert panel on sound all sound for all, Sound4All, 16 December 2017, AIIMS, New Delhi
13. Pre conf live demonstration of different techniques of stapedotomy, 37th Annual Conference of Neuro-Otological and Equilibrium Society of India, 1-4 January 2018, AIIMS, Jodhpur
14. Panelist—On how to investigate a case of vertigo crossfire on prelingual adult—I spoke against it, 37th Annual Conference of Neuro-Otological and Equilibrium Society of India, 1-4 January 2018, AIIMS, Jodhpur
15. Course coordinator and demonstration of Rhinoplasty and Facelift techniques, 3rd AIIMS Facial Plastics and Rhinoplasty Cadaveric Workshop, 17-18 February 2018, AIIMS Cadaveric Surgical Skills Training, JPNATC, AIIMS, New Delhi
16. Talk on role of laser in laryngotracheal stenosis, 3rd BLK Voice and Laser Workshop, 24 February 2018, BLK Hospital, New Delhi
17. Demonstration of FESS techniques, 1st Hands on FESS Cadaveric Course, 17-18 March 2018, ACSST Facility, AIIMS, New Delhi

Kapil Sikka

1. Cochlear implantation: Breaking the dilemma, Explore ENT, 7-9 April 2017, Agra
2. Panel discussion on complications, revisions and re-implantations, Annual Meeting of Middle East Academy of Otolaryngology, Head and Neck Surgery and Second World Congress on CI in Emerging Countries, 11-13 April 2017, Dubai, UAE
3. Intracochlear damage with CI electrodes: A temporal bone study, Annual Meeting of Middle East Academy of Otolaryngology, Head and Neck Surgery and Second World Congress on CI in Emerging Countries, 11-13 April 2017, Dubai, UAE
4. Course coordinator and video demonstration on total laryngectomy and radical neck dissection, 3rd Cadaveric Head and Neck Dissection Course, 16-17 July 2017, CTRF Facility, AIIMS, New Delhi
5. Case discussion: Infracochlear drainage of petrous apex cholesterol granuloma, Monthly Meeting of Association of Otolaryngologists of India Delhi Branch, 22 July 2017, AIIMS, New Delhi
6. Approach to deep lobe tumors of parotid, National Symposium on Head and Neck Cancers, 5 August 2017, U Chicago Center in Delhi
7. Care of the ear, Radio Interview—FM Rainbow Channel, 5 August 2017, Telephonic
8. Invited guest faculty and moderator, live surgery, Live Surgical Workshop on Sinuses and Beyond, 5 August 2017, Max Hospital, Saket, New Delhi
9. Decision making in invasive fungal sinusitis, Rhinocon 2017, 18-20 August 2017, Amritsar
10. Panel discussion on TORS versus chemoradiation in T2N1 Tonsillar Carcinoma, 3rd Max Debates in Oncology, 27 August 2017, New Delhi
11. Panel discussion on protocols and practices, 15th Annual Conference of Cochlear Implant Group of India, 2-4 November 2017, VUDA Children's Arena, Vizag, India
12. Panel discussion on Insights into management of recurrent head and neck cancer, Updates in Management of Head and Neck Cancer, Indian Society of Clinical Oncology, 3-5 November 2017, AIIMS, New Delhi
13. Candidacy for cochlear implants, Preconference Workshop "The Implant Surgeon" at the Enteract 2017, 9-12 November 2017, AFMC, Pune
14. Complications of cochlear implants, Symposium on Cochlear Implants at the Enteract 2017, 9-12 November 2017, AFMC, Pune
15. Malignant otitis externa, 26th Annual Conference of the Indian Society of Otolaryngology (ISOCON 2017), 17-19 November 2017, Raipur
16. Stridulous child, 6th ENT Update at Maulana Azad Medical College, 2-3 November 2017, MAMC, Delhi
17. Prevalence and incidence of hearing impairment: Need for early detection and intervention, Sound4All Workshop, 16 December 2017, AIIMS, Delhi
18. Vertigo evaluation, 70th Annual Conference of Association of Otolaryngologists of India (70th AOICON), 4-7 January 2018, Indore
19. Partial laryngectomy in recurrent laryngeal cancers, First National Workshop on Salvage Head and Neck Treatments, 16-18 March 2018, Patel Hospital, Jalandhar
20. Selecting optimum management of OSA—What is my role? AIIMS Pulmocrit 2018, 31 March-1 April 2018, AIIMS, New Delhi

Chirom Amit Singh

1. Indications and technique of mandibular of mandibular swing approach, Hand on Head and Neck Cadaver Dissection and Reconstruction Workshop, 12-14 October 2017, New Delhi
2. Approach to a patient of unknown primary with neck node, Update in the Management of Head and Neck Cancer, 3-5 November 2017, New Delhi
3. Basic surgical technique laryngectomy, AIIMS Head and Neck Hands on Dissection Workshop, 16-17 November 2017, New Delhi
4. Intricacies in corrective surgery for childhood deafness—Bridging gaps between cochlear implant and hearing aids, Sound 4 All 2017, 16 December 2017, New Delhi
5. Challenges in surgical laryngeal exposure and difficult airway, Forum V: Larynx and Hypopharynx: Multidisciplinary Perspective, 16-18 March 2018, Jalandhar, Punjab
6. How to prevent and manage complications of FESS? AIIMS Functional Endoscopic Sinus Surgery (FESS) Cadaveric Dissection Course, 17-18 March 2018, New Delhi
7. Microvascular reconstruction in Head and Neck Surgery, SMART ENT 2018, 24-25 March 2018, Bhubaneswar

Rajeev Kumar

1. Surgical technique of neck dissection, Third Head and Neck Cadaveric Workshop 2017, 16-17 July 2017, CTRF, JNPATC, AIIMS, New Delhi
2. Management of facial nerve in advanced parotid cancer, National Symposium on Head and Neck Cancer, 5 August 2017, Department of ENT, UCMS and GTB Hospital, New Delhi
3. Management of salivary gland tumours, UCMS Surgical Oncology Update 2017, 7-8 October 2017, UCMS and GTB Hospital, New Delhi
4. Moderator for demonstration of technique of total maxillectomy, Hand on Head-Neck Cadaver Dissection and Reconstruction Workshop, 12-14 October 2017, UCMS and GTB Hospital, New Delhi
5. Evaluation of head-neck cancer patient, Updates in Management of Head and Neck Cancer, 3-5 November 2017, AIIMS, New Delhi
6. Surgical technique of neck dissection, 4th Head and Neck Cadaveric Workshop 2017, 16-17 November 2017, CTRF, JNPATC, AIIMS, New Delhi
7. Insights in ossiculoplasty, 6th ENT Update 2017, 2-3 December 2017, Department of ENT, MAMC, New Delhi
8. Trans-oral surgical options in head and neck cancers (Panellist), TOUSS in Head-Neck Cancers, 24-25 January 2018, AIIMS, New Delhi
9. Vestibular migraine: An undetermined territory (Panellist), NES 2018, 37th Annual Conference of the Neurootological and Equilibriometric Society of India, 1-4 February 2018, AIIMS, Jodhpur
10. Moderated surgical session on “Endoscopic CSF rhinorrhoea repair”, FABFESS 2018, 9-10 February 2018, Department of ENT, Mangalore, Karnataka
11. Anatomical basis of loco-regional flaps, 3rd AIIMS Facial Plastics and Rhinoplasty Cadaveric Workshop, 17-18 February 2018, AIIMS Cadaveric Surgical Skills Training, JNPATC, AIIMS, New Delhi
12. Surgical demonstration of Karapanzic flap, 3rd AIIMS Facial Plastics and Rhinoplasty Cadaveric Workshop, 17-18 February 2018, AIIMS Cadaveric Surgical Skills Training, JNPATC, AIIMS, New Delhi
13. Surgical technique of endoscopic sphenopalatine artery ligation, 1st Hands-on FESS Cadaveric Workshop, 17-18 March 2018, AIIMS Cadaveric Surgical Training, JNPATC, AIIMS, New Delhi

Prem Sagar

1. Differentiated thyroid cancer: Current Relevant Guidelines, Third Head and Neck Cadaveric Workshop 2017, 16-17 July 2017, CTRF, JNPATC, AIIMS, New Delhi
2. Total nasal reconstruction, AOI Delhi Branch Monthly Clinical Meet, 22 July 2017, AIIMS, New Delhi
3. Differentiated thyroid cancer: Tips in difficult diagnostic and therapeutic situations, Third Head and Neck Cadaveric Workshop 2017, 16-17 November 2017, CTRF, JNPATC, AIIMS, New Delhi
4. Evaluation of co-morbidities in children with special needs: Hearing loss, GDBPCON 2017, 16th National Conference of Growth Development and Behavioural Paediatrics Chapter of Indian Academy of Paediatrics, Organized by LHMC, New Delhi, 2-3 December 2017, NDMC Convention Centre, Palika Kendra, New Delhi
5. Intractable Meniere’s Disease Management; Surgical prospective, NES 2018, 37th Annual Conference of the Neurootological and Equilibriometric Society of India, 1-4 February 2018, AIIMS, Jodhpur
6. Surgical demonstration on tip-plasty, 3rd AIIMS Facial Plastics and Rhinoplasty Cadaveric Workshop, 17-18 February 2018, AIIMS Cadaveric Surgical Skills Training, JNPATC, AIIMS, New Delhi
7. Suturing techniques, 3rd AIIMS Facial Plastics and Rhinoplasty Cadaveric Workshop, 17-18 February 2018, AIIMS Cadaveric Surgical Skills Training, JNPATC, AIIMS, New Delhi
8. Surgical technique of endoscopic optic nerve decompression, 1st Hands-on FESS Cadaveric Workshop, 17-18 March 2018, AIIMS Cadaveric Surgical Skills Training, JNPATC, AIIMS, New Delhi

David Victor Kumar

1. Trans mastoid and labyrinthine approach to acoustic neuroma, Cadaveric Hands on Dissection Course in Skull Base Surgery—Organized by Department of Neurosurgery, AIIMS, from 29-30 July 2017, New Delhi
2. Demonstrated trans labyrinthine approach to CPA on cadaver, cadaveric hands on dissection course in Skull Base Surgery—Organized by Department of Neurosurgery, AIIMS, from 29-30 July 2017, New Delhi
3. Demonstrated open rhinoplasty techniques and how to perform osteotomies on cadaver, 3rd AIIMS Facial Plastics and Rhinoplasty Cadaveric, Organized by Department of ENT and HNS, AIIMS, from 17-18 February 2018, New Delhi
4. Basic surgical technique: Uncinectomy and MMA, in 1st AIIMS Basics in FESS Cadaveric Course, Organized by Department of ENT and HNS, AIIMS, 17-18 March 2018, New Delhi

Hitesh Verma

1. Application of laser in ENT, Head and Neck Dissection Course, 17-18 April 2017, AIIMS, RAIPUR
2. Judge surgical demonstration, Head and Neck Dissection Course, 17-18 April 2017, AIIMS, RAIPUR
3. Live surgery moderation-FESS, Advanced ENT Surgical Update 2017, 21-23 April 2017, PGIMER, Chandigarh
4. Surgical quiz judge, Head and Neck Dissection Course, 17-18 April 2017, AIIMS, Raipur
5. Choosing right neck operation, 3rd Cadaveric Head and Neck Dissection Course, 16-17 July 2017, CTRF Facility Trauma Center, AIIMS, New Delhi
6. Laser cordectomy, Delhi AOI Monthly Meet, 23 August 2017, AIIMS, New Delhi
7. Surgical approaches to oral cavity, National Symposium of Recent Advances in Oncology and Master Video Workshop, 7 October 2017, UCMS, New Delhi
8. Anatomy and surgical approaches to infratemporal fossa, Head and Neck Cadaveric Dissection Course, 12-14 October 2017, UCMS, New Delhi
9. Judge resident quiz, Updates in Management of Head and Neck Cancer, 3-5 November 2017, AIIMS, New Delhi
10. Evaluation of head and neck and NBI instructional course, Updates in Management of Head and Neck Cancer, 3-5 November 2017, ENT, AIIMS, New Delhi
11. Is preserving the posterior canal wall in advanced cholesteatoma a good idea-favor, ENTERACT 2017, 9-12 November 2017, AFMC, Pune
12. When to do what: Neck dissection, 4th Cadaveric Head and Neck Dissection Course, 16-17 November 2017, CTRF Facility Trauma Center, AIIMS, New Delhi
13. Judge “treatment and solutions” session, Sound for All, 16 December 2017, AIIMS, New Delhi
14. Rhinoplasty: Anatomy basic, 1st Rhinoplasty Workshop, 17-18 February, CTRF Facility Trauma Center, AIIMS, New Delhi
15. Vertigo, Sharda Charitable Trust, 12 February 2018, New Delhi
16. CSF rhinorrhea Surgical steps, 1st Rhinology Workshop, Cadaveric Head and Neck Dissection Course, 17-18 March 2018, CTRF Facility Trauma Center AIIMS, New Delhi
17. CSF rhinorrhoea, Udaipur ENT Society, 24 March 2017, Partani Hospital, Udaipur
18. Live surgery demonstration, Udaipur ENT Society, 24 March 2017, Partani Hospital, Udaipur
19. Demonstrator, 1st Temporal Bone Workshop, 17 March 2018, GMC, Patiala

Shuchita Singh

1. Parotidectomy, 3rd Cadaveric Head and Neck Dissection Course, 16-17 July 2017, CTRF, Trauma Center, AIIMS, New Delhi
2. Parotidectomy, 4th Cadaveric Head and Neck Dissection Course, 16-17 November 2017, CTRF, Trauma Center, AIIMS, New Delhi
3. Cochlear implant—The ultimate cure, SOUND 4 ALL 2017, 16 December 2017, AIIMS, New Delhi
4. Pre-operative work-up of a patient for Rhinoplasty, 3rd AIIMS Facial Plastics and Rhinoplasty Workshop, 17-18 February 2018, CTRF, Trauma Center, AIIMS, New Delhi
5. Surgical anatomy of sphenoid sinus, 1st AIIMS FESS Cadaveric Workshop, 16-17 March 2018, CTRF, Trauma Center, AIIMS, New Delhi
6. ENT manifestations in children with Down’s Syndrome, National Conference on Down’s Syndrome, 26 March 2018, Chanakyapuri, New Delhi
7. ENT evaluation in Down’s Syndrome, National Conference on Down’s Syndrome, 26 May 2018 Chanakyapuri, New Delhi

Arvind Kumar Kairo

1. Melkerson rosenthal syndrome, AOI Delhi Branch Monthly Clinical Meet, 22 July 2017, AIIMS, New Delhi
2. Adult hearing loss: The changing paradigms in a “Noisy” world, Sound4All Workshop, 16 December 2017, AIIMS, New Delhi
3. Photography in facial plastic surgery, 3rd AIIMS Facial Plastics and Rhinoplasty Cadaveric Workshop, 17-18 February 2018, AIIMS Cadaveric Surgical Skills Training, JPNATC, AIIMS, New Delhi
4. Preparation for FESS preoperative and intraoperative, 1st Hands-On FESS Cadaveric Workshop, 17-18 March 2018, AIIMS Cadaveric Surgical Skills Training, JPNATC, AIIMS, New Delhi

Oral papers/posters presented

1. Panda S, Sharma SC, Thakar A. Transoral robotic surgery—A 6 years single institution experience of 100 procedures, robotic surgeons Council of India Meeting, Goa, 18-19 November 2017
2. Ashwin, Amit, Sharma SC. Bhinyaram. Quality of life post free flap reconstruction in head and neck malignancy, FHNO 2017, 25 September 2017
3. Ashwin C. Role of PNI and LVE as prognostic markers of T4a gingivobuccal cancer, FHNO 2017, 25 September 2017
4. Kanodia A, Pirabhu, Hitesh, Ashwin. Complications in head and neck surgery: A tertiary center experience, FHNO 2017, 25 September 2017
5. Verma H, Thakar A. Lid loading for facial rehabilitation, ENTERACT 2017, 9-12 November 2017
6. Sikka K, Thakar A*. Partial laryngectomy in radio recurrent laryngeal cancers, First National Workshop on Salvage Head and Neck Treatments, 16-18 March 2018 (**Best paper award**)
7. Kumar R, Panda S, Chenon A, Sagar P. Comparative study evaluating survival of advanced gingiva-buccal complex cancers patients with regard to skin versus mandible involvement, IA00-2017 6th World Congress of International Academy of Oral Oncology, 17-20 May 2017
8. Kumar R, Kumar R. Endoscopic trans-sphenoidal drainage of petrous apex mucocele, RHINOCON 2017, 18-20 August 2017
9. Kumar R. Orbital complications secondary to acute sinusitis: Comparative study between paediatric and adult patients, FABFESS 2018, 9 and 10 February 2018
10. Sagar P, Kumar R. Total nasal reconstruction following rhinectomy, RHINOCON 2017, Amritsar, Punjab, 18-20 August 2017

RESEARCH

Funded projects

Ongoing

1. Studies on P13K/AKT signaling and anti-tumour effects of its targeted disruption in oral cancer, S.C. Sharma, DST, 3.5 years, 2014-2018, Rs 55 lakhs (approx.)
2. To elucidate the functional relevance of Sin3B mRNA alternate splicing in pathogenesis of oral squamous cell carcinoma (OSCC), S.C. Sharma, Science and Engineering Research Board (SERB), 2 years, 2017-2019, Rs 3.55 lakhs
3. Development of indocyanine green loaded cytokeratin targeted calcium phosphate nanoparticulate system for sentinel lymph node mapping in head and neck cancer, Alok Thakar, DBT, 3 years, 2015-2018, Rs 38 lakhs (approx.)
4. Prevalence and etiology of hearing impairment—National Task Force Project (Coordinating Centre), Alok Thakar, ICMR, 4 years, 2015-2019, Rs 97 lakhs (approx.)
5. Prevalence of human papilloma virus in head-neck squamous cell carcinoma (AIIMS Site), Alok Thakar, Head Neck Co-operative Oncology Group (HNCOG), 3 years, 2015-ongoing,
6. Effects of non-ionizing electromagnetic field on human health: Effects on auditory and vestibular system, Rakesh Kumar, ICMR, 3.5 years (extended), 2012-ongoing, Rs 90 lakhs
7. Sound4All: Re-engineering high-end audiometric devices for robust and affordable audiological testing, Kapil Sikka, Indo German Science and Technology Center (IGSTC), 3 years, 2016-2019, Rs 36.8 lakhs
8. Anatomical variations of round window niche in human cadaveric temporal bones and its relevance to cochlear implant electrodes insertion, Rajeev Kumar, AIIMS, 1 year, 2015-2016, Rs 3.5 lakhs
9. Evaluation of level of vascular endothelial growth factor—In Cases of Recurrent Respiratory Papillomatosis, Hitesh Verma, AIIMS, 2 years, 2016-2018, Rs 4.7 lakhs
10. Clinical and biochemical evaluation for depression in patients with recently diagnosed head and neck cancer, Prem Sagar, AIIMS, 2 years, 2016-2018, Rs 8 lakhs
11. Salivary micro-RNA: Their utility as bio-marker during molecular changes in tobacco users vs tobacco non-users, Shuchita Singh, AIIMS, 2 years, 2016-2018, Rs 10 lakhs
12. Study and Morpho metric analysis of temporal bone by Micro dissection, David Victor Kumar, AIIMS, 1 year, 2017-2018, Rs 1.85 lakhs
13. Pilot comparative study on expressional level difference of ‘psoriasin’ between different squamous ear diseases in patients undergoing mastoid surgeries

14. A pilot comparative study on expressional level difference of 'psoriasis' between different squamous ear diseases in patients undergoing mastoid surgeries, Arvind Kumar Kairo, AIIMS, 1 year, 2016-2017, Rs 5 lakhs

Departmental projects

Ongoing

1. Prospective evaluation of unknown head and neck primaries metastatic to cervical lymph nodes
2. Assessment of depth of invasion in oral cavity squamous cell carcinoma (T1-T3) by clinical palpation and radiology and their correlation to histopathological depth of invasion
3. Study of microvascular density and tumour associated macrophages in oral squamous cell carcinoma
4. A prospective study to explore patterns of nicotine dependence in newly diagnosed cases of head and neck squamous cell carcinoma and evaluate its association with perioperative complications
5. Outcome in patients undergoing surgical correction of microtia
6. Evaluation of various clinical and immunological parameters in predicting the outcomes of sinonasal and skull base invasive fungal diseases: A descriptive study
7. A pilot study on the causal relationship of gastroesophageal reflux and obstructive adenoid or adenotonsillar hypertrophy in paediatric population
8. SDH-X mutation in head and neck paragangliomas: A clinicopathological study
9. Effect of short term endotracheal intubation on laryngeal function
10. Clinicoradiological correlation of severity of disease with Vitamin D and immune markers in cases of allergic rhinitis and nasal polyposis
11. Prospective pilot study to evaluate the incidence of lymphnode metastasis in olfactory neuroblastoma
12. EMG findings in dysphonia due to laryngopharyngeal reflex disease and correlation with treatment outcome: An observational study
13. To correlate functional near infrared spectroscopy measurement of auditory cortex activation with auditory verbal outcome in prelingual profound sensorineural hearing loss patients after cochlear implantation
14. Assessment of clinical profile in patients of Menieres Disease and Vestibular Migraine
15. Exploration of first echelon lymph node drainage of squamous cell carcinoma of tonsil with reference to lateral retropharyngeal lymph node of rouviere
16. Allogenic tissue engineered tracheal transplantation in wistar rats—Preclinical study
17. Role of 68 gapsmahbed cc scan in patients with juvenile nasal angiofibroma S
18. Assessment of host immunological tumour response by histochemistry in cancer oral cavity and its impact on prognosis—Retrospective cohort study
19. To evaluate the role of transnasal esophageal endoscopy for detection of synchronous esophageal neoplasm in head and neck cancer patients

Completed

1. Comparison of effect of embolisation on resection on Juvenile Nasopharyngeal Angiofibroma
2. Detection and quantification of circulating tumor cells in peripheral blood of patients with oral cavity squamous cell carcinoma
3. Immunohistochemical and surgical outcomes of oral submucous fibrosis
4. EGFR evaluation in cholesteatoma sac in different types of pneumatization of temporal bones
5. Study of pediatric tracheostomy and its effect on patients and care givers
6. Comparison between the canal wall down mastoidectomy with obliteration and without obliteration

Collaborative projects

Ongoing

1. Studies on P13K/AKT signaling and anti-tumour effects of its targeted disruption in oral cancer, Biotechnology
2. Interdisciplinary variations in the spectrum of oral mucosal lesions, Dermatology
3. Pilot study on comparison of efficacy and usability of indigenous handheld suction assembly for pediatric tracheostomised patients with the existing suction devices, Pediatrics
4. Developing suctioning machine for cleaning tracheostomy tubes, IIT Delhi

5. Cleft lip and palate anomaly in India: Clinical profile risk factors and current status of treatment: A hospital based study, Centre for Dental Education and Research
6. Serum Zinc levels in Indian population with chronic idiopathic tinnitus, Pharmacology
7. A longitudinal survey to assess patient satisfaction for nurse initiated follow up tele-consultation among patients discharged from a selected tertiary care hospital, Nursing Department
8. Phenotypic and genotypic characterization of Non-Typeable Haemophilus Influenzae (NTHi) from North India, Microbiology

PUBLICATIONS

Journals: 29 Abstracts: 3 Chapters in Books: 8

PATIENT CARE

Apart from OPD, Operation theatre and minor OT services, the department runs a rehabilitation unit of audiology and speech pathology and specialty clinics in Audiology and skull base with cochlear implant, rhinology, vertigo, voice and swallowing, and twice a week Head and neck cancer clinic. Department also provides rural services at CRHSP Ballabgarh and Outreach OPD, Jhajjar. The statistics are as follows:

Number of patient operated

Main OT Major cases: 2633 Minor cases: 2185
Minor OT OPD procedures: 22,757

Number of patient seen in OPD

New patients: 49,498 Old registration: 68,659

Number of patients seen in RUAS

New Patients: 4294 Old registrations: 3521

Number of inpatient admissions: 1628 (in ENT ward); 5702 (Total ENT admissions)

Specialty Clinics

S. No.	Clinic	New Cases	Old Cases	Total
1.	Vertigo	180	316	496
2.	Audiology and Skull Base	184	116	300
3.	Cochlear Implant	310	308	618
4.	Voice	436	253	689
5.	Rhinology	262	59	311
6.	Head and Neck Cancer	1448	4566	6014
7.	Radiology Conference	999	–	999

Community service clinics

- Twice weekly clinics in community hospital in Ballabgarh with once a week operating facilities
- Weekly clinics in primary health centre in Gurgaon
- Weekly clinics in community hospital in IIT Delhi
- The department is providing daily OPD services at outreach OPD Jhajjar

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor S.C. Sharma was Fellow (Member of University Senate), Panjab University, Chandigarh; Member, Institute Body, Standing Purchase Committee and Standing Estate Committee of PGIMER, Chandigarh; Chairman, HR Sub-Committee of PGIMER, Chandigarh; Honorary Advisor (Deafness), under the National Programme for Prevention and Control of Deafness (NPPCD) in the Ministry of Health and Family Welfare, Government of India, New Delhi; Member, Technical Steering Committee, National Programme for Prevention and Control of Deafness (NPPCD) in the Ministry of Health and Family Welfare, Government of India, New Delhi; Member, Authorization Committee under the Transplantation of Human Organs Act, 1994, AIIMS, New Delhi; Subject Expert Committee for Sleep Disorders, cognitive dysfunction and ENT projects under the programme entitled “Possible Impact of EMF Radiation Exposure from Mobile Towers and Handsets on Life and related R&D initiatives”, Science and Engineering Research Board, Government of India, Vasant Kunj, New Delhi; Chairman, ‘Ear, Nose and Throat Surgery Instruments’ Sectional Committee of Bureau of Indian Standards (MHD04); Dr J.P. Nigam Memorial Oration, Hands-on Workshop on Head and Neck Surgery, 7-8 April 2017, AIIMS,

Raipur, Chattisgarh; Chaired Session on 'Management of unusual situation of cancer of Head and Neck', FHNO-2017, 15-17 September 2017, Tata Memorial Hospital, Mumbai.

Professor Alok Thakar was Honorary Consultant, Armed Forces Medical Services (2015-2018); Nominated "Best Head-Neck Oncosurgeon" at the Indian Health Professional Awards 2017; Dr Joe V Desa Oration (2017), Mumbai, Maharashtra Branch of Association of Otolaryngologists of India; NES Guest Oration (2017), Neuro-otological and Equilibriometric Society of India; Professor Naresh Bhatia Oration (2017), Lucknow Branch of Association of Otolaryngologists of India; Plenary Guest Lecture (2017), Indian Academy of Otolaryngology and Head-Neck Surgery, AFMC, Pune; Nominated to Board of Studies, Department of Otorhinolaryngology, Faculty of Health Sciences, Manipal University 2017; Executive Member, Asia Pacific Society of Thyroid Surgeons (2015-2019); World Congress on Thyroid Cancer, Boston, USA, 2017; 4th Congress of Confederation of European Otolaryngology and Head-Neck Surgery (CEORLHNS), Barcelona, 2017; Asian Society of Head Neck Oncology (ASHNO), Bali, Indonesia, 2017; Executive Committee Member, Asia Pacific Society of Thyroid Surgery (2015-2019); Honorary Vice President, Otorhinolaryngologic Research Society of AIIMS (ORSA), 2011-2017.

Professor Rakesh Kumar was Honorary President of Neurologic and Equilibriometric Society of India for 2017-2018; Member 'Ear, Nose and Throat Surgery Instruments' Sectional Committee of Bureau of Indian Standards (MHD04); Visiting faculty at IGMS Patna for Cochlear Implant; Chaired a session on special issues in head and neck cancer, Updates in Management of Head and Neck Cancer, Indian Society of Clinical Oncology, 3-5 November 2017, AIIMS, New Delhi; Chaired, The resident quiz, Annual Conference of AOI (Delhi), from 4-5 March 2018, Delhi; Chaired a session on treatment and solution for hearing loss, Sound4All, 16 December 2017, AIIMS, New Delhi.

Dr Kapil Sikka was Editorial Board Member and Assistant Editor, Indian Journal of Otolaryngology; Reviewer, Indian Journal of Otolaryngology, Indian Journal of Otolaryngology, Head and Neck Surgery, Indian Journal of Pediatrics; Joint Secretary, Association of Otolaryngologists of India, Delhi State Branch; Members of the EPTB (Extra Pulmonary tubercular guidelines) Guidelines Core Group for drafting 'INDEX TB Guidelines; Conducted Sound4All workshop for second consecutive year; Honorary Treasurer, Otorhinolaryngologic Research Society of AIIMS (ORSA), 2017-; Chaired a Panel Discussion on "Improving Outcomes in FESS", 4th Annual Conference of Indian Academy of Otolaryngology Head and Neck Surgery, 9-12 November 2017, AFMC, Pune.

Dr Chirom Amit Singh was Co Chairman, Facial Plastics and Rhinoplasty Cadaveric Workshop, February 2018.

Dr Prem Sagar won Gold Medal for the best poster (Total Nasal Reconstruction following Rhinectomy) in Dr Anoop Raj Poster Session in RHINOCON 2017, 30th Annual Conference of All India Rhinology Society from 18-20 August 2017 at Amritsar; Life member of the Association of Otolaryngologists of India, Delhi State Branch; Member of the panel on ENT Surgery Instruments Sectional Committee, MHD 04 by Bureau of Indian Standards.

Dr Arvind Kairo was life member of (i) Association of Otolaryngologists of India, Delhi State Branch, (ii) Association of Phonosurgeons of India, (iii) Indian Society of Otolaryngology, (iv) International Federation of Head and Neck Oncological Societies (IFHNOS); Member, Panel on ENT Surgery Instruments Sectional Committee, MHD 04 by Bureau of Indian Standards; Member, EPTB (Extra Pulmonary tubercular guidelines) Guidelines Core Group for drafting 'INDEX TB Guidelines; Course coordinator, 3rd AIIMS Facial Plastics and Rhinoplasty Cadaveric Workshop, AIIMS Cadaveric Surgical Skills Training, JPNATC, AIIMS, New Delhi.

Dr Hitesh Verma was member, Editorial Board, International Research Journal of India; Reviewer for Journal of Clinical and Diagnostic Research.

VISITING SCIENTIST

1. Dr Guri Sandhu, Imperial College, London delivered a talk on Laryngotracheal stenosis, 3 May 2017
2. Dr Michael Strupp, Germany, Delivered a talk on Evaluation and management of common vestibular disorders, 6 May 2017
3. Mr Mario Fernandez was guest faculty for demonstration and discussion on first TOUSS workshop.

9.27. Paediatrics

Professor and Head

Ashok K. Deorari (Neonatology)

Professors

Vinod K. Paul (On deputation to NITI
Ayog) (Neonatology)

Arvind Bagga
(Nephrology)

Pankaj Hari
(Nephrology)

Rachna Seth
(Oncology)

Sushil K. Kabra
(Pulmonology, Intensive Care, Tuberculosis)

Sheffali Gulati
(Neurology)

Vandana Jain
(Endocrinology)

Madhulika Kabra
(Genetics)

Rakesh Lodha
(Pulmonology, Intensive Care,
Tuberculosis)

Ramesh K. Agarwal
(Neonatology)

Assistant Professors

Neerja Gupta
(Genetics)
Biswaroop Chakrabarty
(Neurology)

Rajni Sharma
(Endocrinology)
Rohan Malik
(Gastroenterology)
Aditya Kumar Gupta
(Oncology)

Jeeva Sankar
(Neonatology)

Kana Ram Jat

Anu Sachdeva
(Neonatology)
Jagdish Prasad Meena
(Oncology)

Aditi Sinha
(Nephrology)
Jhuma Sankar
(Pulmonology, Intensive Care,
Tuberculosis)

Prashant Kumar Jauhari
(Neurology)

Narendra Kumar Bagri
(Rheumatology)
Ankit Verma (Contract)
(Neonatology)

Scientists

Madhumita Roy Chowdhary
Rashmi Shukla

G.P. Das (Medical)
Amita

Kajal Jain
Pallavi Mishra (Biochemist)

Other Staff

Anuja Agarwala (Dietician)

Dhaneshwar Yadav

Sumita Gupta (Senior
Physiotherapist)

Neena Mehta

(Medical Social Service Officer)

HIGHLIGHTS

The Pediatrics Department started a new DM Program in Pediatrics Medical Oncology. We now have a total of six DM Courses, the only Department at AIIMS with this distinction.

Gastroenterology and Hepatology

One live related donor liver transplant was performed for the first time at AIIMS.

Genetics

National Initiative for Rare Diseases (NIRD) was conceptualized which is a partnership of AIIMS (All India Institute of Medical Sciences), ICMR (Indian Council of Medical Research), PRESIDE (Pediatric Research and Education Society of India) and JNU (Jawaharlal Nehru University) supported by leading institutes of India. A meeting of all stakeholders was organized on 26 and 27 April 2017 and the key highlight of the event was launch of Indian Registry on Rare Disease by Dr Soumya Swaminathan, DG ICMR. The Division of Genetics and Neonatology are running the birth defects surveillance program and WHO SEARO birth defects database.

Neonatology

1. National ethical guidelines for research involving children developed by Division of Neonatology, as part of ICMR Centre of Advanced Research was launched by Honorable Minister of Health and Family Welfare Shri JP Nadda and Minister of State Ministry of Health and Family Welfare Smt Anupriya Patel on the 12 October 2017.
2. WHO-CC, AIIMS has been engaged in WHO supported research and activities in the SEAR region pertaining to quality improvement. The division is partnering with PGI and GMCH, Chandigarh, and Public Health Foundation of India to improve the quality of care of preterm neonates being treated in Special Newborn Care Units (SNCU) in 4 states of the country. The major objective of this activity is to reduce the incidence of Retinopathy of Prematurity (ROP) in preterm neonates by implementing evidence based practices. The work is funded by Queen Elizabeth Diamond Jubilee Trust, UK.
3. The department continued to be the prime mover for Quality Improvement Program for various other departments at AIIMS. WHO-CC supported by UNICEF, UNFPA, USAID and WHO disseminates QI to organizations through its on-line resources, face-to-face workshops and the Point of Care Continuous Quality Improvement (POCQI) Module. A dedicated website (<http://aiimspi.org/>) on quality improvement provides free resources for teaching and learning QI, and as a platform for capacity building of teams and sharing QI work. Many SEARO (South East Asian Regional Organization) countries have initiated QI work in their areas. We have also facilitated many workshops for improving quality of hospital care for maternal and newborn health in India for all six AIIMS and centres of excellence in the country.
4. The department conducted workshop for AIIMS and all six AIIMS faculty on “Role of Leadership and capacity building on Quality Improvement” at Director’s Board Room, AIIMS, New Delhi, 27-28 March 2018 attended by State NHM Teams, Ministry of Health and UNICEF Partners.
5. The Neonatology Division is using e-Learning for disseminating evidence based practices on newborn health for healthcare professionals. Currently, three e-Learning courses are being offered (www.ontop-in.org): Sick newborn care, newborn nursing and CPAP. The next in pipeline is the preterm baby care package which deals in evidence based management of the preterm infant.

Nephrology

1. The division was recognized by the Indian Council of Medical Research (ICMR) as ICMR Advanced Center for Research in Nephrology in April 2017
2. The Asian Journal of Pediatric Nephrology was launched in March 2018 with Professor Arvind Bagga as its inaugural editor (www.ajpn-online.org)

Neurology

Division of Pediatric Neurology got recognized as ‘Centre for Advanced Research and Excellence for Childhood Neurodevelopmental Disorders’ from October 2017. This is being funded by AIIMS grant in aid (supported by Ministry of Health and Family Welfare) and India Infrastructure Finance Company Limited (IIFCL) as a part of its Corporate Social Responsibility (CSR). It has 11 projects and the following envisioned thrust areas:

- a) Development of a national registry for childhood neurodevelopmental disorders
- b) National Knowledge and Training Center for childhood neurodevelopmental disorders
- c) Childhood neurodevelopmental disorders: Advanced diagnostics
- d) Childhood neurodevelopmental disorders: Advanced therapeutics/rehabilitation
- e) Establishment of Child Neurology Helpline and Teleconsultation Services

Faculty and residents from Divisions of Intensive Care, Neurology and Nephrology provided coordinated support for craniophagus twins who underwent separation in Department of Neurosurgery.

Oncology

Hematopoietic Stem Cell Transplant (HSCT) Program at Division of Pediatric Oncology: First autologous HSCT was performed on 30 August 2017.

EDUCATION

The department is running 5 DM Courses in Neonatology, Nephrology, Neurology, Genetics and Pulmonology and Intensive Care; the sixth in Pediatric Medical Oncology will start in the coming semester. A vibrant PhD program is ongoing.

MD Program: An MD Program involving a total of 37 students is ongoing. There are regular teaching sessions and a system of ongoing internal assessment. New flip class teaching once a month has been introduced for faculty.

DM Program: All the divisions have regular structured teaching activities 3-5 times a week. We have incorporated interdisciplinary and interdepartmental teaching in the form of integrated seminars and case discussions, which is relevant

to the context with issues being identified based on a case. Regular small workshops and interactive case discussions involving residents and faculty are being held.

MBBS Teaching

1. Departmental faculty is involved in bedside teaching of MBBS students during their posting in Pediatrics (OPD and Wards) along with lectures and integrated seminars.
2. We organised a workshop for seventh semester students on standard treatment protocols for management of sick neonates using wall charts, simulators, tablets, case studies and quality improvement using posters. Simulation based learning on neonatal resuscitation was organised for sixth semester.

Nurses Teaching

Online courses for nurses/paediatricians

The online education platform of the Division of Neonatology works in collaboration with neonatologists from different institutions of India and SEAR region. This platform hosts 'Sick newborn care course for 3 months; newborn nursing and quality improvement course for 10 weeks and CPAP course for 8 weeks. This platform trained about 420 doctors and 180 nurses (2017-18) from different countries in the SEAR in sick newborn care, CPAP, and essential newborn care.

The faculty of department is actively involved in teaching of MSc Nursing (Pediatrics).

Inter-departmental collaboration: The department provides training for DM students from various departments including: Infectious Diseases (Department of Medicine), Intensive Care (Department of Anesthesiology), Neurology and Cardiac Anesthesiology.

The department conducted special bi-annual symposia on Nutrition and Emergency Care for Children for all the residents and faculty.

Short term trainees: A total of 100 trainees visited various divisions.

Genetics

1. Dr Anita Nangia, 1-31 March 2017, 1 month, Cytogenetic, Lady Hardinge Medical College and Smt. S.K. Hospital, New Delhi
2. Harshit Jaggi, 23 February 2017 to 22 May 2017, 3 months, Molecular, Department of Biotechnology, Agra College, Agra
3. Dr Aroonima Misra, 1 November 2017 to 31 January 2018, 3 months, Cytogenetic, National Institute of Pathology, ICMR, Safdarjung Hospital Campus, New Delhi
4. Dr Ravi Kumar, 28 November 2017 to 27 May 2018, 6 months, Molecular, CGHS (HQ), MOHFW, Nirman Bhawan, New Delhi
5. Dr Asmita M. Rathore, 10-25 January 2018, 16 days, Genetic OPD, Maulana Azad Medical College, Bahadur Shah Zafar Marg, New Delhi
6. Dr Preeti Tripathi, Haematology, AIIMS, 9-16 May 2017
7. Dr Krithka K.V., Haematology, AIIMS, 21-31 March 2018
8. Dr Sumita Das Gupta, Foetal Medicine, Obstetrics and Gynaecology, AIIMS, 15 February 2018-14 March 2018
9. Dr Priyanka Mishra, Haematology, AIIMS, 20-28 February 2018
10. Dr Diravyaseelan, Biochemistry, AIIMS, 12-21 February 2018
11. Dr Surabhi Garg, Biochemistry, AIIMS, 12-21 February 2018
12. Dr Gaurav Baidya, Biochemistry, AIIMS, 12-21 February 2018
13. Dr Nidhi Thakur, Biochemistry, AIIMS, 12-21 February 2018
14. Dr Jasmeen Gupta, Biochemistry, AIIMS, 12-21 February 2018
15. Dr Ritika Bajaj, Foetal Medicine, Obstetrics and Gynaecology, AIIMS, 15 January 2018-14 February 2018
16. Dr Chowdari Pavani, Laboratory Medicine, AIIMS, 1-31 December 2017
17. Dr Umesh Kumar Tiwari, Laboratory Medicine, 1-30 November 2017
18. Dr Astha Gupta, Haematology, AIIMS, 11-20 July 2017
19. Dr Richa Chauhan, Haematology, AIIMS, 11-20 July 2017

Paediatric Pulmonology

1. Dr PKG Gunathilaka, Long term trainee, 2015-17, Supported by Government of Sri Lanka
2. Dr SSC de Silva, Long term trainee, February 2016-August 2017, Supported by Government of Sri Lanka

3. Dr Hema Mittal, Short term trainee, November 2017 to January 2018, RML Hospital, New Delhi
4. Dr Shakibur Rehman, Short term trainee, January-March 2018, Dhaka, Bangladesh, Supported by Government of Bangladesh
5. Dr Satnam Kaur, Short term trainee, February-July 2018, Safdarjung Hospital, New Delhi
6. Dr Shalu Gupta, 31 July-12 August 2017, DM fellow, Paediatric Critical Care, PGIMER, Chandigarh
7. Dr Ankit, December 2017, Department of Medicine (DM Infectious Diseases), AIIMS
8. Dr Ankita Bidya, May-June 2017, Department of Medicine (DM Infectious Diseases), AIIMS
9. Dr Ayan Basu, January 2018, Department of Medicine (DM Infectious Diseases), AIIMS
10. Dr Jatin Ahuja, March 2018, Department of Medicine (DM Infectious Diseases), AIIMS
11. Dr Wasim Khot, May 2017, Department of Medicine (DM Infectious Diseases), AIIMS
12. Dr Nitin Gupta, March-April 2017, Department of Medicine (DM Infectious Diseases), AIIMS

Neonatology

1. Dr Aroonima Mishra, India, 12 October 2017, 12 January 2018
2. Dr Arpita Gogoi, India, 05 July 2017, 31 October 2017
3. Dr Asmita M Rathore, India, 10-25 January 2018
4. Dr Bijay Laxmi Behra, India, 19- 25 March 2018
5. Dr Brajesh Kumar Jha, India, 12-18 March 2018
6. Dr Ch. Suguna Reddy, India, 1-30 April 2017
7. Dr Chaneac Livia, France, 10-21 July 2017
8. Dr Dinesh Pradhan, Bhutan, 8-30 March 2018
9. Dr Harsheen Kaur, India, 29 November 2017, 15 December 2017
10. Dr Harshit Jaggi, India, 23 February 2017, 22 May 2017
11. Dr Hema Gupta, India, 1 November 2017, 31 January 2018
12. Dr Herath Mudiyanse Aruna Dhammika Herath, Sri Lanka, 5 April 2018, 4 April 2019
13. Dr Jasintha Sabanadesan, Sri Lanka, 1 January 2018, 31 December 2019
14. Dr Jimba Jatsho, Bhutan, 1-30 June 2017
15. Dr Kalpana Chhetri, Bhutan, 1-30 June 2017
16. Dr Kethuja Sivapalan (Sweden), India, 28 August 2017, 24 September 2017
17. Dr Khurshid Ahmd Wani, India, 4 October 2017, 31 January 2018
18. Dr Kriti, India, 20 May 2017, 19 July 2017
19. Dr Kyong Hui Choe, Korea, 23 January 2017, 17 March 2017
20. Dr Md. Shakibur Rahman, Bangladesh, 1-31 January 2018
21. Dr Meenakshi Gupta, India, 1-31 October 2017
22. Dr PKG Gunathilaka, India, 7 December 2015, 6 December 2017
23. Dr Probir Kumar Sarkar, Bangladesh, 1-31 October 2018
24. Dr Ravi Kumar, India, 28 November 2017, 27 May 2018
25. Dr S K Masiur Rahman, Bangladesh, 1 January 2018, 31 March 2018
26. Dr Satnam Kaur, India, 1 February 2018, 31 July 2018
27. Dr Servel Marie, France, 10-21 July 2017
28. Dr Shivani Deshwal, India, 1 April 2017, 30 June 2017
29. Dr Sin Ok Jo, Korea, 23 January 2017, 17 March 2017
30. Dr Soumya Tiwari, India, 11 June 2017, 10 September 2017
31. Dr SSC De Silva, Sri Lanka, 18 February 2016, 17 February 2018
32. Dr Sushil Gupta, India, 5-31 March 2018
33. Dr Swapnil, India, 5 March 2018, 02 July 2018
34. Dr Tae Yong Jon, Korea, 23 January 2017, 17 March 2017
35. Dr Tanu Gadi, India, 1 August 2017, 01 August 2018
36. Dr Tash Tshering, Bhutan, 1-30 March 2018

37. Dr Tulsi Ram Sharma, Bhutan, 1-21 November 2017
38. Dr Vishwas Chhapola, India, 15 July 2017, 14 October 2017
39. Dr Yong Chol Ryaang, Korea, 23 January 2017, 17 March 2017
40. Mr Kumara Guru, China, 5-16 February 2018
41. Mr Pradeep Kumar, India, 2 April 2018, 29 September 2018
42. Mr Sukhdeep Singh Arora, Germany, 7 May 2018, 01 July 2018
43. Mrs Mar Lar Pun, Myanmar, 7-18 August 2017
44. Mrs So Yong Ri, Korea, 23 January 2017, 17 March 2017
45. Mrs. Yon Choe, Korea, 23 January 2017, 17 March 2017
46. Ms. Aiman Afreen, India, 10-24 January 2018
47. Ms. Asthma Sharma, India, 25 November 2017, 24 February 2018
48. Ms. Chhaya, India, 15 February 2018, 14 May 2018
49. Ms. Nazia Afreen, India, 10-24 January 2018
50. Ms. Neha Bharti, India, 17 August 2017, 16 November 2017
51. Ms. Nikita Manhans, India, 28 March 2018, 06 April 2018
52. Ms. Sanskrithi Sravanam, United Kingdom, 23 July 2018, 17 August 2018
53. Ms. Su Hyang Choe, Korea, 23 January 2017, 17 March 2017
54. Ms. Vaishali, India, 15 February 2018, 14 May 2018
55. Ms. Yi Yi New, Myanmar, 7-18 August 2017

Nephrology

1. Dr Arpita Gogoi (Guwahati, Assam) 5 July 2017-31 October 2017
2. Dr Saumya Tiwari (Kalawati Saran Children Hospital, New Delhi) 11 June 2017-10 September 2017

Neurology

1. Dr Harsheen Kaur (USA) 27 November 2017 to 15 December 2017
2. Dr Khurshid Ahmed Wani (Srinagar) 4 October 2017 to 31 January 2018
3. Ms Astha Sharma 25 November 2017 to 15 April 2018
4. Dr S.K. Masiur Rahman (Bangladesh) 12 March 2018 to 31 May 2018
5. Residents from Department of Neurology, CNC, AIIMS, New Delhi
 - a) Dr Shrawan Kumar SR (DM Neurology) June 2017
 - b) Dr Neha Kapoor SR (DM Neurology) July 2017
 - c) Dr Anand Kumar SR (DM Neurology) July 2017
 - d) Dr Divyani Garg SR (DM Neurology) August 2017
 - e) Dr Muthukani SR (DM Neurology) August 2017
 - f) Dr Aneesha SR (DM Neurology) September 2017
 - g) Dr S K Chandan SR (DM Neurology) October 2017
 - h) Dr Thelangana SR (DM Neurology) October 2017
 - i) Dr Nishita Singh SR (DM Neurology) November 2017
 - j) Dr Anand Kumar SR (DM Neurology) January 2018
 - k) Pooja Narang SR (DM Neurology) February 2018
 - l) Dr Ayush Agarwal SR (DM Neurology) March 2018

CME, CONFERENCES

A total of 35 CME/conferences/workshops were organized.

Genetics

1. The National Initiative for Rare Disorders (NIRD), 26 and 27 April 2017, IIC, New Delhi
2. CME on “Genomics in Medicine”, 15 November 2017, AIIMS, New Delhi
3. Next generation sequencing workshop (Data analysis and interpretation) for clinicians in collaboration with IGIB, 16 November 2017-8 November 2017, AIIMS, New Delhi

4. Birth defect surveillance training for nurses, 15 February 2018, AIIMS, New Delhi
5. Mini workshop on clinical genetics, 14 March 2018, AIIMS, New Delhi

Neonatology

1. Quality improvement workshop “Quality Improvement-Simple Tips” for Pediatric residents on 16 April 2017, AIIMS, New Delhi organized by Dr AK Deorari
2. Pre-conference workshop on ‘Quality Improvement’ for practising paediatricians and nursing professionals from different parts of the country in the IAP Neocon and EBNEO Conference at Hyderabad (9 November 2017), organized by Dr AK Deorari
3. “Dissemination meet of educational package and point of Care Quality Improvement Model (version 2): Facilitators Meet” for reducing ROP on 26 and 27 December 2017, organized by Dr AK Deorari
4. Quality improvement workshop for Royal Government of Bhutan, Khesar Gyalpo University of Medical Sciences of Bhutan on 15-17 November 2017 and Colombo, Sri Lanka, 22-24 August 2017 with support from WHO SEARO, organized by Dr AK Deorari
5. Workshop for AIIMS on “Role of Leadership and Capacity Building Quality Improvement” at Director’s Board Room, AIIMS, New Delhi, 27-28 March 2018 for all six AIIMS, State NHM Teams and Institute, organized by Dr AK Deorari
6. Workshop for WHO, SEARO and PHFI on launch of “Point of Care Quality Improvement Tool (POCQI-2) and premature package for facility based care with focus on prevention of retinopathy of prematurity” at Director’s Board Room, AIIMS, New Delhi, 26-27 December 2017, organized by Dr AK Deorari
7. Quality improvement workshop POCQI for NHM West Bengal for 14 medical college faculty along with state government leadership with partnership with UNICEF, 28-29 July 2017 at Calcutta, organized by Dr AK Deorari
8. Quality improvement coaching course—spread over 4 months with two face to face meeting for 30 faculty (20 from institute and another 10 from other AIIMS) in partnership with IHI Cambridge and USAID-ASSIST, organized by Dr AK Deorari
9. Workshop for faculty on “How to develop contents, resources and manage and create the Smartphone Apps” on 31 January 2018 at CMET, AIIMS, New Delhi, organized by Dr AK Deorari
10. Roundtable on use of Simulation in medical education MOH, NABH, Leardal India, University of Philadelphia, Pedi Star Meeting for Nurses, 11 January 2018 at Director’s Board Room AIIMS, New Delhi, organized by Dr AK Deorari
11. QI workshop for resident doctors of Paediatrics, Obstetrics and Gynaecology Departments, 16 April 2017 at AIIMS, New Delhi, organized by Dr AK Deorari
12. Pre-conference workshop on ‘Systematic review and meta-analysis’ for residents and practising paediatricians from different parts of the country in the IAP Neocon and EBNEO Conference at Hyderabad (November 2017), organized by Dr Jeeva Sankar
13. Content review workshop for review of educational package for “Preterm baby care” for intact survival of preterm neonates without retinopathy of prematurity on 6 and 7 April 2017, organized by Dr Anu Thukral
14. Quality improvement workshop “Quality Improvement—Simple Tips” for Pediatric residents on 16 April 2017, AIIMS, New Delhi, organized by Dr Anu Thukral
15. Pre-conference workshop on ‘Quality Improvement’ for practising paediatricians and nursing professionals from different parts of the country in the IAP Neocon and EBNEO Conference at Hyderabad (9 November 2017), organized by Dr Anu Thukral
16. Dissemination meet of educational package and point of Care Quality Improvement Model (version 2): Facilitators Meet for reducing ROP on 26 and 27 December 2017, organized by Dr Anu Thukral

Oncology

1. Infection Control Module, 12 August 2017, AIIMS, New Delhi
2. Diagnostics in Pediatric Cancers Module II—Imaging in Pediatric Cancers, 28 January 2018, AIIMS, New Delhi
3. Patient Education Program, 14 June 2017, AIIMS, New Delhi
4. Patient Education Program and Interactive Discussion with Patients/Caregivers, 11 December 2017, AIIMS, New Delhi
5. Brain storming on late effects, 2 February 2018, AIIMS, New Delhi

Nephrology

1. IX Annual Training Course in Pediatric Nephrology, 1-2 April 2017, AIIMS, New Delhi, 105 delegates (postgraduate residents and trainees) in Pediatric Nephrology from across India

2. First Training Course in Nursing in Pediatric Nephrology, 1 April 2017, AIIMS, New Delhi, 15 specialist nurses from across India
3. Consensus Meeting on Management of Hemolytic Uremic Syndrome, 31 March-1 April 2017, AIIMS, New Delhi, attended by nationwide experts, research collaborators and industry representatives
4. X Annual Training Course in Pediatric Nephrology, 29-30 March 2018, AIIMS, New Delhi; 80 delegates attended

Neurology

1. Third National Workshop for Training Master Trainers in Autism Tools (INDT ASD and ISAA Tools), organized in collaboration with National Trust for persons with disabilities, 1-3 April 2017, Vigyan Bhavan, New Delhi
2. National Autistic Marvel Talent Hunt, organised in collaboration with the National Trust for persons with disabilities, 3 April 2017, Vigyan Bhavan, New Delhi
3. Public Health Lecture and Moderated Panel Discussion on Autism ‘Towards Autonomy and Self Determination’, Early detection and inclusive education; skill development and independent living, 26 April 2017, AIIMS, New Delhi

Pulmonology and Intensive Care

1. AIIMS Pediatric Pulmonology and Intensive Care Course Module, 6 April 2017

Lectures delivered

Endocrinology

Vandana Jain

1. NAFLD in adolescents: Influence of genetic and biochemical factors, ICMR Taskforce Meeting on Non-alcoholic Fatty Liver Disease, 12 July 2017, ICMR, Delhi
2. Disorders of puberty, 3rd AIIMS-LHMC Pediatric Endocrine CME, 29 July 2017, AIIMS, Delhi
3. Diabetic Ketoacidosis, 3rd AIIMS-LHMC Pediatric Endocrine CME, 30 July 2017, AIIMS, Delhi
4. Obesity and its complications in children, CGR, Department of Medicine, AIIMS, 12 September 2017, AIIMS, Delhi
5. How to manage toddlers and preschoolers with diabetes in different parts of the world: Moderator, 43rd Annual Conference of International Society for Pediatric and Adolescent Diabetes, 19 October 2017, Innsbruck, Austria
6. Optimizing growth in girls with turner syndrome, Growth and Behavioural Pediatrics Conference: GDBPCON, MAMC, 2 December 2017, New Delhi
7. Advances in the management of Type 1 Diabetes Mellitus, Pediatric Conference of North India, 22 December 2017, New Delhi
8. Type 1 Diabetes: How technological innovations can improve quality and span of life, Invited Lecture, Centre for Biomedical Engineering, IIT Delhi, 30 January 2018, Indian Institute of Technology, Delhi

Rajni Sharma

1. Thyroid axis dysfunction in Down’s syndrome, National Symposium on Growth, Pediatric and Adolescent Endocrinology Symposium by Growth Hormone Research Foundation Talk, 11 June 2017, Apollo Hospital, New Delhi
2. Fluid and electrolyte imbalance: Hyponatremia, 3rd AIIMS-LHMC Pediatric Endocrine CME, 28-29 July 2017, New Delhi
3. Neonatal thyroid function reports, 3rd AIIMS-LHMC Pediatric Endocrine CME, 28-29 July 2017, New Delhi
4. Moderated panel discussion on disorders of puberty, Indian Society of Pediatric and Adolescent Endocrinology (ISPAE) Biennial Conference, 24-26 November 2017, Coimbatore
5. Optimizing growth in thalassemia, Growth and Behavioural Pediatrics Conference: GBPCON, 2 December 2017, New Delhi
6. Transition of care of chronic disease, panel discussion, Pediatric Conference of North India, 22 December 2017, New Delhi
7. Obesity and metabolic syndrome: Recent advances, Kalawati Saran Children’s Hospital Annual CME, 10 February 2018, New Delhi

Gastroenterology

Rohan Malik

1. Evaluation of upper gastrointestinal bleeding in children, Update on Pediatric Gastroenterology, 1 May 2017, School of Liver and Digestive Sciences, Institute of Post graduate Medical Education and Research, Kolkata

2. Evaluation of an infant with cholestasis, Update on Pediatric Gastroenterology, 1 May 2017, School of Liver and Digestive Sciences, Institute of Post Graduate Medical Education and Research, Kolkata
3. Management of acute pancreatitis in children, Annual Pedgastrocon, 26 October 2017, Annual Pedgastrocon, Guwahati
4. Approach to a child with multiple food allergy, Gathering of IAP South Delhi, 16 December 2017, IAP Monthly Meet, New Delhi

Genetics

Madhulika Kabra

1. Procedures in single gene defects: What and when, SFM Workshop and Course on Basic Diagnostics and Intervention, 28 May 2017, MAMC, New Delhi
2. Newborn screening, ICMR Course on Medical Genetics and Genetic Counseling, 27 July 2018, SGPGI, Lucknow
3. Approach to neurodegenerative disorders, ICMR Course on Medical Genetics and Genetic Counseling, 27 July 2018, SGPGI, Lucknow
4. Non immune hydrops - geneticist's approach, Fetal Medicine 2017 and APCMFM 13, 2 September 2017, Gurgaon
5. Genetic testing in the present era, application and challenges, RAJPEDICON, 6-7 October 2017, Jodhpur, Rajasthan
6. CME on genomics in medicine, diagnosis of rare diseases "Genetics to Genomics", 15 November 2017, AIIMS, New Delhi
7. SIAMG Outstanding Scientist Award Oration, Indo-US Symposium on Human Genetic Disorders of Post Natal Growth and SIAMG Meeting, 8 December 2017, Thiruvananthapuram
8. Birth defects surveillance and quality assurance, National Neonatal Perinatal Database (NNPD) and Surveillance of Newborn Birth Defects (NBBDD), 13-14 December 2017, Dhaka, Bangladesh
9. GNE Myopathy: Research, Clinical Management and Patient Care, Patient Registry for Rare Genetic Disorders, 17 February 2018, INSA, New Delhi
10. Genetics of eye disorders, PEDIGEN, Pune (Indian Academy of Pediatrics, Pune), 24 February 2018, Pune
11. Syndromes of early aging, PEDIGEN, Pune (Indian Academy of Pediatrics, Pune), 24 February 2018, Pune
12. Genetics for nurses, Workshop on Beyond the Bedside: Changing Role of Today's Nurse, 22 March 2018, RAK College, New Delhi

Neerja Gupta

1. Carbohydrate metabolic disorders, classification and clinical presentation, National Training of the Trainers Workshop for Dieticians on Nutritional Management of IEMS Through Dietary Modifications, 15 April 2017, Delhi
2. Creating the policy outline for treatment of rare diseases for pompe disease, The National Initiative for Rare Diseases (NIRD) Consultation Meeting, 26 April 2017, Delhi
3. Creation of a National Registry for Rare Disorders - Which diseases to include and what should be the minimum essential variables, The National Initiative for Rare Diseases (NIRD) Consultation Meeting, 26 April 2017, Delhi
4. Lysosomal storage disorders, Sixteenth ICMR Course in Medical Genetics and Genetic Counseling, 26 July 2017, Lucknow
5. Down syndrome –Management and prevention, 26 July 2017, Lucknow
6. Genetics in renal disorders, 29th Annual ISPNCON, 14 October 2017, Gurugram, Manesar
7. IEM masquerading as infection, 19th National Conference of Pediatric Intensive Care and 2 Asian Congress of Pediatric Intensive Care Chapter IAP, 3 November 2017, Chandigarh
8. Exome sequencing and clinical practice, genomics in medicine, 15 November 2017, Delhi
9. Microarray and NGS in prenatal diagnosis case scenarios, 39th Annual Conference of AOGD -Preconference Workshop on "Evidence Based Fetal Care: Screening Protocols", 17 November 2018, Delhi

Neonatology

A.K. Deorari

1. Web talk on quality improvement POCQI –step 1, Global Network on Quality of Care WHO, Global Network, Geneva, Switzerland
2. Facilitator, quality improvement in neonatal care, International Congress, 31 August-2 September 2017, Cancun, Mexico

3. Symposium –Talk on born too soon, International Congress, 31 August -2 September 2017, Cancun, Mexico
4. Quality improvement to newborn care education, International Congress, 31 August-2 September 2017, Cancun, Mexico
5. Workshop on quality improvement, Support Training on QI for MNH by WHO SEARO, 15-17 November 2017, Thimpu, Bhutan
6. Workshop on quality improvement, Support Training on QI for MNH by WHO SEARO, 23-25 August 2017, Colombo, Sri Lanka
7. Quality improvement in perinatology, Sri Lankan Perinatal Society Meeting, 26 August 2017, Colombo, Sri Lanka
8. Quality improvement in newborn care –POCQI Model, WHO SEARO Regional Meeting, 20 July 2017, Web Talk, Bali, Indonesia
9. Learning platform on QI for the region, WHO Office in Geneva, 10-12 June 2017, Geneva, Switzerland
10. Sensitization towards equality improvement in health-care, 13 March 2018, AIIMS, Bhubneshwar, Orissa
11. Workshop on Smart Phone Apps, CMET–AIIMS Activity, 31 January 2018, CMET, Delhi
12. To help pediatricians and nursing staff by orienting them on clinical decision making and uses of CPAP machine, Continuous Positive Air Pressure (CPAP), TOT Workshop, 29 January 2018, AIIMS, Jodhpur
13. Hypoglycemia in newborn, panel discussion –Relevance of QI in child health, IAP PEDICON, 5 January 2018, Nagpur
14. Quality improvement –A new paradigm, IANN Meeting, 17 December 2017, Maulana Medical College, Ambala
15. Coaching course quality improvement, WHO–SEARO, 24 November 2017, CDER, AIIMS, Delhi
16. Quality improvement in neonatology-Indian perspective, IAP Neonatology Chapter, IAP Neocon, 12 November 2017, Hyderabad, AP
17. Dissemination of resources of quality improvement developed by AIIMS, USAID-ASSIST Meeting, 8 November 2017, Delhi
18. Panel discussion on setting ventilation services, Ventilation Workshop, 14 October 2017, CMET, AIIMS, Delhi
19. Talks on oxygenation and pulmonary graphics, Neonatal Ventilation Workshop, 14-15 October 2017, KEM Hospital Research Centre, Pune
20. Panel discussion on KMC, VRIDDHI, USAID, 10 August 2017, Delhi
21. Quality leadership improvement workshop, NHM, UNICEF, West Bengal, 28-29 July 2017, Kolkata
22. Workshop on QI –for Emergency Department, Annual Meeting Emergency Medicine, 12 July 2017, CMET, AIIMS, Delhi
23. QoC and QI workshop for state government, Quality of Care Leadership workshop supported by NHM, H.P, 5-8 June 2017, Dharamshala, HP
24. Coaching course on QI, IHI, Cambridge, 22-24 May 2017, AIIMS, Delhi
25. Workshop, District Hospital Improvement Based Facility Care, 13-14 January 2017, Aurangabad, West Bengal

Ramesh Agarwal

1. Antimicrobial Stewardship Program at Department of Pediatrics, AIIMS, AMSP Workshop Kolkata, 10 May 2017, Tata Memorial Hospital, Kolkata
2. Improving the quality of childbirth and neonatal care in Primary Health Centres in two districts in Haryana: Lessons learned, implications for future QI Programs in LMICs, Workshop with Haryana QoC Study Team, Approaches and lessons learnt, 29-31 August 2017, WHO HQ, Geneva
3. High frequency ventilation, 37th Annual Convention of National Neonatology Forum - India (NEOCON 2017), 7-10 December 2017, Gurugram
4. Research priorities in India, 37th Annual Convention of National Neonatology Forum - India (NEOCON 2017), 7-10 December 2017, Gurugram
5. AEDs for treating neonatal seizures: An approach, Sir Ganga Ram Hospital, CME, 10 February 2018, Sir Ganga Ram Hospital, New Delhi
6. Sepsis in neonates: Why it matters, BMGF India Office, 20 February 2018, BMGF India Office, New Delhi
7. Oxygenation in neonates, Workshop on Neonatal Ventilation, 17 January 2018, AIIMS, New Delhi
8. Panel discussion on supportive care of ventilated babies, Workshop on Neonatal Ventilation, 17 January 2018, AIIMS, New Delhi

M Jeeva Sankar

1. Clinical trial (Parallel/Cross over; Superiority, Equivalence, Non-Inferiority), Workshop on Research Methodology for Postgraduate Students, 11 April 2017, AIIMS, New Delhi
2. Logic of statistical inference, Faculty Development Programme on 'Research Methodology and Better Medical Writing', 26 June 2017, Kalinga Institute of Medical Sciences (KIMS), Bhubaneswar, Orissa
3. Sample size estimation, Faculty Development Programme on 'Research Methodology and Better Medical Writing', 26 June 2017, Kalinga Institute of Medical Sciences (KIMS), Bhubaneswar, Orissa
4. Clinical trial (Parallel/Cross over; Superiority, Equivalence, Non-Inferiority), Workshop on Research Methodology for Postgraduate Students, 9 August 2017, AIIMS, New Delhi
5. Interventional studies, including randomized controlled trials, Workshop on 'Research, Writing and Publishing in Medicine', 27-29 August 2017, National Academy of Medical Sciences, Kathmandu, Nepal
6. Measurement scales and summarizing data, Workshop on 'Research, Writing and Publishing in Medicine', 27-29 August 2017, National Academy of Medical Sciences, Kathmandu, Nepal
7. Analysis of continuous data, Workshop on 'Research, Writing and Publishing in Medicine', 27-29 August 2017, National Academy of Medical Sciences, Kathmandu, Nepal
8. Practical session on data analysis, Workshop on 'Research, Writing and Publishing in Medicine', 27-29 August 2017, National Academy of Medical Sciences, Kathmandu, Nepal
9. Clinical trial (Parallel/Cross over; Superiority, Equivalence, Non-Inferiority), Workshop on Research Methodology for Postgraduate Students, 22 September 2017, AIIMS, New Delhi
10. Systematic review and meta-analysis, Young Clinicians' Program, Indian Society of Gastroenterology, 28 October 2017, Hyderabad, AP
11. Understanding of Kaplan Meier curve, Young Clinicians' Program, Indian Society of Gastroenterology, 28 October 2017, Hyderabad, AP
12. Neonatal sepsis in India, IAP Neocon and EBNEO 2017, 9 November 2017, Hyderabad, AP
13. Newer modes of ventilation, Workshop on Neonatal Ventilation, 17 January 2018, AIIMS, New Delhi

Anu Sachdeva

1. Quality Improvement (QI) Program (Simulation Hub and Spoke Model) to improve the healthy survival of preterm neonates without severe Retinopathy of Prematurity (ROP) in Level-2 Neonatal Units in India, Annual Neonatal Simulation and TEL Conference "Simulating Together and Improving Outcomes", 26 and 27 September 2017, Southampton
2. 27 September 2017, St Mary's Stadium, Southampton, UK, Quality improvement: Step -III Developing change ideas, testing changes, 22 August 2017, Colombo, Sri Lanka
3. Quality improvement workshop for nurses, Quality Improvement Workshop, 8 May 2017, AIIMS, New Delhi
4. Quality improvement workshop in Annual National Conference of Emergency Medicine Association and Academic College of Emergency Experts in India, Quality Improvement Workshop, 12 July 2017, AIIMS, New Delhi
5. Implementation in District Health Facilities Training of Trainers on # POCQI Quality Improvement for Labor Rooms and SNCUs, Training of Trainers on # POCQI Quality Improvement for Labor Rooms and SNCUs, 28 and 29 July 2017, Kolkata, West Bengal
6. Neonatal neurological examination, Clinical Evaluation in Pediatric Neurology, 6 August 2017, LHMC, New Delhi
7. Co-facilitated quality improvement workshop, Quality Improvement Workshop, 11-12 August 2017, Bhopal, MP
8. Co-facilitated the quality improvement workshop, Quality Improvement Workshop, 12 September 2017, AIIMS, New Delhi
9. Co-facilitated the quality improvement workshop, Quality Improvement Workshop, 9 November 2017, PHFI, Hyderabad, AP
10. Intermittent mandatory ventilation: Knobs/parameters, Ventilation Workshop, 15 January 2018, CMET, AIIMS, New Delhi
11. How to develop contents, resources and manage and create the e-Learning platform, Workshop for AIIMS Faculty and Residents, 31 January 2018, CMET, AIIMS, Delhi

Nephrology**Arvind Bagga**

1. Management of renal tubular acidosis, IX Annual Training Course in Pediatric Nephrology, 1 April 2017, AIIMS, New Delhi

2. Pathogenesis of nephrotic syndrome, IX Annual Training Course in Pediatric Nephrology, 2 April 2017, AIIMS, New Delhi
3. Pediatric glomerulonephritis, Kidney Diseases Improving Global Outcomes: Expert Group Meeting on 'Controversies in Glomerulonephritis', 17-18 November 2017, Singapore
4. Anti-factor H antibody associated diseases, 50th Annual Congress of the European Society of Pediatric Nephrology, 6 September 2017, Scottish Exhibition and Conference Centre, Glasgow, UK
5. Major studies that have impacted management, 50th Annual Congress of the European Society of Pediatric Nephrology, 7 September 2017, Scottish Exhibition and Conference Centre, Glasgow, UK
6. Current opinion and management on hemolytic uremic syndrome, Symposium on Pediatric Nephrology in ASEAN Pediatrics Federation Congress, 2017, 23 September 2017, Yangon, Myanmar
7. Initial therapy for idiopathic nephrotic syndrome: What the evidence says, XIII Triennial Congress of the Asian Society of Pediatric Nephrology, 5 October 2017, Kuala Lumpur
8. Approach to child with metabolic acidosis: Is it renal?, XIII Triennial Congress of the Asian Society of Pediatric Nephrology, 6 October 2017, Kuala Lumpur
9. Plenary: Steroid resistant nephrotic syndrome, 29th Annual Conference of the Indian Society of Pediatric Nephrology, 14 October 2017, Medanta, the Medicity, Gurugram
10. Therapy for atypical hemolytic uremic syndrome, Annual Conference of the Indian Society of Pediatric Nephrology, 13 October 2017, Medanta, the Medicity, Gurugram
11. Randomized controlled trials: Planning, organizing, implementation, National Congress of Pediatrics and Pediatric Nephrology, 2017, 19-20 October 2017, Suzhou Jinji Lake International Convention Center, Suzhou, China
12. Steroid resistant nephrotic syndrome, Pediatric Nephrology Board Review Course, Saudi Society of Nephrology and Transplantation, 1 February 2018, King Saud University, Riyadh, Saudi Arabia
13. Approach to a child with hematuria and proteinuria, Pediatric Nephrology Board Review Course, Saudi Society of Nephrology and Transplantation, 1 February 2018, King Saud University, Riyadh, Saudi Arabia
14. Antenatally detected kidney disease, Public Lecture on Women and Kidney's Health on World Kidney Day, 7 March 2018, AIIMS, New Delhi
15. Steroid resistant nephrotic syndrome, Fourth International Scientific Conference of Pediatric Nephrology Society of Bangladesh, 2017, 11 March 2018, Bangabandhu Sheikh Mujib University, Dhaka, Bangladesh
16. Rickets, Fourth International Scientific Conference of Pediatric Nephrology Society of Bangladesh, 2017, 11 March 2018, Bangabandhu Sheikh Mujib University, Dhaka, Bangladesh
17. Workshop on peritoneal dialysis, Fourth International Scientific Conference of Pediatric Nephrology Society of Bangladesh, 2017, 11 March 2018, Bangabandhu Sheikh Mujib University, Dhaka, Bangladesh
18. Moderator on panel discussion: Nephrotic syndrome, X Annual Training Course in Pediatric Nephrology, 30 March 2018, AIIMS, New Delhi

Pankaj Hari

1. Workforce in pediatric nephrology: Need versus availability, IX Annual Training Course in Pediatric Nephrology, 1 April 2017, AIIMS, New Delhi
2. Antibiotic prophylaxis: Changes in practice, XIII Triennial Congress of the Asian Society of Pediatric Nephrology, 4 October 2017, Kuala Lumpur
3. UTI in children: Guidelines, 29th Annual Conference of the Indian Society of Pediatric Nephrology, 14 October 2017, Medanta, the Medicity, Gurugram
4. Evaluating hypertension, 29th Annual Conference of the Indian Society of Pediatric Nephrology, 15 October 2017, Medanta, the Medicity, Gurugram
5. Urinary tract infections in children: Finding the middle ground evaluation, IPNA Teaching Course, 11 March 2018, St. John's Medical College Hospital, Bengaluru
6. Vasculitis: Classification and management, X Annual Training Course in Pediatric Nephrology, 29 March 2018, AIIMS, New Delhi
7. Urinary tract infections, X Annual Training Course in Pediatric Nephrology, 30 March 2018, AIIMS, New Delhi

Aditi Sinha

1. Antenatally diagnosed hydronephrosis, IX Annual Training Course in Pediatric Nephrology, 2 April 2017, AIIMS, New Delhi
2. Workshop on sodium and water handling disorder: Case based discussion, A primer on renal physiology and workshop on fluid and electrolytes disturbances: IPOKRATES, 26 August 2017, Kolkata

3. Workshop on acid base handling disorder: Case based discussion, A primer on renal physiology and workshop on fluid and electrolytes disturbances: IPOKRATES, 27 August 2017, Kolkata
4. Modifiable risk factors and strategies to prevent progression, IPNA AsPNA Junior Master Class; XIII Triennial Congress of the Asian Society of Pediatric Nephrology, 4 October 2017, Kuala Lumpur
5. Workshop on peritoneal dialysis, 29th Annual Conference of the Indian Society of Pediatric Nephrology, 12 October 2017, Medanta, the Medicity, Gurugram
6. Renal tubular acidosis, 29th Annual Conference of the Indian Society of Pediatric Nephrology, 13 October 2017, Medanta, the Medicity, Gurugram
7. Steroid sensitive nephrotic syndrome, 29th Annual Conference of the Indian Society of Pediatric Nephrology, 14 October 2017, Medanta, the Medicity, Gurugram
8. Complement in evaluation of atypical hemolytic uremic syndrome, 29th Annual Conference of the Indian Society of Pediatric Nephrology, 14 October 2017, Medanta, the Medicity, Gurugram
9. Atypical HUS: A practical approach to management, AIIMS Glomerulonephritis Conclave 2017, 27 October 2017, AIIMS, New Delhi
10. Atypical HUS, 48th Annual Congress of the Indian Society of Nephrology, 14 December 2017, Gurugram

Neurology

Sheffali Gulati

1. Newer diagnostic tools for neurodevelopmental disorders: Going e-way, National CME of Pediatric Neurology, Lucknow Academy of Pediatrics, 16 July 2017, Scientific Convention Centre, KGMU, Lucknow
2. ITalk input in respect of section 38 of RPwD Act, 2016, Government of India, Ministry of Social Justice and Empowerment, Department of Empowerment of Persons with Disabilities (Divyangjan), 18 August 2017, Nirman Bhawan, New Delhi
3. Autism mimics, National Conference of Developmental Pediatrics–NCDP 2017, 10 September 2017, New Delhi
4. Converging research, education and advocacy: From grassroots to e-way and beyond, epilepsy and neurodevelopmental disorders, JIPMER, 11 September 2017, Puducherry
5. Panelist, round table discussion, Developing gene therapy for rare genetic disorders in India: How to go forward? Schools of Life Sciences and Computation and Integrative Sciences, Jawaharlal Nehru University, 16 September 2017, New Delhi
6. Fosphenytoin use in Pediatrics, Indian Epilepsy Society, 1 October 2017, Hyderabad
7. Refractory and super refractory status epilepticus, Rainbow Children's Hospital and Perinatal Centre in Association with IAP, 4 October 2017, Hyderabad
8. Cerebral palsy - Rehabilitation and supportive therapy through electronic media, IAP Neurology Chapter Kerala and IAP Thrissur in Association with Neuro Society, Thrissur, 13-15 October 2017, Thrissur, India
9. Medical aspects of disabilities, NTPC, Power Management Institute, Tamanna, 2 November 2017, Aurobindo Hall, PMI-NTPC, Noida, UP
10. Neurodevelopmental disorders: Going E way, State Conference of HP Chapter of IAP, 4-5 November 2017, Mandi, HP
11. Minimizing the burden through early screening and inclusive planning in ICDS for the children with special needs" via electronic communication, Utkal University in partnership with UNICEF, 18 November 2017, Bhubaneswar, Odisha
12. Assessment of specified disabilities included under the RPwD Act, 2016, Department for Empowerment of Persons with Disabilities, Ministry of Social Justice and Empowerment, 22 November 2017, Nirman Bhawan, New Delhi
13. ASD as a neurological condition/disorder, Early signs for detecting ASD and Medical investigations which are required in a diagnosis of ASD, VISHWAS, 25 November 2017, Vishwas Vidyalaya, Gurugram, Haryana
14. National ECCE Policy: The way forward; Initiatives, Development of a compendium on latest initiatives in pedagogical practices in early childhood care and education, National Council of Educational Research and Training, Department of Elementary Education, 7 December 2017, CIET, New Delhi
15. Broad approach to case presentation: How to summarize your clinical case and make differentials, AOCN, 4 February 2018, New Delhi
16. Panelist, National Level Meeting on Universal Model for persons with intellectual and developmental disabilities: The basis of developing a National Program, National Trust for the Welfare of Persons with Autism, Cerebral Palsy, Mental Retardation and Multiple Disabilities, 6 February 2018, Pt. Deendayal Antyodaya Bhawan, New Delhi

17. Patterns of brain injury in intrauterine infections, Amrita Institute of Medical Sciences in Association with Indian Epilepsy Association, Kerala, 10 February 2018, Amrita Institute of Medical Sciences, Kochi
18. Probiotic therapy: Translating to health and clinical practice, Autism, Gut microbiota and Probiotics, Probiotic Association of India (PAi) in collaboration with Department of Microbiology, AIIMS, New Delhi and American Society for Microbiology (ASM), 16 February 2018, AIIMS, New Delhi
19. MER of the children for adoption, Central Adoption Resource Authority, 22 February 2018, Shashtri Bhawan, New Delhi
20. Developmental disorders, MCI, Government of India; Directorate General of Health Services; Ministry of Health and Family Welfare, 28 February 2018, Nirman Bhawan, New Delhi
21. Neurodevelopmental disorders - Diagnostic tools - Going e-way, Neuroxchange-2018, 3 March 2018, Thiruvananthapuram
22. Handling disabilities, sensitization and practical know how, helping children and parents, 7 March 2018, CMET, AIIMS, New Delhi
23. Developmental disorders, Union Public Service Commission; Government of India; Directorate General of Health Services; Ministry of Health and Family Welfare, 12 March 2018, Nirman Bhawan, New Delhi
24. Approach to mitochondrial disorders, MRI clues for mitochondrial disorders, moderated interesting cases, Genetics Unit, AIIMS, 14 March 2018, AIIMS, New Delhi

Biswaroop Chakrabarty

1. Medical and laboratory investigations in Autism Spectrum Disorder, In collaboration with the National Trust, part of the organising team for 3rd National Workshop for Training Master Trainers in Autism Tools INDT ASD and ISAA, 1-3 April 2017, Vigyan Bhavan, New Delhi
2. Talk: Movement disorder in children, National Movement Disorders Conference, 8 April 2017, Medical College, Kanpur
3. Panel discussion, Autism: Towards autonomy and self determination, Early detection and inclusive education; skill development and independent living, Public Health Lecture and Panel Discussion, 26 April 2017, Jawaharlal Auditorium, AIIMS, New Delhi
4. Acute flaccid paralysis, 2nd AOCN Master Class in Pediatric Neurology for Postgraduates, 4 February 2018, New Delhi

Prashant Jauhari

1. Evidence based management of Autism, In collaboration with the National Trust, part of the organising team for 3rd National Workshop for Training Master Trainers in Autism Tools INDT ASD and ISAA also delivered a talk, 1-3 April 2017, Vigyan Bhavan, New Delhi
2. Panelist for Panel Discussion on Autism: Towards autonomy and self determination, Early detection and inclusive education; skill development and independent living, Public Health Lecture and Panel Discussion, 26 April 2017, Jawaharlal Auditorium, AIIMS, New Delhi
3. Rett Syndrome Trial Protocol, Indian Rett Syndrome Foundation of India, 13 August 2017, Rail Museum, Chanakyapuri, New Delhi
4. Childhood stroke, National Stroke Conference, 18 November 2017, GSVM Medical College, Kanpur
5. Approach to chronic cerebellar ataxia, 2nd AOCN Master Class in Pediatric Neurology for Postgraduates, 4 February 2018, New Delhi

Oncology

Rachna Seth

1. Panel discussion childhood cancer, Public lecture: Childhood cancer, 26 February 2018, New Delhi
2. Indian childhood collaborative leukemia group, North India Pediatric Oncology Forum, 27 May 2017, Safdarjung Hospital, New Delhi
3. Service delivery and advocacy of late cancer survivors, North India Pediatric Oncology Forum, 26 August 2017, Max Hospital, Saket, New Delhi
4. Late effects in childhood cancer survivor: Experience from a tertiary center, North India Pediatric Oncology Forum, 26 August 2017, Max Hospital, Saket, New Delhi
5. Febrile neutropenia algorithm for evaluation Principles in management, Infection Control Module, 12 August 2017, AIIMS, New Delhi

6. Cardiac surveillance during cancer treatment, Cardiovascular Research Convergence, 20 August 2017, AIIMS, New Delhi
7. After cancer treatment care, Cankids National Team and Capacity Building Workshop, 13 June 17, New Delhi
8. Indian childhood collaborative leukemia group, National Conference of Pediatric Hematology Oncology Chapter of Indian Academy of Pediatrics (PHOCON), 24 November 2017, Kolkata
9. Vaccination in immune compromised children on cancer treatment: A panel discussion, National Conference of Pediatric Hematology Oncology Chapter of Indian Academy of Pediatrics (PHOCON), 25 November 2017, Kolkata
10. The Indian Childhood Cancer Survivorship study (C2S study): After treatment completion registry of childhood cancers-phase-I A InPOG-IE-16-01 study, National Conference of Pediatric Hematology Oncology Chapter of Indian Academy of Pediatrics (PHOCON), 26 November 2017, Kolkata
11. Cancer survivorship and late effects: Concept of survivor clinics, PHOSCON, 25 November 2017, Kolkata
12. Moderator, panel discussion on 'Case based approach to childhood cancers', 55th National Conference of Indian Academy of Pediatrics (PEDICON 2018), 6 January 2018, Suresh Bhat Auditorium, Nagpur
13. Proforma Development for Pattern of Care and Survival Studies (POCSS) on Childhood and Adult Haematolymphoid Malignancies, NCRP –NCDIR, 10 January 2018, ICMR-NCDIR, Bangalore
14. The Indian childhood cancer survivorship study (C2S study), Brain storming on late effects, 2 February 2018, New Delhi

Jagdish Prasad Meena

1. Role of Care Taker in Prevention of Infection and Counseling by Health Care Professional, 12 August 2017, AIIMS, New Delhi
2. Reduction in Prescription Errors Through the Implementation of Quality Improvement Program in Pediatric Ward, Capacity Building Workshop on Leading And Facilitating Quality Improvement, 22-24 May 2017, New Delhi

Aditya Kumar Gupta

1. Role of PET CT in NHL, Mid term CME of the Pediatric Hematology Oncology Chapter of the IAP, 1-2 July 2017, New Delhi
2. Panel discussion of thrombocytopenia, Mid term CME of the Pediatric Hematology Oncology Chapter of the IAP, 1-2 July 2017, New Delhi
3. Bone tumors: Delivering multimodality care, Indian Pediatric Hematology Oncology Group, 25-26 November 2017, Gurgaon

Pulmonology, Intensive Care, Tuberculosis

SK Kabra

1. Anatomy of airways, Handson Workshop on Pediatric Bronchoscopy, Department of Pediatrics, AIIMS, Raipur, 9 April 2017
2. Bronchoalveolar Lavage (BAL) procedure and interpretation, Hands on Workshop on Pediatric Bronchoscopy, Department of Pediatrics, AIIMS, Raipur, 9 April 2017
3. Bronchial biopsy, EBUS, Handson Workshop on Pediatric Bronchoscopy, Department of Pediatrics, AIIMS, Raipur, 9 April 2017
4. Case based discussion on illustrative cases, Hands on Workshop on Pediatric Bronchoscopy, Department of Pediatrics, AIIMS, Raipur, 9 April 2017
5. Cystic fibrosis, Certificate Course on Pediatric Pulmonology and Flexible Bronchoscopy by Indian Academy of Pediatrics Respiratory Chapter TN and IAP Chennai City Branch, 25 April 2017, Chennai
6. Sweat chloride collection, estimation and interpretation by indigenously prepared method, Certificate Course on Pediatric Pulmonology and Flexible Bronchoscopy by Indian Academy of Pediatrics Respiratory Chapter TN and IAP Chennai City Branch, 25 April 2017, Chennai
7. Pulmonary function techniques including IOS, Infant, Certificate Course on Pediatric Pulmonology and Flexible Bronchoscopy by Indian Academy of Pediatrics Respiratory Chapter TN and IAP Chennai City Branch, 25 April 2017, Chennai
8. Nasal NO, FENO, Certificate Course on Pediatric Pulmonology and Flexible Bronchoscopy, Indian Academy of Pediatrics Respiratory Chapter TN and IAP Chennai City Branch, 25 April 2017, Chennai
9. Endobronchial ultrasound guided transbronchial needle aspiration of mediastinal nodes, Certificate Course on Pediatric Pulmonology and Flexible Bronchoscopy, Indian Academy of Pediatrics Respiratory Chapter TN and IAP Chennai City Branch, 25 April 2017, Chennai

10. Cystic fibrosis, National Initiative for Rare Diseases (NIRD), 28 April 2017, New Delhi
11. Rational choice of antibiotics in respiratory infections, 10th Kerala RESPICON 2017, Madhya Kerala Indian Academy of Pediatrics and Respiratory Chapter Kerala, 7 May 2017, Angamali
12. Childhood asthma - Early diagnosis, 10th Kerala RESPICON 2017, Madhya Kerala Indian Academy of Pediatrics and Respiratory Chapter Kerala, 7 May 2017, Angamali
13. Bronchiectasis: Clinical approach and management, 10th Kerala RESPICON 2017, Madhya Kerala Indian Academy of Pediatrics and Respiratory Chapter Kerala, 7 May 2017, Angamali
14. Case based interactive discussion, 10th Kerala RESPICON 2017, Madhya Kerala Indian Academy of Pediatrics and Respiratory Chapter Kerala, 7 May 2017, Angamali
15. Clinical management of dengue fever in children, Symposium on Occasion of National Dengue Day, Department of Medicine, AIIMS, New Delhi, 16 May 2017, New Delhi
16. Management of acute severe asthma, Neonatal and Pediatric CME, IAP Krishna and IAP Andhra Pradesh, 18 June 2017, Vijaywada
17. Approach to a child with recurrent pneumonia, Neonatal and Pediatric CME, IAP Krishna and IAP Andhra Pradesh, 18 June 2017, Vijaywada
18. Clinical manifestations and management of Dengue and Chikungunya in pediatric age groups, Training of Trainers (TOT) on case management of Dengue and Chikungunya, National Vector Borne Disease Control Programme, Ministry of Health and Family Welfare and World Health Organization, 27-28 June 2017, New Delhi
19. Management of asthma: Beyond inhalers, Awesome Pulmonology-2017, 2nd Annual CME of IAP Respiratory Chapter, Rajasthan State, 9 July 2017, Jaipur
20. Childhood TB: What is new in Armamentarium? Awesome Pulmonology-2017, 2nd Annual CME of IAP Respiratory Chapter, Rajasthan State, 9 July 2017, Jaipur
21. Panel discussion, Churning the Pulmonology, Awesome Pulmonology-2017, 2nd Annual CME of IAP Respiratory Chapter, Rajasthan State, 9 July 2017, Jaipur
22. Clinical manifestations and management of Dengue and Chikungunya in pediatric age groups, Training of Trainers (TOT) on case management of Dengue and Chikungunya, National Vector Borne Disease Control Programme, Ministry of Health and Family Welfare and World Health Organization, 28 July 2017, Kolkata
23. Clinical manifestations and management of Dengue and Chikungunya in pediatric age groups, Training of Trainers (TOT) on case management of Dengue and Chikungunya, National Vector Borne Disease Control Programme, Ministry of Health and Family Welfare and World Health Organization, 8 September 2017, Bengaluru
24. Mucoviscidosis, CME as part of Annual Conference of Indian Association of Pediatric Surgeons, West Bengal Association of Pediatric Surgeons, 21 September 2017, Kolkata
25. TB Diagnostic Part 1, TB Module, Department of Pediatrics, AIIMS, 24 September 2017, New Delhi
26. Treatment of TB Module 13, TB Module, Department of Pediatrics, AIIMS, 24 September 2017, New Delhi
27. When to suspect and how to diagnose cystic fibrosis, Raj PEDICON 2017, Jodhpur, Indian Academy of Pediatrics, Rajasthan, 8 October 2017, Jodhpur
28. Diagnostic algorithm for cystic fibrosis in Asia Pacific, 22nd National Conference of Chinese Pediatric Society, Chinese Pediatric Society, 21 October 2017, Sujhou, China
29. Chest imaging, Crash Course for pHermese Exam, 29th Annual Conference of Respiratory Chapter of Indian academy of Pediatrics 22nd (RESICON 2017), IAP Respiratory Chapter and IAP Bangalore, 26-29 October 2017, Bangalore
30. Asthma and wheezing disorders, Crash Course for pHermese Exam, 29th Annual Conference of Respiratory Chapter of Indian academy of Pediatrics 22nd (RESICON 2017), IAP Respiratory Chapter and IAP Bangalore, 26-29 October 2017, Bangalore
31. Interstitial lung diseases, Crash Course for pHermese Exam, 29th Annual Conference of Respiratory Chapter of Indian Academy of Pediatrics 22nd (RESICON 2017), IAP Respiratory Chapter and IAP Bangalore, 26-29 October 2017, Bangalore
32. Symposium on reflux/dysfunctional swallowing and lungs, Crash Course for pHermese Exam, 29th Annual Conference of Respiratory Chapter of Indian Academy of Pediatrics 22nd (RESICON 2017), IAP Respiratory Chapter and IAP Bangalore, 26-29 October 2017, Bangalore
33. Infantile wheeze to adult asthma understanding the journey, Crash Course for pHermese Exam, 29th Annual Conference of Respiratory Chapter of Indian Academy of Pediatrics 22nd (RESICON 2017), IAP Respiratory Chapter and IAP Bangalore, 26-29 October 2017, Bangalore
34. Pulmonary hemosiderosis, Crash Course for pHermese Exam, 29th Annual Conference of Respiratory Chapter of Indian academy of Pediatrics 22nd (RESICON 2017), IAP Respiratory Chapter and IAP Bangalore, 26-29 October 2017, Bangalore

35. Diagnostic challenges in childhood tuberculosis, 36th West Bengal Pedicon 2017, Siliguri Academy of Pediatrics, 5 November 2017, Siliguri
36. Pulmonary congenital malformation-radiology imaging, Workshop on in 5th Annual Conference of Bangladesh Pediatric Pulmonology Forum, Dhaka Bangabandhu Medical University, 1-2 December 2017, Dhaka
37. Radiology in chronic lung disease in children (Special emphasis on ILD), Workshop on in 5th Annual Conference of Bangladesh Pediatric Pulmonology Forum, Dhaka Bangabandhu Medical University, 1-2 December 2017, Dhaka
38. Clinical profile of children with cystic fibrosis surviving beyond adolescence, 5th Annual Conference of Bangladesh Pediatric Pulmonology Forum, Dhaka Bangabandhu Medical University, 1-2 December 2017, Dhaka
39. Prevalence of metabolic abnormalities in children with asthma, 5th Annual Conference of Bangladesh Pediatric Pulmonology Forum, Dhaka Bangabandhu Medical University, 1-2 December 2017, Dhaka
40. How do I manage tuberculosis in children in Pediatric Conference of North India and First National Conference on Research in Child health, IAP Delhi, 22 December 2017, Delhi
41. Research in acute respiratory tract infection - Contribution from AIIMS, Delhi, in Pediatric Conference of North India and First National Conference on Research in Child health, IAP Delhi, 22 December 2017, Delhi
42. Panel discussion on Pediatric TB: Newer Diagnostic and Treatment Guidelines, In PEDICON 2018 CME, 4 January 2018, Nagpur
43. Panel discussion: Respiratory viruses, In PEDICON 2018 Respiratory Chapter Meeting, 5 January 2018, Nagpur
44. Cystic fibrosis in India: When to suspect and how to make a diagnosis, PEDICON 2018 CME, 5 January 2018, Nagpur
45. Approach and management of under five wheezers, First North Delhi Pediatric Conference (NDPC), North Delhi IAP Branch 18 March 2018, Rohini, Delhi
46. Pharmacokinetics of antituberculosis drugs in children, World TB Day Celebration, Department of Microbiology, AIIMS, 22 March 2018, New Delhi
47. Vaccination in an allergic child, 2nd CME on Childhood allergies, Division of Pediatric Emergency, Critical Care, Pulmonology and Allergic Disorders, Institute of Child Health, Sir Ganga Ram Hospital in Association with IAP Respiratory Chapter Delhi, Allergy and Applied Immunology Chapter of IAP and Indian College of Allergy, Asthma and Immunology (ICAAI), 24-25 March 2018, Sir Ganga Ram Hospital, New Delhi
48. Allergy in health care personnel, 2nd CME on Childhood allergies, Division of Pediatric Emergency, Critical Care, Pulmonology and Allergic Disorders Institute of Child Health, Sir Ganga Ram Hospital in Association with IAP Respiratory Chapter Delhi, Allergy and Applied Immunology Chapter of IAP and Indian College of Allergy, Asthma and Immunology (ICAAI), 24-25 March 2018, Sir Ganga Ram Hospital, New Delhi

Rakesh Lodha

1. Study designs; Methods; References; Language and style, UGC KIIT/KIMS Faculty Development Program, 26-19 June 2017, KIIT, Bhubaneswar, Orissa
2. English language, Workshop on research writing and publishing in medicine, 27-29 August 2017, Bir Hospital, Kathmandu, Nepal
3. Results, Workshop on research writing and publishing in medicine, 27-29 August 2017, Bir Hospital, Kathmandu, Nepal
4. Abstract, Workshop on research writing and publishing in medicine, 27-29 August 2017, Bir Hospital, Kathmandu, Nepal
5. Panelist, Panel discussion on getting the paper published in an indexed journal, 1st National Conference on Research in Child Health, 22 -24 December, 2017, New Delhi

Kana Ram Jat

1. Upper airways: Acute obstruction (infection/non infectious), AIIMS Pediatric Pulmonology and Intensive Care Course: Module VI, 15 April 2017, New Delhi
2. Acute pulmonary involvement in systemic diseases, AIIMS Pediatric Pulmonology and Intensive Care Course: Module VI, 16 April 2017, New Delhi
3. Diagnosis and management of pulmonary illness in cystic fibrosis, Cystic Fibrosis Parent Education Meet, 23 April 2017, New Delhi
4. Rhythm disturbances and defibrillator, IAP-Advanced Life Support Course, 13 May 2017, New Delhi
5. Skill station-shock, IAP-Advanced Life Support Course, 14 May 2017, New Delhi
6. Correlation of anatomy with endoscopic view, 3rd Annual Pediatric Bronchoscopy Workshop and Pulmonology CME, 22 July 2017, Gurgaon

7. Lessons learnt from swine flu epidemic, 3rd Annual Pediatric Bronchoscopy Workshop and Pulmonology CME, 23 July 2017, Gurgaon
8. Oxygen therapy/ HHHFNC (Understanding the device and indications and monitoring), RESPICON 2017 Workshop - Basic Pediatric Pulmonary Procedures, 27 October 2017, Bangalore
9. Chest CT, RESPICON 2017 Workshop - Basic Pediatric Pulmonary Procedures, 27 October 2017, Bangalore

Jhuma Shankar

1. Case based discussion: Acute asthma (Moderator), NCPCC 2017, 4 and 5 November 2017, Chandigarh
2. Hyperferritinemia in the ICU (Speaker), NCPCC 2017, 4 and 5 November 2017, Chandigarh
3. Triaging in PICU: Panel discussion (Moderator), NCPCC 2017, 4 and 5 November 2017, Chandigarh
4. Dengue shock: Panel discussion, PEDICON 2018, 4-7 January 2018, Nagpur

Dhaneshwar Yadav MSSO

1. How to mobilize financial assistances for cancer patients, Public Lecture and panel discussion on Cancer Awareness Programme, 8 February 2017, AIIMS, New Delhi

Oral papers/posters presented

Endocrinology

1. Jain V, Jana M, Strong association of central obesity and insulin resistance with non-alcoholic fatty liver disease in overweight Asian Indian adolescents, Oral presentation as e poster, 43rd Annual Conference of International Society for Pediatric and Adolescent Diabetes, 18 October 2017, Innsbruck, Austria
2. Jain V, Satapathy A, Sharma R, Ellard S, De Franco E, Venkatesan R, Viswanathan M, Clinical and molecular characterization of children with neonatal diabetes mellitus at a tertiary care centre in North India, 43rd Annual Conference of International Society for Pediatric and Adolescent Diabetes, 18 October 2017, Innsbruck, Austria
3. Kakali Roy, Sharma R, Jain V. Dreadful consequence of honeymoon phase of type 1 diabetes mellitus: Lead toxicity, Indian Society of Pediatric and Adolescent Endocrinology (ISPAE) Biennial Conference, 24-26 November 2017, Coimbatore
4. Kakali Roy, Sharma R, Jain V. Parathyroid Hormone Injection (rhPTH 1-34) as a life-saving measure for normocalcemic tetany in a child with autoimmune polyendocrinopathy, Indian Society of Pediatric and Adolescent Endocrinology (ISPAE) Biennial Conference, 24-26 November 2017, Coimbatore
5. Kakali Roy, Sharma R, Jain V. Severe Hypercalcemia as a Presenting Feature of Occult Acute Lymphoblastic leukemia: Diagnostic dilemma, Indian Society of Pediatric and Adolescent Endocrinology (ISPAE) Biennial Conference, 24-26 November 2017, Coimbatore
6. Sharma R, Jain V. Intramuscular ACTH stimulation test in the diagnosis of adrenal insufficiency in children, Indian Society of Pediatric and Adolescent Endocrinology (ISPAE) Biennial Conference, 24-26 November 2017, Coimbatore (**First Prize Poster**)

Gastroenterology

1. Maji P, Malik R, Transjugular liver biopsy in children, PEDGASTROCON 2017, 26-28 October 2017, Convention Centre, Guwahati
2. Maji P, Malik R, BRTO in children, PEDGASTROCON 2017, 26-28 October 2017, Convention Centre, Guwahati
3. Deswal S, Malik R, Validation of celiac point of care test in a north Indian population, PEDGASTROCON 2017, 26-28 October 2017, Convention Centre, Guwahati
4. Maji P, Malik R, Tufting enteropathy in children, PEDGASTROCON 2017, 26-28 October 2017, Convention Centre, Guwahati

Genetics

1. Sabharwal A, Vellarikal SK, Kumar R, Verma A, Dhochak N, Mishra A, et al. Nuclear-mitochondrial cross-talk: Implications in mitochondrial function and disease pathophysiology, 2nd MMM Genetics Meeting 2017, The Madras Medical Mission, September 2017, Chennai
2. Mishra P, Correa A, Langeh N, Kabra M, Gupta N, Epigenetic abnormalities of 11p15 region in Beckwith - Weidemann Syndrome and Silver Russell Syndrome - A report of eight cases from a Tertiary Care Centre, 4th National Conference of Society for Indian Academy of Medical Genetics, 8 December 2017, Thiruvananthapuram

3. Anand V, Gupta A, Gupta N, Sapra S, Pandey RM, Gulati S, et al. Association of sleep apnoea with development and behaviour related abnormalities in Down Syndrome, 4th National Conference of Society of Indian Academy of Medical Genetics, 8-10 December 2017, Trivandrum (**1st Prize in poster presentation**)
4. Sankar A, Kabra M, Shukla R. STR haplotyping and *ATM* mutation analysis in Indian Ataxia telangiectasia families, 4th National Conference of Society for Indian Academy of Medical Genetics (SIAMG), 8-12 December 2017, Thiruvananthapuram
5. Mishra P, Correa A, Yadav S, Sudarsdhan S, Roy Choudhary M, Kabra M, et al. Clinical spectrum of disorders of segmental overgrowth at a tertiary care centre, 4th National Conference of Society for Indian Academy of Medical Genetics, 8 December 2017, Thiruvananthapuram
6. Shukla R, Haghayegh SZ, Nakamura K, Sankar A, Kabra M, Gatti RA. Spectrum of mutations in Indian ataxia telangiectasia patients, 43rd Annual Meeting of the Indian Society of Human Genetics, 12-14 March 2018, CSIR-CCMB Hyderabad
7. Sudarshan S, Gulati S, Kabra M, Gupta N, Sapra S, Kumar A, et al. Association of mutation spectrum and TAND characteristics of patients with Tuberous Sclerosis Complex, INDO-US Symposium on Human Genetic disorders of Prenatal and Postnatal Growth and 4th National Conference of SIAMG, 8-10 December 2017, Thiruvananthapuram, Kerala

Neonatology

1. Sankar MJ, Chaurasia S, CP Yadav, Arya S, Ramji S, et al, Neonatal care-related factors emerge as stronger risk factors in early-onset sepsis: Findings from a multicenter, prospective study from Delhi, Pediatric Academic Societies (PAS) 2017 Annual Meeting, 6 May 2017, Moscone Center, San Francisco, California, USA
2. Sahoo T, Madathil S, Joshi M, Thukral A, Agarwal R, Deorari A, et al. QI for reduction of false alarms, NEOCON 2017, 7-10 December 2017, Gurgaon
3. Suma S, Thukral A, Agarwal R, Deorari A, Paul VK, Sankar MJ. Neonatal cholestasis: 5 years' experience from a Tertiary Care Center, NEOCON 2017, 7-10 December 2017, Gurgaon
4. Sharma A, Agarwal R, Sankar MJ, Thukral A, Deorari A, Paul VK. Fetal and neonatal arrhythmias, NEOCON 2017, 7-10 December 2017, Gurgaon
5. **Sachdeva A**, Deorari AK, Kumar P, Goel S, Sharma M, Chawla D. Quality Improvement (QI) Program (Simulation Hub and Spoke Model) to improve the healthy survival of preterm neonates without severe Retinopathy of Prematurity (ROP) in Level-2 Neonatal Units in India, Annual Neonatal Simulation and TEL Conference, Simulating Together to Improving Outcomes Southampton, 26 and 27 September 2017, St Mary's Stadium, Southampton, UK
6. Priyadarshi M, Sachdeva A, M Jeeva Sankar, R Agarwal, Ashok Deorari. Innovative Idea for Improving Neonatal Care: Interactive Smartphone Apps AIIMS –WHO CC STPs App on Android and iOS, NEOCON 2017, Gurugram
7. Shamnad Madathil, Pratima Anand, Harish Punia, Vinod K Paul, Anu Sachdeva, Jeeva Sankar, et al. Non immune hydrops in neonates: A tertiary care center experience, NEOCON 2017, Gurugram
8. Akash Sharma, Surjeet Kumar, Anu Thukral, M Jeeva Sankar, R Agarwal, Ashok Deorari, et al. Profile of fetal and neonatal arrhythmias-Experience from a tertiary care neonatal unit, NEOCON 2017, Gurugram
9. Tanushree Sahoo, Shamnad Madathil, Meena Joshi, Anu Thukral, Ramesh Agarwal, Ashok Deorari, et al. A quality improvement initiative in NICU for reduction of false alarms from multipara monitors, NEOCON 2017, Gurugram
10. Meena Joshi, Ashok Deorari, Pratima Anand, Poonam Joshi, Deena Thomas, Anu Sachdeva, et al. Sustenance tips for Quality Improvement (QI) initiatives in Neonatal Intensive Care Unit (NICU), NEOCON 2017, Gurugram
11. Sowmya Devarapalli, Shamnad Madathil, Parijat Chandra, Anu Thukral, M Jeeva Sankar, Ramesh Agarwal, et al. Establishing a pediatric high dependency unit at a tertiary eye care hospital: The AIIMS experience, NEOCON 2017, Gurugram
12. Tanushree Sahoo, Sindhu Sivanandan, Deena Thomas, Anu Thukral, Ramesh Agarwal, Ashok Deorari, et al. Congenital diaphragmatic hernia: An inborn unselected cohort experience from a perinatal centre in India, NEOCON 2017, Gurugram

Nephrology

1. Khandelwal P, Sinha A, Puraswami M, Hari P, Bagga A, for the HUS Consortium. Improved outcomes with prompt management of anti-factor H associated atypical hemolytic uremic syndrome in children: Trends from nationwide database (Oral), 50th Annual Congress of the European Society of Pediatric Nephrology, 6 September 2017, Scottish Exhibition and Conference Centre, Glasgow, UK
2. Sinha A, Hari P, Bagga A. Randomized controlled trial on efficacy of short duration prednisolone in steroid sensitive nephrotic syndrome, XIII Triennial Congress of the Asian Society of Pediatric Nephrology, 6 October 2017, Kuala Lumpur (**Best Nephrology Oral Paper award**)

3. Sinha A, Khandelwal P, Puraswani M, Hari P, Bagga A. Plasma Exchanges (PEX) for atypical hemolytic uremic syndrome: Audit of efficacy and safety, XIII Triennial Congress of the Asian Society of Pediatric Nephrology, 5-7 October 2017, Kuala Lumpur
4. Meena J, Sinha A, Hari P, Bagga A. Efficacy of combination of oral tolvaptan and intravenous furosemide in patients with severe edema due to nephrotic syndrome, XIII Triennial Congress of the Asian Society of Pediatric Nephrology, 5-7 October 2017, Kuala Lumpur
5. Patnaik SK, Kumar P, Barnal M, Patel S, Yadav MP, Kumar V, et al. Nail fold capillaroscopy for evaluation of microangiopathy in childhood nephrotic syndrome in childhood, XIII Triennial Congress of the Asian Society of Pediatric Nephrology, 5-7 October 2017, Kuala Lumpur
6. Patnaik SK, Kumar P, Barnal M, Patel S, Yadav MP, Kumar V, et al. Microvascular endothelial dysfunction in childhood nephrotic syndrome, XIII Triennial Congress of the Asian Society of Pediatric Nephrology, 5-7 October 2017, Kuala Lumpur
7. Mittal S, Khandelwal P, Sinha A, Hari P, Bagga A. Cyanosis after dialysis: Potential complication of dialysis water contamination, The 29th Annual Conference of Indian Society of Pediatric Nephrology, 12-14 October 2017, Medanta, The Medicity, Gurugram
8. Patnaik SK, Kumar P, Barnal M, Patel S, Yadav MP, Kumar V, et al. Nail fold capillaroscopy for evaluation of microangiopathy in childhood nephrotic syndrome in childhood, The 29th Annual Conference of Indian Society of Pediatric Nephrology, 12-14 October 2017, Medanta, The Medicity, Gurugram
9. Patnaik SK, Kumar P, Barnal M, Patel S, Yadav MP, Kumar V, et al. Microvascular endothelial dysfunction in childhood nephrotic syndrome, The 29th Annual Conference of Indian Society of Pediatric Nephrology, 12-14 October 2017, Medanta, The Medicity, Gurugram

Neurology

1. Gupta A, Gulati S, Chakrabarty B, Jauhari P, Jain V, Gupta A, et al. Effect of structured weight bearing exercises on bone mineral density in children with cerebral palsy, Paediatric Conference of North India-1st National Conference on research in child health, 22-24 December 2017, New Delhi (**Received 1st Prize in oral presentation**)
2. Sondhi V, Gulati S, Agarwala A, Chakrabarty B, Jauhari P, Lodha R, et al. Dietary Therapy In Epilepsy Treatment (DIET-Trial): A Randomised Non-Inferiority Trial Comparing KD, MAD and LGIT for Drug Resistant Epilepsy, Paediatric Conference of North India-1st National Conference on research in child health, 22-24 December 2017, New Delhi (**Received 2nd Prize in oral presentation**)
3. Farmania R, Gulati S, Lodha R, Chakrabarty B, Jauhari P, Sapra S, Kumar A, Pandey RM, Kabra S K. Profile of neurologic syndromes, cognition, behavior and sleep related problems in HIV infected children, Paediatric Conference of North India-1st National Conference on research in child health, 22-24 December 2017, New Delhi (**Received 3rd Prize in oral presentation**)
4. Aparna, Gulati S, Grover S. Comparative analysis of predominant gut micro flora and their metabolites in autistic versus normal children for probiotic interventions, Probiotic therapy: Translating to health and clinical practice, 4th Biennial Conference of PAi and International Symposium, 16-17 February 2018, AIIMS, New Delhi (**Received 3rd Prize in presentation**)
5. Israni A, Gulati S, Chakrabarty B, Paul VK, Sapra S, Pandey RM. Diagnostic utility of adapted version of parent administered developmental screening questionnaire ASQ3 (Ages and Stages Questionnaire Revision 3) in infants and children at risk for developmental delay, BPNA, 2017, Cambridge, UK
6. Israni A, Gulati S, Chakrabarty B, Paul VK, Kumar A, Kumaran S, Sapra S, Providing insights into the mechanism of modified Constraint Induced Movement Therapy in hemiparetic cerebral palsy-a functional MRI (fMRI) based study, BPNA, 2017, Cambridge, UK
7. Jauhari P, Farmania R, Chakrabarty B, Madaan P, Sondhi V, Kumar A, et al. Newer insights in clinic-radiologic and electro-encephalographic findings in children with lissencephaly, 32nd International Epilepsy Congress, 2-6 September 2017, Barcelona, Spain
8. Madaan P, Farmania R, Jauhari P, Chakrabarty B, Sondhi V, Gulati S. Autistic regression with epilepsy: Diagnostic clues from electrophysiology, 32nd International Epilepsy Congress, 2-6 September 2017, Barcelona, Spain
9. Manokaran R, Chakrabarty B, Gulati S, Tripathi M, Pandey RM. Sleep abnormalities and polysomnographic profile among children with drug resistant epilepsy, 32nd International Epilepsy Congress, 2-6 September 2017, Barcelona, Spain
10. Gulati S, Sondhi V, Chakrabarty B, Jauhari P, Lodha R, Sankar J, et al. Phenobarbitone coma in childhood status epilepticus, 32nd International Epilepsy Congress, 2-6 September 2017, Barcelona, Spain
11. Gulati S, Chakrabarty B, Jauhari P, Sondhi V, Gupta A. Genetic causes of pediatric epileptic encephalopathy: A retrospective chart review, 32nd International Epilepsy Congress, 2-6 September 2017, Barcelona, Spain

12. Gulati S, Sondhi V, Chakrabarty B, Jauhari P, Madaan P, Dubey R. Autoimmune epilepsy in children: Identification and management strategies, 32nd International Epilepsy Congress, 2-6 September 2017, Barcelona, Spain
13. Gulati S, Sondhi V, Chakrabarty B, Jauhari P, Patel H, Dubey R, Paul VK, Comprehensive epilepsy care: Empowering health care professionals and care givers in resource constrained settings, 32nd International Epilepsy Congress, 2-6 September 2017, Barcelona, Spain
14. Chakrabarty B, Madaan P, Jauhari P, Sondhi V, Sharma S, Gulati S. The clinical and electroencephalographic spectrum of ESES (Encephalopathy with status epilepticus in sleep) in Indian children, 32nd International Epilepsy Congress, 2-6 September 2017, Barcelona, Spain
15. Gulati S, Sondhi V, Chakrabarty B, Jauhari P, Patel H, Kaushik JS, et al. Mobile applications for neurodevelopmental disorders and epilepsy empowering health care professionals and care givers in resource constrained settings, 2nd International Developmental Pediatric Association Congress, 2017, 7-10 December 2017, Mumbai, India

Oncology

1. Seth R, Kapoor G, Arora RS, Das A, Kumar A, Verma N, et al. The Indian childhood cancer survivorship study (C2S study): After treatment completion registry of childhood cancers-phase-I A InPOG-IE-16-01 Study, PHOCON, 25 November 2017, Kolkata
2. Panda PK, Lodha R, Gupta SD, Gupta AK, Seth R. Clinicopathological analysis of malignant mediastinal masses in children, PHOCON, 25 November 2017, Kolkata
3. Arora RS, Taluja A, Arora PR, Bagai P, Seth R, G Kapoor, A survey on delivery of care to childhood cancer survivors in India, PHOCON, 25 November 2017, Kolkata
4. Mahajan A, Arora RS, Dinand V, Kalra M, Jain S, Bakhshi S, et al. First report on newly diagnosed Indian childhood Hodgkin lymphoma patients treated on a risk-stratified response-based collaborative protocol (InPOG-HI-15-01), PHOCON, 25 November 2017, Kolkata
5. Panda PK, Lodha R, Gupta SD, Gupta AK, Seth R, Clinicopathological analysis of malignant mediastinal masses in children, Indian Cancer Congress, 8-12 November 2017, Bangalore
6. Yadav J, Singh A, Seth R, I Xess, M Jana, S Kabra, Prevalence and predictors of invasive fungal infections in children with persistent febrile neutropenia treated for acute leukemia-A Prospective Study, SIOP, October 2017, Washington
7. Chawla B, Hasan F, Agarwal R, Seth R, Pathy S, Sharma S, Treatment results in extra-ocular retinoblastoma with invasion of the optic nerve at presentation, SIOP, October 2017, Washington
8. Ahad A, Seth R, SK Kabra, Vishnu S. Prevalence of tuberculosis infection in children with acute leukemia, SIOP, October 2017, Washington
9. Priya P, Gupta A, Seth R, Sankar J, Prevalence of malnutrition in Indian children with malignancies-A Retrospective Study, SIOP, October 2017, Washington
10. Seth R, Singh A, Sapra S, Seth S, Late effects of treatment in survivors of childhood cancers: Experience from India, SIOP, October 2017, Washington
11. Meena JP, Gupta AK, Singh A, Seth R, Clinical profile and treatment outcome of non Hodgkin lymphoma in children: A report from a tertiary care hospital from developing country, Midterm CME Pediatric Hemato-Oncology, 1-2 July 2017, India Habitat Center, 2017
12. Gupta A. Programmed death-ligand 1 expression in a large cohort of pediatric patients with solid tumor and association with clinicopathologic features in neuro blastoma, Global Neuro Blastoma Network Meeting: Cure4Kids (St Jude's), 29 August 2017, Online presentation

Pulmonology, Intensive Care, Tuberculosis

1. Gunathilaka PKG, Jat KR, Sankar J, Lodha R, Kabra SK. Comparison of intravenous propofol and fentanyl for conscious sedation in paediatric bronchoscopy: A randomised controlled trial, 29th Annual Conference of Respiratory Chapter of Indian Academy of Pediatrics 22nd (RESICON 2017), IAP respiratory chapter and IAP Bangalore, 26-29 October 2017, Bangalore (**Awarded first prize**)
2. Chattopadhyay A, Mukherjee A, Jat KR, Kabra SK, Lodha R. Obstructive airflow limitation in preschool children affected by rhinovirus acute respiratory tract infection in infancy and the associated interactive factors: The Indian perspective, 29th Annual Conference of Respiratory Chapter of Indian Academy of Pediatrics 22nd (RESICON 2017), IAP Respiratory Chapter and IAP Bangalore, 26-29 October 2017, Bangalore (**Awarded first prize**)
3. Gulla KM, Gunathilaka PKG, Jat KR, Sankar J, Lodha R, Kabra SK. Utility and Safety of Endobronchial ultrasound-guided transbronchial needle aspiration (EBUS-TBNA) and Endoscopic Ultrasound with an Echobronchoscope-Guided Fine Needle Aspiration (EUS-B-FNA) in children with mediastinal lymphadenopathy, 29th Annual Conference of Respiratory Chapter of Indian Academy of Pediatrics 22nd (RESICON 2017), IAP Respiratory Chapter and IAP Bangalore, 26-29 October 2017, Bangalore

4. Kumar K, Lodha R, Jat KR, Jain V, Kabra SK. Prevalence of metabolic abnormalities in children with asthma: A cross-sectional study, 29th Annual Conference of Respiratory Chapter of Indian Academy of Pediatrics 22nd (RESICON 2017), IAP Respiratory Chapter and IAP Bangalore, 26-29 October 2017, Bangalore
5. Kumar A, Agarwal B, Jat KR, Lodha R, Kabra SK. Clinical profile of children with cystic fibrosis surviving through adolescence and beyond, 29th Annual Conference of Respiratory Chapter of Indian Academy of Pediatrics 22nd (RESICON 2017), IAP Respiratory Chapter and IAP Bangalore, 26-29 October 2017, Bangalore
6. Gupta S, Jat KR, Mukherjee A, Sankar J, Lodha R, Kabra SK. Clinical profile of children with primary ciliary dyskinesia at a Tertiary Care Centre, 29th Annual Conference of Respiratory Chapter of Indian Academy of Pediatrics 22nd (RESICON 2017), IAP Respiratory Chapter and IAP Bangalore, 26-29 October 2017, Bangalore
7. Dhochak N, Jat KR, Lodha R, Kabra SK. Lentil aspiration: Clinical features, course of illness and outcome, 29th Annual Conference of Respiratory Chapter of Indian Academy of Pediatrics 22nd (RESICON 2017), IAP Respiratory Chapter and IAP Bangalore, 26-29 October 2017, Bangalore
8. Gupta P, Jat KR, Sankar J, Lodha R, Kabra SK. Gastroesophageal reflux in mechanically ventilated children: Not a risk factor for Ventilator Associated Pneumonia (VAP)? 29th Annual Conference of Respiratory Chapter of Indian Academy of Pediatrics 22nd (RESICON 2017), IAP Respiratory Chapter and IAP Bangalore, 26-29 October 2017, Bangalore
9. Takia L, Jat KR, Kabra SK, Lodha R. Thoracic lymphatic disorders in Pediatric Age Group: A single center experience, 29th Annual Conference of Respiratory Chapter of Indian Academy of Pediatrics 22nd (RESICON 2017), IAP Respiratory Chapter and IAP Bangalore, 26-29 October 2017, Bangalore
10. Jat KR, Kumar P, Mukherjee A, Randev S, Jose B, Kalaivani M, et al. Risk factors for wheezing after an acute respiratory infection: Results from a birth cohort study (Poster), 16th International Congress on Pediatric Pulmonology (CIPP), 22-25 June 2017, Lisbon, Portugal
11. Gulla KM, Sankar J, Lodha R, Kabra SK. Decreasing time to recognition and administration of first dose of antibiotics in children with septic shock (Oral), NCPIC 2017, November 2017, Chandigarh
12. Gupta S, Sankar J. Risk factors for sepsis induced myocardial dysfunction (Oral), NCPIC 2017, November 2017, Chandigarh
13. Kumar A, Sankar J. Risk factors for mortality in children with severe dehydration and shock (Poster), NCPIC 2017, November 2017, Chandigarh

Rheumatology

1. Bagri NK, Tripathy SK, et al. Efficacy and safety of biological agents in juvenile idiopathic arthritis (Poster), National Conference of Pediatric Rheumatology Society, 28-29 October 2017, Swabhum, Kolkata
2. Bagri NK, Kabra SK, et al. Arthritis: Thinking beyond infection and JIA (Oral), 2017 Hong Kong APSID (Asia Society of Primary Immune Deficiency) Autumn School, 9-10 October 2017, Centennial Campus, The University of Hong Kong, Hong Kong
3. Bagri NK, Kabra SK, et al. X-linked Agammaglobulinemia: An extortionate disease, 4th National Conference of Primary Immune Deficiency, 10-11 March 2018, Jaipur

RESEARCH

Funded projects

Ongoing

Endocrinology

1. Efficacy of a family based comprehensive yoga program for weight reduction among overweight children and adolescents: An RCT, Vandana Jain, Ministry of Ayush, 3 years, 2016-19, Rs 51.6 lakhs
2. Improving diagnosis and management of inherited rare disorders of sex development in India, Vandana Jain, ICMR, 2 years, 2017-19, Rs 47 lakhs
3. Optimizing insulin and diet regimes for children with type 1 diabetes in low resource settings, Vandana Jain, Department of Health Research, 2.5 years, 2017-20, Rs 25 lakhs
4. Hypoxia adaptation and pregnancy outcome study, Vinod Paul and Vandana Jain, Wellcome Trust, 1.5 years, 2016-18, Rs 43 lakhs
5. Bone Mineral Density in Children and Adolescents with Congenital Adrenal Hyperplasia receiving Physiological Steroid Replacement, Rajni Sharma, AIIMS Intramural, 2 years, 2016-18, Rs 2.5 lakhs

Gastroenterology

1. Evaluation of thrombophilic factors and defects in fibrinolysis in children with hepatic venous outflow tract obstruction in children, Rohan Malik, AIIMS Intramural, 1 year, 2016-17, Rs 5 lakhs

Genetics

1. APW on Quality Assurance and Quality Improvement for Birth Defects surveillance in SEAR, Madhulika Kabra, WHO, 1 year, 2018-19, Rs 12 lakhs
2. Prenatal screening initiative by dried blood spots: Role for triaging and resource utilization, Neerja Gupta, Madhulika Kabra, DBT, 3 years, 2016-19, Rs 17.86 lakhs
3. Minimally Invasive Autopsy (MIA) in the evaluation of fetal malformations and still births-A feasibility study for the development of a standard protocol for still birth evaluation, Neerja Gupta, Madhulika Kabra, ICMR, 3 years, 2017-20, Rs 29.59 lakhs
4. Identifying the Spectrum of Mutations in Indian Ataxia telangiectasia Patients, Rashmi Shukla, DBT, 3 years, 2014-17, Rs 34.87 lakhs
5. Multicentric Collaborative Study Of The Clinical Biochemical and Molecular Characterization Of Lysosomal Storage Disorders in India: The Research Initiative For Research in Lysosomal Storage Disorders, Madhulika Kabra, ICMR, 3.5 years, 2016-18, Rs 50 lakhs

Neonatology

1. Regional learning platform for capacity building dissemination of POCQ approach in SE Asia, A.K. Deorari, SEARO-WHO, 1 year, 2018-19, Rs 31.85 lakhs
2. Reducing Retinopathy of Prematurity by improving the quality of neonatal care in special care Neonatal Units, A.K. Deorari, PHFI, 3.5 years, 2015-18, Rs 114.03 lakhs
3. Development of e-Learning package on Quality Improvement at Health Facilities based on the Regional QI training package, A.K. Deorari, WHO, 1 year, 2017, Rs 10.5 lakhs
4. Efficacy and safety of an innovative and affordable goat lung surfactant in preterm neonates, Ramesh Agarwal, Wellcome Trust, UK, 3 years, 2015-18, Rs 10 crores
5. Molecular Epidemiology of Multidrug Resistant (MDR) Acinetobacter Infection in Neonates in India, M Jeeva Sankar, ICMR, New Delhi, 2 years, 2017-19, Rs 84 lakhs
6. Understanding disease biology and diagnosis of bacterial sepsis in hospitalized neonates: A multi-centre study, Ramesh Agarwal, Krishnamohan Atmakuri, DBT, 2 years, 2015-17, Rs 1.7 crores
7. Facilitation of NeoAMR Global Observational Study: A prospective cohort study of sepsis in hospitalized neonates, Ramesh Agarwal, M Jeeva Sankar, DNDi/GARDP, 1.5 years, 2018-19, Rs 22 lakhs
8. Comparative genomic analysis of Klebsiella spp. isolated from hospitalized neonates and immediate hospital environment, M Jeeva Sankar, AIIMS Intramural, 1 year, 2017-18, Rs 5 lakhs (Rs 8.37 crores would be paid directly to CDSA as pass through cost of sites and CRO cost).

Nephrology

1. International study on atypical hemolytic uremic syndrome, Arvind Bagga, CEFIPRA (DST), 3 years, 2016-19, Rs 12.25 lakhs
2. Pediatric Renal Biology Program: Research on nephrotic syndrome, Arvind Bagga, DBT, 5 years, 2016-21, Rs 800 lakhs
3. Randomized, multicentric, open label, parallel group trial to compare the efficacy of 6-months versus 3-months therapy with prednisolone for the first episode of idiopathic nephrotic syndrome in children younger than 4 years, Arvind Bagga, DBT, 5 years, 2016-21, Included in above
4. Serum and urinary microRNAs as biomarkers of renal histology and response to therapy in children with steroid resistant nephrotic syndrome, Arvind Bagga, DBT, 5 years, 2016-21, Included in above
5. Autoantibody associated alternative complement pathway dysregulation in nephrotic syndrome secondary to membranoproliferative glomerulonephritis, Pankaj Hari, DBT, 3 years, 2016-2019, Included in above
6. Proposal for ICMR Advanced Centre for Research in Pediatric Kidney Diseases, Arvind Bagga, ICMR, 5 years, 2017-22, Rs 160.95 lakhs
7. Randomized open labeled controlled trial to compare the efficacy and safety of levamisole versus long term alternate days steroids made daily during infection, in patients with frequently relapsing steroid sensitive nephrotic syndrome, Arvind Bagga, ICMR, 5 years, 2017-22, Included in above
8. Open label, randomized, controlled trial to compare the efficacy of daily therapy with low dose prednisolone vs. standard therapy on alternate days in patients with frequently relapsing or steroid dependent nephrotic syndrome, Arvind Bagga, ICMR, 5 years, 2017-22, Included in above
9. Establishing a biorepository and registry for patients with hemolytic uremic syndrome, Arvind Bagga, ICMR, 5 years, 2017-22, Included in above

10. Whole exome sequencing in patients with non-diarrheal and non-autoimmune form of hemolytic uremic syndrome, Arvind Bagga, ICMR, 5 years, 2017-22, Included in above
11. Pilot study of genetic variations among Indian children with vesicoureteral reflux, Pankaj Hari, ICMR, 5 years, 2017-22
12. Formulating and disseminating evidence-based guidelines for diagnosis and therapy of childhood renal illnesses, Arvind Bagga, ICMR, 5 years, 2017-22
13. Anti-complement factor H (FH) associated Hemolytic Uremic Syndrome (HUS) in children: Immunological and genetic basis, and functional characterization of autoantibodies, Aditi Sinha, DST, 3 years, 2017-20, Rs 68.21 lakhs

Neurology

1. Blood heavy metal levels and quantitative EEG correlates in children with autism, Sheffali Gulati, ICMR, 3.5 years, 2014-18, Rs 49.04 lakhs
2. Multi center randomized double blind placebo controlled trial to evaluate the effects of intra erythrocyte dexamethasone sodium phosphate on neurological symptoms in patients with Ataxia Telangiectasia, Sheffali Gulati, EryDel, S.p.A, Italy, 2017-continuing, Rs 72 lakhs
3. A randomized, double blind placebo controlled six month study to evaluate the efficacy, safety and tolerability of Sarizotan in patients with Rett syndrome with respiratory symptoms, Sheffali Gulati, Neuron Pharmaceuticals, Italy, 2017-ongoing, Rs 42 lakhs
4. Validation and Indian Adaptation of the adapted ASQ-3 (Ages and Stages Questionnaire) as a developmental screening tool as compared to reference standard tool (DASII-Developmental Assessment Scale for Indian Infants) in at risk Indian children 2 to 24 months of age, Sheffali Gulati, ICMR, 2 years, 2017-continuing, Rs 19.01 lakhs
5. Serum matrix metalloproteinase-9: A potential biomarker for predicting calcification and epilepsy in Neurocysticercosis; a longitudinal observational study, Biswaroop Chakrabarty, AIIMS Intramural, 2 years, 2016-continuing, Rs 5 lakhs
6. Serum SICAMS and MMP9/TIMP-1 ratio: Potential predictors of disease activity in children with encephalopathy with Electrical Status in Sleep (ESES) syndrome, Prashant Jauhari, AIIMS Intramural, 2 years, 2018-continuing, Rs 5 lakhs
7. A Phase 3, Randomised, Double blind, Placebo-controlled efficacy and safety study of Ataluren in patients with non sense mutation Duchenne Muscular Dystrophy and Open label extension, Sheffali Gulati, PTC Therapeutics, USA, 2 years, 2018-continuing, Rs 50 lakhs
8. Establishment of Child Neurology Helpline and Tele-consultation services for Neurodevelopmental Disorders affecting infants, children and adolescents from 1 month to 18 years of age, Sheffali Gulati, Partly funded by AIIMS GIA (supported by MOHFW) and IIFCL (as part of CSR), 5 years, 2018-ongoing, Part of COE (Rs 11.3 crores)
9. National Registry for Neurodevelopmental Disorders affecting infants, children and adolescents from 1 month to 18 years of age, Sheffali Gulati, Partly funded by AIIMS GIA (supported by MOHFW) and IIFCL (as part of its CSR), 5 years, 2018-ongoing, Part of COE (Rs 11.3 crores)
10. National Knowledge, Resource and Training Centre for Neurodevelopmental Disorders affecting infants, children and adolescents from 1 month to 18 years of age, Sheffali Gulati, Partly funded by AIIMS GIA (supported by MOHFW) and IIFCL (as part of its CSR), 5 years, 2018-ongoing, Part of COE (Rs 11.3 crores)
11. Autism Spectrum Disorder in Indian children and adolescents aged 18 months to 18 years; a clinical and exome sequencing based study, Sheffali Gulati, Partly funded by AIIMS GIA (supported by MOHFW) and IIFCL (as part of its CSR), 5 years, 2018 - Ongoing Ethical approval under process, Part of COE (Rs 11.3 crores)
12. Gluten free and casein free diet in Autism Spectrum disorders (ASDs): A single blind randomized controlled trial, Professor Sheffali Gulati, Partly funded by AIIMS GIA (supported by MOHFW) and IIFCL (as part of its CSR), 5 years, 2018 - Ongoing Ethical approval under process, Part of COE (Rs 11.3 crores)
13. Etiological profile of infants, children and adolescents presenting with acute, subacute and chronic encephalitis/ encephalopathy in a tertiary care centre in north India, Professor Sheffali Gulati, Partly funded by AIIMS GIA (supported by MOHFW) and IIFCL (as part of its CSR), 5 years, 2018-Ongoing, Part of COE (Rs 11.3 crores)
14. To develop textile-based and technology-based innovations for rehabilitation in children and adolescents aged 2 to 18 years with Autism Spectrum Disorder and Cerebral Palsy, Professor Sheffali Gulati, Partly funded by AIIMS GIA (supported by MOHFW) and IIFCL (as part of its CSR), 5 years, 2018-Ongoing, Part of COE (Rs 11.3 crores)
15. COMPASS: Communication-focused parent-mediated treatment for Autism Spectrum Disorder in South Asia trial (University of Manchester and Sangath), Professor Sheffali Gulati, MRC, UK, 4 years, 2018-ongoing

16. Development and validation of a scalable mobile platform for screening of developmental neuropsychiatric disorders in low-resource settings: START-Screening Tools for Autism Risk using Technology (MRC Foundation Award Scheme, UK), Professor Sheffali Gulati, MRC, UK, 3 years, 2017-19, GBP, Rs 10.9 lakhs

Oncology

1. Chemo to Cure (C to C) study of cancer survivorship, Rachna Seth, JIV DAYA Foundation, 7 years, 2011-19, Rs 120 lakhs
2. Molecular alterations in childhood Acute Lymphoblastic Leukemia (ALL): Role of Cytokine receptor – like Factor-2 (*CRLF2*) rearrangements and Janus Kinase (JAK) mutation, Rachna Seth, ICMR, 3 years, 2015-18, Rs 29 lakhs
3. Integrated molecular biology of biological markers: Role of copy number alterations of genes in Indian Childhood B Lineage Acute Lymphoblastic Leukemia, Nivedita, Rachna Seth, UGC women Scientist Fellowship, 5 years, 2018-22, Rs 40 lakhs
4. To determine the role of *Ikzf1* gene and various IKAROS isoforms in pathogenesis of B cell acute lymphoblastic leukemia (BALL) in Indian pediatric population, Kakali Purkayastha, Rachna Seth, DBT under BIOCARE grant, 3 years, 2018-20, Rs 60 lakhs
5. A collaborative, multicentre, national study for newly diagnosed patients with acute lymphoblastic leukaemia: ICiCle, Rachna Seth, National Cancer Grid and ICMR, 5 years, 2017-22, Rs 30 lakhs Funds jointly received for Pediatrics and IRCH (Dr Sameer Bakhshi)
6. Assessing the efficacy of Rituximab (anti CD 20 antibody) added to standard chemotherapy versus standard chemotherapy alone in achieving lower minimal residual disease after induction phase of chemotherapy in CD 20 positive children with Acute Lymphoblastic Leukemia: A pilot study, Aditya Kumar Gupta, AIIMS Intramural, 3 years, 2017-18, Rs 3.5 lakhs

Pulmonology, Intensive Care, Tuberculosis

1. To develop Acute Respiratory Infection Treatment Units (ATUs) and assess their utility in improving healthcare and research in pneumonia related morbidity and mortality in India, SK Kabra, INCLEN (Bill Gates Malinda Foundation), Rs 196 lakhs
2. Effect of outdoor air pollution on acute respiratory symptoms in Delhi: A multisite study. Technical coordinator site, SK Kabra, ICMR, 1 year, 2017-18, Rs 56.21 lakhs
3. Early Detection of Sepsis in Paediatric Intensive Care Units through Integration of Clinical and Big Data, Rakesh Lodha, Wellcome Trust-DBT, 6 years, 2015-21, Rs 196.54 lakhs
4. Multiplex point-of-care test for acute febrile illness (mPOCT), Rakesh Lodha, THSTI, 1 year, 2017-18, Rs 15.59 lakhs
5. To study pharmacokinetics of second-line anti-tubercular drugs in children, Rakesh Lodha, DHR, 2 years, 2017-19, Rs 24.58 lakhs
6. Efficacy and safety of vitamin D supplementation in asthmatic children who are vitamin D deficient: A randomized controlled trial (ESDAC trial), Kana Ram Jat, ICMR, 2 years, 2017-19, Rs 34.88 lakhs
7. Balanced solution versus normal saline in initial fluid resuscitation in septic shock, Jhuma Sankar, DST, 3 years, 2017-19, Rs 71 lakhs
8. Honey versus standard treatment for bed sores in critically ill children, Jhuma Sankar, Pediatric Critical Care Research Grant-HARD Grant, 1 year, 2017-18, Rs 6.5 lakhs

Rheumatology

1. Predicting Response to Methotrexate in Children with Juvenile Idiopathic Arthritis: Role of Biomarkers, NK Bagri, AIIMS Intramural, 2 years, 2016-ongoing, Rs 4 lakhs per annum

Completed

Genetics

1. Quality assurance of SEARnet-NBBD database for Newborn and Birth defects, Madhulika Kabra, Neerja Gupta, WHO, 1 year, 2016-17, Rs 12 lakhs

Neonatology

1. Improving the quality of childbirth and neonatal care in Primary Health Centres in two districts in Haryana, India, Ramesh Agarwal, WHO, Geneva, 2 years, 2014-16, USD 25000

Neurology

1. Randomized Placebo Controlled Trial of Valproate and levocarnitine in Children with Spinal Muscular Atrophy aged 2-15 years, Professor Sheffali Gulati, AIIMS Intramural, 3 years, 2012-18, Rs 10 lakhs

Oncology

1. Molecular characterization for the prediction of relapse risk in Indian Acute Lymphoblastic Leukemia Patients, Nivedita Pathak, Rachna Seth, ICMR, 3 years, 2013-16, Rs 18.04 lakhs

Pulmonology, Intensive Care, Tuberculosis

1. GAN Global Surveillance: Prevalence, Severity, Management and Risk Factors, SK Kabra, Asthma Bhawan, Jaipur, 6 months, 2017-18, Rs 7.5 lakhs
2. Biomarker discovery in asthma using an integrated-omics approach, Rakesh Lodha, IGIB, 8 years, 2009-17, Rs 2.1 crores
3. Prevalence of Allergic Bronchopulmonary Aspergillosis in children with poorly controlled asthma and association with polymorphisms of surfactant protein A2, Mannan-binding lectin, Toll-like receptor 9 and Cystic Fibrosis Transmembrane Conductance Regulator genes, Kana Ram Jat, AIIMS intramural, 2 years, 2016-18, Rs 5.5 lakhs
4. Intermittent versus continuous ScvO₂ monitoring in children with septic shock, Jhuma Sankar, AIIMS Intramural, 2 years, 2015-17, Rs 8 lakhs

Departmental projects

Ongoing

1. Body composition of healthy term neonates at birth by air displacement plethysmography
2. Vitamin D supplementation and Glycemic status in children and Adolescents with Type 1 Diabetes mellitus: A double blinded randomized prospective study
3. Clinical and laboratory profile of inflammatory bowel disease in children in India: A multicentric study
4. Evaluation of Osteopontin as a biomarker and its relationship with phenotypic severity score in Enzyme naive children with Gaucher disease
5. Spectrum of Neurological Manifestations in Indian Patients with Gaucher Disease - A Prospective Study
6. Prevalence of Non Alcoholic Fatty Liver Disease (NAFLD) in Children with Down Syndrome
7. Quality improvement initiative to promote potentially best practices in the first week of life in preterm neonates <32 weeks gestation: Focus on prevention of bronchopulmonary dysplasia
8. Urinary metabolomic profile of healthy term neonates at postnatal age 24-72 hours
9. Fortification of EBM with preterm formula vs. human milk fortifier in preterm (28-34 weeks) VLBW Neonates: A randomized non inferiority trial
10. Comparison of performance of two point-of-care glucose meters in detection of hypoglycemia among at-risk neonates
11. Post-discharge morbidities following hospital birth in neonates of ≤ 32 week gestation or ≤ 1500 g birth weight at AIIMS –burden, reasons, risk factors and cost-of-care: A prospective cohort study.
12. Fentanyl versus ketamine for pain management during laser treatment for retinopathy of prematurity (ROP) - An interventional case series study
13. Comparison of physiological responses during kangaroo care by fathers and mothers in stable preterm neonates: A non inferiority cross over study
14. Macronutrient Composition of Preterm (< 32 weeks) Breast Milk - A Prospective Observational Study
15. Study of hematocrit profile in term and preterm at-risk infants during the initial 48 hours of life: A prospective cohort study
16. Incidence and risk factors of periventricular leukomalacia and/or intraventricular hemorrhage on transcranial ultrasound in neonates less than 32 weeks gestation or less than 1500 gm birth weight: A prospective cohort study
17. Efficacy of three different skin antiseptic preparations in neonates admitted in NICU: A randomized non inferiority trial
18. Correlation of cord blood and breast milk IGF-1 with neonatal adiposity among infants born to mothers with gestational diabetes mellitus at term gestation - A prospective cohort study
19. Comparison of three different methods of orotracheal tube length estimation in neonates: A postmortem study
20. Functional characterization of anti-factor H autoantibodies in patients with hemolytic uremic syndrome

21. Genetic basis of congenital nephrotic syndrome and correlation with clinical phenotype
22. Long-term outcomes of patients with anti-complement factor H associated atypical hemolytic uremic syndrome
23. Evaluation of metabolic abnormalities in children with nephrolithiasis
24. Cardiovascular outcomes in renal transplant recipients
25. Plasma PCSK9 in children with steroid resistant nephrotic syndrome
26. Evaluating the efficacy of aquaresis effect of tolvaptan in children with nephrotic syndrome and edema non responsive to iv frusemide therapy
27. A proof of concept study of 3 days intravenous ceftriaxone followed by switch to oral cefixime for complicated spontaneous bacterial peritonitis in children with nephrotic syndrome
28. Cystic kidney disease in infants and children: Clinical spectrum and ultrasound findings
29. Telephone based follow-up of children with epilepsy aged 4 months to 18 years: Comparison of accuracy between a specialty nurse and a DM Pediatric Neurology resident to identify critical clinical events requiring face to face evaluation
30. Validation of END-IT score in children aged 1 month to 14 years with convulsive status epilepticus
31. Health related quality of life of children (aged 3 to 12 years) with autism spectrum disorder (fulfilling DSM-5 criteria)
32. Diagnostic and treatment gap in Neurodevelopmental Disorders in children aged 1 month to 18 years: An observational study
33. Comparison of symptom severity as per AIIMS Modified INDT-ADHD tool with Conner's Parent reported scale in 6-18 years old children and adolescents with ADHD
34. Inter-observer agreement between primary care physician and paediatric neurologist in classifying epilepsy among children aged one month to 18 years using AIIMS modified INDT EPI Tool according to ILAE 2017 classification
35. Functional outcomes in children with severe sepsis - A prospective observational study
36. Comparison of serum 25 Hydroxy vitamin D and trace elements levels between 6-18 years old ADHD and typically developing children and adolescents and their correlation with symptom severity and comorbidities: Analytical cross sectional study
37. Developing a tool to identify the early signs of Autism Spectrum Disorder in children 1-18 months of age; An observational study
38. Comparing the efficacy of virtual reality therapy with modified constraint induced movement therapy versus modified constraint induced movement therapy alone, for children with hemiparetic cerebral palsy aged \geq 5-18 years - An open labelled, randomized controlled, parallel design, superiority trial
39. Comparison between efficacy of daily and intermittent low glycaemic index therapy among children with drug resistant epilepsy aged 1-15 years: A randomized controlled non-inferiority trial
40. Assessment of Bone marrow involvement (BMI) in Pediatric Hodgkin's lymphoma using 18F-FDG PET/CT in comparison with blind Bone Marrow Biopsy (BMB)
41. Association of IKZF-1 gene alterations and Cytokine Receptor Like Factor 2 (CRLF2) expression with prognostic markers at presentation and response to induction chemotherapy in Indian children with Acute Lymphoblastic Leukemia (ALL)
42. Causes of missed appointments and delayed follow up in pediatric oncology patients on chemotherapy
43. Cardio-oncology: Role of biomarkers and strain imaging echocardiography in preventing cardiotoxicity
44. Correlation of IKZF-1, JAK1 and JAK2 mutations and Cytokine Receptor-Like Factor 2 (CRLF-2) expression as predictive indicators of clinical outcome in Indian children with Acute Lymphoblastic Leukemia (ALL)
45. Dexmedetomidine vs Midazolam for sedation in critically ill ventilated children
46. Prevalence of acute gastrointestinal injury in critically ill children
47. Changes in muscle thickness and muscle echogenicity in critically ill children during their initial 7 days' stay in PICU: An observational study
48. Utility of Nasal Nitric Oxide Measurement in the diagnosis of Allergic Rhinitis in children
49. Prevalence of sleep disordered breathing in Asthmatic children
50. Utility of USG guided indices for predicting fluid responsiveness in children
51. Functional outcomes in children with septic shock (MD thesis)
52. Prevalence of ABPA in poorly controlled asthma
53. Role of HSCRIP in asthma exacerbations

54. USG in ventilated patient diaphragmatic thickness
55. To determine the cut off levels of impulse oscillometry in exercise induced bronchoconstriction in children with asthma

Completed

1. Exploring the genetic basis of idiopathic short stature in children: Prevalence of *SHOX*, *GHR* and *IGFALS* mutations
2. Growth pattern and clinical profile of children with 21 hydroxylase deficiency congenital adrenal hyperplasia
3. Evaluation of physical activity and its determinants in preschool aged children
4. To study the mutation spectrum and its correlation with histopathology, neuroimaging and biochemical metabolites in Indian patients with mitochondrial disorders
5. Molecular and Biochemical Characterization of Hepatic Glycogenoses Type I and III
6. Physical Growth and its determinants in Indian children with Down Syndrome from 3 months to 5 years of age
7. Exploring the Genetic basis of idiopathic short stature in children: Prevalence of *SHOX*, *GHR* and *IGFALS* mutations
8. Mutation spectrum in *TSC* gene in Indian patients with Tuberous sclerosis
9. Defining small for gestation neonates: Comparison of adverse neonatal outcomes on AIIMS/ NNPD/ Lubchenco/ Fentons and Intergrowth 21 growth charts
10. Quality improvement study to reduce incidence of breastfeeding problems at discharge in postnatal mothers who delivered at term gestation
11. Short term outcomes of term and late preterm neonates born to mothers with gestational diabetes
12. Comparison of umbilical cord milking with delayed cord clamping in late preterm and term neonates: A randomised controlled trial
13. A randomized controlled study: Efficacy of short prednisolone treatment for relapse in children with steroid sensitive nephrotic syndrome
14. Incidence and risk factors of acute kidney injury in children with nephrotic syndrome
15. Molecular characterization of rotaviruses associated with acute gastroenteritis in children in Delhi
16. Efficacy of Ketogenic Diet, Modified Atkins Diet and Low Glycemic Index Diet among children with drug resistant epilepsy: A randomized Non-inferiority trial
17. Neurobehavioral profile of Human Immunodeficiency Virus (HIV) infected children aged 1-10 years: A cross sectional study
18. The effect of structured weight bearing exercise program on BMD in children with cerebral palsy
19. Clinico-radiologic and EEG correlation in correlation in children with Lissencephaly
20. Clinical and Electroencephalographic spectrum of encephalopathy with status Epilepticus in sleep (E-SES) in Indian children
21. High dose phenobarbitone coma for midazolam infusion resistant refractory status Epilepticus: A retrospective cohort and proposed protocol
22. Clinico-epidemiological profile and neurocognitive outcomes in children aged 6-16 years with traumatic brain injury
23. Neurocognitive outcomes in childhood cancer survivors
24. Prevalence of malnutrition in Indian children with malignancies
25. Prevalence of tuberculosis infection in newly diagnosed children of acute leukemia
26. Polyneuropathy in critically ill mechanically ventilated children
27. Risk factors for mortality in children with severe dehydration and shock
28. Decreasing time to recognition and administration of first dose of antibiotics in children with septic shock
29. Risk factors for sepsis induced myocardial dysfunction
30. Sepsis-3 vs. Goldstein definition in diagnosis of septic shock

Collaborative projects

Ongoing

1. ICMR young diabetics registry (Endocrinology and Metabolism)
2. Prevalence, regional phenotypic variation, comorbidities and risk factors in Indian women with Polycystic Ovary Syndrome (PCOS) and their response to therapeutic modalities: A multicenter study across India (Endocrinology and Metabolism)

3. Inter-Institutional Program for Maternal, Neonatal and Infant Sciences (THSTI, Faridabad)
4. Child sexual abuse: Development of a multidimensional scale and psychological trauma intervention (Psychiatry)
5. To study the effect of parental origin of X chromosome on clinical features and biochemical profile in patients with Turner syndrome (Endocrinology and Metabolism)
6. Performance validation of indigenously developed non-invasive glucose monitoring device developed with ICMR support in children (Endocrinology and Metabolism)
7. Correlation of hepatic artery resistive index with portal pressure and serum nitric oxide levels in patients with extra hepatic portal vein obstruction (Pediatric Surgery)
8. Role of shear wave Elastography in diagnosis, prognosis and follow-up of neonatal/infantile Cholestatic liver diseases (Radiology)
9. Imaging and intervention in chronic Pediatric Budd Chiari syndrome, Radiology
10. Study of thrombospondin-1 polymorphisms in Asian Indians in corneal allograft rejection (RP Centre)
11. Pattern of CYP3A5 and MDR-1 single nucleotide polymorphism and its impact on individualization of tacrolimus based immunosuppression in living renal allograft recipient (Nephrology)
12. A comparative study to evaluate the efficacy of I be done in comparison with placebo in Leber's hereditary optic neuropathy patients - A pilot study (RP Centre)
13. Understanding disease biology and diagnosis of bacterial sepsis in hospitalized neonates: A multi-centre study (THSTI, Faridabad and NCBS, Bengaluru)
14. International study on atypical hemolytic uremic syndrome (Laboratoire d' Immunologie, Hôpital Européen Georges Pompidou, INSERM UMRS 872, Paris, France)
15. Pediatric Renal Biology Program: Research on Nephrotic syndrome (Institute of Genomics and Integrative Biology, New Delhi; THSTI, Faridabad, Army Research and Referral Hospital, New Delhi, St. John's Medical College, Bengaluru, Christian Medical College, Vellore)
16. Whole exome sequencing in patients with non-diarrheal and non-autoimmune form of hemolytic uremic syndrome (Institute of Genomics and Integrative Biology, New Delhi)
17. Pilot study of genetic variations among Indian children with Vesicoureteral reflux (Institute of Genomics and Integrative Biology, New Delhi)
18. Anti-complement Factor H (FH) associated Hemolytic Uremic Syndrome (HUS) in children: Immunological and genetic basis, and functional characterization of autoantibodies (Institute of Genomics and Integrative Biology, New Delhi)
19. Impact of advanced paternal age and poor lifestyle on sperm epigenome: Possible etiology in Autism Spectrum Disorder (Anatomy)
20. The pathways to cure for Autism Spectrum Disorders (Public Health Foundation of India, New Delhi)
21. Understanding and improving the nonverbal biomarkers of object perception in autistic subjects (IIT Delhi)
22. Imaging of Infantile Brachial Plexopathy (Radiology)
23. Cortical sources and connectivity in Autism spectrum disorder: A QEEG study (Physiology)
24. A phase 2 double arm randomized trial comparing conventional radiotherapy alone vs hypofractionated radiotherapy with concurrent and adjuvant temozolomide in patients with diffuse intrinsic pontine glioma (Radiotherapy)
25. Efficacy, safety and tolerability of Modified Atkins Diet in Adolescents and Adults with Drug Resistance Epilepsy: A Randomized Controlled Trial (Neurology)
26. To study the prevalence of cardiac channelopathies in children aged 5-18 years undergoing treatment for epilepsy (Cardiology)
27. Comparative proteomic profiling of PBMC isolated from FRDA patients and that in presence of different frataxin up-regulating therapeutics (Biochemistry)
28. Use of 'My Whole Child; Child Health and Development Interactive System', a web based platform for holistic evaluation and management of Indian children and adolescents up to 18 years of age; a tertiary centre pilot study (Chadis, USA)
29. Emotion Recognition and Social Behaviour in children with Autism Spectrum Disorder: A study of Behavioural and Phenotypic Linkage (IIT, Kanpur)
30. The pattern of visual impairment in spectrum of hypoxic ischemic encephalopathy (RP Centre)
31. A Multi-center, Open labelled Trial to evaluate the sensitivity and specificity of DSM IV TR and DSM 5 in diagnosis of Autism Spectrum Disorder (5 sites across India)

32. A study to assess the prevalence and knowledge about oral health problems among children undergoing chemotherapy and their caregivers with a view to develop an information booklet at AIIMS, New Delhi (Center for Dental Education and Research, College of Nursing)
33. A study to evaluate the effect of video based education on knowledge of caregivers of children with acute leukemia regarding prevention of infection during chemotherapy at AIIMS, New Delhi (College of Nursing)
34. Surveillance of Dental Hygiene In Child Cancer Patients (Center for Dental Education and Research)
35. Real time PCR assay for the diagnosis of invasive fungal infections, Department of Microbiology
36. NMR Metabolomics of Childhood Acute Lymphoblastic Leukemia and its correlation with progression of disease (NMR, Medical Oncology, Laboratory Oncology)
37. A Prospective study to evaluate WT1 gene expression as a biomarker of disease progression in de novo cases of AML (Medical Oncology, Laboratory Oncology)
38. Characterization of genetic diversity and neutralization antibody response in HIV-1 infected Indian Children (Biochemistry)
39. Evolution of the HIV-1 clade C envelope in chronically infected Indian pediatric patients (Biochemistry)
40. Dengue Virus Infection in India (IGIB)
41. GAN Global surveillance prevalence severity management and risk factors (Medicine)
42. Effect of outdoor Air Pollution on acute respiratory symptoms in Delhi (Pulmonology)
43. Prognostic and surgical outcomes of cataract surgery in paediatric uveitis (RP Centre)
44. Utility of Contrast Enhanced Ultrasound (CEUS) and whole body MRI in response assessment in Juvenile Idiopathic arthritis (Radiodiagnosis)

Completed

1. Genetic mutations in Indian patients with gonadal dysgenesis and 46, XY karyotype (Endocrinology and Metabolism)
2. Morphoanatomic description of common arterial trunk and its clinical implications (Pediatric Cardiology)
3. Improving the quality of childbirth and neonatal care in Primary Health Centres in two districts in Haryana, India (Pediatrics, Government Medical College, Chandigarh and SWACH, Haryana)
4. Effectiveness of structured teaching program on first aid measures for convulsion in improving the Knowledge of caregivers (College of Nursing)
5. A randomized Controlled Trial of early vs late surgery in childhood intractable epilepsy patients in India (Neurology)
6. Health related quality of life in children with epilepsy; child and parental perceptions, knowledge and attitudes (College of Nursing)
7. Effect of weighted compression Vest on hyperactivity of children aged 6-9 years diagnosed autism by DSM-5 (IIT Delhi)
8. Comparative analysis of predominant gut micro flora and their metabolites in autistic versus normal children for probiotic intervention (Dairy Microbiology, National Dairy Research Institute Karnal)
9. Aspergillosis in Immunocompromised patients: Epidemiology and drug resistance (Microbiology)

PUBLICATIONS (145)

Journals: 125

Abstracts: 21

Chapters in Books: 76

Book: 11

PATIENT CARE

Department of Paediatrics provides general OPD services daily in Paediatrics OPD. Over one lakh outpatient consultations took place in this year. There are 15 superspeciality clinics run by the Department.

Name of Service	New Cases	Old Cases	Total Attendance
Paediatric General OPD	35,669	77,201	1,12,870
Pediatric Neurology Clinic	1,519	4,112	5,631
Paediatric Neuromuscular Disease	345	1,450	1,795
Pediatric Gastroenterology Hepatology and Nutrition (PGC)	424	2190	2614
Paediatric Well Baby Clinic	604	8	612
Paediatric High Risk Neonatology Clinic (HRC)	373	1,584	1,957

Name of Service	New Cases	Old Cases	Total Attendance
Pediatric Renal Nephrology Clinic(RMC)	368	2,955	3,323
Paediatric Chest Clinic (PCC)	488	6,681	7,169
Paediatric Tuberculosis Clinic	245	1,443	1,688
Paediatric Rheumatology Clinic (PRC)	236	1,425	1,661
Paediatric Genetics and Birth Defects Clinic	2,623	1,015	3,638
Paediatric Oncology Clinic	280	2,025	2,305
Pediatric Cancer Survivors' Clinic	163	1,165	1,320
Pediatric Endocrine and Metabolism Clinic (PEC)	217	1,209	1,426
Child Development Clinic (CDC)	906	2,399	3,090
Neurocysticercosis Clinic (NCC)	139	1,122	1,261
Autism Clinic	443	1,146	1,589
Child Psychology OPD	81	58	139
Grand Total	54,167	1,20,257	1,74,424

In addition, Cystic fibrosis and Paediatric HIV services were provided in Paediatric Chest Clinic. Kangaroo Mother Care Unit is run along with follow-up services of normal and at-risk neonates.

Physiotherapy Services were provided to the patients in Neurology clinic, Myopathy clinic, Genetics clinics, High risk, Endo, Development clinic, Paediatric Chest clinic, Rheumatology clinic and OPD services.

Total physiotherapy sessions provided during 2017-2018: 2521

INDOOR SERVICES

- Indoor services include admission facilities in general wards, day care facility, neonatal units (NICUs A and B), Kangaroo Mother Care Unit and Pediatric Intensive Care Facility.
- The Department operationalized an 8-bedded **High Dependency Unit** in children ward to cater to child patients with life-support and other special needs. A special training program for the nurses of the HDU was held.
- Children requiring short procedures or interventions are admitted for a day in the Day Care Unit situated in the C5 Ward.

Total indoor admissions

Long admissions in Paediatric wards: 4,098
Admission in day care facility: 7,222

Patient admitted in PICU: 251
Admissions in NICU A + B: 717 + 757 = 1,474

Specialized Investigations

Endocrinology

Human growth hormone	838	Serum cortisol	348
Serum insulin	177	Vitamin D	189
ATPo	47	PTH	50
Thyroid function tests	242		

Genetic

Cytogenetics Laboratory

Peripheral blood and cord blood cultures	189	Amniotic fluid cultures	126
Chorionic villi cultures	7	QF-PCR	406

Molecular Genetics Laboratory

Routine tests

Disease	Number tested	Prenatal diagnosis
Beta Thalassaemia (β Thal) mutation analysis	93 families	71 families
Spinal Muscular Atrophy (SMA) mutation analysis	150 cases	16 families

Disease	Number tested	Prenatal diagnosis
Duchene Muscular Dystrophy (DMD) mutation analysis	443 families	15 families
Haemophilia A linkage analysis	17 families	9 families
Fragile X screening	330 families	0
Cystic fibrosis molecular analysis	99 cases	3 families
Achondroplasia mutation analysis	13 cases	1 family
Non-syndromic hearing loss (Connexin 26) screening	26 cases	0
Sex Chromatin related abnormalities	32 cases	

Tests carried out on Research basis

1. Megalencephalic Leukoencephalopathy (MLC) mutation analysis done in 3 cases
2. Mitochondrial mutation analysis done in 35 cases
3. Tuberous Sclerosis (TSC) mutation analysis done in 1 family
4. Prenatal diagnosis for TSC offered to 2 families
5. MPS I, II and III mutation analysis done in 20 cases
6. GSD Type I and III mutation analysis done in 64 cases
7. Prenatal diagnosis for GSDI offered to none

Biochemical Genetics Laboratory

S. No	Enzyme Assay	Disorder	No. of Pts.
1.	Arylsulfate A	Met Metachromatic- leukodystrophy	48
2.	β -Glucosidase	Gaucher Disease	73
3.	MPS-II	Hunter	18
4.	Galactose-6- Sulphate Sulphatase	Morquio A (MPS-IVA)	21
5.	Gangliosidosis	GM1 Gangliosidosis orquio B (MPS-IV B)	26 and 21
6.	Arylsulphatase-B	MPS-VI	4
7.	Biotinidase	Biotinidase deficiency	112
8.	GALT	Galactosemia	59
9.	Hexosaminidase A	Tay-Sachs	19
10.	Plasma Hex-A	Mucopolipidosis	15
11.	Plasma-ASA	Mucopolipidosis	15
12.	Chitotriosidase (Plasma)	LSD	91
13.	CCL18	Gaucher Disease	4
14.	β -Galactocerebrosidase (Krabbes)	Krabbes	31
15.	Palmiloyl-protein-thioesterase (INCL)	INCL	43
16.	Sphingo myelinase	Neimenn pick disease	56
17.	α - Glucosidase	Pompe	22
18.	α - Galactosidase	Fabry	02
19.	α -Fucosidase	Fucosidosis	
20.	α -N-Acetylglucosaminidase	Sanfilippo B (MPS III B)	07
21.	Acetyl-CoA: α -Glucosaminide N-Acetyltransferase	Sanfilippo C (MPS III C)	07
22.	N-Acetylglucosamine-6-sulphate sulphatase	Sanfilippo D (MPS III D)	01

S. No	Enzyme Assay	Disorder	No. of Pts.
23.	MPS1	HURLER	17
24.	CVS for Enzyme assay	LSDs (including NIH)	38

Gastroenterology

Diagnostic Gastroscopy	1,170	Foreign Body removal	20
Endoscopic Variceal ligation and Sclerotherapy	500	Endoscopic Hemoclip application	12
Colonoscopy (diagnostic and therapeutic)	150	Liver Biopsy	60
Percutaneous Endoscopic Gastrostomy tube	5	Endoscopic Glue injection	12

Nephrology

Special tests and procedures

Acute peritoneal dialysis (including automated peritoneal dialysis)	96	Kidney transplants in children	10
Continuous ambulatory peritoneal dialysis	22	Hemodialysis	1350
Continuous renal replacement therapy	17	Plasmapheresis sessions	476
Temporary hemodialysis catheter placement (internal jugular, femoral)	226	Surface CD46 expression	55
Ambulatory blood pressure monitoring	123	Renal biopsies	183
ELISA for antibodies to complement factor H	534	Infusion rituximab	672
Turbidometry for complement 3 and complement 4	116	Infusion albumin	756
Polymerase chain reaction for <i>CFHR1</i> deletion	20	Infusion cyclophosphamide	264

Neonatology

Neonatal echocardiography	129	Therapeutic hypothermia	5
Ultrasonography (including Neurosonogram)	489	Arterial blood gas analysis	15-20 samples/week
Exchange transfusions	14		
<i>Point of care glucose estimation</i>			
Postnatal ward	10-12/day	NICU A and B	6-8/day
<i>Packed cell volume</i>			
Postnatal ward	3-4/day	NICU A and B	2-3/day
Serum Bilirubin	6-8/day	Gram staining and slide examination	2-3/day

Neurology

Laboratory tests/Evaluations

Test	Number	Test	Number
Video EEG	3,196	Ambulatory EEG	108
Total	3,304		
Nerve conduction study	276	Electromyography	40
Sympathetic skin response (SSR)	8	Repetitive nerve stimulation study	10
Ambulatory EPS	12		
Total	346		
Polysomnography	56	Disability certification: Patients evaluated	160
Psychological and developmental tests	3864		
VSMS for SQ	417	Development Profile 3	360
Childhood Behaviour Checklist	800	Vineland Social Maturity Scale	537
House Tree Person Test	296	W Intelligence Scale for Children	120
Mallin's Intelligence Scale for Indian Children	480	Developmental scale for Indian Infants	270
Total assessment for specific leaning disorder	55	NIMHANS battery for learning disability	20

Test	Number	Test	Number
DSM V for ASD	223	DSM V for ADHD	128
CONNER's Rating Scale	123	Grade Level Assessment Device	35
Total psychological interventions	905		
Early stimulation therapy	360	Behavioural intervention	280
Cognitive behavioural therapy	320	Psychological and personality assessment using HTP (Functional)	298
Psychological counselling for nocturnal enuresis	36	Psychological counselling for Tic disorder	19
Patients counseled in ward	60	Patients counselled in emergency	30

Procedures

Test	Number	Test	Number
Muscle biopsy	125	Neostigmine challenge test	5
Nerve biopsy	24	Fore arm ischaemia test	6
Skin biopsy	28	Hand held dynamometry	3
CSF procedures	54	ICP Catheter placement	3
Blood lactate	128		

Oncology

Name of Procedure	Monthly	Yearly
Bone marrow aspiration/biopsy, Morphology, Flowcytometry, Cytogenetics	30-35	420
CSF/Intrathecal Chemotherapy	40-45	540
Biopsy (day care)	17-20	240

Pulmonology

Spirometry	3,014	Impulse Oscillometry	1,256
Infant PFTs	1,260	Body Plathysmography	15
Exercise testing	156	24 hours oesophageal pH monitoring	89
Bronchoscopy	321	EBUS	21
Sweat test	625	Nasal NO	264
FENO	362	Nasal brush for high speed video microscopy	20
Serum total IgE	303		
Serum specific IgE (Aspergillus)	265	Serum specific IgG (Aspergillus)	55
Serum specific IgE (Lentil)	7	Serum specific IgG (Lentil)	11

Rheumatology

Intra-articular steroid injection 140 Synovial and skin biopsy 8

MSSO activities

Activities	Approximate number of patients
Information and guidance given to patients	3,515
Counselling and psychotherapy	1,900
Issuing railway concessions	1,100
Helped in getting accommodation	250
Exemption of charges of various investigations	2,700
Mobilization of financial assistance for poor patient	720
Supervision of social work trainees	1
Miscellaneous needs of poor patient, e.g., arranging cremation, help in sending dead bodies to their native places	5

Financial assistance to poor patients

Chief Minister Relief Fund (CMRF)	52,59,600	Delhi Arogya Nidhi (DAN)	24,48,000
Hospital Poor Fund (HPF)	1,66,400	Indian Cancer Society (ICS)	2,00,000
Prime Minister Relief Fund (PMRF)	9,50,000	Rashtriya Arogya Nidhi (RAN)	1,89,68,560
United Nations High Commissioner for Refugees	1,20,000	Other sources	2,65,600
Total	2,83,78,160		

COMMUNITY SERVICES

Oncology

- Organized patient education and awareness program for child cancer programs. Organized public lecture and exhibition on childhood cancers
- Participated as panelists and speaker for Lok Sabha TV, Doordarshan and All India Radio on the occasion of International Childhood Cancer Day
- Facilitation of financial assistance from government and non government organization to families with a child with cancer

Pulmonology, Intensive Care, Tuberculosis

- Patient education program for parents of cystic fibrosis, at AIIMS on 5 April 2017

Nephrology

- The World Kidney Day with the theme ‘Kidneys and Women’s Health’ was celebrated jointly by Departments of Nephrology and Pediatrics, AIIMS and Dr Ram Manohar Lohia Hospital, and Division of Pediatric Nephrology, AIIMS, during the week of 4-10 March 2018. Professor Arvind Bagga and Pankaj Hari participated in the program as well as in activities organized at Maulana Azad Medical College, New Delhi. Activities included panel discussion, public lecture, CMEs for nursing students and physicians, symposium to create awareness among school children and college students, lectures for postgraduate students and display of posters to create awareness about kidney diseases. Patient and parent education and interaction and drawing competition for children were organized by the DM residents in the Pediatric outpatient clinic on 8 March 2018.

Neurology

- The Child Neurology Division microsite “m.pedneuroaiims.org” has been updated and additional educational materials on Neuromotor impairments, Epilepsy Autism and ADHD in the form of training modules and videos for clinicians and parents in both Hindi and English have been uploaded. It has been converted into an interactive platform for parents and health care professionals. Academic subhead has been updated with power point presentations and incorporated videos on developmental and neurological examination. Parent’s corner has been created separately which has parent information material (English/Hindi/Bilingual) to assist caregivers in managing children with various neurodevelopment disorders. Parent’s corner also has teaching videos of domiciliary management in Seizure, Early stimulation and Constraint Induced Movement Therapy (CIMT) for Hemiplegia
- Bilingual parent information materials for different neurodevelopmental disorders have been updated with recent advances and current evidence-based information. New patient information booklets on Autism: The Facts - A primer for parents, Autism: An overview, Autism - Different but not less (intervention guide for parents and caregivers). Structured Exercise Programs for Cerebral Palsy, modified Constraint Induced Movement Therapy and Early Stimulation have been developed. All patient information materials, monographs and educational books were exhibited at World Book Fair, 6-14 January 2018
- Public Health Lecture on “Autism from early detection to autonomy” covering the following: Early detection and Inclusive education; skill development and independent living was held on 26 April 2017 at Jawaharlal Auditorium, AIIMS, New Delhi
- Inclusive Independence Day celebrations were organized by National Trust for persons with disabilities in Nehru Park, New Delhi on 13 August 2017. Child Neurology Division, AIIMS held a camp in the venue during the occasion for issuing disability certificates for children with Autism spectrum disorder and other disabilities

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Endocrinology

Professor Vandana Jain delivered the prestigious *Dr Sisir Kumar Bose Oration* at the Annual CME of Institute of Child Health, Kolkata on 15 August 2017. The topic was “Metabolic Syndrome in Children: A Silent Epidemic; Guest Editor for a special *Symposium on Childhood Obesity* published by Indian Journal of Pediatrics in 2017; Nominated as the representative

of Indian Society of Pediatric and Adolescent Endocrinology (ISPAE) for the development of Global Consensus Guidelines on Congenital/Neonatal Diabetes, an initiative led by Pediatric Endocrine Society (PES) of North America.

Genetic

Professor Madhulika Kabra was elected as President of Society of Indian Academy of Medical Genetics from January 2018; Received Dr IC Verma SIAMG Outstanding Scientist Award for the year 2017; Nominated as a member of Delhi Government Technical Committee on Rare Diseases; Nominated as a member of Scientific Advisory Committee of World without GNE Myopathy; Nominated as a member of Institutional Committee for Stem Cell Research, University of Delhi, South Campus.

Dr Neerja Gupta was elected as Treasurer of Society of Indian Academy of Medical Genetics from January 2018.

Neonatology

Professor A.K. Deorari was Chairman, UG Teaching Schedule Committee at AIIMS, New Delhi 2015-18; Chairman Skill Lab at AIIMS 2018-19; Team Leader, Quality Improvement/Assurance at AIIMS, New Delhi since August 2015-18; Serves as Programme Co-Director for GOI Task Force on Retinopathy of Prematurity 2015-19; Member Expert Advisory Group and Every Newborn Action Plan, WHO HQ's, UNICEF HQ's and London School of Tropical Medicine and Hygiene 2018-19; Advisor (Publication) of the Journal Committee of Indian Pediatrics from 1 January 2017; Member Newborn Technical Advisory Group GOI, Ministry of Health, 2015-18; Member Technical Advisory Group WHO HQ's on Quality Equity Dignity (QED); Quality of Care Standards for Newborn and Children 2016-18; Member Technical Advisory Group on Human Donor Milk Banking, an initiative of PATH, Geneva - Seattle 2017-18.

Professor Ramesh Agarwal was member of the Subject Expert Committee (SEC) of DCGI; Associate Editor, Seminar of Fetal and Neonatal Medicine; Member of Expert Group, Clinical Trial Registry of India; Member of the Research Steering Group of NeoAMR Global Observational Study of DNDI/ GARD-P; Expert member of the Essential Diagnostic List (EDL) development group for India (ICMR and WHO); Member of technical group developing national guidelines for complementary feeding in preterm neonates (ICMR).

Dr M Jeeva Sankar was invited to be a member of the Guideline Development Group (GDG) of the World Health Organization in Maternal and Perinatal Health; Member of the 'First Level Screening Committee' under Grant-in-Aid scheme of Department of Health Research, Ministry of Health and Family Welfare (MoHFW), Government of India for reviewing the research proposals on Child Health; Member of the Centre Core Committee (C3) for the Maternal and Child Health Program of the Knowledge Integration and Translational (KnIT) Platform, supported by BIRAC, Department of Biotechnology, Government of India; Global and National collaborator to the 'Global Burden of Diseases, Injuries, and Risk Factors Study (GBD)'—The largest effort to measure epidemiological levels and trends of disease burden worldwide—for Health Metrics and Evaluation (IHME) at the University of Washington; Member of the Expert Consultation Group on 'STG Development Manual' that facilitates development of Standard Treatment Guidelines for the MoHFW, Government of India; Member of the Editorial Group of 'NNF—Clinical Practice Guidelines 2017'; involved in hand-holding two groups of neonatologists and actively guide/support them along and help develop the guidelines.

Nephrology

Professor Arvind Bagga was Editor, Asian Journal of Pediatric Nephrology; Editor, Cochrane Kidney and Transplant Group; Editor, Pediatric Research; Editorial Board: Pediatric Nephrology; Indian Journal of Pediatrics; Pediatrics and Child Health; *World J Pediatrics*; Member, Pediatric Review Group, Indian Council of Medical Research; Chairman, Expert Committee of MCI on DM Pediatric Nephrology; Invited Expert of the Kidney Disease Improving Global Outcomes (KDIGO) on 'Glomerular diseases'; Research Advisory Committee: Department of Biotechnology, Government of India; AIIMS; Academy Oration, Annual Meeting of the National Academy of Medical Sciences, 2017; Chairperson: Tubular Disorders, X Annual Training Course in Pediatric Nephrology, 29 March 2018, AIIMS, New Delhi; Delivered Oration: Therapies for glomerular diseases in Children, 57th Annual Conference of the National Academy of Medical Sciences, 28 October 2017, Sri Guru Ram Das Institute of Medical Sciences and Research, Amritsar, Punjab; Chairperson: Glomerular Diseases, X Annual Training Course in Pediatric Nephrology, 30 March 2018, AIIMS, New Delhi.

Professor Pankaj Hari was member, Editorial Board, Asian Journal of Pediatric Nephrology, Indian Journal of Trauma and Emergency Pediatrics, Journal of Progress in Pediatric Urology, International Journal of Nephrology Urology; Member, Expert Committee of MCI on DM Pediatric Nephrology.

Dr Aditi Sinha was Joint Secretary, Indian Society of Pediatric Nephrology; Member, Editorial Board, Pediatric Nephrology; Member, Editorial Board, Asian Journal of Pediatric Nephrology; Section Editor for Nephrology, Indian Journal of Pediatrics; Reviewer for Pediatric Nephrology, Indian Pediatrics, Indian Journal of Nephrology, Indian Journal of Pediatrics; Reviewer for Department of Biotechnology, Government of India; Awarded Commonwealth Medical Fellowship in Pediatric Dialysis at Royal Manchester Children's Hospital, United Kingdom.

Neurology

Professor Sheffali Gulati was awarded Amrut Mody Unichem Prize-2015, by Indian Council of Medical Research (ICMR), New Delhi for research in Epilepsy and Neurodevelopmental Disorders conferred in October 2017; AIIMS Excellence Research Award 2017 for clinical research titled 'Development of validation of AIIMS modified INCLIN diagnostic instrument for epilepsy in children aged 1 month-18 years'; Elected Executive Board member of Child Neurology Chapter of IAP; Chairperson, Board for Disability Assessment and Certification, Department of Pediatrics, AIIMS; Working in collaboration with the National Trust, coordinator of National Workshops for Training Master Trainers in Autism Tools (INDT ASD and ISAA); Organised National Conference on Autism in collaboration with National Trust on 3 April 2017; Conducted a nationwide Autistic Talent Marvel Hunt along with National Trust during this National Conference; Co-Organizer for Augmentative and Alternative Communication (2017) course by Action for Ability Development and Inclusion (AADI); Editorial Board Member of 4 journals; Reviewer for various (52) International and National journals (including BMJ open, Journal of inherited metabolic disease, American Journal of Medical Genetics, Journal of Child Neurology), Examiner and Reviewer of various theses of MD, DCH, DM and PhD. Member of 21 International and National Professional bodies; Participated as site principal investigator in project meeting for protocol PTC 124-GD-041-DMD (A Phase 3, Randomised, Double blind, Placebo-controlled efficacy and safety study of Ataluren in patients with non sense mutation Duchenne Muscular Dystrophy and Open label extension), Bangkok, 14-16 December 2017; Expert for various committees: Ministry of Health and Family Welfare: Rashtriya Bal Swasthya Karyakram; National Trust: Autism; National Coordinator of master trainers in Autism tools; early intervention; Ministry of Social Justice and Empowerment: Chairperson of Subcommittee on Certification of Developmental Disorders including Autism; Member of National Expert Committees: For developing guidelines for assessment and certification of specified disabilities; Disabilities requiring high support; Identification of posts in government jobs for persons with disabilities, PH reservation in MCI and Combined Medical Services; UNICEF: Global partnership on children with disability- ECD task force; NCERT: Inclusion of children with special needs in mainstream schools, ECCE; Chairperson of the NOC Expert Committee of CARA (Central Adoption Resource Authority); Expert to renew Medical Examination Report of Children to be adopted by CARA; Member ICMR Task Force: IEM, AFP, children in difficult circumstances; Member of MCI expert group for drafting DM (Pediatric Neurology Curriculum), Teacher qualifications; UGC expert for evaluating medical universities; Scientific Advisory Committee member for Comprehensive Care Centre for various Neurodevelopmental Disorders of Sree Chitra Tirunal Institute of Medical Sciences and Technology, Trivandrum; Scientific Advisory Committee member for Kerala University of Health Sciences, Thrissur; Expert to examine reports of Serious Adverse Events of death that have occurred in clinical trials, (DCGI); Expert for faculty recruitment for various hospitals and universities; Expert for Neurology projects for Indian Council of Medical Research, DBT, DST, National Trust, Drug Controller General of Health Sciences (DGHS); Expert for developing and updating guidelines for diagnosis and management of Childhood epilepsy (National Guidelines of IAP, 2017; National Advisory Board Member of Indian Epilepsy Society for developing Fosphenytoin Guidelines); Nodal office for AFP surveillance since 2000; Member of the AIIMS Committees on Accessible Health.

Dr Biswaroop Chakrabarty participated as a co-investigator in project meeting for protocol PTC 124-GD-041-DMD (A Phase 3, Randomised, Double blind, Placebo-controlled efficacy and safety study of Ataluren in patients with non sense mutation Duchenne Muscular Dystrophy and Open label extension), Bangkok, 14-16 December 2017; Part of the organizing team for Departmental Symposium on Pediatric Nutrition, held on 19 November 2017, at AIIMS, New Delhi.

Dr Prashant Jauhari was member of Intradepartmental Antibiotic Stewardship Programme Working Group and attended monthly meetings of the same. Conducted cross sectional antibiotic appropriateness surveys in C5 Ward. Last survey being done on 12 March 2018; Involved in CCR on "Mega neck swelling in a minor: An unusual cause" by the Department of Neuroimaging and Interventional Neuroradiology" on 13 February 2018 at LT-1, AIIMS, New Delhi.

Oncology

Professor Rachna Seth's PhD students, Dr Manisha Agarwal was awarded Mrs Geeta Mittal gold medal and book prize for best clinical research for best clinical research in Oncology; Bone marrow transplant program initiated at AIIMS, Pediatrics with autologous bone marrow transplant; Nominated Chair of Subcommittee on Late Effects Group of the Indian Pediatric Oncology Group, Pediatric Hematology Oncology Chapter, IAP; National expert for Pattern of Care and Survival Studies (POCSS) on Childhood and Adult Haematolymphoid Malignancies NCDIR-ICMR, Bangalore; External examiner for FCPS Part-II, Bangladesh, Dhaka, 16-18 January 2018; Advisory committee on Cancer survivorship and late effects of NGO CANKIDS KIDSCAN; Invited as panelists by Lok Sabha TV on panel discussion on childhood cancers: 17 November 2017; Invited as panelists by All India Radio for discussion on Childhood Cancer on International Childhood Cancer Day.

Pulmonology, Intensive Care, Tuberculosis

Professor Rakesh Lodha was Associate Editor of Indian Pediatrics, the official journal of the Indian Academy of Pediatrics; Section Editor, Indian Journal of Pediatrics; Associate Editor, NMJI; Associate Editor, Systematic Reviews; Member of the Technical Resource Group on Pediatric HIV Care of National AIDS Control Organization- NACO (Government of India); Member of Project Advisory Group, Pediatrics, ICMR; Member of the Dengue Botanical Drug Advisory Group of the DBT; Member of the SAG for Vaccine under National Biopharma Mission; Advisory Group Member, Dengue Botanical Drug Advisory Group, 2 December 2017, New Delhi.

Dr KR Jat was Member, European Respiratory Society and American Thoracic Society; Life member of Respiratory Chapter of Indian Academy of Pediatrics (IAP), Indian Academy of Pediatrics (IAP); Rheumatology Chapter, IAP; Indian Rheumatology Association (IRA); Indian Immunology Society (IIS); Instructor for Pediatric Advanced Life Support (PALS) and Basic Life Support (BLS); Trainer of Asthma Training Module (ATM), Respiratory Tract Infection-Group Education Module (RTI-GEM), and Pediatric Tuberculosis Module.

Dr Jhuma Shankar was organizing team of Basic life support course at AIIMS- 11 March 2018” and organizing team of “AIIMS Pediatric Pulmonology and Intensive Care Module 2017”.

VISITING SCIENTISTS

Endocrinology

1. Professor Ram K. Menon, Director, Pediatric Endocrinology, University of Michigan Medical School, Ann Arbor, MI, USA, delivered a guest lecture “Potpourri of Interesting Cases” on 18 August 2017
2. Professor Surendra Varma, Professor Emeritus Pediatric Endocrinology, Texas Tech University for Health Sciences, USA delivered a talk on “Ethical issues in Pediatric Endocrinology” at the Pediatric Seminar Room on 22 February 2018

Genetics

1. Dr Madhuri Hegde, Chief Scientific Officer, Global Laboratory Services PE. Adjunct Professor of Genetics and Pediatrics at Emory University and Georgia Institute of Technology
2. Dr Chitra Prasad, Professor Genetics, Metabolism and Pediatrics, London, Canada

Nephrology

Dr Orth Holler and Dr Reinhard Wurzner, Division of Hygiene and Medical Microbiology, Department of Hygiene, Microbiology and Social Medicine, Medical University of Innsbruck, Austria visited the AIIMS on 12 December 2017. They took a talk each on ‘Complement cascade in pathogenesis of atypical hemolytic uremic syndrome’ and ‘Therapy of atypical hemolytic uremic syndrome’ and interacted with unit Faculty, DM and MD residents, research fellows and doctoral students.

Oncology

Dr Smita Bhatia gave a guest lecture “The price of cure—lessons learnt from childhood cancer survivors”; participated in Brain storming on late effects of childhood cancers, 26 February 2018, AIIMS, New Delhi.

Neurology

Guest lecture, “Biomedical and complementary treatments in autism,” by Dr Malinee Thambyayah, an AIIMS 1979 Alumni, on 10 August 2017 at Pediatric Seminar Room, C5 Ward.

9.28. Paediatric Surgery

Professor and Head

D.K. Gupta

Professors

Veereshwar Bhatnagar
Sandeep Agarwala

Minu Bajpai
M Srinivas

Associate Professor

Shilpa Sharma

Assistant Professors

Vishesh Jain
Prabudh Goel

Anjan Dhua
Devendra Yadav

Dr M. Srinivas is on deputation for three years to ESI Hospital and Medical College, Hyderabad.

HIGHLIGHTS

The department offers state-of-the-art patient care, not only in general Pediatric Surgery but also in the field of neonatal surgery, urology including intersex disorders, thoracic surgery, oncology, gastrointestinal surgery and neurosurgery in children up to 14 years of age.

The department faculty is also actively involved in various intramural and extramural research projects pertaining to congenital malformations and cancer in the field of molecular biology and the stem cell research. The department is on the forefront in patient care, research, teaching and training, receives a large number of requests from India and overseas to visit the department and seek training in Pediatric Surgery and its sub-specialities.

The department faculty has been regularly receiving national and international recognition, awards, honours and medals for their academic excellence and scientific contributions most notably of these has been Professor D.K. Gupta being elected as the President of the World Federation of Association of Pediatric Surgeons representing 134 countries for three years (2014-2016). This is a unique and rare honour for AIIMS, India and Asia.

The department is poised for expansion with the faculty, space and the staff in the upcoming maternal and Child Health Centre at AIIMS, developing all sub-specialities and caring for children with serious malformations, advanced cancers, trauma and others.

EDUCATION

Undergraduate, postgraduate, paramedical teaching

Teaching of undergraduate medical and nursing students: Lectures and seminars are held for the undergraduate students on topics related to Pediatric Surgery. Postgraduate teaching and training of MCh Pediatric Surgery trainees-inclusive of seminars, Journal clubs case discussions thesis presentations and teaching rounds.

Trainees on rotation: MCh trainees in Neurosurgery, DM trainees in Neonatology, MS trainees in General Surgery.

Training in the ward of BSc and the MSc nursing students.

Short-term training provided to

Dr Lt Col Abu Daud Mod Sariful Islam, Chittagong Medical College and Hospital, Chittagong, Bangladesh, 9 January-30 June 2017

Dr Praful Kumar, Dr RML, Delhi, 1-31 October 2017

Dr Shyam Sunder Sahu, Dr RML, Delhi, 1-30 November 2017

Dr Tapasya Pandit, PGIMER, Chandigarh, 5-17 February 2018

Dr Vanesa Villamil, Urcia, Spain, February 2018

CMEs/Workshops/Symposia/National and International Conferences

- Chief organizer of the 30th International Symposium of Pediatric Surgical Research (ISPSR-2017), 9-10 September 2017, New Delhi
- Chief organizer, Newborn and Fetal Surgery Update, 8 September 2017, New Delhi

Lectures delivered

D.K. Gupta

1. Challenges in the management of biliary atresia—Options beyond Kasai HPE, 54th JSPS and 7th ISSBA, 10-13 May 2017, Convention Center, Sendai, Japan
2. Principles of therapy of abdominal wall defects, 18th European Congress of Association of Pediatric Surgeons, 17-20 May 2017, Convention Center, Limassol, Cyprus,
3. Management of ventral hernia and other rare defects, 18th European Congress of Association of Pediatric Surgeons, 17-20 May 2017, Convention Center, Limassol, Cyprus
4. Boley Scot Procedure for re-do surgery for Hirschsprung Disease, International Colorectal Club Meeting, 17-20 May 2017, Convention Center, Limassol, Cyprus
5. Redo Surgery for Hirschsprung's Disease, International Congress of Surgery with WOFAPS Congress, 14-17 August 2017, Convention Center, Basel, Switzerland
6. How to bridge the wide Gap in TEF/OA? World Congress of Surgery, 14-17 August 2017, Convention Center, Basel, Switzerland
7. Long-term results of hypospadias repair, 7th International Congress of Hypospadias and DSD, 29 August-1 September 2017, Moscow
8. Nuances of proximal and distal hypospadias, 7th International Congress of Hypospadias and DSD, 29 August-1 September 2017, Moscow
9. Disorders of sexual development, 7th International Congress of Hypospadias and DSD, 29 August-1 September 2017, Moscow
10. Esophageal replacement in children, ISPSR 2017 (ISPSR), 8-10 September 2017, Delhi
11. Esophageal replacement in Children (Teleconf), Pediatric Surgery International Conference, 14-16 September 2017, University Hospital, Chisinau, Republic of Moldavia
12. Replacement of esophagus in children, IAPS, 19-24 September 2017, Kolkata
13. Diagnosis and management of intersex child, IAPS, 19-24 September 2017, Kolkata
14. Trauma in children- practices and policies in India, Trauma Symposium of the Polish Association of Pediatric Surgeons, 6-7 October 2017, Poznan, Poland
15. Challenges in the medical profession, Trauma Symposium of the Polish Association of Pediatric Surgeons, 6-7 October 2017, Poznan, Poland
16. Ambiguous genitalia in children, 2nd Pediatric Surgery Conference, 4-5 October 2017, Saudi German Hospital, Dubai, UAE
17. Vesicoureteric reflux and the urinary tract infection, 2nd Pediatric Surgery Conference, 4-5 October 2017, Saudi German Hospital, Dubai, UAE
18. Open pyeloplasty for the PUJ obstruction in children (Telecon), Greece Association of Pediatric Surgeons, 6-8 October 2017, Children Hospital, Thessaloniki, Greece
19. Psychological aspects of genital surgery on patients and parents, International Congress of Hypospadias and DSD, 24-27 October 2017, Children Hospital, Mashhad, Iran
20. Distal and mid shaft hypospadias use of BMG in Hypospadias Surgery, International Congress of Hypospadias and DSD, 24-27 October 2017, Children Hospital, Mashhad, Iran
21. Proximal hypospadias with chordee, International Congress of Hypospadias and DSD, 24-27 October 2017, Children Hospital, Mashhad, Iran
22. Managing redo hypospadias cases, International Congress of Hypospadias and DSD, 24-27 October 2017, Children Hospital, Mashhad, Iran
23. Vaginoplasty and clitoroplasty for CAH, International Congress of Hypospadias and DSD, 24-27 October 2017, Children Hospital, Mashhad, Iran
24. Volvulus of the stomach, 1st International Congress of Pediatric Surgery, Kinshasa, DPR, Congo, 6-9 November 2017, Kinshasa, Congo, Africa
25. Perforation of GI Tract, 1st International Congress of Pediatric Surgery, Kinshasa, DPR, Congo, 6-9 November 2017, Kinshasa, Congo, Africa
26. Management of TEF/OA, 1st International Congress of Pediatric Surgery, Kinshasa, DPR, Congo, 6-9 November 2017, Kinshasa, Congo, Africa

27. Prognostic factors for congenital diaphragmatic hernia, Annual Conference of the Neonatal Forum—NNF, 8-10 December 2017, Gurgaon
28. Assignment of sex in children with intersexuality, Conference on Pediatric Urology, 23-24 December 2017, AIIMS, New Delhi
29. Challenges of Neonatal Surgery in South Asia, CME Program, 31 March-1 April 2018, ESIC Medical College and Hospital, Hyderabad

V. Bhatnagar

1. Comparative study of propranolol and prednisolone in the management of vascular malformations in Pediatric patients. IAPSON 2017, 20-24 September 2017, Kolkata
2. Expert comments on minimally invasive surgery and Chairperson, CME in Pediatric Surgery and Conference of Delhi Chapter of IAPS, 14-15 October 2017, Army Hospital R&R, New Delhi
3. Hepatoblastoma, ADSC-IAPS, 19 November 2017, Sir Ganga Ram Hospital, New Delhi

Minu Bajpai

1. Management of children with high grade bilateral vesicoureteric reflux and nephropathy, 11th International Conference on Clinical Pediatrics, 2 April 2017, London
2. CAKUT (Congenital Anomalies of Kidney and Urinary Tract) and the surgeon significance of early interventions, IAPSCON 2017, 20-24 September 2017, Kolkata
3. Anorectal malformations: Definitive surgery sans PSARP and sans colostomy, IAPSCON 2017, 20-24 September 2017, Kolkata
4. Management algorithm in VUR, Pediatric urology—What have we learnt! 23-24 December 2017, AIIMS, New Delhi
5. Role of Santulli's Ureterostomy, Pediatric Urology—What have we learnt! 23-24 December 2017, AIIMS, New Delhi
6. Modern management of neurogenic bladder, Pediatric Urology—What have we learnt! 23-24 December 2017, AIIMS, New Delhi

Sandeep Agarwala

1. GU-RMS in children, Pediatric Surgical Oncology Course, 18th Annual Congress of the European Association of Pediatric Surgeons and Pre Congress Oncology Course, 18-20 May 2017, Limassol, Cyprus
2. Principles of surgery in Pediatric Soft Tissue Sarcomas, 4th Mid-term CME, Pediatric Hematology-Oncology Chapter of Indian Academy of Pediatrics, 1-2 July 2017, India Habitat Center, New Delhi
3. Evidence for when not to do surgery in neuroblastoma, Best of ASCO-2017, 15 July 2017, Chandigarh
4. Faculty-student guardianship program, Faculty Mentor Sensitization Program 2017, 25 October 2017, Vardhman Mahavir Medical College and Safdarjung Hospital, New Delhi
5. When not to operate in neuroblastoma, The Annual Conference of PHO and Surgical Oncology Chapter of Indian Association of Pediatric Surgeons (SOS-IAPS), 24-26 November 2018, Auditorium, Apollo Gleneagles Hospital, Kolkata
6. Panel discussion on surgical oncology, Annual Conference of PHO and SOS-IAPS, 24-26 November 2018, Auditorium, Apollo Gleneagles Hospital, Kolkata
7. Operative videos: Oncologic procedures, Annual conference of PHO and SOS-IAPS, 24-26 November 2018, Auditorium, Apollo Gleneagles Hospital, Kolkata
8. Rhabdomyosarcoma and other soft tissue sarcomas, Annual Meeting of the Delhi Chapter of the Indian Association of Pediatric Surgeons (DSC-IAPS), 19 November 2017, Sir Auditorium, Ganga Ram Hospital, New Delhi
9. Video demonstration of an operative procedure for Ewing's sarcoma of the chest wall, Annual Meeting of the DSC-IAPS, 19 November 2017, Sir Auditorium, Ganga Ram Hospital, New Delhi
10. Surgical principles in solid tumours, Annual Conference of Karnataka State Chapter of Indian Association of Pediatric Surgeons (ACKSC-IAPS), 8-10 December 2017, Medical College Auditorium, Bellary, Karnataka
11. Delivery of ideal cancer care in resource-challenged settings, ACKSC-IAPS, 8-10 December 2017, Medical College Auditorium, Bellary, Karnataka
12. Transitional care-bridging gaps for a seamless shift into adulthood—Cancer survivors, ACKSC-IAPS, 8-10 December 2017, Medical College Auditorium, Bellary, Karnataka
13. Debate on NSS for Unilateral Wilms Tumour, Annual Conference of Karnataka State chapter of Indian Association of Pediatric Surgeons, 8-10 December 2017, Medical College Auditorium, Bellary, Karnataka
14. Solid tumours in children, Indo-UK Oncology Summit, by Indo-British Health Initiative, 15 December, Chennai

15. Nephron-sparing surgery vs Radical nephrectomy for Unilateral Wilms Tumors, 16th Congress of Evidence-based Management of Cancers, 23 February 2018, SM Merchant Auditorium, BJ Wadia Hospital for Children, Mumbai
16. The bladder post-PUV fulguration: Evaluation, management and outcome, Odhisa State Pediatric Nephro-Urology CME and Annual Conference of IAP Cuttack, 10-11 March 2018, Cuttack, Odhissa
17. Panel discussion on childhood cancer, Childhood Cancer Day Celebrations: Interaction with Treating Teams, 8 February 2018, Auditorium, AIIMS, New Delhi
18. Oligometastatic disease in Pediatric Solid Tumors: How aggressive should the treatment be? 38th Annual Conference of International Cooperative Oncology Network (ICON), 24-25 March 2018, Kochi
19. Malignant germ cell tumors, 11th Pediatric Surgery Update, MAMC, 22-25 March 2018, Ahilya Bai Auditorium, New Delhi
20. Pediatric liver tumors, 11th Pediatric Surgery Update, MAMC, 22-25 March 2018, Ahilya Bai Auditorium, New Delhi

Shilpa Sharma

1. Abdominal and pelvic trauma, ATLS Provider Course, 8 June 2017, All India Institute of Medical Sciences, New Delhi
2. Surgical skills station, ATLS Provider Course, 8 June 2017, All India Institute of Medical Sciences, New Delhi
3. Secondary survey skills station, ATLS Provider Course, 9 June 2017, All India Institute of Medical Sciences, New Delhi
4. Pediatric trauma, ATLS Provider Course, 9 June 2017, All India Institute of Medical Sciences, New Delhi
5. Triage scenarios, ATLS Provider Course, 9 June 2017, All India Institute of Medical Sciences, New Delhi
6. Initial assessment skills station, ATLS Provider Course, 10 June 2017, All India Institute of Medical Sciences, New Delhi
7. Abdominal and pelvic trauma, ATLS Provider Course, 21 September 2017, PGIMER, Dr RML Hospital, New Delhi
8. Surgical skills station, ATLS Provider Course, 21 September 2017, PGIMER, Dr RML Hospital, New Delhi
9. Role of stem cell therapy in Pediatric Urological Disorders, 2nd International Pediatric Surgery Conference, 5-6 October 2017, Saudi German Hospital, Dubai
10. Abdominal and pelvic trauma, ATLS Provider Course, 26 October 2017, PGIMER, Dr RML Hospital, New Delhi
11. Surgical skills station, ATLS Provider Course, 26 October 2017, PGIMER, Dr RML Hospital, New Delhi
12. Pretest group discussion, ATLS Provider Course, 26 October 2017, PGIMER, Dr RML Hospital, New Delhi
13. Thoracic trauma, ATLS Provider Course, 23 November 2017, PGIMER, Dr RML Hospital, New Delhi
14. Xray identification of thoracic trauma, ATLS Provider Course, 23 November 2017, PGIMER, Dr RML Hospital, New Delhi
15. Pretest group discussion, ATLS Provider Course, 23 November 2017, PGIMER, Dr RML Hospital, New Delhi
16. Endoscopy in neonates—When to perform, 37th Annual Convention of National Neonatology Forum (NEOCON 2017), 9 December 2017, Gurgaon
17. Congenital diaphragmatic hernia—Prognostic factors, management and long-term outcome, 37th Annual Convention of National Neonatology Forum (NEOCON 2017), 10 December 2017, Gurgaon
18. Stem cell applications in Pediatric Urology, 5th Annual Conference of Research Section Pediatric Surgery, 12 December 2017, PGIMER, Chandigarh

Vishesh Jain

1. Bronchoscopy: Tips and tricks in children, CME in Pediatric Surgery, 14 October 2017, Army (R&R) Hospital, New Delhi
2. Transperitoneal vs retroperitoneal approach in laparoscopic pyeloplasty, Pediatric Urology: What have we learnt! 24 December 2017, AIIMS, New Delhi

Anjan Dhua

1. Laparoscopy in UDT, CME MIS in Pediatric Surgery and Monthly Meeting DSC IAPS, 14 October 2017, Army Hospital R&R, New Delhi
2. Bronchoscopy: Tips and tricks, CME MIS in Pediatric Surgery and Monthly Meeting DSC IAPS, 14 October 2017, Army Hospital R&R, New Delhi
3. Penile lengthening in epispadias repair, Pediatric Urology—What have we learnt! 23 December 2017, AIIMS, New Delhi

4. Upper tract urodynamics, UDS Workshop, 10 March 2018, MAMC, Delhi
5. Rhabdomyosarcoma, Pediatric Surgery Update, 25 March 2018, MAMC, Delhi

Devendra Kumar Yadav

1. Phalloplasty—A novel technique for initial management of penile agenesis, Pediatric Urology—What have we learnt! 24 December 2017, AIIMS, New Delhi
2. Risk stratification in Wilms Tumour, Pediatric Urology—What have we learnt! 24 December 2017, AIIMS, New Delhi

Prabudh Goel

1. Small bowel atresias in neonates, L' Association Franco—Congolaise, 6-8 November 2017, Kinshasa
2. Congenital hypertrophic pyloric stenosis, L' Association Franco—Congolaise, 6-8 November 2017, Kinshasa
3. Digestive perforations of the neonate, L' Association Franco—Congolaise, 6-8 November 2017, Kinshasa
4. Meconium ileus, L' Association Franco—Congolaise, 6-8 November 2017, Kinshasa

Oral papers/posters presented

1. Agarwala S, Dhua A, Srinivas M, Bakhshi S, Thulkar S, Jana M, Devasenathipathy K, Bhatnagar V. The outcome of Standard Risk Hepatoblastoma (SRHB) treated with cisplatin monotherapy in a resource-challenged nation, SIOPEL Spring Meeting, Epithelial liver tumour study, 6-8 April 2017, Institute Curie, Paris, France
2. Sharma S, Yadav D, Jain V, Gupta DK. Varied facets of rectal stenosis and rectal atresia, 24th International Pediatric Colorectal Club Meeting and 18th EUPSA Congress, 14-20 May 2017, Limassol, Cyprus
3. Sharma S, Gupta DK. Complete male urethralization in common cloaca mimicking ambiguous genitalia, 24th International Pediatric Colorectal Club Meeting and 18th EUPSA Congress, 14-20 May 2017, Limassol, Cyprus
4. Sharma S, Gupta DK. Posterior ectopic anus—An unusual anorectal anomaly, 24th International Pediatric Colorectal Club Meeting and 18th EUPSA Congress, 14-20 May 2017, Limassol, Cyprus
5. Sharma S, Gupta DK. Pediatric malignant colorectal masses, 24th International Pediatric Colorectal Club Meeting and 18th EUPSA Congress, 14-20 May 2017, Limassol, Cyprus
6. Sharma S, Mathur S, Kaushal S, Gupta DK. Exigent clinicopathological facets of pediatric renal tumours sans Wilms, 24th International Pediatric Colorectal Club Meeting and 18th EUPSA Congress, 14-20 May 2017, Limassol, Cyprus
7. Dhua AK, Agarwala S, Bhatnagar V. Do anatomical landmarks and dimensions in a hypospadiac glans match those with a normal glans? A morphometric study, EUPSA 2017, 18 May 2017, Limassol, Cyprus
8. Dhua AK, Kumar K, Nagendra M, Mridha M, Bhatnagar V. Lingual leiomyomatous hamartoma with bifid tip of tongue and ankyloglossia in an infant, EUPSA 2017, 20 May 2017, Limassol, Cyprus
9. Sharma S, Mohanty S, Saxena S, Sen A, Gupta DK. Clinical trial of autologous bone marrow, Mononuclear stem cells in polio-afflicted, Neurologically deficit patients, International Symposium on Pediatric Surgical Research and Update on Newborn Surgery (ISPSR 2017), 8-10 September 2017, New Delhi
10. Sharma S, Bhanot R, Tripathi M, Das P, Gupta DK. Comparing early postoperative APRI as a marker of hepatic fibrosis following Kasai with and without partial liver resection in biliary atresia, ISPSR 2017, 8-10 September 2017, New Delhi
11. Sharma S, Bhanot R, Mathur P, Bhardwaj N, Singh G, Dinda A, Gupta D K. Mice models of obstructive renopathy and location of renal stem cells, ISPSR 2017, 8-10 September 2017, New Delhi
12. Singh N, Gupta DK, Sharma S, Sahu DK, Mishra A, Tripathi RK, Yadav D. Association between severity of hypospadias and variants in genes related to sex hormone biosynthesis and metabolism, ISPSR 2017, 8-10 September 2017, New Delhi
13. Khanna K, Anand S, Sharma S, Singh N, Gupta DK. A review of genetic factors contributing to the Etiopathogenesis of anorectal malformations, ISPSR 2017, 8-10 September 2017, New Delhi
14. Mathur A, Sharma S, Singh S, Corbett JAW, Minocha A. Modified circum-umbilical incision (Norwich Incision) beyond surgery of congenital hypertrophic pyloric stenosis in infants and children, ISPSR 2017, 8-10 September 2017, New Delhi
15. Anand S, Sharma S, Yadav DK, Jain V, Gupta DK. Early removal of ingested button batteries Prevents serious complications in children, ISPSR 2017, 8-10 September 2017, New Delhi
16. Patcharu R, Sharma S, Gupta DK. Long-term status of postoperative continence in Anorectal malformations and correlation with Anorectal manometry, ISPSR 2017, 8-10 September 2017, New Delhi

17. *Sharma S, Antony VM, Gurung N, Mirdha AR, Iyer VK, Ray R, Paul VK, Gupta DK. A Surgicopathological autopsy of thoracoomphalopagus conjoint twins; learning from the deceased, ISPSR 2017, 8-10 September 2017, New Delhi
18. Yadav DK, Agarwala S, Dinda AK. Tumor-infiltrating lymphocytes in Wilms Tumor, ISPSR 2017, 8-10 September 2017, New Delhi
19. Rahman RA Chopra A, Kumar R, Iyer VK, Agarwala S. Exploring global methylation patterns in Wilms Tumour, ISPSR 2017, 8-10 September 2017, New Delhi
20. Khanna K, Agarwala S, Srinivas M, Bajpai M, Bhatnagar V. Need for urodynamic evaluation as a regular follow-up tool in the assessment of long-term urological outcomes in patients of sacrococcygeal teratoma, ISPSR 2017, 8-10 September 2017, New Delhi
21. Sreekar GS, Agarwala S, Jana M, Srinivas M, Kumar R, Bal S, Bhatnagar V. Outcome of treatment of unilateral PUJ obstruction with less than 10% split renal function, ISPSR 2017, 8-10 September 2017, New Delhi
22. Singh JK, Yadav DK, Bagga D, Kaur H. Vanishing (closed) Gastroschisis—Diagnosis and management of rare anomaly, ISPSR 2017, 8-10 September 2017, New Delhi
23. Dhua AK, Anand S, Agarwala S, Bhatnagar V. Ventral glans tissue and meatus dimensions ratio among normal Indian boys, ISPSR 2017, 8-10 September 2017, New Delhi
24. Bhatnagar V. Chairperson, Pediatrichepato-Biliary Surgery Session, New Delhi, ISPSR 2017, 8-10 September 2017, New Delhi
25. Goel P, Rawat JD, Singh S. Conservative approach to neonatal pneumoperitoneum-Intra-peritoneal drainage may surpass the need for explorative laparotomy, ISPSR 2017, 8-10 September 2017, New Delhi
26. *Khanna K, Sharma S, Gupta DK. Redo pull through for Hirschsprung's Disease: How to reduce the need?*, IAPSCON 2017, 22-24 September 2017, Kolkata
27. Jain V, Dhua A, Malik R, Menon RK, Kothari SS, Chauhan S, Bishoi AK, Agarwala S. Abernethy syndrome: Varied presentation and management, IAPSCON 2017, 22-24 September 2017, Kolkata
28. Patcharu R, Dhua AK, Bhatnagar V. Advancement of flaps from dorsal prepuce into a split glans for cosmetic improvement during glansplasty in the treatment of hypospadias with severe chordee, IAPSCON 2017, 22-24 September 2017, Kolkata
29. Bhatnagar V, Gangopadhyay AN, Kabra SK, Saxena A. Meconium ileus and Indian experience with mucoviscidosis, Panel Discussion on Mucoviscidosis, IAPSCON 2017, 22-24 September 2017, Kolkata
30. Khanna K, Bhatnagar V, Agarwala S, Srinivas M, Datta Gupta S. Ratio of preoperative and postoperative serum bilirubin levels predicts early outcome following biliary atresia surgery, IAPSCON 2017, 22-24 September 2017, Kolkata
31. Goel P, Bajpai M, Jain S, Khanna P, Jain V, Yadav DK. Does caudal analgesia increase the rate of urethrocutaneous fistula formation after hypospadias repair? Systematic Review and Meta-Analysis, IAPSCON 2017, 22-24 September 2017, Kolkata
32. Agarwala S, Bakhshi S, Dhua A, Srinivas M, Thulkar S, Jana M, Devasenathipathy K, Bishoi AK, Bhatnagar V. "Recurrent malignant germ cell tumours", 49th Congress of International Society of Pediatric Oncology (SIOP), 12-15 October 2017, Washington, USA
33. Varshney A, Chopra A, Kumar R, Bakhshi S, Iyer VK, Bhatnagar V, Agarwala S. CTNNB1 gene—Encoding beta-catenin deletions or mutations in hepatoblastoma in India, 49th Congress of SIOP, 12-15 October 2017, Washington, USA
34. Prakash S, Dhua AK. Role of technologist in Pediatric Surgery, NCOTT 2017, 29 October 2017, AIIMS, New Delhi
35. Sharma S, Murly D, Yadav D, Gupta DK. Transrectal approach for excision of vaginal germ cell tumour and partial vaginectomy: Feasibility and challenges, Annual Meeting of Delhi State chapter of IAPS (ADSC-IAPS), 19 November 2017, Sir Ganga Ram Hospital, New Delhi
36. Sharma K, Sharma S, Seth R, Yadav D, Gupta DK. Perplexing mediastinal mass, ADSC-IAPS, 19 November 2017, Sir Ganga Ram Hospital, New Delhi
37. Bhatnagar V, Dhua AK. Video demonstration, Right extended hepatectomy for hepatoblastoma, ADSC-IAPS, 19 November 2017, Sir Ganga Ram Hospital, New Delhi
38. Varun KM, Dhua AK, Bhatnagar V. Dysphagia with megaesophagus—An unusual case of pseudoachalasia, ADSC-IAPS, 19 November 2017, Sir Gangaram Hospital, New Delhi
39. Dhua AK, Agarwala S, Bakshi S, Bhatnagar V. Role of Irinotecan as salvage therapy for recurrent hepatoblastoma, The Annual Meeting of Surgical Oncology Section of IAPS, 24 November 2017, Apollo Gleneagles, Kolkata
40. Agarwala S, Jain V, Dhua A, Srinivas M, Bakhshi S, Bishoi AK, Kandasamy K, Jana M, Bhatnagar V. Malignant GCT: AIIMS outcomes, The Annual Conference of PHO and Surgical Oncology Chapter of Indian Association of Pediatric Surgeons, 24-26 November 2018, Apollo Gleneagles, Kolkata

41. Jain V, Agarwala S, Dhua A, Srinivas M, Bakhshi S, Thulkar S, Jana M, Devasenathipathy K, Bhatnagar V. Results of treatment of standard risk hepatoblastoma in the era of cisplatin monotherapy: Single institution experience in a resource-challenged nation, 12th SAARC Federation of Oncologists International Cancer Conference, 8-10 December 2017, Colombo, Sri Lanka
42. Patcharu R, Sharma S, Gupta DK. Comparison of anorectal manometry following surgery for anorectal malformations with age-matched controls, 5th Annual Conference of Research Section of Indian Association of Pediatric Surgery (ACRS_IAPS), 12 December 2017, PGIMER, Chandigarh
43. Nandan R, Sharma S, Yadav D, Gupta DK. Assessing prognostic factors in advanced neuroblastoma, ACRS_IAPS, 12 December 2017, PGIMER, Chandigarh
44. Goel P, Bajpai M. Lumboscopic assisted pyeloplasty, Pediatric Urology—What have we learnt! 23-24 December 2017, AIIMS, New Delhi
45. Nandan R, Bajpai M, Goel P. DVTPT—Can we dream of a fistula-free repair, Pediatric Urology—What have we learnt! 23-24 December 2017, AIIMS, New Delhi
46. Gupta A, Bajpai M, Goel P. Santulli's Ureterostomy, Pediatric Urology—What have we learnt! 23-24 December 2017, AIIMS, New Delhi
47. Sharma S, Bajpai M, Goel P. Posterior Urethral Valves—Case Vignettes, Pediatric Urology—What have we learnt! 23-24 December 2017, AIIMS, New Delhi
48. Sharma S, Tsang T, Jain V, Yadav D, Gupta DK. Audit of an initial experience in Pediatric Laparoscopy and Thoracoscopy, 13th Pediatric Endosurgeons Conference (PESICON 2018), 23-25 February 2018, Indraprastha Apollo Hospital, New Delhi
49. Sharma S, Anand S, Gupta DK. Botulinum toxin-A (Botox) injections in children with neurogenic bladder: A systematic literature review, PESICON 2018, 23-25 February 2018, Indraprastha Apollo Hospital, New Delhi
50. Anand S, Jain V, Agarwala S*. Vas conserving laparoscopic excision of mullerian structures in a child with mixed gonadal dysgenesis, PESICON 2018, 23-25 February 2018, Indraprastha Apollo Hospital, New Delhi
51. Anand S, Patcharu R, Jain V, Agarwala S*. Thoracoscopic left cardiac sympathetic denervation in a child with refractory long QT syndrome, PESICON 2018, 23-25 February 2018, Indraprastha Apollo Hospital, New Delhi
52. Anand S, Dhua AK, Jain V, Agarwala S, Bhatnagar V. Pfannenstiel incision for intact specimen retrieval in Pediatric laparoscopic surgeries—Our preliminary experience, PESICON 2018, 24 February 2018, Apollo Indraprastha, New Delhi

RESEARCH

Funded projects

Ongoing

1. The study of clinical profile and aetiopathogenesis of Disorders of Sex Development (DSD)—A pilot study, M Bajpai, ICMR, 3 years, 2017-2020
2. A study of molecular basis of hypospadias with respect to testosterone biosynthetic defects, enzyme mutation and SRY gene studies, M Bajpai, ICMR, 3 years, 2017-2020
3. To study the role of gene environment interaction in the pathogenesis of congenital urological anomalies in children—A pilot study, M Bajpai, ICMR, 3 years, 2017-2020
4. A study on the histomorphology of detrusor with respect to bladder growth as related to upper and lower urinary tract outcomes, M Bajpai, DBT, 3 years, 2017-2020
5. Centre for Advanced Research on Congenital Uropathies and CKD, M Bajpai, ICMR, 5 years, 2017-2022
6. Establishing Guidelines for Fetal Counselling for Surgical Congenital Anomalies [BT/PR9572/MED/97/210/2013], Shilpa Sharma, DBT, 3 years, 2014-2017, Rs 39.76 lakhs
7. Effect of Curcumin and its combination with Piperine in experimentally induced Liver fibrosis in rats: A comparative analysis, Shilpa Sharma, AIIMS, 2 years, 2016-2018, Rs 5 lakhs
8. Reference range of serum alpha feto protein in children below three years of age, Devendra Kumar Yadav, AIIMS, 2 years, 2015-2017, Rs 2.3 lakhs
9. Role of cortical transit time on MAG3 scintigraphy in children with PUJ obstruction, Vishesh Jain, AIIMS, 2 years, 2015-2017, Rs 1.65 lakhs
10. Role of plasma renin activity in predicting renal damage in patients with neurogenic bladder and its correlation with existing parameters of renal damage, Prabudh Goel, AIIMS, 2 years, 2016-2018, Rs 4.8 lakhs

Completed

1. Role of bone marrow mononuclear cells and renal stem cells in renal preservation in obstructive renopathy—An experimental study in mice, Shilpa Sharma, AIIMS, 2 years, 2013-2015, Rs 5 lakhs

Departmental projects

Ongoing

1. Comparison of high spermatic vessel ligation, low spermatic vessel ligation of rat testis
2. Evaluation of Interstitial Cells of Cajal-Like Cells (ICC-LC) and histopathology in congenital pelviureteric junction obstruction and their correlation with intraoperative findings
3. Button battery ingestion in children: Our experience in the recent past
4. Prospective comparative cohort study of operated cases of choledochal cyst undergone Hepaticoduodenostomy and Hepaticojejunostomy
5. Assessment of long term post operative outcomes of anorectal function in patients with anorectal malformations, using anorectal manometry
6. Longterm outcome of neuroblastoma: Search for prognostic factors in a developing country—An ambispective study
7. Assessment of renal function in children with unilateral non-syndromic Wilms' tumour: An ambispective control study
8. Comparing post operative APRI as a marker of hepatic fibrosis following Kasai with and without partial liver resection in biliary atresia
9. A retrospective study of the factors that affect the long-term outcome of operated cases of hypospadias
10. A prospective study of the short term outcomes of operated cases of distal penile hypospadias in terms of immediate and early complications
11. Comparing postoperative APRI as a marker of hepatic fibrosis following Kasai with and without partial liver resection in biliary atresia
12. Assessment of long-term postoperative outcomes of anorectal function in patients with Hirschsprung's Disease
13. Hypospadias Outcomes Long-Term Database (HOLD): A prospective cohort study
14. Long-term outcome of oesophageal replacement
15. Molecular characterization of Congenital Pouch Colon [CPC], a variant of anorectal malformation
16. A randomized controlled study to assess the use of nasogastric feeding tube after repair of TEF/OA
17. MR evaluation of intrahepatic biliary ductular architecture in patients of EHBA after Kasai's portoenterostomy
18. Early repair of small urethrocutaneous fistula in children after hypospadias surgery—Randomized controlled trial
19. Evaluation of a modified technique utilizing the principles on Byar's and Braca's advancement of prepuce in the staged management of proximal hypospadias
20. Evaluation of a modified technique utilizing the principles of costal cartilage excision and providing support with an autologous free rib graft in chest wall deformities
21. Factors for on table assessment of poorly functioning hydronephrotic kidneys (<10% function) leading to pyeloplasty or nephrectomy
22. Prospective study of treatment of children with Wilms' Tumor on treatment with modified NWTS-5 regimen
23. Prospective study of treatment of children with rhabdomyosarcoma on treatment with IRS-5 regimen
24. Prospective study of treatment of children with hepatoblastoma on treatment with monotherapy and PLADO regime
25. Prospective study on five drug regimen for the management of clear cell sarcoma of the kidney
26. Evaluation of cardiotoxicity related to administration of adriamycin in children with solid tumors
27. Outcome of treatment with ICE (Ifosphamide, carboplatin and etoposide) salvage regime in children with relapsed/recurrent solid tumors
28. Role of pulmonary metastatectomy in pediatric solid tumors
29. Post-operative results of hanging bowel technique of abdomino-perineal pull through
30. Role of plasma renin activity in predicting renal damage in patients with neurogenic bladder and its correlation with existing parameters of renal damage
31. Normative assessment of pediatric penile length in Indian population
32. Quality Improvement (QI) project to ensure compliance with administration of maintenance intravenous fluids to Pediatric Surgical patients called for day-care procedures in the pre-operative waiting period

33. Assessment of intra-hepatic portal anatomy (left and right portal veins) and anatomical feasibility of Rex shunt surgery on computed tomography portography in pediatric patients with extra-hepatic portal vein obstruction
34. Quality Improvement (QI) initiative to improve the quality of post-operative discharge instructions to day-care patients operated under Pediatric Surgery in CRHPS, Ballabgarh

Completed

1. Assessment of long term post operative outcomes of anorectal function in patients with anorectal malformations, using anorectal manometry
2. Do anatomical landmarks in a hypospadiac glans match those with a normal glans?
3. Correlation of hepatic artery resistive index with portal pressure and serum nitric oxide levels in patients with extra hepatic portal vein obstruction
4. Assessment of long term urological outcomes in children with sacrococcygeal teratoma
5. Outcome patients of recurrent hepatoblastoma treated with irinotecan as salvage therapy
6. Urodynamic outcomes in patients treated for sacrococcygeal teratoma
7. Evaluation of urologic outcomes in survivors of rhabdomyosarcoma of bladder-prostate
8. To study the alterations in TGF β 1 in urine as an early non-invasive marker of renal injury after experimentally induced unilateral partial ureteric obstruction and effect on rennin angiotensin blockade on renal recovery
9. The ratio of post-operative levels of serum bilirubin and alkaline phosphatase as simple markers to predict early outcome post Kasai protoenterostomy

Collaborative projects

Ongoing

1. Hypospadias Outcome with Long-term Database (HOLD), University of McMaster, Toronto, Canada
2. To assess the chromosomal variations and its functional relevance vis-à-vis Hypospadias patients through genotyping and transcriptomics array, Advanced Molecular Science Research Center, KGMU, Lucknow
3. Association between Hypospadias and variants in genes related to Sex Hormone Biosynthesis and Metabolism, Embryonic Development and Phospholipase D signalling *pathway*, Advanced Molecular Science Research Center, KGMU, Lucknow
4. Detecting vesicoureteral reflux in children using electrical impedance tomography, A non-invasive medical device, National Children's Research Centre, UCD, Dublin, Ireland
5. Effects of mutations in the p53 network and their association with the development and prognosis of pediatric solid tumors, Department of Pediatric Surgery, Medical College, Dibrugarh
6. Reference range of serum alpha fetoprotein in Indian children below 3 years of age, Reproductive Biology
7. Role of cortical transit time on MAG3 Scintigraphy in children with PUJ obstruction, Nuclear Medicine
8. Retrospective analysis of presentation and postoperative outcomes in children with Type 2 Abernethy malformation, Cardiothoracic and Vascular Surgery
9. Intra- and inter-observer variability in the measurements of cortical transit time following MAG-3 Scintigraphy in children with unilateral PUJ obstruction, Nuclear Medicine
10. Role of shear wave elastography in diagnosis, prognostication and follow up of neonatal/infantile cholestatic liver disease, Radiology
11. MR evaluation of intrahepatic biliary ductular architecture in patients of biliary atresia after Kasai's portoenterostomy, Radiology
12. A descriptive study to assess the developmental status of children operated for EA and TEF along with caregiver's stress, their quality of life and coping abilities at AIIMS, College of Nursing
13. Role of plasma renin activity in predicting renal damage in patients with neurogenic bladder and its correlation with existing parameters of renal damage, Reproductive Biology, AIIMS, New Delhi
14. Application of diffusion MRI in detection of multifocal hepatoblastoma and role on VEGF in multifocal and metastatic hepatoblastomas, Radiodiagnosis, Pathology
15. Role of MIBG therapy for advanced non-responsive and recurrent neuroblastoma, Nuclear Medicine
16. Role of Notch and Wnt signalling pathways in Hepatoblastoma, Pathology
17. Evaluation of clinicopathological characteristics treatment outcome and prognostic factors in soft tissue sarcoma patients, Medical Oncology
18. Study of prognostic factors in thoracic PNET, Medical Oncology, Radiotherapy, Radiodiagnosis

Completed

1. Correlation of hepatic artery resistive index with portal pressure and serum nitric oxide levels in patients with extrahepatic portal vein obstruction, Radiology, Biochemistry
2. Detection of B-catenin gene mutations in hepatoblastoma in India, Pathology, Laboratory Oncology
3. To study the evaluation of appendicular stump after appendectomy using various energy sources in rats, Pathology
4. To study the evaluation of neuronal markers in the colon of patients with persistent constipation following pull through for Hirschsprung's Disease, Pathology
5. Exploring global methylation pattern in Wilm's Tumor, A pilot study, Laboratory Oncology, Pathology
6. Study of prognostic factors in pelvic PNET, Medical Oncology, Radiotherapy
7. To study the evaluation of appendicular stump after appendectomy using various energy sources in rats, Pathology
8. Effect of clonidine as an adjuvant to ropivacaine in ultrasound-guided Transverses Abdominis Plane (TAP) block in children—A randomized controlled trial, Anesthesiology
9. Role of 68GA labelled octreotide whole-body Positron Emission Tomography-Computed Tomography (PET-CT) in initial staging and restaging of paraganglionoma and comparison with 131I MIBG SPECT CT, Nuclear Medicine

PUBLICATIONS

Journals: 30 Abstracts: 2 Chapters in Books: 15

PATIENT CARE

Various speciality clinics run by the department

Hydrocephalus Clinic Antenatal diagnosis and follow up
Pediatric Urology Clinic Craniosynostosis Clinic
GI Hepatobiliary Pediatric Urology
Pediatric Solid Tumor Clinic Pediatric Thoracic Surgery Clinic
Pediatric Urology, Intersex and Hypospadias

Facilities available

- Intensive care unit for neonatal surgical patients
- High dependency area for Pediatric Surgical patients
- Computer-based Urodynamic and Uroflowmetry Study
- Computer-based Anorectal Manometry
- Computer-based Esophageal Manometry
- 24 hours pH monitoring for Gastroesophageal reflux
- Impedance Manometry for Gastroesophageal reflux

Community services

- Weekly outpatient clinic and operative session at CRHSP, Ballabgarh

Attendance in OPD and Speciality Clinics

OPD/Clinic	New Cases	Old Cases	Total
General OPD	8260	21,720	29,980
Hydrocephalus Clinic	2	68	70
Pediatric urology Clinic	616	2243	2859
Intersex and Urology Clinic (DSD + PISU)	72	551	623
Pediatric Solid Tumor Clinic (IRCH)	160	1672	1832
Tumor Clinic	56	786	842
Craniosynostosis Clinic	Nil		
CRHSP, Ballabgarh	2207		

Admissions

AB5 ward: 2426 (1282 long admissions and 1144 short admissions)
AB5/ICU: 163

Surgical Procedures

Main OT:	Routine: Major Procedures: 1319	Minor Procedures: 511
	Emergency: Major Procedures: 405	Minor Procedures: 4
OPD Procedures (Total): 1230		Biopsies in OPD: 107
CRHSP, Ballabhgarh: Minor cases: 75		OPD procedures: 159

Special Investigations

Urodynamic study: 295	Uroflowmetry: 652
Anorectal manometry: 79	Esophageal manometry: 2

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor DK Gupta was Chairman of the scientific committee of the 30th International Symposium of Pediatric Surgical Research (ISPSR-2017), from 8-10 September 2017, New Delhi; Participated in Public Lecture-AIIMS on judicious use of antibiotics-Panel discussion, AIIMS, New Delhi, 5 May 2017; International Guest Faculty to Chair the Scientific Session, Member of the Scientific Committee during the International Congress of Hypospadias and DSD, held in Mashaad, Iran, from 24-27 October 2017; Chaired Scientific Session, Pediatric Endoscopic Surgeons of India, Apollo Hospital, New Delhi, 23-25 February 2018; Chair, Scientific Session, World Congress on Women and Child, Bengaluru, 15-17 November 2017; Examiner for MCh Pediatric Surgery, PGI, Chandigarh, 1-3 December 2017; Guest of Honor and Delivered Inaugural Address, Annual Conference of the Research Section of the Indian Association of Pediatric Surgeons, PGI, Chandigarh, 15-16 2017; Chair, Scientific Session, Annual Conference, Minimal Invasive Surgery, Research and Referral Hospital, New Delhi, 14-15 October 2017; Panel of Judges to select best paper during Award Session, Annual Conference of Delhi State Chapter of Indian Association of Pediatric Surgeons, Sir Ganga Ram Hospital, New Delhi, 18-19 November 2017; Chairman, Scientific Session, Conference on Nanotechnology, Trivandrum, 6-9 December 2017; Chairman, Scientific Session, Conference on Pediatric Urology, AIIMS, New Delhi, 23-24 December 2017; Chairman, Scientific Session, Research Meeting, Indian Association of Pediatric Surgeons, PGI, Chandigarh, 15-17 December 2017; Chair Scientific Sessions on Hirschsprung Disease and Esophageal Atresia, World Congress of Surgery, Congress Center, Basel, 14-17 August 2017; Professor Martin Meuli, Chief of Department of Pediatric Surgery at the Children Hospital, Zurich, Switzerland invited to visit his department for clinical rounds and the Pediatric Radiology meeting and discussed the plans on the upcoming new state of the Art, Children Hospital in Zurich; Pre-conference workshop to participate in scientific discussions and also moderate the session on Live Surgery, 42nd Annual Conference of Indian Association of Pediatric Surgeons (IAPS), Agra, 28 September-2 October 2017; Inaugural address on current challenges in Pediatric Surgery in India as President, World Federation of Associations of Pediatric Surgeons (WOFAPS) and Chief Guest, 42nd Annual Conference of Indian Association of Pediatric Surgeons (IAPS), Agra, 28 September-2 October 2017; Inaugural address and conducted business meeting as Secretary General, ISHID, 7th International Congress of Hypospadias and DSD, Moscow, Russia, 30 August-1 September 2017; Guest faculty to Chair Scientific Sessions, Guest Lectures and OPD Clinics, Ward Rounds, Conduct Live Surgery at the Children Hospital, Kinshasa, DPR Congo, Africa, 5-11 September 2017; Inaugural address and present the medical supply and pediatric endoscopes to the local Children Hospital, (as a Charity), 1st International Congress of Pediatric Surgery, Kinshasa, DPR Congo, Africa, 5-11 September 2017; Chief Guest to Inaugurate the Trauma Symposium of the Polish Association of Pediatric surgeons held in Poznan, Poland from 6-8 October 2017; Chief Guest to deliver inaugural address and chair scientific sessions, 2nd Pediatric Surgery Conference, Saudi German Hospital, Dubai, 4-5 October 2017; Guest Faculty, IMEX America, Las Vegas, USA, 9-11 October 2017; Chair, Scientific Session, Annual Conference of Colorectal Club, Limassol, Cyprus, 14-16 May 2017; Chair, Scientific Session, Annual Conference of the European Association of Pediatric Surgeons, held in Limassol, Cyprus, 17-20 May 2017; Chair, Scientific Session, Conference on Mind, Body and Meditation, Shanti Van, Mount Abu, Rajasthan, 26-28 January 2018.

Professor V. Bhatnagar was Chairperson, Adjudication Committee for rare side effects, Rota Virus Trial, DST, Government of India, 2016-to date; Member, Technical Advisory Group, The Inclen Trust International for Multisite Hospital Based Intussusception and AEFI Surveillance Program in India, 2017; Member Board of Studies for the newly created Department of Pediatric Surgery, Sanjay Gandhi Post-graduate Institute of Medical Sciences, Lucknow, since February 2011; Governing Council Member, Chacha Nehru Bal Chikitsalaya, New Delhi, since 2012; Editorial Board Member, Indian Journal of Pediatrics, since 2004; Member, Editorial Board, Journal of Indian Association of Pediatric Surgeons, since 1996; Advisory Panel Member, National Academy of Medical Sciences, since 2008.

Professor Minu Bajpai was Professor in Charge, International Cooperation Cell, AIIMS, Organizing collaborations between AIIMS, New Delhi and various universities, such as French Academy of Medicine-Paris, Cologne, Victoria, Deakin, VITO-Belgium, UCL, London, etc; was Member, Empowerment Committee: Overseeing the Re-development of Ansari Nagar and AV Nagar Housing Colonies constructed by NBCC; worked as Deputy Secretary (AIIMS Administration), Meeting with DDA to discuss various issues related to Security, Parking, Administration, Procurement, Personal Staff, House Allotment and Office Space; was Chairman-Cafeteria Management Committee; was Member, O.T. Management OT (Users) Committee is convened under the Chairmanship of Professor S. C. Sharma, Head of ENT and Faculty in Charge, Main OT to discuss various issues specifically pertaining to Infection Control Practices in Main OT; was Member, Technical Specification/Selection

Committee to review the selection/remarks to evaluate pre-qualification document, see the representation for further decision and to modify/amend existing specification; was Member, Redevelopment of Residential Colonies at West Ansari Nagar and Ayur Vigyan Nagar Campuses of AIIMS, New Delhi, 1st Meeting of Empowered Committee; was Member, Technical Specification/Selection Committee; was Faculty, Introductory Briefing Meeting for the Health Secretary and 213th Meeting of the Standing Finance Committee; was Faculty, To discuss scientific programme and other related issues for the 2nd AIIMS-French Academy of Medicine which will be held at Toulouse, France; was Chairman: Purchase of Digital Flat Panel under Cauch Fluoroscopy System under buy-back basis for the Department of Radio-Diagnosis (Main) under two bid systems; was Chairman, ACR Review Committee Meeting in Respect of Scientist Cadre; was Deputy Secretary (D.S.), Presentation on Trauma Centre Expansion by NBCC; D.S., The decision to implement SAP for streamlining the resource planning activities at AIIMS, New Delhi; D.S., Redevelopment of Residential Campuses of AIIMS, New Delhi; D.S., Redevelopment of Campus of AIIMS, New Delhi; D.S., To discuss the issue about IVF Floor at Upcoming Mother and Child Block at Masjid Moth; D.S., Meeting with H.E. Vitaly A. Prima Ambassador, Embassy of the Republic of Belarus; D.S., Meeting with a delegation of Roseman University of Health Sciences, Hederson, Nevada, USA; D.S., Step taken by the government for major push to cash less transactions; D.S., Meeting with Dr Poonam Malakondaiah, Principal Secretary, Health Medical and Family Welfare Department and Professor K. Babji; D.S., Redevelopment of Campus of AIIMS; D.S., A status note on the colour code of bedsheets throughout AIIMS; D.S., Meeting with Consulate/High Commission, Republic of Mauritius; D.S., Redevelopment of Residential Campuses of AIIMS, New Delhi; D.S., Meeting of the Cafeteria Management Committee to be held on 17 January 2017, for upgrading cafeteria block; D.S., Establishing fruitful cooperation with Second University Naples, Rome, Italy and AIIMS, New Delhi; D.S., SFC for redevelopment of AIIMS residential campuses and damage rent changes in respect of faculties, AIIMS; D.S., Meeting for AIIMS-TCS collaboration phase-II, renewal of MOU; D.S., Meeting regarding of the due bills/salary of Sh. S.K. Sharma, Ex-Volunteer Manager, Rajgarhia Vishram Sadan, AIIMS; D.S., Signing of MoU between AIIMS and Stanford University, USA for creating virtual teaching modules in areas of Health Science; D.S., Regarding running of AIIMS OPD canteen; D.S., To discuss the issues related to cooperation between AIIMS, New Delhi and Indian Railway, New Delhi; D.S., Training of Medical Doctors/Nurses of Juba Teaching Hospital, Sudan—regarding; D.S., Tender for running of Tea and Vending Machine Kiosk at waiting area of New Emergency Ward at Ansari Nagar, AIIMS and Tea and Coffee Vending Machine Kiosk at JPNATC, AIIMS, New Delhi; D.S., Reg. Training of Medical Doctors/Nurses of Juba Teaching Hospital, Sudan; D.S., Invitation for Chief Guest in AIIMS/JIPMER/PGI/or Punjab University, Chandigarh on 17-22 February 2017; D.S., Meeting on new social initiatives in the Union Budget 2017-2018; D.S., Meeting with Defence Advisor of Bangladesh High Commission, Brigadier General Md. Abdul Hamid along with the delegation; D.S., Regarding cafeteria kitchen equipment tender status; D.S., Meeting with H.E. Mr. Vitaly A. Prima, Ambassador, Embassy of the Republic of Belarus; D.S., Meeting to review the status of the projects being undertaken by HSCC; D.S., Project review meeting to be chaired by Director, AIIMS, New Delhi; D.S., Meeting of the committee on issues related to Mother and Child Block Project.

Professor Sandeep Agarwala was Executive Board Member of the Asian Association of Pediatric Surgeons; Section Editor for the Indian Journal of Pediatrics; Chairperson, Surgical Oncology Section of the Indian Association of Pediatric Surgeons; Vice Chairman, Resource Challenged Nations Study Group of SIOPEL; Chairman, 61th Annual Report Committee of AIIMS; Co-Chairman Faculty Coordination Committee for Pulse 2017, AIIMS; Secretary, AIIMSONIANS—The Alumni Association of AIIMS; Member of committee to consider PhD reforms at AIIMS; Member of committee to frame guidelines of the seats/posts of JR(MD/MS/MHA) and SR (DM/MCh) and SR (Non-DM/MCh) at AIIMS; Member standing committee to regulate media reporting and disclosure of details relating to children; Member, Committee for Selection of Shri Mohan Lal Wig Medal for Clinical Research; Course Instructor for Surgical Oncology Course, Conducted by International Society of Pediatric Surgical Oncology (IPSO), and the European Board of Examination, and European Society of Pediatric Surgery prior to annual congress of the European Society of Pediatric Surgery; Course Instructor for Masterclass in Pediatric Surgical Oncology, Conducted by the International Society of Pediatric Surgical Oncology (IPSO), and the European Board of Examination, and European Society of Pediatric Surgery.

Dr Shilpa Sharma was Secretary of Research Section of Indian Association of Pediatric Surgery 2018-2020; Editorial Board Member of Pediatric Surgery International; Executive Council Member of the International Society of Hypospadias and DSD 2018-2020; Executive Committee Member of World Federation of Association of Pediatric Surgeons (WOFAPS) 2017-2019 (representative from Asia); Member of Standing Selection Committee for faculty recruitment at AIIMS, Patna; Co-author for KK Sharma Award Paper on Gastrointestinal Disease during IAPSCON 2017; Best Poster Ward for Poster Walk Three during ISPSR 2017 and Update on Newborn and Fetal Surgery (ISPSR 2017).

Dr Vishesh Jain received two best poster award at the 13th Pediatric Endosurgeons Conference (PESICON 2018) held at New Delhi in February 2018.

VISITING SCIENTIST

1. Dr Hakimi, Chief of Pediatric Surgery, Indira Gandhi Institute of Child Health, Kabul, Afghanistan
2. Professor Prem Puri, President of National Children's Research Centre, Our Lady's Children's Hospital, Crumlin, Dublin 12, Ireland

3. Professor Surender Varma, Executive Associate Dean University Distinguished Professor and Vice Chair, Pediatrics, TTUHSC School of Medicine, Lubbock, USA
4. Mohd. Abu Doud, Bangladesh, for training in the department for one month
5. Professor Maria Salgado, Chief of Pediatric Surgery, Children Hospital, Portugal
6. Mr Azad Mathur, Chief of Pediatric Surgery from Norwich Children Hospital, Norwich, UK
7. Mr Devesh Misra, Consultant Pediatric Surgeon, Chelsea and Westminster Hospital, London
8. Professor S N Gorthi, from Kamineni Medical College and Hospital, Hyderabad,
9. Dr Venessa Villamil, Senior Fellow in Pediatric Surgery from Buenos Aeries, presently a trainee in Spain visited the Department of Pediatric Surgery, AIIMS for a month as an observer, February 2018.

9.29. Pathology

Professor and Head

Subrat K. Panda

Professors

Chitra Sarkar	Manoj K. Singh	S. Datta Gupta
Ruma Ray	A.K. Dinda	M.C. Sharma
Venkateswaran K. Iyer	Sandeep R. Mathur	Vaishali Suri

Associate Professors

Sudheer Arava	Geetika Singh	Asit Ranjan Mridha
Deepali Jain	Prasenjit Das	

Assistant Professors

Rajni Yadav	Seema Kaushal	Shipra Aggarwal
Saumya Ranjan Mallick	Adarsh Barwad	Prashant Ramtake
	Aanchal Kakkar	

Group A Officers

Himender Singh Tomar	Shankar Ram Arya
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HIGHLIGHTS

In the financial year 2017-2018, we have introduced several facilities in the department:

- i) **Flow Cytometer**
- ii) **Capillary Sequencer**

In research, we have faculty members working on virtual education and skill development, molecular virology of hepatitis, intestinal inflammatory diseases, nanotechnology, lung cancers, lymphomas, gliomas and their molecular characterization and metabolic syndromes.

Hepatitis E Virus (HEV) egress and successful completion of its transcriptome, long non-coding RNA and microRNA analysis have been done. In addition, a new model for metabolic syndrome using transcriptomics and metabolomics is developed, and the role of liver cells in activating macrophages to kill has been studied. Long non-coding RNA BST-2 controlling Tethrin has been identified as controller of Hepatitis E Virus. Role of hsa miR3120-3p has been studied as it over expresses in HBV infection.

We have started giving an integrated diagnosis of brain tumors incorporating molecular markers as per WHO 2016 classification.

In lung cancer, molecular testing is performed, and during the last year, approximately 270 patients of lung cancer have been tested for EGFR mutation and ALK rearrangement.

FISH karyotyping for refractory diffuse large B cell lymphoma for double hit and triple hit status is started as a part of research project. Epstein Bar Virus In situ hybridization is also started for difficult cases of Hodgkin lymphomas. Flow cytometric studies have started to diagnose lymphomas and hematologic malignancies.

Electron microscopy has been incorporated to the kidney pathology of glomerulonephritis in all cases.

Upgradation of surgical pathology, cytopathology and teaching methodology is in progress. We are developing virtual teaching as a tool for teaching UGs, nursing students and field health workers.

EDUCATION

Undergraduate: No change

Postgraduate

MD students: 28

Senior residents: 16

PhD students: 6

Short-term training

1. Dr Lt Col (Dr Samresh Kumar is undergoing long-term training for 24 months from 29 August 2016 continuing
2. Dr Lt Col Prerna Guleria is undergoing long-term training for 24 months from 13 December 2016 continuing
3. Dr Surabhi Tyagi, Super Speciality Paed. Hospital has undergone short-term training one month from 21 August to 20 September 2017
4. Dr Utsav Johsi from SMS Medical College, Jaipur has undergone six-month observership from 5-10 June 2017
5. Dr Anita Harsh from SMS Medical College, Jaipur has undergone six-month observership from 5-10 June 2017
6. Dr Kusum Mathur from SMS Medical College, Jaipur has undergone six-month observership from 5-10 June 2017
7. Dr (Col) Jainul Islam from Arm Forces Institute of Pathology, Dhaka Bangladesh undertook training in Renal Pathology from July 2017 to till December 2017

CMEs/Workshop/Symposia/National and International Conferences

Organized 2nd National Conclave on Virtual Teaching from 8-9 February 2018, Held at Dr Ramalingaswami Board Room, AIIMS, New Delhi.

Lectures delivered

Chitra Sarkar

1. Pediatric gliomas, 2nd Annual Conference of Neuropathology Society of India, (NPSICON 2017), 21-23 April 2017, NIMHANS Convention Centre, Bengaluru
2. What WHO 2016 'IS' in the context of Adult Glial Neoplasms, Controversies in Clinical Oncology, 7-8 July 2017, Tata Medical Centre, Kolkata
3. Non-neoplastic lesions of CNS mimicking tumors, West Bengal Chapter of IAPM, 9 July 2017, Kolkata Medical College, Kolkata
4. Recent concepts in the diagnosis of muscle diseases, West Bengal Chapter of IAPM, 9 July 2017, Kolkata Medical College, Kolkata
5. Introduction to 2016 WHO classification of gliomas—What's new and different? First Neurological Society of India Superspeciality CME, 14-16 July 2017, Gopalpur, Odisha
6. Approach to NUP (Neoplasm of Unknown primary) in the CNS, First Neurological Society of India Superspeciality CME, 14-16 July 2017, Gopalpur, Odisha
7. Molecular markers in adult diffuse low-grade gliomas (Grade II and III)—Clinical application, First Neurological Society of India Superspeciality CME, 14-16 July 2017, Gopalpur, Odisha
8. Update on embryonal tumors, Tumor Board/CPC discussion, CME in Neuropathology Update, 28-29 August 2017, Kochi, Kerala
9. Recent advances in medulloblastomas: Impact and challenges from a neuropathologist's perspective, Annual Meeting of the Asian Society of Neuro-Oncology, 29-31 October 2017, Osaka, Japan
10. Workshop on "Consensus guidelines for brain tumors in Children", PHOCON 2017 Conference, 24-26 November 2017, Kolkata
11. Case-based discussion on neoplastic and non-neoplastic diseases of the Central Nervous System, Annual Conference of Indian Association of Pathologists and Microbiologists, 8-10 December 2017, Medical College, Bhopal
12. Challenges and solutions of molecular classification in the Indian context—Medulloblastoma and other embryonal tumors, 3rd Annual Conference of Neuropathology Society of India (NPSICON 2018), 16-18 February 2018, Sahara City, Lucknow

S. Datta Gupta

1. Non-neoplastic lesions of the liver, Victory Path 2017, 8 April 2017, Government Medical College, Thiruvananthapuram

2. Slide seminar: Non-neoplastic lesions of the oesophagus, stomach, intestine, Victory Path 2017, 8 April 2017, Government Medical College, Thiruvananthapuram
3. Moderated and participated in case presentations on CPC format, Victory Path 2017, 8 April 2017, Government Medical College, Thiruvananthapuram
4. Current role of histopathologist in liver diseases, 5th Annual Conference of the South Asian Association for the Study of Liver (SAASL) and the Annual Academic Sessions of Sri Lanka Society of Gastroenterology 2017, 20 July 2017, Colombo
5. Histological features of lean NAFLD/NASH, 5th Annual Conference of the South Asian Association for the Study of Liver (SAASL) and the Annual Academic Sessions of Sri Lanka Society of Gastroenterology 2017, 21 July 2017, Colombo
6. Postgraduate level quiz, Quarterly Meeting of Delhi Chapter of Indian Association of Pathologists and Microbiologists (DCIAPM), 29 July 2017, All India Institute of Medical Sciences (AIIMS), New Delhi
7. Portal inflammation in liver biopsies, 6th V. Ramalingaswami Oration and Hepatopathology Meeting, 8 August 2017, Institute of Liver and Biliary Sciences, New Delhi
8. Interpretation of small intestinal biopsy in diagnosis of celiac disease, 17th International Celiac Disease Symposium (ICDS 2017), 9 September 2017, New Delhi
9. Non-Alcoholic Fatty Liver Disease (NAFLD): An overview, Guest Lecture, 15 September 2017, Army Hospital Research and Referral, New Delhi
10. The art and science of pathology: Pathology through the ages, Guest Lecture, 16 November 2017, Armed Forces Medical College, Pune
11. Clinicopathological conference: Mesenteric panniculitis, 58th Annual Conference of the Indian Society of Gastroenterology (ISGCON 2018), 16 December 2017, Bhubaneswar
12. Pathology for gastroenterology young masters: Interpretation of GI and liver biopsies, Gastroenterology Young Masters (GYM) Programme 2018 of the Indian Society of Gastroenterology, 21 January 2018, St Johns Medical College, Bengaluru
13. Slide seminar: Case of celiac disease, Evolving Concepts and Diagnostic Challenges in the Pathology of Luminal Gastrointestinal Tract, 17 February 2017, GB Pant Institute of Medical Education and Research, New Delhi
14. Slide seminar: Case of colonic spirochetosis, Evolving Concepts and Diagnostic Challenges in the Pathology of Luminal Gastrointestinal Tract, 17 February 2017, GB Pant Institute of Medical Education and Research, New Delhi
15. Histological scoring of liver fibrosis, 27th Annual Conference of the Asian Pacific Association for the Study of the Liver, 17 March 2018, New Delhi

Manoj K. Singh

1. Role of virtual teaching in medical education, The NPTEL—Medicine Workshop, 30 June 2017, IIT, Chennai

A.K. Dinda

1. Recent advances in drug delivery and targeting technologies for ocular diseases: An overview, DBT-AIIMS Symposium on Recent Advances in Ocular Drug Delivery System, 22 July 2017, AIIMS, Delhi
2. Challenges in the marketing of nano-enabled products: Indian scenario, “Industry-Academia Summit: Challenges and Opportunities towards Developing Advanced Engineering Materials”, 9 September 2017, Manipal University, Jaipur
3. Overview of nano-enabled system in dental care and way ahead, Symposium on Application of Nanotechnology in Dentistry, 2 October 2017, AIIMS, New Delhi
4. A novel application of nanotechnology for multimodal therapy of non-invasive urinary bladder carcinoma, Baltic Conference Series (BCS 2017), 11 October 2017, Institute of Advanced Materials, Stockholm, Sweden
5. Podocytopathy, AIIMS Glomerulonephritis-Conclave-2017, 28 October 2017, AIIMS, New Delhi
6. Application of nanotechnology for incremental innovation: A drug delivery system with high translational potential, Symposium on Chemical Biology and Drug Discovery (SCBDD-2017), 30 October 2017, Bose Institute, Kolkata
7. Application of nanotechnology in Medicine: The enigmatic journey from bench to bedside, 86th Conference of Society of Biological Chemists Emerging Discoveries in Health and Agricultural Sciences, 16 November 2017, JNU, New Delhi
8. Nanotechnology and safety of human health, 1st International Conference on “Nanotechnology for Agriculture: From Research to Innovation”, 21 November 2017, India Habitat Centre, New Delhi
9. Targeting Kalazar, Nanobioteck 2017, 6 December 2017, KTDC Auditorium, Trivandrum

10. Lymphatic targeting: The challenges and opportunities, Nanobioteck 2017, 6 December 2017, KTDC Auditorium, Trivandrum
11. Detection of urine-based biomarkers for carcinoma prostate, Nanobioteck 2017, 7 December 2017, KTDC Auditorium, Trivandrum
12. Regulatory framework for nano products and processes—Indian perspective, Nanobioteck 2017, 7 December 2017, KTDC Auditorium, Trivandrum
13. Nano-drug delivery system with commercial potential: The need for incremental innovation with regulatory compliance, Recent Advances in Nano Science and Technology, 19 December 2017, Institute of Nano Science and Technology (INST), Mohali, Chandigarh
14. Critical issues in development of guideline for nanosafety regulation: The role of alternative test strategy, Indo-US Symposium on Nanobiotechnology Regulatory Science, 22 February 2018, ICT, Hyderabad
15. Understanding nano-bio interface: The key for translation, “Recent Advances in Responsive Molecules and Materials”, 16 March 2018, JNU, New Delhi

Ruma Ray

1. Moderator for interesting case-based discussion of cardiac cases, ISHR 2018, 16-18 February 2018, PGI, Chandigarh

Mehar C Sharma

1. Biology of ependymomas, 2nd Annual Conference of Neuropathology Society of India, 21-23 April 2017, NIMHANS, Bengaluru
2. Tumours of the spine, Dr Ramani Master Spine Course, 21-23 April 2017, Juhu, Mumbai
3. Down-regulation of *SMARCB1/INI1* expression in poorly differentiated childhood chordomas associates with up-regulation of *SMARCB1* regulators miR-671-5p and miR-193a-5p: A possible mechanism of down regulation of *SMARCB1/INI1* expression, 5th Quadrennial Meeting of the World Federation of Neuro-Oncology Societies (WFNOS), 4-8 May 2017, Convention Centre, Zurich, Switzerland
4. Update on CNS embryonal tumours, Medanta Pathocon 2017, 17-18 October 2017, Medanta Hospital, Gurgaon, Haryana
5. Interesting case presentation, First Annual Update in Lymphoma, 28-29 October 2017, Tata Memorial Centre, Mumbai
6. Primary CNS lymphoma, Seminar on Central Nervous System Lymphoma, 2 November 2017, IRCH, AIIMS, New Delhi
7. Approach to pituitary tumours, Annual Conference of Pathologists and Microbiologists, 8-10 November 2017, Bhopal Medical College, Bhopal
8. Approach to papillary lesions of the central nervous system, Annual Conference of Pathologists and Microbiologists, 8-10 November 2017, Bhopal Medical College, Bhopal
9. Pathological aspects of CNS lymphoma, AIIMS HEMONC Update, 25-26 November 2017, IRCH, AIIMS, New Delhi
10. Pathological aspects of brain metastases, Seminar on Brain Metastasis, 18 November 2017, IRCH, AIIMS, New Delhi
11. Update on neuroendocrine tumours, The 6th SouthAsian Academy of Cytopathology and Histopathology 2018, 19-21 January 2018, Regional Institute of Medical Sciences, Ranchi
12. Oligodendrogliomas and mimcs, 3rd Annual Conference of Neuropathological Society of India (NPSICON-2018), 17-18 February 2018, Sahara City, Lucknow, UP
13. Diagnostic slide seminar, 3rd Annual Conference of Neuropathological Society of India (NPSICON-2018), 17-18 February 2018, Sahara City, Lucknow, UP
14. Discussion in CPC, 73rd Annual Conference of API, 22-25 February 2018, Dr Babu Rajendra Prasad International Convention Centre, Bengaluru, Karnataka
15. Update on neuroendocrine tumours, 16th Biennial Congress of Asian Association of Endocrine (AsAES 2018), 8-10 March 2018, New Delhi

V.K. Iyer

1. Molecular diagnostics on liquid-based cytology of lung cancer, 3rd International Conference on Cytopathology and Histopathology, 22-23 June 2017, Philadelphia, USA
2. Cytology of cervical cancer, FOGSI Certified Workshop on Colposcopy, 3-4 July 2017, Thane, Mumbai
3. Pitfalls in cervical cytology, FOGSI Certified Workshop on Colposcopy, 9-10 September 2017, Thane, Mumbai

4. FNAC of pediatric lymphoma, CME on Lymph Node Aspiration Cytology, 9-13 November 2017, IAC, Shillong
5. Cytology of Castleman's Disease, Workshop on Cytology of Lymphomas, 6 December 2017, IAPM, Bhopal

Vaishali Suri

1. Molecular markers in routine reporting of gliomas: Necessary or not? 2nd Annual Conference of Neuropathology Society of India, 21-23 April 2017, NIMHANS, Bengaluru
2. Clinicopathological and molecular characteristics of pediatric versus adult meningiomas, Annual Conference of the Congress of Neurological Surgeons, CNS 2017, 7-11 October 2017, Boston Convention Centre, Boston, Massachusetts, USA
3. WHO classification of GBM—Which molecular markers to be tested and their clinical relevance, 66th Annual Conference of Neurological Society of India, NSICON 2017, 30 November-3 December 2017, Nagpur
4. Immunohistochemical and molecular genetic study on epithelioid glioblastoma, 66th Annual Conference of the Neurological Society of India, NSICON 2017, 30 November-3 December 2017, Nagpur
5. Newer approaches to classification of meningiomas—Beyond WHO 2016, 3rd Annual Conference of Neuropathological Society of India (NPSICON-2018), 17-18 February 2018, Sahara City, Lucknow
6. The utility of FISH assay in Neuropathology, 3rd Annual Conference of Neuropathological Society of India (NPSICON-2018), 17-18 February 2018, Sahara City, Lucknow

Sandeep Mathur

1. Cytodiagnosis of lymphoid lesions: Reactive lymphadenopathy, CYTOCON 2017, 10 November 2017, NEIGRIMS, Shillong
2. Slide seminar in pulmonary cytology, CME in Pulmonary Cytology, 3 February 2018, Sir Gangaram Hospital, New Delhi
3. Update on sex cord-Stromal tumors of ovary, 'Gynepathology CME', 25 February 2018, SRMS-IMS, Bareilly
4. Liquid based cytology, Vth Hands-on Workshop on Cervical Cancer Screening, 20 February 2018, NICPR, NOIDA
5. Stump the star, AIIPNA 2018, 21 January 2018, DY Patil College, Navi Mumbai
6. Borderline Mucinous (and PMP) Seromucinous and Endometrioid Tumors, 66th APCON 2017, 8 December 2017, Gandhi Medical College, Bhopal
7. IHC in diagnosis and therapy of genital tract neoplasms, 66th APCON 2017, 8 December 2017, Gandhi Medical College, Bhopal
8. Slide seminar on "Breast Core Biopsy", 66th APCON 2017, 7 December 2017, Gandhi Medical College, Bhopal
9. Slide seminar, International CME in Gynaecological Pathology, 28-29 October 2017, PGI, Chandigarh
10. Update on sex cord-Stromal tumors of ovary, Medanta Pathocon: International CME in pathology", 7 October 2017, Medanta Hospital, Gurgaon
11. High-risk lesions: What clinicians should be wary of, Asian Society of Mastology Conference 2017, 7 October 2017, AIIMS, Delhi
12. Liquid based cytology vs conventional cytology, 8th Annual AOGIN India Conference 2017, 8 September 2017, Lucknow
13. CME in gynaecological pathology, Mesenchymal Tumors of Uterus, 28 April 2017, AFMC, Pune

Geetika Singh

1. Update on glomerular disease—Pathology and beyond; and slide seminar, Clinicopathologic Conference on Renal and GI Pathology, 27 August 2017, SMS, Jaipur
2. Interpreting the renal biopsy, Xth Annual Pediatric Nephrology Training Course, 29 March 2018, AIIMS, New Delhi

Asit Ranjan Mridha

1. Importance of sarcoma pathologist in multidisciplinary sarcoma clinics, Symposium on Sarcoma, 24 June 2017, Dr BRA, AIIMS, New Delhi

Deepali Jain

1. Current updates in the diagnosis of lung cancer, Delhi Chapter IAPM, 29 July 2017, Delhi
2. Status of thoracic pathology in India, Guest Faculty Lecture, 14 September 2017, Mannheim, Germany
3. Making the most of the WCLC: A guide for first time attendee - From a second time attendee, IASLC 18th World Conference on Lung Cancer, 15 October 2017, Yokohama, Japan
4. Multimodal management of lung cancer, Best of WCLC 2017, 29 October 2017, Delhi
5. Trucut/core biopsy versus FNAC: Who wins the match: Pulmonary tumors, CYTOCON 2017, 13 November 2017, Shillong

6. Detection of therapeutically targetable EGFR mutations in lung cancer in Updates in Oncology: NCI India Educational Series, ISCO Preceptorship Programme Non-Small Cell Lung Cancer; Updates in Oncology: NCI India Educational Series, 24 December 2017, Delhi
7. FNA cytology—Metastatic tumors and uncommon tumors of the lung, CME—Pulmonary Cytology, 3 February 2018, Delhi
8. Predictive biomarker testing for immunotherapy in lung cancer, World Congress on Cancer, 4 February 2018, Jaipur
9. A potpourri of interesting cases, Pre-EBM CME on recent advances in head and neck pathology, 22 February 2018, Mumbai

Sudheer Arava

1. CPC case discussion, PULMOCRIT, 15-16 April 2017, AIIMS, New Delhi
2. Poster presentation, International Conference of Renal and Pulmonary Pathology, 24-26 August 2017, Colombo, Sri Lanka
3. Lecture on CAV, Annual Conference of ISOT, 13-15 October 2017, Indore, Madhya Pradesh
4. Interesting case discussion, DSI Annual Conference, 1-3 December 2017, JIPMER, Pondicherry
5. Case-based discussion, ISHR 2018, 16-18 February 2018, PGI, Chandigarh
6. Lecture on EMB, Cardiovascular Pathology Update 2018, 10-12 March 2018, Sri Chitra Institute, Trivandrum, Kerala

Prasenjit Das

1. Advances in celiac disease and India, Pediatric GI Pathology CME at Fortis, Okhla, 3 September 2017, Fortis, Okhla, New Delhi
2. Celiac disease in India, Gastrointestinal and Nephropathology CME, 11 September 2018, SMS, Jaipur
3. Hepatic Sinusoids, Dr V Ramalingaswami Oration and Clinicopathological Conference, 8 August 2017, ILBS, New Delhi
4. Panel discussion, Joint Symposium on Gall Bladder Carcinoma between AIIMS-MD Anderson Cancer Centre, Texas, USA, 6 November 2017, AIIMS, New Delhi
5. Hepatocellular carcinoma and its pathogenesis, IHPBA India, 13-14 January 2018, Pune
6. Hepatobiliary cystic lesions, IHPBA India, 13-14 January 2018, Pune
7. Pathology of intestinal pseudo-obstruction, Annual Conference of South Asian Association of Histopathologists and Cytopathologists, 21-23 January 2018, RIMS, Ranchi

Rajni Yadav

1. Update on Grading of Pancreatic Neuroendocrine Tumors, Delhi IAPM Quarterly Chapter, AIIMS, 29 July 2017, AIIMS, New Delhi
2. Interactive case presentation, 6th Dr V Ramalingaswamy Oration and Hepatopathology Meeting 2017, 8 August 2017, ILBS, New Delhi
3. Interesting case presentation, Pediatric Gastrohepatopathology Clinicopathologic Conference, 3 September 2017, SRL Fortis, New Delhi

Saumya Ranjan Mallick

1. What is new in the 2016 revision of the WHO classification of haematolymphoid neoplasms, 58th Annual Conference of Indian Society of Hematology and Blood Transfusion, 5 November 2017, Guwahati
2. Interesting cases of histiocytic and accessory cell lesions, Annual Conference of Indian Association of Pathology and Microbiology, 6 December 2017, Gandhi Medical College, Bhopal
3. Double Hit and Double Expressor DLBCL: AIIMS Hemonc Update 2017, 25 November 2017, AIIMS, New Delhi

Seema Kaushal

1. Pathology of bladder carcinoma, International Symposium on Bladder Carcinoma, 29 July 2017, AIIMS, New Delhi
2. Pathology of GCT testis, Symposium on Germ Cell Tumors, 30 September 2017, IRCH, AIIMS, New Delhi
3. Interesting case presentations, CME on Update in Urothelium, 22-23 December 2017, MPUH College and Hospital, Nadiad, Gujarat

Prashant Ramtake

1. Case presentation, HEMATOCON 2017, 2-5 November 2017, Guwahati, Assam

Aanchal Kakkar

1. What is new in the WHO classification of tumors of the oropharynx, Quarterly Meeting of Delhi Chapter of Indian Association of Pathologists and Microbiologists, 29 July 2017, AIIMS, New Delhi
2. Pot pourri of interesting cases, Amrita Head and Neck Allied Specialties' Meet 2018 Pathology Module, 25 March 2018, AIIMS, Kochi

Oral papers/posters presented

1. Kedia S, Madhusudhan KS, Sharma R, Bopanna S, Yadav DP, Goyal S, Jain S, Pradhan R, Mouli VP, Das P, Datta Gupta S, Makharia G, Ahuja V. Combination of increased visceral fat and long segment involvement: Development and validation of an updated imaging marker for differentiating crohns disease from intestinal tuberculosis, 58th Annual Conference of Indian Society of Gastroenterology (ISGCON 2017), 15 December 2017, Mayfair Convention Centre, Bhubaneswar
2. Das P, Gahlot GPS, Badola V, Singh A, Sreenivas V, Datta Gupta S, Makharia GK. Local immune effector and regulatory T Cells in adult patients with treatment-naive celiac disease, 58th Annual Conference of Indian Society of Gastroenterology (ISGCON 2017), 14-17 December 2017, Mayfair Convention Centre, Bhubaneswar
3. Das P, Gahlot GPS, Rawat R, Verma AK, Khanna G, Roy M, Singh A, George A, Singh A, Nalwa A, Ramteke P, Sreenivas V, Ahuja V, Datta Gupta S, Makharia GK. Light microscopic and computer-assisted image analysis based classifications for assessment of intestinal mucosal biopsies in adults, 58th Annual Conference of Indian Society of Gastroenterology (ISGCON 2017), 14-17 December 2017, Mayfair Convention Centre, Bhubaneswar
4. Jassim M, Agarwal S, Singh AP, Dhar A, Bhimaniya S. Advanced colorectal carcinoma of adolescent with testicular metastasis, VIth Annual Conference of Delhi Chapter of Indian Academy of Cytologists, 16 September 2017, Dr RML Hospital, New Delhi
5. Yadav D, Agarwal S, Yadav R, Barnard A, Sharma A, Malik E, Kandasamy D, Thakar A. Synovial sarcoma masquerading as medullary thyroid carcinoma, VIth Annual Conference of Delhi Chapter of Indian Academy of Cytologists, 16 September 2017, Dr RML Hospital, New Delhi
6. Supraja KS, Jain D, Agarwal S, Khanna G. A rare case report of salivary gland duct carcinoma with androgen receptor positivity, VIth Annual Conference of Delhi Chapter of Indian Academy of Cytologists, 16 September 2017, Dr RML Hospital, New Delhi
7. Phulware R, Agarwal S, Jain D, Mathur SR, Iyer VK. Cytology features of a solid variant of papillary thyroid carcinoma: A study of 6 cases. VIth Annual Conference of Delhi Chapter of Indian Academy of Cytologists, 16 September 2017, Dr RML Hospital, New Delhi
8. Kocheri N, Agarwal S, Sharma MC, Bal CS, Tandon N. Utility of IHC in detecting BRAF V600E mutation in papillary thyroid carcinoma, 47th Annual Conference of Endocrine Society of India (ESICON 2017), 13-15 October 2017, Thiruvananthapuram, Kerala, India
9. Dharmshaktu P, Gupta Y, Agarwal S. Pure testosterone secreting atypical adrenal mass causing long-standing virilisation, 47th Annual Conference of Endocrine Society of India (ESICON 2017), 13-15 October 2017, Thiruvananthapuram, Kerala, India
10. Mahajan S, Agarwal S, Kocheri N, Jain D, Mathur SR, Iyer VK. Cytological features of "noninvasive follicular thyroid neoplasm with papillary-like nuclear features" versus invasive follicular variant of papillary thyroid carcinoma: A study of 50 cases, CYTOCON 2017, 10-13 November 2017, NEIGRIHMS, Shillong
11. Agarwal S, Mahajan S, Nakra T, Ray R, Yadav R, Chumber S. Cytological features of dysmorphogenetic goitre: A diagnostic pitfall, CYTOCON 2017, 10-13 November 2017, NEIGRIHMS, Shillong
12. Kocheri N, Agarwal S, Phulware RH, Kandasamy D, Mahapatra M. A rare case report of Aspergillus thyroiditis: In an immunocompromised young adult, CYTOCON 2017, 10-13 November 2017, NEIGRIHMS, Shillong
13. Singh G, Kumar H, Barwad A, Sinha A, Hari P, Bagga A, Agarwal SK, Dinda AK. Glomerular PLA2R1 and THSD7A staining in Pediatric Membranous Nephropathy, 29th Annual Conference of Indian Society of Pediatric Nephrology, 14-15 October 2017, Manesar, Haryana
14. Vincent V, Thakkar H, Aggarwal S, Mridha AR, Ramakrishnan L, Singh A. Obesity and insulin resistance is associated with lower ATP binding cassette transporter A1 (ABCA1) expression in visceral adipose tissue, 85th European Atherosclerosis Society Congress, 23-26 April 2017, Prague, Czech Republic
15. Panda AK, Mallick S, Ramteke PP, Yadav R. Cytology of Castleman's Disease hyaline-vascular type masquering as Hodgkin's lymphoma, VIth Annual Conference of Delhi Chapter of Indian Academy of Cytologist, 16 September 2017, PGIMER, Dr RML Hospital, New Delhi

16. Batool S, Khanna G, Ramteke P, Mallick S, Jain D, Mathur S, Iyer VK. Primary B-cell lymphoblastic lymphoma of the parotid gland: An unusual presentation, VIth Annual Conference of Delhi Chapter of Indian Academy of Cytologist, 16 September 2017, PGIMER, Dr RML Hospital, New Delhi
17. Dutta R, Lone MR, Srivastava T, Nambarajan A, Ramteke P, Das CK, Gogia A, Sharma MC, Mallick S. Expression of Epigenetic Regulator (Ezh2) in Primary Diffuse Large B Cell Lymphoma and Correlation With P16, P53 Expression, 58th Annual Conference of the Indian Society of Hematology and Blood Transfusion, HEMATOCON 2017, 5 November 2017, Guwahati, Assam
18. Dutta R, Gupta VG, Gogia A, Ramteke P, Sharma MC, Mallick S. Rare epstein barr virus—Related lymphoproliferative lesion of skin: A case report, 58th Annual Conference of the Indian Society of Hematology and Blood Transfusion, HEMATOCON 2017, 5 November 2017, Guwahati, Assam
19. Gupta B, Nakra T, Ramteke P, Yadav R, Shalimar, Dash NR, Das P. Primary hepatic PECOMA mimicking hepatocellular carcinoma: An extremely rare experience, 4th International Liver Symposium (ILS), 6 April 2018, Gurgaon, Delhi NCR
20. Dutta R, Gupta VG, Gogia A, Ramteke P, Sharma MC, Mallick S. Rare epstein barr virus-related lymphoproliferative lesion of skin: A case report, 58th Annual Conference of Indian Society of Hematology and Blood Transfusion, 5 November 2017, Guwahati
21. Dutta R, Lone MR, Srivastava T, Nambarajan A, Ramteke P, Das CK, Gogia A, Sharma MC, Mallick S. Expression of epigenetic regulator (ezh2) in primary diffuse large b cell lymphoma and correlation with p16, p53 expression, 58th Annual Conference of Indian Society of Hematology and Blood Transfusion, 5 November 2017, Guwahati
22. Deswal S, Malik R, Makharia GK, Singh A, Singh P, Bhatnagar S, Pandey T, Saini S, Das P, Yadav R. Validation of an indigenous point of care test for celiac disease among children and adults in a tertiary hospital in North India, ICDS, 8-10 September 2017, Delhi
23. Mahajan S, Vallonthaiel AG, Yadav R, Jain D, Mathur SR, Iyer VK. Mucinous adenocarcinoma of gall bladder: Subcategorization on FNAC, Delhi IAC Annual Conference, 16 September 2017, Delhi
24. Nakra T, Yadav R, Roy M, Khanna G, Agarwala S, Jain D, Mathur SR, Iyer VK. Fine needle aspiration cytology in hepatoblastoma: A cytomorphological study with histological correlation and role of SALL4: Is there a diagnostic and prognostic implication? CYTOCON 2017, 10-13 November 2017, Shillong
25. Yadav R, Ramteke P, Vallonthaiel AG, Jain D, Mathur SR, Iyer VK. Fine needle aspiration cytology of salivary duct carcinoma: A morphological study of seven cases, CYTOCON 2017, 10-13 November 2017, Shillong
26. Panda AK, Nakra T, Dadwal R, Nayyar R, Rastogi S, Kaushal S, Kakkar A, Sharma MC, Yadav R. Primary urethral small cell melanoma with neuroendocrine differentiation: A diagnostic dilemma, DAPCON 2018, 25 February 2018, Delhi
27. Oberoi AS, Kataria K, Parshad R, Yadav R, Goyal A. Adrenal schwannoma: A rare Incidentaloma, ASAES 2018, 8-10 March 2018, Delhi
28. Kaur K, Sarkar C, Suri V. H3K27M mutations in midline gliomas from children and young adults, 2nd Annual Conference of Neuropathology Society of India, 21-23 April 2017, NIMHANS, Bengaluru
29. Kumari K, Sharma MC. Diagnostic revision of grade II and grade II astrocytomas using molecular markers—A study of 138 cases using WHO 2016 classification, 2nd Annual Conference of Neuropathology Society of India, 21-23 April 2017, NIMHANS, Bengaluru
30. Kaur K*, Sarkar C, Suri V*. Young scientist award, Association of IDH1, p53 and ATRX mutations with H3K27M mutations in midline gliomas, 14th Meeting of the Asian Society for Neuro-Oncology, 29-31 October 2017, Osaka, Japan
31. Kumari K, Sarkar C, Suri V, Sharma MC. Integrated diagnostic approach to grade II/III diffuse astrocytoma—A study of 180 cases using WHO 2016 classification, 5th Quadrennial Meeting of the World Federation of Neuro-Oncology Societies (WFNOS), 4-7 May 2017, Zurich, Switzerland
32. Kumari K*, Sharma MC*. Best Paper Award, mTOR Pathway Activation in Focal Cortical Dysplasia”, 66th Annual Conference of the Neurological Society of India”, NSICON 2017, 30 November-3 December 2017, Nagpur
33. Kumari K*, Sharma MC*. Best Paper Award, Role of mTOR pathway signalling in the pathogenesis of subependymal giant cell astrocytoma—A study of 28 cases, 66th Annual Conference of the Neurological Society of India, NSICON 2017, 30 November-3 December 2017, Nagpur
34. Kaur N*, Krause H. Neuro-Oncology Award, Diffuse midline gliomas: A clinicopathological and molecular genetic study, 66th Annual Conference of the Neurological Society of India, NSICON 2017, 30 November-3 December 2017, Nagpur
35. Kaur K*, Sarkar C, Suri V*. Runner-up in Best Paper Award, Nanostring Assay vs Immunohistochemistry: A comparative study for molecular subgrouping of medulloblastomas, 3rd Annual Conference of Neuropathological Society of India (NPSICON-2018), 17-18 February 2018, Sahara City, Lucknow

36. Nambirajan A, Khanna G, Suri V, Sharma R, Aggarwal D, Garg A, Sharma MC, Sarkar C. Rosette-forming glioneuronal tumor: Report of two cases including one occurring in the tectal plate, 3rd Annual Conference of Neuropathological Society of India (NPSICON-2018), 17-18 February 2018, Sahara City, Lucknow
37. Gurung N*, Sharma MC. Immunohistochemical and molecular analysis of CNS Primitive Neuroectodermal Tumors (CNS-PNETs) in light of the updated 2016 WHO classification, Delhi Chapter IAPM, 25 February 2018, VMMC and SJH, New Delhi
38. Jain D, Singh V, Kumar V, Kumar S, Malik P, Faruq M. KRAS and EGFR mutation coexistence in pulmonary adenocarcinomas, PPS 2017 Biennial Meeting, 13-16 June 2017, Gleacher Center, Chicago, USA
39. Jain D, Guleria P. The morphological spectrum of thymomas: A review of 145 cases using WHO 2015 classification, PPS 2017 Biennial Meeting, 13-16 June 2017, Gleacher Center, Chicago, USA
40. Jain D, Madan K. A common tumor with uncommon histology: Tracheal chondro-osseous inflammatory myofibroblastic tumor, PPS 2017 Biennial Meeting, 13-16 June 2017, Gleacher Center, Chicago, USA
41. Hemlata, Kaushal S, Phulware R, Mathur SR, Iyer VK. The *morphological spectrum of primary and metastatic renal cell carcinoma in cytology smears, DC-IAC, 25 September 2017, RML Hospital, New Delhi
42. Hemlata, Kaushal S, Mathur SR, Iyer VK. Cytomorphology of small cell neuroendocrine carcinoma in urine specimens: A report of two cases, Annual Conference of Indian Academy of Cytologists, 5 November 2017, NEGRIMS, Shillong
43. Priyadarshini S, Pirabu S, Kaushal S, Sharma MC, Singh CA, Kakkar A. Sinonasal carcinoid (well-differentiated neuroendocrine carcinoma): A frequently misdiagnosed entity, DC-IAPM, 25 February 2017, VMMC, New Delhi
44. Panda AK, Nakra T, Dhadhwal R, Nayyar R, Rastogi S, Sharma MC, Kaushal S, Kakkar A, Yadav R. Primary urethral small cell melanoma with neuroendocrine differentiation: A diagnostic dilemma, DC-IAPM, 25 February 2017, VMMC, New Delhi
45. Hemlata, Mahajan S, Kaushal S, Mathur SR, Singh G, Sharma MC. Intranodal palisaded myofibroblastoma (Intranodal haemorrhagic spindle cell tumour with amianthoid fibres): Report of two cases of a rare entity, Oncolpathology Update, 8 March 2018, ESI Hospital, Faridabad
46. Supraja KS, Phulware R, Kaushal S, Ramteke R, Mallick SR, Sharma MC, Chumber S. Lymphomatoid granulomatosis of the back—Unusual presentation of a rare disorder, Oncolpathology Update, 8 March 2018, ESI Hospital, Faridabad
47. Bibars W, Williamson S, Hes O, Trpkov K, Montironi R, Aron M, Kaushal S, Ro JY, Smith S, Roux J, Gandhi J, Amin MB. Diagnostic challenges posed by lesions of adrenal origin in the assessment of renal tumor histopathology, USCAP, 19 March 2017, Convention Centre, Vancouver BC, Canada
48. Mathur SR, Phulware R, Bakshi S, Mallick SR, Jain D, Yadav R, Kaushal S, Agarwal S, Iyer VK. Cytomorphological and clinical spectrum of langerhans cell histiocytosis: A study of forty-seven cases, USCAP, 19 March 2017, Convention Centre, Vancouver BC, Canada

RESEARCH

Funded projects

Ongoing

1. Role of viral protease and host endogenous protease in Hepatitis E Virus (HEV) life cycle, S.K. Panda, DST, 3 years, 2015-2018, Rs 58.63 lakhs
2. Screening of miRNA/long non-coding RNA as a potential prognostic/diagnostic biomarker for Hepatitis E, S.K. Panda, DBT, 3 years, 2016-2019, Rs 60.14 lakhs
3. J.C. Bose Fellowship, S.K. Panda, DST, Till age of 68 years, 2017-2022 or up to the age of 68 years, Rs 95 lakhs
4. Unravelling glioma development and progression through whole exome sequencing, Chitra Sarkar, DBT, 4 years (1-year extension granted), 2013-2017, Rs 99 lakhs (approx.)
5. A multi-centric study to develop comprehensive molecular genetic panels for glioblastoma personalized therapy, Chitra Sarkar, DBT, 5 years, 2016-2021, Rs 50 lakhs (approx.)
6. J.C. Bose Research Fellowship, Chitra Sarkar, DST, 5 years, 2016-2020, Rs 15 lakhs per year
7. Unravelling the role of miRNA clusters (C14MC and C19MC) in oligodendrogliomas: Study using the genetic and functional approach with clinicopathological correlations, Chitra Sarkar, ICMR, 3 years, 2017-2020, Rs 10 lakhs per year
8. Hepatic Cytokine expression, hepatocyte proliferation, progenitor cell activation in chronic Hepatitis, S. Datta Gupta, AIIMS, 2 years, 2013-2015, Rs 5 lakhs

9. Design and Development of E-courses in Health and Medicine Sciences for Virtual Teaching, Manoj K Singh, Centre for Development of Advanced Computer (C-DAC), 5 years, 2013-2018, Rs 118.17 lakhs
10. The Virtual Skills Laboratory, Manoj K Singh, DEITY, 4 years, 2014-2018, Rs 262.5 lakhs
11. Development of Cost-Effective Nanoparticle-based Drug Delivery System of Amphotericin B for treatment against Visceral Leishmaniasis: Phase I Preclinical Study, A.K. Dinda, DBT, 2 years, 2015-2017, Rs 89.65 lakhs
12. Development of novel nanoparticle-based hepatitis B (HBV) vaccine with enhanced antigen presentation and prolonged immunity: Phase I, Preclinical Study, A.K. Dinda, DBT, 2 years, 2016-2018, Rs 92.60 lakhs
13. Development of nanoparticulate antitubercular drug delivery system for macrophage receptor specific targeting through oral and respiratory route: Phase I Study, A.K. Dinda, ICMR, 3 years, 2015-2017, Rs 49.73 lakhs
14. Establishment of rapid and economical methods for molecular subgrouping and risk stratification of medulloblastomas for routine clinical practice in developing countries, Vaishali Suri, AIIMS, 2 years, 2016-2018, Rs 10 lakhs
15. Unravelling the functional relevance of Snail paralogs in the pathogenesis of pediatric ependymoma, M.C. Sharma, DST, 3 years, 2017-2020, Rs 42 lakhs
16. Detection and comparison of EGFR mutations in matched tumor tissues and sera of patients with pulmonary adenocarcinoma, Deepali Jain, DBT, 3 years, 2015-2018, Rs 25 lakhs
17. A comprehensive analysis of mammalian Target of Rapamycin (mTOR) and Mitogen-Activated Protein (MAP) Kinase signalling pathways in non-small cell lung carcinoma, Deepali Jain, Lady Tata Memorial Trust, 3 years, 2015-2018, Rs 15 lakhs
18. Correlation of immunologic milieu and PD-L1 in non-small cell lung carcinoma, Deepali Jain, AIIMS, New Delhi, 2 years, 2018-2020, Rs 8 lakhs
19. Investigation into the utility of Fibroblast Specific Protein 1 (Fsp1) as a surrogate marker for podocyte effacement in renal biopsies, Geetika Singh, AIIMS, 1 year, 2016-2017, Rs 4.98 lakhs
20. Analysis of NPHS1, NPHS2, WT1, ACTN4 and INF2 in non-syndromic focal segmental glomerulosclerosis, Adarsh Barwad, AIIMS, 2 years, 2016-2018, Rs 10 lakhs
21. Molecular characterization of microscopic preneoplastic lesions of colon-exploring the prospect of future cancer screening, P Das, DBT, India, 3 years, 2015-2019, Rs 25 lakhs
22. Identification of Comparative Genetic and Epigenetic Alterations of Various Proto-Oncogenes and Tumor Suppressor Genes, Implicated in Development of Aberrant Crypt Foci of Proximal Versus Distal Colon, Vandana Vadola, DST under Women Scientist Scheme, 3 years, 2017-2020, Rs 27 lakhs
23. Prognostic relevance of TP53 mutation in advanced soft tissue sarcoma, Asit Ranjan Mridha, AIIMS, 2 years, 2018-2020, Rs 10 lakhs
24. To evaluate the role of cmyc, bcl2, bcl6 and Epstein Barr virus on survival in patients with refractory/relapsed primary diffuse large B cell lymphoma: An ambispective study, Saumyaranjan Mallick, DST, 3 years, 2016-2019, Rs 30 lakhs
25. To evaluate the role of microenvironment clonality assay and 9p24 alteration in diagnosis and prognostication of refractory Hodgkin's lymphoma, Saumyaranjan Mallick, DST, 3 years, 2017-2020, Rs 35 lakhs
26. Cellular and molecular heterogeneity of normal superior and inferior parathyroid glands at different ages, Shipra Agarwal, AIIMS, 2 years, 2017-2019, Rs 9.15 lakhs
27. Analysis of circulating DNA for BRAF(T1799A) mutation as a futuristic non-invasive tool for diagnosis of papillary thyroid cancer, Shipra Agarwal, ICMR, 3 years, 2018-2020, Rs 8.12 lakhs
28. Study of miR200c and EMT markers (ZEB1, ZEB2 and Twist) in bladder urothelial carcinoma, Seema Kaushal, AIIMS, 2 years, 2015-2017, Rs 4.8 lakhs per year
29. Molecular subtyping of Muscle Invasive Bladder Cancer on the basis of IHC markers, Seema Kaushal, AIIMS, 2 years, 2017-2019, Rs 4.9 lakhs per year
30. Utility of newer immunohistochemistry markers in the proper characterization of small B- cell non-Hodgkin's lymphomas, Prashant Ramteke, AIIMS, 2 years, 2017-2019, Rs 6.5 lakhs
31. Immunophenotypic profile of tumour infiltrating cells of the immune system and expression of PDL1 in triple negative/Her-2 neu positive breast cancer patients and their correlation with response to neoadjuvant chemotherapy, Sandeep R Mathur, DST, 3 years, 2017-2020, Rs 21 lakhs

Completed

1. Nanoparticle-based siRNA delivery for in vivo silencing of the oxidized-LDL receptor (LOX-1) on monocyte/macrophage cells by specific siRNA and its impact on the plasma level of proinflammatory cytokines-a study in an animal model, A.K. Dinda, DBT, 3 years, 2015-2017, Rs 35.66 lakhs

2. Development of nanoparticulate antitubercular drug delivery system for macrophage receptor specific targeting through oral and respiratory route: Phase I Study, A.K. Dinda, ICMR, 3 years, 2015-2017, Rs 49.73 lakhs
3. Demonstration of co-localization of IgA and IgG anti-tissue transglutaminase 2, can diagnose intestinal and extra-intestinal celiac disease, as effectively as the serological diagnostic modalities, P Das, AIIMS, 2 years, 2015-2017, Rs 10 lakhs
4. Analysis of PD-L1 Expression in Non-Small Cell Carcinoma: Implication for Optional Immune Targeted Therapy, Deepali Jain, AIIMS, 2 years, 2015-2017, Rs 8 lakhs
5. Identification of EGFR mutation, ALK gene rearrangement, KRAS mutation, and FGFR1 mutation in molecular subtyping of lung cancer, Deepali Jain, ICMR, 2 years, 2015-2017, Rs 20 lakhs
6. Establishment of rapid and economical methods for molecular subgrouping and risk stratification of medulloblastomas for routine clinical practice in developing countries, Vaishali Suri, AIIMS, 2 years, 2016-2018, Rs 10 lakhs

Departmental projects

Ongoing

1. Analysis of NPHS1, NPHS2, WT1, ACTN4 and INF2 in non-syndromic focal segmental glomerulosclerosis
2. Assessment of depth of invasion in oral cavity squamous cell carcinoma (T1-T3) by clinical palpation and radiology and their correlation to a histopathological depth of invasion
3. Study of p53 immunoeexpression and Ki67 LI in patients with advanced soft tissue sarcoma
4. IgA Nephropathy classification according to MEST scoring using deep learning
5. Development of a targeted nano drug delivery system for rheumatoid arthritis
6. Targeted nanoparticle-based drug delivery system for the treatment of Kalazar
7. Development of low cost functionalized biocompatible polymeric wound dressing
8. Study of PlaR-2 immunohistochemistry on renal biopsy of membranous glomerulonephritis
9. Study of iron homeostasis in chronic kidney disease
10. Assessment of the role of early dynamic PET/CT with 18F-Fluorocholine in the differentiation of parathyroid lesions and lymph nodes in patients with primary hyperparathyroidism
11. Analysis of selected transcription factors and receptors in primary hyperparathyroidism
12. Comparison of 4D CT, 4D MRI and Fluorocholine PET in the Localization of Parathyroid Lesions in Patients with Primary Hyperparathyroidism (HPT)
13. Role of BRAF V600E and TERT promoter mutations in predicting the aggressiveness of papillary thyroid carcinoma
14. Role of 18F choline PET-CT in the localization of hyperfunctioning parathyroid tissue in patients with primary hyperparathyroidism
15. Expression of Her2 neu stain in gallbladder carcinoma and its clinical impact
16. Expression of PD1, PD-L1 and CD8 cell markers in gallbladder carcinoma and their clinical impact
17. An immunohistochemical and ultrastructural study of glomerular capillary endothelial injury in cellular rejection
18. Study of galactose-deficient IgA1 in glomerular diseases
19. Study of p53 immunoeexpression and Ki67 LI in patients with advanced soft tissue sarcoma
20. Histopathological and electron microscopic changes in ligamentum flavum in patients with degenerative lumbar canal stenosis as compared to young patients with disc herniation
21. Clinicopathological Profile of Primary Double/Triple Expressor Lymphoma
22. Electron Microscopic Study of Ciliary Abnormality in Clinically Suspected Cases of Primary Ciliary Dyskinesia
23. Fibrillin 1 gene mutation and TGF beta in TAAA of non-marfanoid individuals
24. Detection of streptococcal bacterial DNA with polymerase chain reaction in the excised valvular tissue of RHD patients Nanostring technology for molecular subgrouping of medulloblastomas
25. Molecular profiling of IDH negative gliomas
26. EMT in meningiomas and its correlation with WNT/B catenin pathway
27. Histopathology and molecular genetic alterations in epithelioid glioblastoma
28. Diffuse midline gliomas: A clinicopathological and molecular genetic study
29. Study of chromosome 22q alterations and NF2 signalling pathways in ependymomas
30. EZH2-Wnt expression and correlation with tumor invasiveness, stem cell phenotype and progression in pituitary adenomas
31. Immunohistochemical characterization and HPV association of sinonasal carcinomas

32. Programmed Death Ligand-1 (PDL-1) and Its Association with T Regulatory Cells in Non-small Cell Lung Carcinoma Use of Cytology Specimens
33. Utility of urinary circulating cell-free DNA in EGFR mutation testing of pulmonary adenocarcinoma
34. Analysis of EGFR downstream pathways in NSCLC and elucidating mechanisms for TKI resistance
35. Study of epithelial-mesenchymal transition markers in primary bladder urothelial carcinoma
36. Subtyping of primary muscle-invasive bladder carcinoma into basal and luminal types on the basis of immunohistochemical markers

Completed

1. Stratification of breast cancer in young females by molecular subtypes
2. Study of radio enhancing capability of gold nanoparticle
3. Quality of life and cost-effectiveness of care in patients undergoing total thyroidectomy (with radio-ablation of residual thyroid) for localized differentiated thyroid cancer: A randomized controlled trial
4. A pilot study on daycare thyroidectomy surgery
5. Helicobacter pylori genotyping and genomic diversity assessment in gastric biopsies from residents of high altitude (Ladakh) and lower plains of North India
6. In Vivo co-localization of IgA and anti-tissue transglutaminase antibodies in formalin fixed paraffin embedded tissues of extra-intestinal celiac disease by dual-immunohistochemical and dual confocal immunofluorescence techniques
7. Gene expression analysis of oncogene transcript in Aberrant Crypt foci, in comparison to the normal colonic mucosa and colorectal carcinoma, from formalin fixed paraffin embedded tissue samples
8. Methylation analysis of tumor suppressor genes in Aberrant Crypt foci, in comparison to the normal colonic mucosa and colorectal carcinoma
9. SPARC Expression in Desmoplastic and Non-Desmoplastic Pancreatic and Cholangiocarcinoma
10. Expression of RRM1 and ERCC1 and their prognostic significance in pancreatic adenocarcinoma and cholangiocarcinoma
11. Membranous Nephropathy: A study of immunofluorescence, electron microscopy and PLA2R profile with clinical correlation
12. Study of CXCR4, SDF-1, CXCR7 antigens, its correlation with p53 immunopositivity and Ki67 Labeling Index (LI) in Ewing sarcoma and its prognostic implication
13. Molecular basis of estrogenism in endometriosis
14. To evaluate the association between immunohistochemical expression of cell cycle regulatory molecule (p53, rb, p16, p14) and epigenetic regulator (ezh2) in primary diffuse large b cell lymphoma
15. Expression of Matrix Metalloproteinase-2, Matrix Metalloproteinase-9, Tissue Inhibitor Metalloproteinase-1, Tissue Inhibitor Metalloproteinase-2, Collagen I and IV Expression in Thoracic Aortic Aneurysms
16. A comparative study of efficacy and composition of various cell populations of the extracted hair follicle outer root sheath cell suspension prepared using a single enzyme (trypsin) and multiple enzymes (trypsin, collagenase and dispase) for transplantation in vitiligo
17. Establishment of rapid and economical methods for molecular subgrouping and risk stratification of medulloblastomas for routine clinical practice in India study
18. Immunohistochemical and molecular analysis of CNS Primitive Neuroectodermal Tumors (CNS-PNETs)
19. Epithelial to mesenchymal transition in ependymoma

Collaborative projects

Ongoing

1. Concurrent versus sequential neoadjuvant chemoradiotherapy followed by surgery in patients with locally advanced, resectable carcinoma gallbladder: A pilot study, GI Surgery, Medical Oncology, Radiation Oncology, Pathology
2. Identification of unique morphologically identifiable preneoplastic lesions in colon mucosa during colorectal carcinogenesis, Pathology, GI Surgery, Surgery
3. Artificial skin (Bio-inspired bi-layer polymeric hybrid scaffold) for burn injuries in trauma care (IMPRINT Project) Center for Biomedical Engineering, IIT, Delhi
4. Sculpturing corneal constructs using micropatterned surface and decellularized cornea, Textile Engineering, IIT Delhi, Stem Cell Facility, R.P. Center

5. Production of a crucial therapeutic protein for trauma and accident care in Escherichia Coli system (IMPRINT Project), The School of Biological Sciences at IIT Delhi
6. India millennium alliance project: A rapidly deployable device for wound care, ExCel Matrix Biological Devices Pvt Ltd, Hyderabad
7. Association of various genotypes of M Tuberculosis with clinical, pathological manifestation and disease outcome of Post-Primary Tuberculosis, Laboratory Medicine, Medicine, Pathology and LRS Institute of TB and Respiratory Diseases
8. Biomarker for assessment of villous abnormalities in patients with celiac disease and other enteropathies, Gastroenterology and HNU, Pathology
9. Understanding the pathophysiology of endometriosis by protein profiling and correlation with stress, Physiology, Obstetrics and Gynecology, Reproductive Biology, Biostatistics, Pathology
10. Exploration of origins of Juvenile Nasal Angiofibroma (JNA) by histological evaluation of fetal development of "Pterygopalatine fossa-Pterygoid canal complex" and assessment of first branchial arch remnant vidian artery in cases with JNA, ENT, Anatomy Radiodiagnosis, Pathology, Obstetrics and Gynecology
11. The ratio of preoperative and postoperative serum bilirubin and alkaline phosphatase as simple markers to predict early outcome Post-Kasai portoenterostomy, Pediatric Surgery, Pathology
12. Study of Clinical and Histopathological Features of Acute on Chronic Hepatitis, Gastroenterology and HNU, Pathology
13. Histopathology of Non-cirrhotic Portal Fibrosis (NCPF) and Extrahepatic Portal Venous Obstruction (EHPVO), Pathology, Gastroenterology and HNU, GI Surgery
14. Comparison of Histological and Fibroscan scoring of liver fibrosis, Gastroenterology and HNU, Pathology
15. Histopathology of celiac disease in symptomatic and asymptomatic cases and family members, Gastroenterology and HNU and Pathology
16. Impact of Laparoscopic Sleeve Gastrectomy (Bariatric Surgery) on Non-Alcoholic Fatty Liver Disease (NAFLD) in morbid obesity, Surgery, Gastroenterology and HNU, Pathology
17. Predictive biomarkers for response to neoadjuvantchemoradiotherapy in locally advanced rectal cancer, Radiation Oncology, Surgical Oncology, Pathology
18. Correlation of metabonomics and enzyme activity profile of intestinal mucosa in celiac disease using NMR spectroscopy and immunohistochemistry, Nuclear Magnetic Resonance, Gastroenterology and HNU, Pathology
19. Liver biopsy in Acute and Chronic liver disease, Gastroenterology and HNU, Pathology
20. Characterizing the causes of non-motility after colectomy for Hirschsprung's Disease, Pediatric Surgery, Pathology
21. A study to investigate multi-system involvement in patients with celiac disease using in vitro NMR spectroscopy, Nuclear Magnetic Resonance, Gastroenterology and HNU, Pathology
22. Molecular and Biochemical Characterization of Hepatic Glycogenesis Type Ia and III, Genetics, Pediatrics, Nuclear Magnetic Resonance and Pathology
23. Molecular expression of tight junctions and disruption of mucosal epithelial cell polarity in the progression of Gastric cancer, Laboratory Medicine, Gastrointestinal Surgery, Gastroenterology and HNU, Pathology
24. MR guided biopsy in the detection of prostate cancer, Nuclear Magnetic Resonance, Urology, Radiodiagnosis IRCH, Pathology
25. Metabolomics study of Prostate Cancer by using NMR Spectroscopy, Nuclear Magnetic Resonance, Urology, Radiodiagnosis IRCH, Pathology
26. Clinical, Radiological and Histopathological involvement of the mandible in oral squamous cell carcinoma, ENT, Radiodiagnosis, Pathology
27. The modulation of insulin resistance and HDL quality by adipose tissue ABCA1 and metabolic status, Biochemistry
28. A phase III open-label randomized trial of lenalidomide plus rituximab vs Bendamustine plus rituximab in Follicular Lymphoma, Medical Oncology, DR B.R.A. Institute Rotary Cancer Hospital, AIIMS, New Delhi
29. Prevalence of Circulating Tumour Cells (CTC) in patients with periampullary carcinoma and its correlation with recurrence-free and overall survival, Department of GI Surgery and Liver Transplant, AIIMS, New Delhi
30. Detection of streptococcal bacterial DNA with polymerase chain reaction in the excised valvular tissue of RHD patients, Cardiology, AIIMS
31. Finding the correlation of Toll-Like Receptors (TLRs) with inflammation in patients with chronic heart failure, Cardiology, Safdarjung Hospital
32. Study of cardiac markers, gross findings and histopathological changes in the heart in cases of suspected cardiac death, Forensic Medicine, AIIMS

33. Comparative evaluation of microRNA profiling and cytokine profiling analysis in patients with pulmonary sarcoidosis and mediastinal tuberculosis, Pulmonary Medicine, AIIMS
34. Development of a new formulation and packaging for reducing adverse effects and injection pain of mycobacterium vaccine and its clinical trial in recalcitrant anogenital and extra-genital (common) warts, Dermatology, AIIMS
35. Autologous non-cultured dermal cell suspension transplantation in the treatment of facial volume loss, Dermatology, AIIMS
36. Study of sesamol in bleomycin-induced pulmonary toxicity in rat, Pharmacology, AIIMS
37. Exploring the phenotypic and functional role of $\gamma\delta$ T cell subsets along with Pattern Recognition Receptors (PRRs) in the immunopathogenesis of Pemphigus Vulgaris, Pharmacology, AIIMS
38. Fat gene in gliomas, Department of Biochemistry Clinical Utility of cell-free DNA in intraoperative pleural lavage fluid and plasma for patients with resectable primary pulmonary malignancies, Surgical Oncology
39. Prospective pilot study for evaluating incidence of occult lymph node metastasis in patients of olfactory neuroblastoma
40. Otorhinolaryngology and head and neck surgery
41. Role of HRCT in the diagnosis of apparently idiopathic interstitial lung diseases, Radiodiagnosis
42. Comparison of diagnostic yield using graded suction pressures during EBUS TBNA, Pulmonary Medicine and Sleep Disorders
43. Thymidylate synthetase and folate receptor alpha in lung cancer, Medical Oncology
44. Study of miRNA-182 and miRNA-187 as potential biomarkers in prostate cancer patients and its correlation with serum PSA, Gleason score and staging of prostate cancer, Urology, AIIMS
45. Circulating microRNAs as biomarkers for testicular germ cell tumors: A pilot study, Reproductive Biology, AIIMS
46. Identification of Glucose related protein 78(GRP78) as a biomarker for tumor behaviour in patients of renal cell carcinoma, Urology, AIIMS
47. Human Papillomavirus status in Penile carcinoma in Indian patients: Incidence, type distribution and correlation with clinicopathological staging, Urology, AIIMS
48. Retrospective analysis of testicular germ cell tumours at IRCH, Medical Oncology, AIIMS
49. Evaluation of the anti-urolithiasis activity of herbal extracts in an animal model, National Innovation Foundation, Ahmedabad
50. Genetic study on sertoli cell only syndrome, Reproductive Biology, AIIMS
51. Study of autophagy associated HMGB-1 and its related molecules in Urothelial Carcinoma of Bladder, Biochemistry, AIIMS
52. Phenotypic and molecular characterization of Th17 and Treg cells in renal cell carcinoma, Biochemistry, AIIMS
53. CT texture analysis of renal masses for prediction of histopathology, Radiology, AIIMS
54. Comparison of standard 12 cores systematic TRUS guided biopsy and MRI-fusion biopsy in the detection of prostate cancer—a prospective randomized study, Urology, AIIMS
55. Role of circulating tumour cells and CXCR1 expression in patients with metastatic RCC, Urology, AIIMS
56. Comparison of cold cup versus bipolar biopsy specimens for bladder carcinoma, Urology, AIIMS

Completed

1. Molecular classification of breast cancer using FDG PET CT, MRI and NMR: A pilot study, Surgery
2. Role of sono-elastography in the assessment of uterine pathology, Radiodiagnosis
3. To study the efficacy of nanoformulation of antiepileptic drugs in various animal models of seizure, Pharmacology
4. Role of shear wave elastography and multiparametric MRI in the assessment of endometrial pathology, Radiodiagnosis
5. Reg-4 expression in pancreatic ductal adenocarcinoma can serve as a potential marker both for diagnosis and assessment of prognosis, Gastroenterology, AIIMS, New Delhi
6. Non-immunological biomarkers for assessment of enteropathy in patients with celiac disease, Gastroenterology, AIIMS
7. Clinicopathological features of pediatric non-hodgkin lymphoma, Medical Oncology, DR B.R.A. Institute Rotary Cancer Hospital, AIIMS, New Delhi
8. Standardizing surgical-pathological evaluation of oral squamous cell carcinomas specimens—A prospective study, Surgical Oncology

9. A prospective study to validate the role of integrated positron emission tomography—Computed tomography and endobronchial ultrasound-guided tran-bronchial needle aspiration in the mediastinal staging of non-small cell lung cancer, Surgical Oncology
10. Diagnostic yield of bronchoscopy and bronchoscopic procedures in sputum negative and sputum-scarce patients presenting with fever and miliary shadowing on chest imaging, Medicine
11. Evaluation of Xpert MTB/RIF for diagnosis of tubercular lymphadenopathy, Medicine
12. The utility of EBUS-TBNA as a diagnostic tool in mediastinal lymphadenopathy, Medicine
13. Biomarker for assessment of villous abnormalities in patients with celiac disease and other enteropathies, Gastroenterology, AIIMS
14. Detection of methylation status of tumour suppressor genes by DNA methylation specific PCR array in Aberrant Crypt Foci, Gastroenterology, AIIMS
15. Colocalization of IgA and IgG anti-tissue transglutaminase antibodies in tissues of extra-intestinal celiac disease: A pilot study, Gastroenterology, AIIMS
16. Gene expression analysis of oncogene transcript in Aberrant Crypt Foci in comparison to the normal colonic mucosa and colorectal carcinoma from formalin fixed paraffin embedded tissue samples, Gastroenterology, AIIMS
17. H pylori genotyping and genomic diversity assessment in gastric biopsies from residents of high altitude (Ladhakh) and lower plains of North India, Gastroenterology, AIIMS
18. Detection and quantification of circulating tumour cells in Oral Squamous Cell Carcinoma, ENT

PUBLICATIONS

Journals: 151

Abstract: 1

Chapters in Books: 10

Book: 1

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor S.K. Panda was Chairman, Medical Council CSIR and Advisor BIRAC (DBT).

Professor Chitra Sarkar won the National Women Bioscientist Award (Senior category) of the Department of Biotechnology for the year 2016; Member of Nano Mission Council (NMC) of Department of Science and Technology, Government of India; Member, Apex Committee For North Eastern Region Biotechnology Programmes of Department of Biotechnology; Vice President of the International Society of Neuropathology; Secretary, Neuropathology Society of India; Selection Committee Member for Ranbaxy Awards; Member of the Sectional Committee (Health Sciences) of INSA; Member, Editorial Board of Journal Neuropathology (published from Japan); Member, Assessment Committee for Scientists' Promotions of ICMR; Member of the Governing Body and Scientific Advisory Committee of National Brain Research Centre, Manesar; Member of the Scientific Advisory Committee of Institute of Pathology, New Delhi; Co-chairperson of Human Ethics Committee of National Institute of Immunology, New Delhi; Member of Human Ethics Committee of Dr Ambedkar Centre of Biomedical Research, New Delhi; Member of Task Force of Neurosciences, Department of Biotechnology, Government of India.

Professor S. Datta Gupta continues as fellow of the National Academy of Medical Sciences; Associate Editor of the Indian Journal of Pathology and Microbiology; Member of the Editorial Board of the Indian Journal of Laboratory Physicians, Indian Journal of Dermatopathology and Diagnostic Dermatology and Indian Journal of Chest Diseases.

Professor Manoj K. Singh was external expert in the panel of standing selection committee for recruitment of faculty in the Department of Pathology and Lab Medicine at AIIMS, Bhopal, M.P. on 26 April 2017; Attended meeting with DHS, West Bengal, Calcutta on 30 October 2017; Standing Selection Committee as an expert for APS for the post of Additional Professor and Assistant Professor at PGIMER, Chandigarh on 16 November 2017; Inspection at AIIMS, Patna for starting of Academic Courses (Post Graduate/Post Doctoral) on 18 November 2017; Expert Committee Meeting visit to Sri Balaji Vidyapeeth, Puducherry and its off-campus at Kancheepuram, Tamil Nadu from 14-16 December 2017; Subject expert in Selection Committee for Recruitment against Faculty posts in the Department of Pathology and Lab Medicine, AIIMS, Raipur (Chhattisgarh) on 19 February 2018; Project Planning Meeting on Virtual Teaching Tools for Healthcare and Hygiene in rural areas on 19 March 2018 at Kolkata; Past President, and chaired executive meeting, Annual Meeting of the Dermatopathology of India, 1-3 December 2017, Department of Pathology, Puducherry; Chaired session, Nature Nano—Nano and Material Summit at Goa, 18-19 May 2017, Goa; Treasurer of ISN, attended 2nd Annual Conference of Indian Society of Nanomedicine (Nanobiotech-2017), 6-8 December 2017, Department of Pathology, Trivandrum.

Professor A.K. Dinda received AIIMS award for research excellence for this year for the work on Neoadjuvant and Oral Vaccine Platform; Received International Association of Advanced Materials (IAAM) Medal for the year 2017 due

to notable and outstanding contribution in the field of “New Age Technology and Innovations” at Baltic Conference, Stockholm, Sweden on 9 October 2017.

Professor Sandeep R. Mathur extended appointment as Secretary of the Delhi Chapter of Indian Academy of Cytologists for three years till 2020.

Dr Deepali Jain received 2017 PPS Travel Award by Pulmonary Pathology Society, Chicago, USA, June 2017; Invited as a chairperson: Chaired a session on ILD Pulmonary Pathology Society, Chicago, USA, June 2017; Official Appointment Observer Pathology Committee, International Association for Study of Lung Cancer (IASLC); Invited Scientific Visit University of Mannheim, Germany for discussion of microscopic criteria of diagnosis of Thymic Epithelial Tumours, 9-15 September 2017.

Dr Asit Ranjan Mridha received HRD fellowship—Long terms fellow in Foreign Institute for Health Research, Department of Health Research, Ministry of Health and Family Welfare, Government of India, at Wake Forest Baptist Medical Center, Cancer Biology Department (Dr Gagan Deep’s Lab, Hanes 3035); Reviewer of scientific proposals of ICMR.

Dr Prasenjit Das elected as member, The United States and Canadian Academy of Pathologists (USCAP); Certificate of Commendation: AIIMS Research Excellence Award 2017, Research Section, AIIMS, New Delhi; Invited faculty to chair the Oral Paper Session on GI Pathology, APCON 2017, 1-4 December 2017, GMC, Bhopal.

Resident Awards

- Col D. B. Nayar Memorial Award: Dr Aruna Nambirajan, AIIMS, New Delhi—“Use of exfoliative specimens and fine needle aspirate smears for mutation testing in lung adenocarcinoma”, Cytocon 2017, Shillong
- Kavneet Kaur got Young Scientists’ Award for a study entitled “Association of IDH1, p53 and ATRX mutations with H3K27M mutations in midline gliomas” at the 14th Meeting of the Asian Society for Neuro-Oncology held at Osaka, Japan from 29-31 October 2017
- Kalpana Kumari got NSI award for best paper in Epilepsy entitled “mTOR Pathway Activation in Focal Cortical Dysplasia” at 66th Annual Conference of the Neurological Society of India, NSICON 2017, 30 November-3 December 2017, held at Nagpur
- Kalpana Kumari got Neuro Allied Sciences Award for best paper published in Neurology India, 2016 entitled “Role of mTOR pathway signalling in the pathogenesis of subependymal giant cell astrocytoma—A study of 28 cases” at 66th Annual Conference of Neurological Society of India”, NSICON 2017, 30 November-3 December 2017, held at Nagpur
- Kavneet Kaur got Herbert Krause Neuro-Oncology Award for a study entitled “Diffuse midline gliomas: A clinicopathological and molecular genetic study” at the Annual Conference of Neurological Society of India held at Nagpur, India, 30 November-3 December 2017
- Niteeka Gurung got Dr V Ramalingaswamy Award for best oral presentation for study entitled “Immunohistochemical and molecular analysis of CNS Primitive Neuroectodermal Tumors (CNS-PNETs) in light of the updated 2016 WHO classification” at the Annual Conference of the Delhi Chapter of IAPM, held at VMMC and Safdarjung Hospital, New Delhi, 25 February 2018
- Dr Diksha Yadav got the “Best poster award” DC-IAC held at RML Hospital, Delhi on 30 September 2017
- Dr Hemlata was awarded the best poster award at DC-IAC held at RML Hospital, Delhi on 30 September 2017
- Dr Nadeem K, pursuing MD thesis under the guidance of Dr Shipra Agarwal got the ICMR Medical Postgraduate Award (including financial assistance of Rs 50,000/-) at national level for his thesis entitled “role of braf v600e and tert promoter mutations in predicting the aggressiveness of papillary thyroid carcinoma”.

VISITING SCIENTISTS

- Dr Charles Eberhart, Director, Neuropathology and Ophthalmic Pathology, Johns Hopkins University School of Medicine, USA visited the Department of Pathology, AIIMS, New Delhi on 15 February 2018
 - Dr Eberhart delivered a lecture on “Pathology and Genetics of Optic nerve gliomas”
 - Slide seminar on pediatric gliomas and embryonal tumors for the residents and faculty of the department
- Dr Ichizo Nishino, Director, Department of Neuromuscular Research, National Institute of Neuroscience (NIN), National Center of Neurology and Psychiatry (NCNP), Tokyo, Japan visited the Department of Pathology, AIIMS, New Delhi on 15 February 2018
 - Dr Nishino delivered a lecture on “Inflammatory myopathies”
 - Slide seminar on Neuromuscular diseases for the residents and faculty of the department

- Dr Arie Perry, Professor of Pathology and Neurological Surgery and Director of Neuropathology and Neuropathology Fellowship Program, University of California, USA, conducted a workshop on Molecular Neuro-oncology as part of ISNOCON 2018 pre-conference workshop
 - Delivered talk on “Update of pathology and genetics in meningiomas”
- Dr HK Ng conducted a workshop on Molecular Neuro-oncology as part of ISNOCON 2018 Pre-Conference Workshop
 - Delivered talk on “Adult gliomas—Can we look beyond WHO?”
- Dr Ming Tsao, Professor of Laboratory Medicine and Pathobiology, University of Toronto, Toronto, Canada
- Dr Chris Larsen, Consultant Neuropathologist, Arkana Labs, Arkansas, USA
- Dr Sree G Sharma, Consultant Nephropathologist, Arkana Labs, Arkansas, USA

PATIENT CARE

Laboratory services

Surgical Pathology Laboratory

Specimens processed	55,200	Special stains	36,500
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Cytopathology Laboratory

Total specimens	26,056	FNAC (out patient)	8872
Exfoliatives routine	11,184	Immunocytochemistry	912
Cervical smears (PAP smears)	6000		
Autopsies performed	22	Electron microscopy	1573

Immunohistochemistry Laboratory

Diagnostic	44,064	Research	812
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Neuropathology Laboratory

Total Specimen	2662		
Frozen Section	333	Total muscle received	383

Immunohistochemistry

Routine IHC	7202	Research IHC	796
Muscle IHC	2458		
Muscle Enzyme-histochemistry	1122		

Fluorescence in situ hybridization

Diagnostic	227	Research	262
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EM Facility

Total muscle sample	386	Total nerve sample	57
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Tissue Culture Lab

H&E staining	9316	Special Stains	3058
Immunohistochemistry	2862	Frozen Sections	2887
Unstained	2807	Coated slides	24,180

Renal pathology services

Urine sediment analysis	1773	Electron microscopy of kidney biopsy	890
Immunofluorescence of kidney biopsy	820		

Cardiac pathology

Specimens

Routine	453	Research	285
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Others work

Immunohistochemistry	76 slides	H&E stain	435 slides
Special stains	189 slides		
Manual processing of post-transplant biopsies	20 cases		
Cutting of blocks (unstained sections)	354 slides		
Skin biopsy cutting	279 cases (each 6 slides)		
Renal biopsy cutting	950 cases (each 10 slides)		
Frozen cutting	70 cases (each 3 slides)		
Coated slides	2000 slides		

9.30. Pharmacology

Professor and Head

Y.K. Gupta

Professors

V.L. Kumar

Kamal Kishore

N.R. Biswas (on deputation)

S.K. Maulik

D.S. Arya

Jatinder Katyal

Surender Singh

K.H. Reeta

Jagriti Bhatia

Assistant Professors

N.S. Raj

Pooja Gupta

Harlokesh Narayan Yadav

Sudhir Chandra Sarangi

Scientists

Sharda S. Peshin

Thomas Kaleekal

Amita Srivastava

Madhuri Gupta

Sunder Singh Samuel

HIGHLIGHTS

The department continues to be ADR Monitoring Centre (ADR-AMC) under Pharmacovigilance Programme of India (PVPI) and Dr Y.K. Gupta as National Scientific Coordinator. The department has also been designated as Medical Device Monitoring Centre (MDMC) for Materiovigilance Program of India (MvPI) by Ministry of Health and Family Welfare, Government of India with Dr Pooja Gupta as the coordinator.

EDUCATION

The department is engaged in the teaching programmes of BSc Nursing (Hons), MBBS, MSc (Pharmacology), MD, PhD and DM (Clinical Pharmacology) courses.

CMEs/Workshops/Symposia/National and International Conferences

1. A “Brainstorming workshop on principles and applications of Pharmacoeconomics” was conducted on 29 November 2017 at AIIMS, New Delhi

Lectures delivered**Y.K. Gupta**

1. Need for pharmacoeconomic evaluations in India: Relevance for National List of Essential Medicines (NLEM), Brainstorming workshop on Principles and Applications of Pharmacoeconomics, 29 November 2017, New Delhi

Kamal Kishore

1. Antibiotic use and misuse, World Congress on Disease, Health and Society: Issues, Challenges (Global Health, 2017), 20 May 2017, New Delhi
2. Antibiotics usage and ADRs, 5th International Conference on Science and Arts of Holistic Health: Issues, Challenges, Opportunities Prevention Awareness (Holistic Health, 2017), 16 September 2017, New Delhi
3. Adverse effects of anti-cancer drugs, Conference on Cancer Awareness (World Cancer Day), 4 February 2018, New Delhi
4. Panel discussion—On anticancer therapy, Conference on Cancer Awareness (World Cancer Day), 4 February 2018, New Delhi

S.K. Maulik

1. Research methodology in clinical research, Training Workshop on Basics of Biomedical Research, 7 September 2017, Nagpur
2. Research methodology in clinical research, Training Workshop on Basics of Biomedical Research, 10 October 2017, Guwahati, Assam
3. Research methodology in clinical research, Training Workshop on Basics of Biomedical Research, 8 November 2017, Chennai

K.H. Reeta

1. Adverse drug reactions, 3rd CME Workshop on Improving Availability and Rational Use of Medicines in Public Health Facilities, 20-23 February 2018, New Delhi

Jagriti Bhatia

1. Mangiferin attenuates myocardial ischaemia reperfusion injury: An experimental study, 30th Annual National Conference of Indian Society of Atherosclerosis Research, 2 November 2017, Patna
2. Role of essential medicines, Hospital Formulary and Standard Treatment Guidelines in Promoting Rational Pharmacotherapy, 9th Annual Conference of Indian Society for Rational Pharmacotherapeutics (ISRPTCON 2017), 19 November 2017, Aligarh

Pooja Gupta

1. Cost considerations and outcome measures in Pharmacoeconomics, Workshop on 'Principles and Applications of Pharmacoeconomics', 29 November 2017, New Delhi

Harlokesh Narayan Yadav

1. Cardiovascular pharmacology from research to reality, Quality Improvement Programme, 19 May-1 June 2017, Ranchi
2. New target sites in Cardiovascular Pharmacology, Faculty Development Programme, 10-14 July 2017, Ghaziabad
3. Ethical issues in preclinical research, NRIPSCON 2017, 1-2 September 2017, Ghaziabad

Sharda Shah Peshin

1. Assessment and prevention strategies for exposure to lead, Expert Group Meeting on Prevention and Management of Lead Poisoning, 14-16 June 2017, Ahmedabad
2. Issues and challenges of snake bites in India, 8th International Conference on Legal Medicine, Medical Negligence and Litigation in Medical Practice and 8th International Conference on Current Trends in Forensic Sciences, Forensic Medicine and Toxicology, 29 September-1 October 2017, Agra
3. Why poisons centres? Symposium on strategy on poisons management in India in 37th Annual Conference of Society of Toxicology (INDIA) STOX-2017, 17-19 November 2017, Chandigarh

Amita Srivastava

1. Detection of heavy metals in street samples of drug of abuse, Recent advances in Drug Abuse Toxicology, First National Conference on Addiction Psychiatry organized by the National Drug Dependence Treatment Centre (NDDTC), Department of Psychiatry, 27-29 November 2017, New Delhi

Oral papers/posters presented

1. Chauhan P, Karwasra R, Singh S, Gupta YK. To evaluate the safety profile of antiarthritic Homeopathic drugs, World Congress on Inflammation (INFLAMMATION-2017), 21-23 July 2017, London, United Kingdom

2. Karwasra R, Singh S, Gupta YK. Boerhavia diffusa attenuates inflammation and bone damage through inhibiting the activation of nuclear factor- κ B in Wistar rats with adjuvant-induced arthritis, World Congress on Inflammation (INFLAMMATION-2017), 21-23 July 2017, London, United Kingdom
3. Kalra P, Singh S, Gupta YK. Terminalia chebula supplementation with tacrolimus attenuates the overexpression of pro-inflammatory cartilage cytokines in adjuvant arthritic rats, World Congress on Inflammation (INFLAMMATION-2017), 21-23 July 2017, London, United Kingdom
4. Singh S, Gupta YK. Attenuation of tacrolimus induced nephrotoxicity by pomegranate via down regulating pro-inflammatory cytokine and inhibiting apoptosis in Wistar rats, World Congress on Inflammation (INFLAMMATION-2017), 21-23 July 2017, London, United Kingdom
5. Reeta KH, Singh D, Gupta YK. Edaravone ameliorates cognitive impairment in intracerebroventricular streptozotocin induced experimental dementia of Alzheimer's type in rats, 57th Annual Conference of the National Academy of Medical Sciences (India), 27-29 October 2017, Amritsar, Punjab
6. Reeta KH, Singh D, Gupta YK. Edaravone attenuates intracerebroventricular streptozotocin-induced dementia of Alzheimer's type by modulating inflammatory cytokines, expression of choline acetyltransferase and rho-kinase-II, 3rd Congress of European Academy Neurology, 24-27 June 2017, Amsterdam, The Netherlands
7. Singh D, Reeta KH, Gupta YK. Neuroprotective effect of monomethyl fumarate in brain ischemic reperfusion injury in rats, 3rd European Stroke Organization Conference, 16-18 May 2017, Prague, Czech Republic
8. Singh D, Reeta KH, Gupta YK. Effect of fumaric acid esters in middle cerebral artery occlusion induced ischemia reperfusion injury in rats, IBRO APRC School of Neuroscience, Epigenetic Regulation of Neuronal Gene Expression, 1-16 April 2017, Varanasi
9. Gupta P, Mutneja E, Yadav R, Dey AB, Gupta YK. Prescribing patterns of antihypertensive medicines among adult and geriatric patients in a tertiary care hospital in Delhi, 63rd Annual Conference of Physiologists and Pharmacologists of India, 10-14 October 2017, JIPMER, Puducherry
10. Sarangi SC, Kumar S, Tripathi M, Gupta YK. Use pattern and adverse drug reaction profile of newer and conventional antiepileptic drugs in a tertiary care hospital, 32nd International Epilepsy Congress, 2-6 September 2017, Barcelona, Spain
11. Sarangi SC, Dash Y. Application of artificial intelligence techniques for sensor based physical activity monitoring to maintain a healthy life, 57th Annual Conference (NAMSCON2017) of the National Academy of Medical Sciences, 27-29 October 2017, Amritsar
12. Kalsi AK, Jain M, Sharma JB, Chaturvedi PK, Srivastava A, Halder A. Macroprolactinemia: Prevalence and etiopathologic associations, gynecological endocrinology, the 18th World Congress, 7-10 March 2018, Florence, Italy
13. Kalsi AK, Jain M, Sharma JB, Srivastava A, Mathew M, Chaturvedi PK, Halder A. Macroprolactinemia: Prevalence and Etiopathologic Associations, ESICON 2017, 13-15 October 2017, Kerala
14. Yadav A, Srivastava A, Kumar A, Jaiswal AK, Sarin RK, Sharma M. Determination of aluminium and zinc in autopsy samples by ICP_AES: Method validation, IAMLE 2017, 29 September-1 October 2017, Agra
15. Samuel SS. Blood lead levels and basophilic stippling in children with cerebral palsy, STOX-2017, 37th Annual Conference of Society of Toxicology, 17 November 2017, Chandigarh

RESEARCH

Funded projects

Ongoing

1. Developmental of novel therapeutic agents for Glioblastoma Multiforme: An experimental study, YK Gupta, Fermish Clinical Technologies Pvt Ltd, 1 year, 2017-2018, Rs 24 lakhs
2. Studies on the efficacy of latex of *Calotropis procera* in experimental models of colitis and colorectal cancer, V.L. Kumar, AIIMS, New Delhi, 2 years, 2016-2018, Rs 8.24 lakhs
3. Anti-inflammatory strategy in the treatment of Pulmonary Artery Hypertension, SK Maulik, ICMR, 3 years, 2017-2020, Rs 8.96 lakhs
4. To determine the effect of seizures on neurogenesis and cardiac remodeling in Lithium pilocarpine model in rats—Role of AT1 receptor blocker Losartan and kappa opioid receptor agonist U50488, Jatinder Katyal, AIIMS, New Delhi, 2 years, 2016-2018, Rs 4.95 lakhs
5. Role of Brain Derived Neurotropic Factor (BDNF) as a potential biomarker in seizure related cardiac abnormalities, Jatinder Katyal, DST, 2 years, 2017-2019, Rs 21.35 lakhs
6. Preliminary pharmacological and safety studies of Homeopathic drugs, Surender Singh, CCRH, Department of AYUSH, 2 years, 2017-2019, Rs 27.56 lakhs

7. Evaluation of Fumaric Acid Esters (FAEs) in Experimental Model of Stroke in Rats, KH Reeta, DBT, 3 years, 2015-2018, Rs 59.54 lakhs
8. Evaluation of the nephroprotective effect of berberine and diadzein in cisplatin induced nephrotoxicity in rats, Jagriti Bhatia, DBT, 3 years, 2015-2018, Rs 24.99 lakhs
9. To study the influence of CYP2C19 polymorphism on bortezomib blood concentration and clinical response in myeloma patients, Pooja Gupta, DST, 3 years, 2017-2020, Rs 25.31 lakhs
10. Surface engineered Silver (Ag) nanoparticles and peptide conjugate for angiogenesis-based animal wound management, Harlokesh Narayan Yadav, DBT, 3 years, 2018- 2020, Rs 89.16 lakhs
11. Formulation and evaluation of lipid-based nanoparticles of epalrestat in experimental diabetic neuropathic pain in Wistar rats, Harlokesh Narayan Yadav, AIIMS, 2 years, 2017-2018, Rs 5 lakhs
12. A prospective observational study to find out correlation of serum Antiepileptic Drug (AED) and biomarkers levels with seizure recurrence in Persons with Epilepsy (PWE) undergoing AED tapering, Sudhir Chandra Sarangi, AIIMS, 2 years, 2016-2018, Rs 5 lakhs

Completed

1. Establishment of Clinical Research Centre (CRRC) for Pharmacovigilance, YK Gupta, PATH (Program for Appropriate Technology in Health), 3 years, 2013-2018, Rs 59.79 lakhs
2. Pharmacological Evaluation of Herbomineral Ayurvedic Formulations (AFYs) used in the Prophylaxis of Migraine, YK Gupta, IPCA Laboratories, 7 years, 2011-2018, Rs 29.61 lakhs
3. Ameliorative potential of combination of *Tribulus terrestris*, *Boerhaavia diffusa* and *Terminalia chebula* in cisplatin and mercury chloride induced nephrotoxicity in Wistar rats, Surender Singh, AIIMS, 1 year, 2016-2017, Rs 4.99 lakhs
4. Evaluation of the nephroprotective effect of mangiferin in cisplatin induced nephrotoxicity in rats, Jagriti Bhatia, AIIMS, New Delhi, 1 year, 2016-2017, Rs 4.6 lakhs
5. Role of Glucose Regulated Protein (GRP78) in response to bortezomib-based regimen in Multiple Myeloma, Pooja Gupta, AIIMS, 2 years, 2016-2018, Rs 4.95 lakhs
6. A prospective observational study to find out correlation of serum Antiepileptic Drug (AED) and biomarkers levels with seizure recurrence in Persons with Epilepsy (PWE) undergoing AED tapering, Sudhir Chandra Sarangi, AIIMS, 2 years, 2016-2018, Rs 5 lakhs

Departmental projects

Ongoing

1. To study the influence of CYP2C19 polymorphism on bortezomib blood concentration and clinical response in multiple myeloma patients
2. Factors associated with seizure recurrence in persons with epilepsy undergoing AED tapering: A prospective observational study
3. Efficacy of methanol extract of latex of *Calotropis procera* in experimental model of colitis
4. Efficacy of methanol extract of latex of *Calotropis procera* in experimental model of colorectal cancer
5. Comparative evaluation of metformin and silymarin in cyclosporine induced hepato-renal toxicity
6. Evaluation of the analgesic effect of metformin in experimental models
7. Studies on the effect of artesunate in experimental model of sepsis
8. Study of Sesamol in Bleomycin induced pulmonary toxicity in rats
9. Pharmacological effect of arglabin on myocardial ischaemia reperfusion injury in an experimental model of rats
10. Pharmacological and molecular approaches to investigate selected drug in model of ischaemia-reperfusion injury in streptozotocin induced diabetic rats
11. Pharmacological and molecular studies on fisetin in experimental models of myocardial infarction in type-2 diabetic rats
12. Prescribing pattern in Advanced Non-small Cell Lung Cancer (NSCLC) at IRCH, AIIMS with Quality of Life and Cost Analysis
13. Formulation of oral liraglutide polymeric nanoparticles and evaluation of its hypoglycemic activity in experimentally induced diabetes mellitus in Wistar rats
14. Development of nanoparticle based oral formulation of liraglutide and evaluation of its effect in high fat diet induced obesity in mice

15. Comparison of newer and conventional antiepileptic drugs in focal and generalized seizures in terms of quality of life and cost of treatment
16. Effect of antiepileptic drugs on physical activity, reproductive endocrine health and quality of life in women with epilepsy
17. Correlation of Pentylentetrazole induced seizures and cardiac changes: Serum biomarkers and histopathology
18. Effect of U50488, a Kappa Opioid Receptor (KOR) agonist and IRL-1620, an Endothelin B (ETB) receptor agonist on epileptogenesis and cardiac changes in rat Lithium Pilocarpine (LiP) seizure model
19. Depression in Persons with Epilepsy (PWE): Correlation with serum BDNF and zinc levels

Completed

1. Neuroprotective potential of lercanidipine and citalopram in middle cerebral artery occlusion model of stroke in rats
2. Optimization of traditional herbal ingredients for developing a formulation for Alzheimer's Disease: *In-vitro* and *In-vivo* study
3. Evaluation of interaction profile of selected medicinal plants with conventional anti-epileptics and oral hypoglycemic agents
4. Studies on the safety and efficacy of artesunate in experimental model of colorectal cancer
5. Studies on the antiulcer properties of artesunate
6. Trace elements in non-alcoholic fatty liver disease: A cross-sectional study
7. Ameliorative potential of combination of *Tribulus terrestris*, *Boerhaavia diffusa* and *Terminalia chebula* in cisplatin and mercury chloride induced nephrotoxicity in Wistar rats
8. A prospective study of potentially inappropriate medications in elderly
9. Add on antidepressant drug (sertraline) with antiepileptic drugs (sodium valproate/phenytoin) in experimental seizure models: Effect on seizures and cognitive impairment in rats

Collaborative projects

Ongoing

1. Studies on the efficacy of latex of *Calotropis procera* in experimental models of colitis and colorectal cancer, Pathology
2. Comparison of newer and conventional antiepileptic drugs in focal and generalized seizures in terms of quality of life and cost of treatment, Neurology
3. Effect of antiepileptic drugs on physical activity, reproductive endocrine health and quality of life in women with epilepsy, Neurology

Completed

1. A prospective observational study to find out correlation of serum Antiepileptic Drug (AED) and biomarkers levels with seizure recurrence in Persons with Epilepsy (PWE) undergoing AED tapering, Neurology
2. Etiopathology of hyperlactinemia/macrolactinemia, correlation of (Cd, Cr, Mn, Cu, Pb), Reproductive Biology
3. Blood heavy metals and quantitative EEG correlates in children with Autism, Paediatrics
4. Trace elements in non alcoholic fatty liver disease: A cross-sectional study Cu, Zn, Pb, Mn, Mg, Fe, Gastroenterology
5. Evaluation of the frequency of polymorphism affecting lead and mercury toxicity among children with Cerebral Palsy (Pb), Paediatrics
6. Effect of repetitive magnetic field stimulation on neurogenesis in streptozotocin induced rat model of Alzheimer's Disease, Biotechnology

PUBLICATIONS

Journals: 31 Abstracts: 4 Chapters in Book: 1

PATIENT CARE

Estimation of metals in biological samples with ICP-AES Spectrophotometer

The department has been involved in the estimation of number of metals such as heavy metals Pb, Cd, Hg, As, and trace metals Cu, Zn, Ni, Al, Cr, Co in biological samples of human and animal model (blood, serum, tissues) and ayurvedic formulations for collaborative studies by Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP-AES) Spectrophotometer (Model JY-2000@2) at PPB levels.

Therapeutic Drug Monitoring facility

TDM (Therapeutic Drug Monitoring) facility in the Department of Pharmacology has been engaged in estimating drug levels in patient samples. High Performance Liquid Chromatography (HPLC) systems are used for qualitative and quantitative estimations of drug levels in patient samples.

National Poisons Information Centre

National Poisons Information Centre (NPIC) in the Department of Pharmacology plays a vital role in providing information on management of poisonings. Round the clock service rendered by NPIC is availed by treating physicians, government agencies, NGOs, and general public from all over the country.

For a snap shot view of management of commonly encountered poisonings, based on data from NPIC, a series of **Quick Reference Cards (QRCs)** under the Toxicovigilance Programme have been printed on poisoning due to Organophosphates, Benzodiazepines, Opioids, Lead, Aluminium Phosphide, Phenytoin, Thyroxine, Methanol, Pyrethroids, Tricyclic Antidepressants, Anticholinergics, Copper Sulphate, Rodenticides, Paracetamol and Corrosives.

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor Y.K. Gupta was given Life Time Achievement Award by Indian Society of Toxicology in 2017.

Professor Kamal Kishore was Guest of Honor in World Congress on Disease, Health and Society: Issues, Challenges (Global Health, 2017) in May 2017, New Delhi; Chairperson in a session on “Information Technology and Governance” in the National Conference on “Sustainable Development of Smart Cities”, held on 22-23 September 2017 at New Delhi; Faculty and Chairperson in a session “Drugs Track” in the 12th World Congress on Clinical, Preventive Cardiology and Imaging, 2017 (WCCPCI 2017) was held w.e.f. 30 September-1 October 2017 at Amritsar; Chairman of a session in National Workshop on Platelet Activity held on 11 November 2017 at New Delhi; Co-Chairman in a scientific session in Gericon 2017 Conference w.e.f. 16-17 December 2017 at New Delhi; Member of Academic Council IDC Foundation, New Delhi; Editorial Board Member of Journal of Pharmacology and Therapeutic Research; Editorial Board Member of Indian Journal of Pharmacy and Pharmacology; Editorial Board Member in Madridge Journal of Analytical Sciences and Instrumentation (MJAD); Member of Selection Committee for Selection of SRF/RA posts for interview conducted by CSIR; Member of Scientific Program Committee in 31st National Conference on Sustainable Development of Smart Cities held at New Delhi.

Professor S.K. Maulik delivered the Philip Poole-Wilson Oration at THSTI, Faridabad under the auspices of International Society for Heart Research (India) on 12 August 2017 at THSTI, Faridabad; Member of Expert Committee Meeting at National Innovation Foundation India, Gandhi Nagar on 6 March 2018; Member of BIRAC-SRISTI GYTI (Biotechnology Industry Research Assistance Council-Society for Research and Initiatives for Sustainable Technologies and Institutions) Award Screening Meeting on 27 February 2018.

Professor K.H. Reeta received Dr Vinod Kumar Bhargava Award from the National Academy of Medical Sciences for best published research work in the field of Clinical Pharmacology/Drug Development in India, 2017; Member, Subject Expert Committee (SEC), Drugs Controller General (India) Office to advise DCGI in matters related to approval of (a) clinical trials, (b) new drugs and (c) new medical devices; Peer Review Member, International Journal of Health Research and Medico Legal Practice (IJHRMLP).

Dr Harlokesh Narayan Yadav was Chairperson in Western Region of Indian Pharmacological Society (WRIPSCON 2017), 19 August 2017, B.J. Medical College, Ahmedabad; Chairperson in Northern Region Conference of Indian Pharmacological Society (NRIPSCON 2017), 1-2 September 2017, KIET Ghaziabad; Convener of Northern Region Conference of Indian Pharmacological Society (NRIPSCON 2017), 1-2 September 2017, KIET Ghaziabad.

Dr S C Sarangi was awarded membership by National Academy of Medical Sciences; Obtained Certificate of Achievement for poster presentation at 32nd International Epilepsy Congress, 2017.

9.31. Physical Medicine and Rehabilitation

Professor and Head

U Singh

Professors

Sanjay Wadhwa

SL Yadav

Gita Handa

Assistant Professors

Srikumar V

Asem Rangita Chanu

Superintendent Physiotherapist

Mrs Smita Das

Senior Physiotherapist

Mr OP Yadav

Superintendent Occupational Therapist

Mr Raman Kumar Singh

Senior Occupational Therapist

Mrs Lily Farhat Parveen

Senior Technical Officer

Mr Ajay Babbar

HIGHLIGHTS

The department organized the 46th Annual National Conference of Indian Association of Physical Medicine and Rehabilitation (IAPMRCON 2018) at India Habitat Centre, New Delhi on 19-21 January 2018. The event was attended by eminent national and international faculties who shared their experiences and enriched the knowledge. Professor U Singh was felicitated and delivered an oration in this August gathering. The department also organized pre-conference workshop on Ultrasound Guided Botulinum Toxin for Upper Limb Spasticity Management on 18 January 2018. Funds were raised through various sources for aids and appliances like Tricycles, Wheelchairs, Walkers and Crutches. These were distributed among needy patients. The number of patients has gradually increased over the years and continues to increase at a steady pace. The workshop is using modern and advanced machinery/equipment for making these orthotic and prosthetic appliances. The department's faculty, officers and resident doctors took active part in the collaborative research projects within and outside AIIMS, besides taking part as speakers at the CME programs and patient education over mass media as well as Public Lectures held by AIIMS for patient education. The faculty of the department has been invited by various bodies of the government and the universities to give their expert opinion for activities. Residents, faculty and staff have been regularly attending workshops and CME's to update their knowledge for better patient care.

EDUCATION

Under-graduate teaching: A set of 8 Seminars for the VIII Semester and one for the VI Semester was undertaken by the department. Besides, the students were also shown various activities being done by the department including the Prosthetic and Orthotic (P&O) Workshop. Eleven post-graduate students are doing MD (PMR). Students of Prosthetics and Orthotics from two Government of India institutions, SVNIRTAR (Cuttack) and PDUIPH (Delhi) visited the P&O Workshop as part of their teaching/training program. One long term trainee from the Armed Forces, Dr Lt Col Shashi Bhusan Sahu, completed his term of two years in September 2017.

CMEs/Workshops/Symposia/National and International Conferences

The department organized two conferences, one national and one state.

1. 46th Annual National Conference of Indian Association of Physical Medicine and Rehabilitation (IAPMRCON 2018), 19-21 January 2018 at India Habitat Centre, New Delhi



Inaugural Function of IAPMRCON 2018
(Chief Guest Ms Anupriya Patel, MOS, MOHFW, GOI and Guest of Honor Professor Randeep Guleria, Director, AIIMS)



Preconference Workshop (IAPMRCON 2018) on Ultrasound Guided Botulinum Toxin for Upper Limb Spasticity Management at Department of PMR on 18 January 2018

2. 12th Annual Conference of Indraprastha Association of Rehabilitation Medicine, 25 November 2017, New Delhi

Lectures delivered

U Singh

1. How to write a paper, PMR Refresher Course, 23 September 2017, Jaipur
2. Examination: Do's and Don'ts, PMR Refresher Course, 23 September 2017, Jaipur

Sanjay Wadhwa

1. Setting up rehabilitation in superspeciality hospital, Guest lecture at superspeciality hospital, Janak Puri, Government of NCT, 27 April 2017, New Delhi
2. Rights of Persons with Disabilities Act, 2016, Induction Programme for Newly Recruited Medical Officers, 27 June 2017, NIHFW, Munirka, New Delhi
3. Rights of Persons with Disabilities Act, 2016 with a focus on disability evaluation, IAPMR Mid-Term CME, 26 August 2017, Bhubaneswar
4. Bioethics, World Bioethics Day Symposium at PGIMER and Dr RML Hospital, 11 October 2017, New Delhi
5. Prevention of memory loss, NAMS CME on Dementias, 19 December 2017, New Delhi

S.L. Yadav

1. To evaluate the efficacy of Total Contact Cast (TCC) compared to Patellar Tendon Bearing (PTB) cast with walking iron in the treatment of neuropathic plantar foot ulcer, 16th ISPO 2017 World Congress, 8-11 May 2017, Cape Town, South Africa
2. Compressive neuropathy of upper extremity, IAPMR Mid-Term CME 2017, 25-27 August 2017, Bhubaneswar, Odisha
3. Management of cervical pain, PMR Refresher Course, 21-23 September 2017, Jaipur
4. Osteoporosis, PMR Refresher Course, 21-23 September 2017, Jaipur
5. Spastic shoulder, Annual Conference of MAPMR, 11-12 November 2017, New Delhi
6. Rehabilitation management, International Spine and Spinal Injuries Conference (ISSICON 2017), 17th Annual Scientific Meeting of Spinal Cord Society, 19 November 2017, Delhi
7. Recent advances in neurorehabilitation, CRE 2017 themed "Rehabilitation of the Physically Challenged: New Horizons, 3 December 2017, ALC, Pune
8. Spasticity overview, Pre-Conference Workshop, IAPMRCON 2018, 18 January 2018, Delhi
9. Falls in elderly: Who? Why? What next? IAPMRCON 2018, 21 January 2018, Delhi
10. India rehabilitation, 2018 Technology Workshop: Evaluation of need for low cost joints, prosthetics and rehabilitation technologies in India jointly organized by VIT, Vellore and University of Leeds, UK, 1 February 2018, Vellore

11. Advanced technologies in neurorehabilitation, 10th World Congress for Neurorehabilitation, 7-10 February 2018, Mumbai
12. Phenol block—Low cost spasticity management, 10th World Congress for Neurorehabilitation, 7-10 February 2018, Mumbai

Gita Handa

1. Comprehensive Physical Rehabilitation of SCI: Challenges and Opportunities in India and LMIC (Panelist), ISSICON 2017, 17-19 November 2017, New Delhi
2. Community Inclusion in India and LMIC: Strategies to Overcome the Challenges (Panelist), ISSICON 2017, 17-19 November 2017, New Delhi
3. Women in PMR (Panelist), IAPMRCON 2018, 19 January 2018, New Delhi

Srikumar V

1. Biomechanics of lifting and carrying load, IPARM Clinical Meet, 29 July 2017, New Delhi
2. Lymphedema—Myths and Reality (Panelist), ASOMACON 2017, 9 October 2017, New Delhi
3. Management of Neurogenic Bladder (Panelist), ISSICON 2017, 18 November 2017, New Delhi
4. Improving Home Care Services in India and LMIC (Moderator), ISSICON 2017, 18 November 2017, New Delhi
5. Ethics in Physiatry, IAPMRCON 2018, 21 January 2018, New Delhi
6. Rehabilitation in Spinal Cord Injury, 3rd Annual Jammu Trauma Meet, 24 March 2018, Jammu

Asem Rangita Chanu

1. Historical perspective: Women in PMR, IAPMRCON 2018, 19 January 2018, New Delhi

Osama Neyaz

1. Sono—Anatomy of upper limb, IAPMRCON 2018 - Preconference Workshop, 18 January 2018, New Delhi

Abhimanyu Vasudeva

1. Botulinum Toxin and its preparation, IAPMRCON 2018—Preconference Workshop, 18 January 2018, New Delhi

Ajay Babbar

1. Prevention of secondary disabilities, Seminar on Prevention of Secondary Disabilities, 24 March 2018, New Delhi

Oral papers/posters presented

1. Ali N, Singh U, Wadhwa S, Handa G, Srikumar V, Kumar A, Khan MA. A comparison of balance impairments in early and advanced osteoarthritis of knee, IAPMRCON 2018, 20 January 2018, New Delhi (**IAPMR gold medal for the best PGT paper award**)
2. Chacko B, Thomas R, Kattula D, Prakash NB, Thampi SB, Chanu AR, Sebastian T. A prospective study of neuropsychiatric problems in patients with traumatic brain injury being treated in a Tertiary Care Rehabilitation Centre, IAPMRCON 2018, 21 January 2018, Delhi
3. Handa G, Mallik KC, Wadhwa S, Srikumar V, Singh U, Jyotsna VP. To determine the effect of custom molded footwear on the center of pressure in the foot in patients with Diabetes Mellitus, IAPMRCON 2018, 20 January 2018, New Delhi
4. Hazra S, Srikumar V, Handa G, Yadav SL, Wadhwa S, Kochhar KP, Deepak KK, Sarkar K, Singh U. fNIRS: A new tool for visualization of central sensitization in Fibromyalgia, 12th Delhi PMRCON 2017, 25 November 2017, New Delhi
5. Hazra S, Srikumar V, Handa G, Yadav SL, Wadhwa S, Kochhar KP, Deepak KK, Sarkar K, Singh U. Pathophysiological correlation between typologies of Fibromyalgia, IAPMRCON 2018, 21 January 2018, New Delhi
6. Rahman H, Yadav SL, Singh U. Comparison of effect of single dose intra-articular injection of PRP and high molecular weight hyaluronic acid in pain reduction and improving quality of life in patients with osteoarthritis knee, IAPMRCON 2018, 20 January 2018, New Delhi
7. Vasudeva A, Laisram N, Chanu AR. Functional Mobility and Gait Parameters with and without Botulinum Toxin in Cerebral Palsy (Paper Presentation), 12th Delhi PMRCON 2017, 25 November 2017, New Delhi
8. Vasudeva A, Laisram N, Chanu AR. Functional Mobility and Gait Parameters with and without Botulinum Toxin in Cerebral Palsy, IAPMRCON 2018, 19 January 2018, New Delhi
9. Vasudeva A, Handa G. Ultrasonographic evaluation of radial neuropathy and its correlation with pain and functional outcome before and after a corticosteroid injection in Lateral Epicondylitis, IAPMRCON 2018, 19 January 2018, New Delhi

RESEARCH

Funded projects

Ongoing

1. Development and testing of custom 3D printed foot orthotics using foot images from smartphone for various foot problems, Gita Handa, DBT, 1 year, 2017, Rs 12 lakhs

Departmental projects

Ongoing

1. A randomized control trial to compare the effect of single dose platelet rich plasma and corticosteroid injection in patients with carpal tunnel syndrome
2. A comparative study of the efficacy of a set of conventional therapeutic exercises versus a set of Yoga asanas in non-specific chronic low back pain patients presenting in a tertiary health care center
3. A randomized control trial to compare effect of ultrasound guided corticosteroid injection versus conservative treatment on pain, function and ultrasonographic features of common extensor tendons in patients with lateral epicondylitis
4. A randomized control trial to compare effect of platelet rich plasma and dextrose prolotherapy in patients of chronic plantar fasciitis
5. A cross sectional study to evaluate the correlation of gross motor, hand function, caregiver reported quality of life with intelligence in children with Cerebral Palsy
6. A randomized control trial to compare effectiveness of electrical stimulation of foot and oxybutynin in overactive bladder in persons with spinal cord injury
7. A randomized controlled trial to study the efficacy of exercises in early stage Parkinson's Disease
8. A Randomized Controlled Trial to compare the effect of Zoledronic Acid versus a Structured Exercise Programme in Primary Osteoporosis
9. Ultrasonographic evaluation of radial neuropathy and its correlation with pain and functional outcome before and after a corticosteroid injection in Lateral Epicondylitis
10. The International Spinal Cord Society (ISCoS) Database Project (IDaP)
11. The efficacy of dextrose prolotherapy for adhesive capsulitis of shoulder: A randomized controlled study
12. To compare the effectiveness of conventional therapeutic exercises with Yoga for chronic nonspecific low back pain: A randomized comparative trial

Completed

1. A cross sectional study on autonomic function and cortical pain perception in Fibromyalgia
2. A comparison of balance impairment in early and advanced osteoarthritis of knee
3. Evaluation of the effect of custom molded footwear on the center of pressure in the foot in patients with diabetes mellitus
4. Relationship between stump length, Gait parameters and dynamic balance in unilateral transtibial amputee
5. Comparison of effect of single dose of intra articular injection of platelet rich plasma and high molecular weight hyaluronic acid in pain reduction and improving quality of life in patients with osteoarthritis of knee
6. Spinal Cord Society Position Statement: Stem cell/cellular interventions in Human SCI—Is it time to move from guidelines to regulations and legislations?

Collaborative projects

Ongoing

1. Damper control in Lower Limb Prosthesis, IIT, Delhi
2. Effect of Transcranial Magnetic Stimulation on Pain Modulation Status in Fibromyalgia Patients, Physiology
3. Synergy based adaptive prosthesis for transfemoral amputee, IIT Delhi
4. Skeletal muscle strength including its energy metabolism, bone mineral homeostasis and Th1/Th2 cytokines expression in Asian Indians with chronic hypo-vitaminosis D before and after oral cholecalciferol supplementation, Endocrinology
5. Relationship between stump length, gait parameter and dynamic balance in unilateral transtibial amputee, IIT Delhi
6. Prevalence of shoulder peri-arthritis in patients with type 1 diabetes mellitus, Endocrinology
7. Design of artificial hand with artificial fingers, North Eastern Hill University, Shillong
8. A study of pain status and motor cortex excitability in chronic low back pain patients: Effect of Transcranial Magnetic Stimulation, Physiology
9. Design, development and validation of ergonomically enhanced surgical instruments, Surgery

10. Feedback Integrated Rehabilitation Station (FIRST) for upper limb functional training, Central Scientific Instruments Organization, Chandigarh
11. Electrophysiological analysis of cognitive load during locomotion and balancing and to investigate the improvement in gait and balance in lower limb amputees after using tactile feedback, Biomedical Engineering, AIIMS/IIT Delhi
12. Designing an upper limb assistive device for stroke patients, National Institute of Design, Ahmedabad

PUBLICATIONS

Journals: 5

PATIENT CARE

New Patients

OPD (Physician Consultations)	14,627	Prosthetics and Orthotics	4914
Total New Cases	19,541		

Old Cases

OPD Old cases (Physician consultation)	23,390	Disability Evaluation Clinic	108
Railway Concession Certificates	260	OPD visits (PT Section)	18082
OPD visit (OT Section)	14,115	OPD visit (MSW)	3162
OPD visit (P&O Clinic)	7945	Minor OT procedures	4411
Total Old Cases	71,473		

Grand Total for the Year 91,014

Special Clinics of the Department

Ongoing Clinics

1. Musculoskeletal ultrasound guided interventions
2. Custom molded insoles in Foot Clinic
3. Wheelchair prescription and checkout clinic for customized wheelchair delivery as per WHO guidelines
4. Musculo-skeletal laboratory: Computerized evaluation and exercise equipment
5. Foot Clinic
6. Disability Evaluation Clinic
7. Brace Check Out Clinic: Checking prosthetic and orthotic devices made in our workshop before final delivery to the patients
8. Case Conference: Discussion of long term rehabilitation patients for goal setting and treatment evaluation
9. Gym Round Clinic: Evaluation of the therapy of the indoor patients admitted under PMR

Community Services

Patient Care: The departmental faculty and resident doctors are periodically involved in Rural Camps in Mathura for the welfare of the persons with disability.

Mass Media: Public awareness lectures and TV health programmes

1. **Dr U Singh** was invited as expert during the phone-in live TV program on “Health and Empowerment of Differently abled persons” in Total Health, DD News, Telecast on 3 December 2017
2. **Dr Sanjay Wadhwa**
 1. On 23 July 2017, Total Health Programme on “Adolescent Health” DD NEWS
 2. On 2 September 2017, Swasth Kisan Programme on “Adolescent Health” on DD Kisan
 3. On 12 October 2017, AIIMS New Delhi “Public Awareness Program on World Arthritis Day”
 4. On 24 December 2017, Total Health Programme on “Obesity” DD NEWS

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor U Singh delivered the IAPMR West Bengal Oration during the Annual National Conference of Indian Association of Physical Medicine and Rehabilitation, New Delhi, 20 January 2018; Emeritus Editor of Indian Journal of Physical Medicine and Rehabilitation; Senior Editor, Astrocyte, Multispecialty Journal by National Board of Examinations, New Delhi.

Professor Sanjay Wadhwa was life member, World NCD Federation; Vice-President of National Academy of Medical Sciences (India); Member, Council of National Academy of Medical Sciences (India); Member, Academic Council of National Academy of Medical Sciences (India); Member, Academic Committee of National Academy of Medical Sciences (India); Member, Orations and Awards Committee of National Academy of Medical Sciences (India); Convenor, ISO/TC173/WG12 (International Standards Organization, Technical Committee 173, Working Group 12)—Dealing with Assistive Products for Persons with Disabilities; Chairman, MHD 09 (Sectional Committee for Artificial Limbs, Assistive devices, Rehabilitation appliances for persons with disabilities), Bureau of Indian Standards, Government of India; Member, MHD Council, Bureau of Indian Standards, Government of India; Member, Chairman's Advisory Group, TC 173 (ISO, Sweden); Chairman, Committee for Drafting Guidelines for Locomotor Disability (including Cerebral Palsy, Leprosy-Cured, Dwarfism, Acid attack victims, Muscular Dystrophy) Evaluation and Certification, Department of Empowerment of Persons with Disabilities, Ministry of Social Justice and Empowerment, Government of India; Member, Committee to Draft Guidelines for Persons with Disabilities having High Support Needs, Department of Empowerment of Persons with Disabilities, Ministry of Social Justice and Empowerment, Government of India; Member, Committee for Consideration of Grants to individuals to facilitate participation in International Conferences, UGC, New Delhi; Member, Editorial Board, Annals of National Academy of Medical Sciences; Member, Institutional Review Board, NIPCCD, New Delhi; Member, Technology Initiative for Disabled and Elderly, DST, Government of India, New Delhi; Member, Disability Committee, Medical Council of India; Member, Committee for Framing Guidelines for Rehabilitation in Stroke, DGHS, Nirman Bhawan, New Delhi.

Professor SL Yadav was key note speaker on India Rehabilitation at 2018 Technology Workshop: Evaluation of need for low cost joints, prosthetics and rehabilitation technologies in India jointly organized by VIT, Vellore and University of Leeds, UK on 1 February 2018; Co-Ordination Committee (Indian Association of Physical Medicine and Rehabilitation) Member, 10th World Congress for Neurorehabilitation, 7-10 February 2018, Powai, Mumbai, India; Expert member on the Expert Committee to Review the Functioning of Institutions Demmed University of Krishna Institute of Medical Sciences at Karad, Maharashtra from 8-10 December 2017; Chairperson for poster session during 10th World Congress for Neurorehabilitation, 7-10 February 2018, Mumbai; Chairperson at IAPMRCON 2018 at Key Note Address Session, 19-21 January 2018, New Delhi; One of the judges at ISSICON 2017, 17-19 November 2017, New Delhi; External examiner, Work Place Based Clinical Assessment for Formative Assessment 2017 for DNB students; External examiner for MD (PMR), AIIPMR, Mahalaxmi, Mumbai, 7 July 2017; Expert for recruitment of faculty in the Department of PM&R at AIIMS, Raipur, 29 November 2017, AIIMS, Patna, 25 August and 5 November 2017, AIIMS, Bhubaneswar; Panelist, International Spine and Spinal Injuries Conference (ISSICON 2017), 17th Annual Scientific Meeting of Spinal Cord Society, 19 November 2017 (i) Opportunity in India and other LMIC which help overcome the challenge of spine trauma care (ii) Community inclusion in India and LMIC: Strategies to overcome the challenges; Organizing Chairman, 46th Annual National Conference IAPMR 2018, 19-21 January 2018 at IHC, New Delhi; Course Coordinator, USG guided Botulinum Toxin in Upper Limb Spasticity Management, 18 January 2018, AIIMS, New Delhi; Guest Faculty and Chairperson at Midterm Indian Society of Clinical Nutrition (INSCN) Meeting, ILBS, New Delhi; Outside expert at DPC Meeting, SVNIRTAR, 27 October 2017, Conference Hall, DEPwDs, CGO Complex, New Delhi.

Professor Gita Handa was member of Task Force on Bioengineering constituted by Department of Biotechnology, GOI; Expert Committee Member for Review of Project Proposals at Indian Council of Medical Research; Subject expert for examinations in PMR conducted by National Board of Examinations; Organizing Secretary of IAPMRCON 2018 held at India Habitat Center, New Delhi on 19-21 January 2018; Expert member for Interview Committee at SKIMS, Srinagar and PGI, Chandigarh; Member Expert Committee for University Grants Commission; External examiner for MD exams for KGMU, Lucknow, India.

Dr Srikumar V won First Prize "Essay Writing (other linguistic)" during the Hindi Pakhwada (September 2017), AIIMS, New Delhi; Reviewer, International Journal of Advanced Medical and Health Research (Official Journal of JIPMER, Puducherry); Technical Advisory Group, Indian adaptation and validation of the adapted ASQ3 (in Indian children 2-24 months of age), Pediatric Neurology Division, AIIMS, New Delhi; Technical Advisory Group, Soft Robotic (Artificial Muscle) technology platform for spinal cord injury and stroke rehabilitation, Department of Mechanical Engineering, IIT Delhi; Technical Advisory Group, Physical activity for NAFLD patients, Department of Medicine, AIIMS, New Delhi; Member Secretary, Accessibility India Campaign (Sugamya Bharat Abhiyan), AIIMS, New Delhi; Member, Committee for Revision of Chapter on Physical Infrastructure in the Indian Public Health Standards, MOHFW, GOI; Member, Medical Board, constituted by Medical Superintendent/Dean Academics, AIIMS; Nodal Officer, Department of PMR, Indents of machinery and equipment under plan and GeM; Treasurer, IAPMRCON 2018, New Delhi (46th Annual National Conference of IAPMR); Joint Secretary, Indraprastha Association of Rehabilitation Medicine; Treasurer, Indian Association of Physical Medicine and Rehabilitation (IAPMR); Co-Web administrator: www.iapmr.org, official website of Indian Association of Physical Medicine and Rehabilitation.

Dr Asem Rangita Chanu was reviewer, Journal of Medical Society; Chairman of a session for the topic “Muscle during weight loss: Strategies for its preservation” at APJ Abdul Kalam Auditorium, Institute of Liver and Biliary Sciences, 29 November 2017, Midterm Indian Society of Clinical Nutrition Meeting 2017; Chairperson, Registration and Reception Committee, IAPMRCON 2018, New Delhi; Convener, Pre-conference workshop Ultrasound Guided Botulinum Toxin for Upper Limb Spasticity Management, IAPMRCON 2018, New Delhi.

Mr Ajay Babbar was member of Artificial Limbs, Rehabilitation Appliances and Equipment for Disabled Sectional Committee, MHD 09 Bureau of Indian Standards, New Delhi; Nominated as buyer and consignee for GeM Government e marketing.

Mr Anil Kumar was member (Alternate) of Artificial Limbs, Rehabilitation Appliances and Equipment for Disabled Sectional Committee, MHD 09 Bureau of Indian Standards, New Delhi.

Dr Sandipan Hazra won Silver Medal in 200 m freestyle aquatics at Pulse, 45th Annual South Asian Medical Socio-cultural, Literary and Sports Meet at AIIMS, New Delhi.

Dr Raktim Swarnakar was “First” in essay competition, “Recent advances on cancer and future perspectives” on World Cancer Day (4 February 2018) at AIIMS, New Delhi.

9.32. Physiology

Professor and Head
Kishore Kumar Deepak

<p>Hrudananda Mallick Ratna Sharma Ashok Kumar Jaryal</p>	<p>Professors Debabrata Ghosh Nalin Mehta Raj Kumar Yadav</p>	<p>Kanwal Preet Kochhar Suman Jain Anjana Talwar</p>
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<p>Asmita Patil</p>	<p>Associate Professors</p>	<p>Renu Bhatia</p>
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<p>Simran Kaur Nasreen Akhtar Geetanjali Bade</p>	<p>Assistant Professors Prashant Tulsidas Tayade Ritesh Netam Suriya Prakash (from 12 February 2018)</p>	<p>Dinu Santha Chandran Akanksha</p>
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HIGHLIGHTS

The Department of Physiology has been involved in undergraduate and post graduate teaching in addition to the doctoral program. The faculty also undertook to train manpower for undergraduate, postgraduate teaching and research techniques in house by holding workshops and symposia at AIIMS and other institutions. A number of extramural and intramural research projects were taken up by the faculty in various areas such as neurophysiology (including autonomic nervous system), cellular and molecular physiology, nutrition, vascular physiology, reproduction, respiration, sleep, cognition, transcranial magnetic stimulation and yoga. The research outcomes were presented in various national and international scientific forums and published in indexed journals. On the basis of its original research, the department has provided significant support in patient care by utilizing cutting-edge technologies in autonomic and vascular function assessments, pain management, intraoperative monitoring during corrective surgeries, and yogic intervention. Several awards and honors have been received by faculty members and the students of the department in appreciation of their innovative contributions in research and medical education. The department organized workshop for SAARC Nations from 6-8 December 2017 and shared their expertise with the scientists abroad (Photograph 1). Ten faculty members and ten senior residents of the department under the guidance of Professor KK Deepak were content writers for “Physiological Biophysics” under National Project of MHRD/NMEICT and UGC for e-PG-Pathshaala (Photograph 2). The project aims towards the national cause for provision of resource material to postgraduate students all over India. The Department of Physiology prepared 43 lecture-materials including 30 minute videos for each module. Principal investigator for the project is Professor Moganty R. Rajeswari, Department of Pharmacology, All India Institute of Medical Sciences, New Delhi. Dr KK Deepak, Professor and Head, Department of Physiology is the departmental project-coordinator.



Photograph 1: Workshop on Techniques in Physiological Sciences (TIPS 2017) for SAARC Nations: Inaugural function and release of conference booklet by Guest of Honor Padma Shri Dr Krishnaswamy Vijayraghvan. Seen in picture are (L to R): Professor KK Deepak, Head, Department of Physiology, Dr Krishnaswamy Vijayraghvan, Principal Scientific Advisor to the Government of India, Dr Balram Airan, Dean, AIIMS and Dr Ratna Sharma, Professor, Department of Physiology.



Photograph 2: e-PG-Pathshaala Team: Seen from L-R (Row above) Dr Shival Srivastav, Dr Ashish Arvind, Dr Hanjabam Barun Sharma, Dr Arani Das, Dr Atanu Roy and Dr Chitturi Vinay; (Row below) Dr Akanksha, Dr Simran Kaur, Dr KP Kochhar, Dr KK Deepak, Dr Asmita Patil, Dr Prashant Tayade and Dr Geetanjali Bade. Not seen in picture: Dr Manpreet Kaur, Dr Ritesh Netam, Dr Kiran Prakash, Dr Meena Mirdha, Dr Sanjay Patel and Dr Navdeep Ahuja.

EDUCATION

1. **Undergraduate teaching:** Lecture 200 hrs and Practical 240 hrs, UG students: Total number of students: 107
2. **Post Graduate teaching:** Total Number of PG students:
 - a. MSc students: 9
 - b. MD students: 18
 - c. PhD scholars: 29
3. **Nursing and allied courses:** Total number of students: 141
4. **Short Term Training in the Department of Physiology:**
 - a. Three students from St Mary's School, Safdarjung Enclave, New Delhi, successfully completed 15-days Yoga-based comprehensive lifestyle training program from 25 June to 7 July 2017 at Integral Health Clinic
 - b. One MSc student from MD University, Rohtak for a period of 60 days from 1 June to 1 August 2018
 - c. Two MSc students from Jamia Millia Islamia College, for a period of 60 days from February to May 2018
 - d. Two technical officers from University of Kelaniya, Sri Lanka, for 8 days, 11-18 March 2018 at AFT Lab
 - e. One faculty member from AIIMS, Rishikesh, for a period of one month from 18 December to 28 December 2017
 - f. One lecturer from University of Kelaniya, Sri Lanka for a period of one week from 6 December to 12 December 2017
 - g. One lecturer from University of Kelaniya, Sri Lanka for a period of one month ten days from 6 December to 15 December 2017
 - h. Twelve BSc students from Morarji Desai National Institute of Yoga for one day visit and training on 28 September 2017
 - i. One Lab technician from IGNOU for a period of three months from October to December 2017
 - j. Seven MSc students from Jamia Millia Islamia College for a rotator training for a period of twenty days from 10 July to 29 July 2017
 - k. Twenty three MSc students along with 3 faculty students from Guwahati University, Assam, for a period of 28 days from 6 April to 11 April 2017
 - l. Two faculty members from AIIMS Jodhpur from 17 May to 31 May 2017
 - m. Two MSc Students from MDU Rohtak from 1 June to 30 June 2017
 - n. Two residents from Kathmandu University, Nepal from 1 February to 28 February 2017

CMEs/Workshops/Symposia/National and International Conferences

1. Symposium on Mind-Body-Medicine: Evidence-based Yoga Research and Health, APPI, Delhi Chapter, 1 May 2017, New Delhi
2. National Sleep Technology Course 2017, 20 September 2017, Panaji
3. National Sleep Medicine Course 2017, 21 September 2017, Panaji
4. Silver Jubilee Congress of Indian Society for Sleep Research, 22-23 September 2017, Panaji
5. Regional Symposium in World Sleep 2017, 9 October 2017, Prague
6. Preconference workshop on Transcranial Magnetic Stimulation: A non-invasive technique for neural repair and plasticity, APPICON 2017, 10 October 2017, Puducherry
7. Workshop on 63rd Annual Conference of Association of Physiologists and Pharmacologists of India (APPICON 2017), 10-14 October 2017, Puducherry
8. Pre-conference workshop on Transcranial Magnetic Stimulation: A non-invasive therapeutic strategy for neurological disorders, 28 October 2017, Cuttack
9. Symposium on Zero-Gravity, FIPS PHYSIOCON 2017, 5-7 November 2017, New Delhi
10. Workshop on techniques in Physiological Sciences for SAARC Nations, 6-8 December 2017, New Delhi
11. Workshop on recording and analysis of Quantitative EEG in Techniques in Physiological Sciences for SAARC Nations, 6-8 December 2017, New Delhi
12. Workshop on assessment of various domains of cognitive functions in Techniques in Physiological Sciences for SAARC Nations, 6-8 December 2017, New Delhi
13. Workshop on pain assessment in humans and animals, Techniques in Physiological Sciences for SAARC Nations, 6-8 December 2017, New Delhi

14. Workshop on Transcranial Magnetic Stimulation, Techniques in Physiological Sciences for SAARC Nations, 6-8 December 2017, New Delhi
15. Workshop on Polysomnography, Techniques in Physiological Sciences, 6-8 December 2017, New Delhi
16. Workshop on Recording of Bereitschafts Potentials, Techniques in Physiological Sciences for SAARC Nations, 6-8 December 2017, New Delhi
17. Workshop on Pulmonary Function Testing by Spirometry, Techniques in Physiological Sciences for SAARC Nations, 6-8 December 2017, New Delhi
18. Workshop on Expression Microarray, Techniques in Physiological Sciences for SAARC Nations, 6-8 December 2017, New Delhi
19. Workshop on Developing Psycho-Social and Interpersonal Skills, The making of a good health care provider for AIIMS faculty, Residents, Students and Health Professional, 28 February 2018, New Delhi
20. Quiz for AIIMS students, faculty and staff on Good Sleep for Good Health, 10 March 2018, New Delhi
21. CME on Intraoperative Neurophysiology as Part of APPICON 2017, 11 October 2017, Puducherry

Lectures delivered

Kishore Kumar Deepak

1. Advanced analysis of ECG and BP signals: Measurement of BRS and coherence, Clinical Neurophysiology Symposia Workshops, 16-17 March 2018, Karnataka
2. The space physiology: The next frontier for Indian physiologists, CME on Space Physiology, 10 March 2018, Kattankulathur
3. Meditation induces physical relaxation and enhances cognition: A perplexing paradox, International Conference on Meditation, 4-6 March 2018, Allahabad
4. Non-invasive cardiovascular monitoring: Physiologists' perspective, CME on Upcoming Trends in Clinical Physiology: An Overview, 25 November 2017, Chandigarh
5. Research progress in ageing mechanisms, Symposium on Defining Molecular Drivers of Ageing and Their Implications in Related Diseases, 18 November 2017, New Delhi
6. Scope of space physiology research and its application in India, Symposium on Zero-Gravity on FIPS PHYSIOCON 2017, 6 November 2017, New Delhi
7. Physiological variability, Invited Talk, 23 September 2017, New Delhi
8. Cardiovascular adjustments during lower body negative pressure induction, XXXVIII World Congress of International Union of Physiological Sciences 2017, 1-5 August 2017, Brazil
9. Inventing medical devices: The bottlenecks and the solutions, Pre-Conference Workshop on Medical Devices, 4 July 2017, Bengaluru
10. Assessment of autonomic functions, Conference of Bangalore Branch of Association of Physiologists and Pharmacologists of India (APPI), 3 July 2017, Bengaluru
11. Electrophysiology—The ever-expanding paradigm for physiological application, CME cum Workshop on Basic Neuropsychological Techniques, 7 July 2017, Raipur
12. Activating mind through breath: The yogic way of brain stimulation, International Yoga Day, 21 June 2017, New Delhi
13. Yoga and stress management, International Yoga Day, 9 June 2017, New Delhi
14. Autonomic function test in humans, Association of Physiology and Pharmacology Angamaly Chapter, Little Flower Medical Research Center (LFMRC), 25 May 2017, Angamaly
15. HRV: Methods and clinical application, Association of physiology and Pharmacology Angamaly Chapter, Little Flower Medical Research Center (LFMRC), 25 May 2017, Angamaly
16. Yoga and psychosomatic health, Yoga Fest 2017, 11 May 2017, Ghandhinagar
17. Cardiovascular adjustments during lower body negative pressure induction, Symposium on Gravitational Physiology, Aging and Medicine, XXXVIII IUPS World Congress, 1-5 August 2017, Rio-de-Janeiro
18. The autonomic function testing: Physiology for multi dimensional applicability, Invited Talk organized by Department of Physiology Kasturba Medical College, 14 August 2017, Manipal

Hrudananda Mallick

1. Sleep is regulated at the multiple levels of the neuraxis, Sleep and Biological Rhythms, 2 April 2017, Tokyo
2. Nuts and bolts of a sleep laboratory, National Sleep Technology Course 2017, 20 September 2017, Panaji
3. Insight into neural substrates of sleep, National Sleep Medicine Course 2017, 21 September 2017, Panaji

4. Sleep medicine in Asia, World Sleep 2017, 9 October 2017, Prague
5. Sleep medicine, APPICON 2017, 14 October 2017, Puducherry
6. Sleep medicine education across the spectrum, III International Conference of Sleep Disorders, 29 October 2017, Jalandhar
7. Sleep and obesity issues, XI Global APPI Summit organized by American Association of Physicians of Indian Origin, 28 December 2017, Kolkata
8. Sleep is as important as nutrition and exercise, Sleep Con 2018, 31 March 2018, Odisha
9. Sleep medicine education in medical curriculum, III Conference of Association of Physiologists of Haryana, 27 January 2018, Haryana

Debabrata Ghosh

1. Integrative model of blastocyst implantation in the primate, XXXVI Meeting of Society for Reproductive Biology and Endocrinology, 20-22 January 2018, Goa
2. Microenvironmental stress in peritoneum and endometriosis, Friends of Pavlov at Pavlov Institute of Physiology, 16 March 2018, St. Petersburg

Kanwal Preet Kochhar

1. Teaching medical humanities, Basic Course Workshop in Medical and Health Professions, 14-16 March 2018, New Delhi
2. Caring for caregivers: Embedding empathy and social sensitivity in medical education, XXV Annual Conference of Indian Association of Palliative Care (IAPCON 2018), 23-25 February 2018, New Delhi
3. Recent advances in brain gut axis: Probiotics for neuro-developmental and neurodegenerative disorders, International Symposium on Probiotic Therapy: Translating to Health and Clinical Practice, 16-17 February 2018, New Delhi
4. Mental health issues in the workplace mental health part of the culture: That supports mental wellbeing, Nursing Update on Wellbeing in Work-Place, 5 February 2018, New Delhi
5. A best practice model for tobacco control: The HRIDAY AIIMS experience of promoting deaddiction awareness and education in school students, Ist National Conference on Addiction Psychiatry, 27-29 November 2017, New Delhi
6. Balancing scientific rigor with social sensitivity: Ethical issues in publishing and disseminating healthcare research in national settings, XVII FERCAP (Forum for Ethical Review Committees in Asia and the Western Pacific Region) and V FERCI (Forum for Ethical Review Committees in India) Annual Conference, 19-22 November 2017, New Delhi

Nalin Mehta

1. Informed consent process, Research Methodology—Ethical Aspects of Bio Medical and Health Research, 8 April 2017, Jaipur
2. Research involving vulnerable population, Research Methodology—Ethical Aspects of Bio Medical and Health Research, 9 April 2017, Jaipur
3. Use of stored samples—national/international perspective, Research Methodology—Ethical Aspects of Bio Medical and Health Research, 9 April 2017, Jaipur
4. Ethics in biomedical research, Training workshop for Members of Ethics Committee, 27 April 2017, Raipur
5. Ethics committees—Composition, roles and responsibility and review process, Training Workshop for Members of Ethics Committee, 27 April 2017, Raipur
6. Elements of the informed consent process, Training Workshop for Members of Ethics Committee, 27 April 2017, Raipur
7. Research risk-benefit analysis, Training Workshop for Members of Ethics Committee, 27 April 2017, Raipur
8. Overview of assessment, Workshop on Assessment, 29 August 2017, Rishikesh
9. MCQs—Relevance and types, Workshop on Assessment, 29-31 August 2017, Rishikesh
10. Item analysis, Workshop on Assessment, 29-31 August 2017, Rishikesh
11. Blue printing, Workshop on Assessment, 29-31 August 2017, Rishikesh
12. Panelist—Informed consent, XVII FERCAP (Forum for Ethical Review Committees in Asia and the Western Pacific Region) and V FERCI (Forum for Ethical Review Committees in India) Annual Conference, 21 November 2017, New Delhi
13. Panelist—Types of EC assessment, XVII FERCAP (Forum for Ethical Review Committees in Asia and the Western Pacific Region) and V FERCI (Forum for Ethical Review Committees in India) Annual Conference, 21 November 2017, New Delhi

14. Group dynamics, Faculty Development Workshop in Medical Education Technologies, 27 November 2017, Rishikesh
15. Taxonomy of learning and hierarchy, Faculty Development Workshop in Medical Education Technologies, 27 November 2017, Rishikesh
16. Overview of assessment, Faculty Development Workshop in Medical Education Technologies, 28 November 2017, Rishikesh
17. Assessment of clinical competence OSCE/OSPE, Faculty Development Workshop in Medical Education Technologies, 28 November 2017, Rishikesh
18. Microteaching, Faculty Development Workshop in Medical Education Technologies, 29 November 2017, Rishikesh
19. Ethics and professionalism in educators, Faculty Development Workshop in Medical Education Technologies, 29 November 2017, Rishikesh
20. Role of unconventional learning experiences, Faculty Development Workshop in Medical Education Technologies, 29 November 2017, Rishikesh
21. Panelist—Research on human subjects, Dissemination Program of the ICMR National Ethical Guidelines, 14 December 2017, Chandigarh
22. Ethical issues relating to doctor-patient relationships, Ist National Joint Meeting of Patients and Healthcare-Providers in Rheumatology, 15 December 2017, Vellore
23. Bioethics taken for granted, Ist National Joint Meeting of Patients and Healthcare-Providers in Rheumatology, 16 December 2017, Vellore
24. Bioethical issues in dental practice and research, Journal of Indian Orthodontic Society Symposium, 23 December 2017, Pune
25. Informed consent process, Electronic consent, Assent, Waiver of consent, Re-consent, Workshop on Research Ethics and Good Clinical Practice, 9 January 2018, NOIDA
26. Research ethics—Open house discussion, Workshop on Research Ethics and Good Clinical Practice, 9 January 2018, NOIDA
27. ICMR National Ethical Guidelines—Overview of the Revised Ethical Guidelines—2017, Workshop on Bioethics and GCP, 30 January 2018, Delhi
28. General ethical issues—Risk-benefit analysis, Conflict of Interest, Compensation etc., Workshop on Bioethics and GCP; Training program for the members of the Institutional Ethics Committee—Human Research, 30 January 2018, Delhi
29. Panelist—Research on human subjects, Dissemination Program of the ICMR National Ethical Guidelines, 7 February 2018, Chennai
30. Virtual teaching—Animal experimentation, II Conclave on Virtual Teaching, 8 February 2018, New Delhi
31. Panelist—Research on human subjects, Dissemination Program of the ICMR National Ethical Guidelines, 17 February 2018, Chandigarh
32. Educational objectives—Taxonomy and domains, Basic Course Workshop in Medical and Health Professionals Education, 14-16 March 2018, New Delhi
33. Framing objectives and competencies, Basic Course Workshop in Medical and Health Professionals Education, 14-16 March 2018, New Delhi
34. One Minute Preceptor (OMP) Model, Basic Course Workshop in Medical and Health Professionals Education, 14-16 March 2018, New Delhi
35. Assessment—General principles concepts of validity and reliability, Basic Course Workshop in Medical and Health Professionals Education, 14-16 March 2018, New Delhi
36. Designing MCQs, Basic Course Workshop in Medical and Health Professionals Education, 14-16 March 2018, New Delhi
37. Giving effective feedback, Basic Course Workshop in Medical and Health Professionals Education, 14-16 March 2018, New Delhi
38. Ethical issues in research and healthcare delivery, Continuing Dental Education Program on Ethics, Research Methodology and Statistics, 23 March 2018, Mumbai
39. Making on-screen presentations more effective, Continuing Dental Education Program on Ethics, Research Methodology and Statistics, 23 March 2018, Mumbai
40. Fundamentals of publication ethics, Continuing Dental Education Program on Ethics, Research Methodology and Statistics, 23 March 2018, Mumbai

Suman Jain

1. Transcranial magnetic stimulation: A non-invasive technique for neural repair and plasticity, Preconference Workshop: 63rd Annual National Conference of Association of Physiologists and Pharmacologists of India, 10 October 2017, Puducherry
2. Sensitivity to diversity, Faculty Mentor Sensitization Programme 2017, 25 October 2017, New Delhi
3. Transcranial magnetic stimulation: A non-invasive therapeutic strategy for neurological disorders, Hands on Training Workshop on Transcranial Magnetic Stimulation: A Non-Invasive Therapeutic Strategy for Neurological Disorders, 28 October 2017, Cuttack
4. Objective assessment of pain in animals and humans, Techniques in Physiological Sciences 2017, 6-8 December 2017, New Delhi
5. Therapeutic potential of nanoparticles in Parkinson's Disease, Postgraduate Programme in Neurosciences, 9 January 2018, Ahmedabad
6. TMS in animal studies, Current Neurophysiological Techniques: From Basic to Applied Aspects, 16-17 March 2018, Bengaluru

Ashok Kumar Jaryal

1. How to use IONM effectively in Spine Surgery, V International MSS Scientific Congress (Malaysia Spine Society), 5 August 2017, Melaka
2. Neuro-monitoring in Spine Surgery, XI Combined Meeting of Asia Pacific Spine Society and Asia Pacific Paediatric Orthopaedic Society and 8th Biennial Meeting of the International Federation of Paediatric Societies, 24 September 2017, Goa
3. Practice of translation physiology, VII Congress of Federation of Indian Physiological Societies (FIPS) and XXIX Annual Conference of the Physiological Society of India (PSI), 6 November 2018, New Delhi
4. Intra-operative neuronal monitoring: Role of basic scientist in the OT, CME on Upcoming Trends in Clinical Physiology: An Overview, 25 November 2017, Chandigarh
5. Assessment of vascular function, Grand Round, 8 February 2018, Srinagar
6. Phase reversal and cortical motor mapping in asleep patient: Monitoring for spinal deformity surgery, The Second Indian Course on Intraoperative Neurophysiology in Neurosurgery, 22 February 2018, Kolkata
7. Intraoperative neurophysiology: Principle and practice, Workshop on Clinical Neurophysiology, 10 March 2019, Wardha

Raj Kumar Yadav

1. Evidence-based Yoga research: Department of Physiology Contributions, Symposium: Mind-Body-Medicine: Evidence-based Yoga Research and Health, 1 May 2017, New Delhi
2. Yoga: An integral part of daily life, Symposium: International Yoga Day, 20 June 2017, New Delhi
3. Scientific basis of Yoga research for good health and patient care, Public Lecture and Panel Discussion, 20 June 2017, New Delhi
4. Evidence-based Yoga research: Science, medicine and health, Symposium: International Yoga Day, 21 June 2017, New Delhi
5. Diet and lifestyle intervention for weight management, Nutrition for Healthy Life and Improved Performance, 14 July 2017, New Delhi
6. Nutrition and health, Nutrition training for faculty/scientists/staff, 2 August 2017, New Delhi
7. Breast cancer patients: Issues beyond treatment, Panel Discussion during Asian Society of Mastology Conference (ASOMACON) 2017 organized by Department of Surgical Disciplines, 9 October 2017, New Delhi
8. Cardiovascular risk factors and Yoga-based lifestyle intervention, CME on Physiology for Progress and Perfection, 3 November 2017, Assam
9. Heart care, health and Yoga-based lifestyle intervention, XIV AP Dewan Memorial Lecture, 5 November 2017, New Delhi
10. Obesity, cardiovascular diseases and Yoga-based lifestyle intervention, IV Annual Conference of Association of Physiologists of India, 2 December 2017, Lucknow
11. Management of obesity, Fertivision 2017: XIII Annual Conference of Indian Fertility Society, 8 December 2017, New Delhi
12. Active aging: Complementary therapies in the elderly, GERICON 2017: XV Annual Conference of the Indian Academy of Geriatrics, 16 December 2017, New Delhi

13. Lifestyle Clinic: Relevance and experience, PHYSIOCON 2018, 28 January 2018, Haryana
14. Occupational health hazards and yoga, Yoga for Occupational Health Hazards, 18 February 2018, New Delhi
15. Free radicals, Oxidative stress and Yoga-based lifestyle intervention, XVI Annual Meeting of Society for Free Radical Research in India, 20 February 2018, New Delhi
16. Role of complementary therapy in managing mental health problems: Deep breathing and yoga session, Workshop: Mental Health at Workplace, 6 March 2018, New Delhi

Anjana Talwar

1. Pulmonary function testing by spirometry and diffusing capacity of lung, Techniques in Physiological Sciences 2017, 6-8 December 2017, New Delhi

Asmita Patil

1. Evidence based interventions to wellness: Customizing physical activity, Women's Health By NARCHI (National association for reproductive and child health of India), 13 April 2017, New Delhi
2. Hygiene during monsoons, Health and Wellness Workshop, 25 July 2017, New Delhi
3. Preparing for adolescence, Health and Wellness Workshop, 18 September 2017, New Delhi
4. Mentoring experience at AIIMS, Faculty Mentor Sensitization Program, 25 October 2017, New Delhi
5. Application of expression microarray in research, Techniques in Physiological Sciences for SAARC Nations (TIPS 2017), December 2017, New Delhi
6. Fostering empathy in healthcare training, Developing Psychosocial and Interpersonal Skills, 28 February 2018, New Delhi

Renu Bhatia

1. Transcranial magnetic stimulation, CME on Physiology for Progress and Perfection, 3 November 2018, Guwahati
2. Pain assessment in Humans, Workshop on Techniques in Physiological Sciences for SAARC Nations 2017, 7 December 2016, New Delhi
3. Transcranial magnetic stimulation for pain management, Workshop on Techniques in Physiological Sciences for SAARC Nations 2017, 8 December 2016, New Delhi

Simran Kaur

1. Physiology of cognition, Workshop on Techniques in Physiological Sciences for SAARC Nations 2017, 7 December 2017, New Delhi
2. Introduction to microteaching, Basic medical Sciences Course, 14 March 2018, New Delhi
3. Designing MCQs, Basic Medical Sciences Course, 16 March 2018, New Delhi
4. Assessment of clinical and practical skills, Basic Medical Sciences Course, 16 March 2018, New Delhi

Prashant T Tayade

1. Microstate analysis, Workshop on Techniques in Physiological Sciences for SAARC Nations 2017, 8 December 2017, New Delhi
2. Introduction to QEEG, Workshop on Techniques in Physiological Sciences for SAARC Nations 2017, 8 December 2017, New Delhi

Dinu S Chandran

1. Assessment of heart rate variability, Workshop on Techniques in Physiological Sciences for SAARC Nations 2017, 7 December, New Delhi
2. Recent advances in Baroreflex assessment, Invited Talk at Hamdard Institute of Medical Sciences and Research (HIMSR), 13 February, New Delhi

Nasreen Akhtar

1. Role of literature and art in developing psychosocial skills, Development of Psychosocial Skills in Health Professionals, 20 April 2017, New Delhi
2. Polysomnography, techniques in physiological sciences, 6 December 2017, New Delhi
3. Integration of techniques in physiological sciences with PG curriculum, Participant in Round Table Discussion during Techniques in Physiological Sciences, 8 December 2017, New Delhi

4. Music, art and literature in Medical Science, Development of Psychosocial Skills in Health Professionals, 28 February 2018, New Delhi
5. Principles of active learning, Basic Medical Education Course, 14 March 2018, New Delhi

Akanksha

1. Intraoperative electrophysiological techniques: Technical considerations, problems, and pitfalls, Brachial Plexus Injuries at 26th Annual Conference of Neurotrauma Society of India—Neurotrauma 2017, 11 August 2017, Coimbatore
2. Mapping of motor, Sensory and language cortex, Clinical and Research Opportunities for Young Budding Physiologists at the 63rd Annual National Conference of Association of Physiologists and Pharmacologists of India 2017, 11 October 2017, Puducherry
3. Intraoperative neurophysiological techniques in Brachial Plexus Surgeries, Advances in Neurotrauma Intervention and Rehabilitation Care, 28 October 2017, New Delhi
4. Intraoperative neuro-physiologic techniques, Updates on Peripheral Nerve and Brachial Plexus Management, 28 October 2017, New Delhi
5. Intraoperative neurophysiological techniques, VII Annual AIIMS Spine Surgery Workshop, 18 November 2017, New Delhi
6. Intra-operative neurophysiology, Clinical Grand Round, 8 February 2018, Srinagar

Ritesh Netam

1. Intra-operative neurophysiological monitoring, Clinical Grand Rounds, 24 January 2017, New Delhi
2. IONM in Orthopedic Spine Surgery: Sensory Evoked Potential (SSEP) Motor Evoked Potential (T-MEP), Spinal Nerve (triggered EMG), APPICON 2017, 10-11 October 2017, Puducherry

Geetanjali Bade

1. Pulmonary function testing by spirometry and diffusing capacity of lung, Techniques in Physiological Sciences 2017, 7 December 2017, New Delhi

Oral/poster presentations

1. Talwar A, Yadav N, Bhat MA, Sampath M, Baba MB, Guleria R, Ghosh D. Induced T-regulatory cells generated in-vitro from PBMCs show down regulation of FOXP3 mRNA in Chronic Obstructive Pulmonary Disease (COPD), LXIII Annual National Conference of Association of Physiologists and Pharmacologists of India, 13 October 2017, Puducherry
2. Angel AZ, Mehta N, Kaur S, Sharma R. Incongruency influences perception during binocular rivalry, LXIII Annual National Conference of Association of Physiologists and Pharmacologists of India, 12-14 October 2017, Puducherry
3. Arvind A, Jain S. TMS for studying brain plasticity, Hands on Training and Workshop on Transcranial Magnetic Stimulation: A Non-Invasive Therapeutic Strategy For Neurological Disorders, 28 October 2017, Cuttack
4. Arya S, Nanda S, Duggal R, Bhatia R. Orthodontic pain alters thermal sensitivity of masseter muscle during fixed orthodontic therapy, LXIIIrd Annual National Conference of Association of Physiologists and Pharmacologists of India, 12 October 2017, Puducherry
5. Badhwar S, Yadav K, Chandran DS, Jaryal AK, Narang R, Patel C, Deepak KK. Association between cardiac autonomic tone and baroreflex sensitivity in patients with recent myocardial infarction, LXIIIrd Annual Conference of Association of Physiologists and Pharmacologists of India, 10-14 October 2017, Puducherry
6. Batabyal T, Muthukrishnan SP, Sharma R, Tayade P, Kaur S. Faces are difficult to comprehend and disrupt semantics processing in Emotional Interference Task, LXIIIrd Annual Conference of Association of Physiologists and Pharmacologists of India, 12-14 October 2017, Puducherry
7. Batabyal T, Muthukrishnan SP, Sharma R, Tayade P, Kaur S. Neural substrates of emotional interference: A QEEG study, LXIIIrd Annual Conference of Association of Physiologists and Pharmacologists of India, 12-14 October 2017, Puducherry
8. Bhattacharyya S, Jain S. Effect in spinal reflexes and neuronal connectivity after low intensity electromagnetic field exposure in spinal cord injured rats as an intervention, International Brain Research Organization, Asia Pacific Regional Committee Associate School, 5-10 June 2017, Shillong
9. Bhattacharyya S, Jain S. Magnetic field exposure in animal studies, Hands on training workshop on Transcranial Magnetic Stimulation: A non-invasive therapeutic strategy for neurological disorders, 28 October 2017, Cuttack

10. Bhattacharyya S, Jain S. Effect of low intensity electromagnetic field exposure on spinal reflexes and neuronal connectivity of spinal cord injured rats, Singapore Associate School of Neuroscience, 3-7 July 2017, Singapore
11. Bir M, Gupta U, Patel SK, Netam R, Singh A, Kedia S, Borkar S, Kale SS, Chandran D, Rath GP, Jaryal AK. D Wave is better than TcMEP (Transcranial Motor Evoked Potential) for intraoperative monitoring of motor tract during neurosurgery of spine, LXIIIrd Annual National Conference of Association of Physiologists and Pharmacologists of India, APPICON 2017, 12 October 2018, JIPMER
12. Bose S, Jain S. TMS in animal models of neurological disorders, Preconference Workshop: LXIII Annual National Conference of Association of Physiologists and Pharmacologists of India, 10 October 2017, Puducherry
13. Chacko SG, Ahuja N, Pegwal N, Tayade P, Kaur S, Sharma R. Surface Laplacian of spherical spline improves the classification accuracy for mu rhythm based brain computer interface, LXIIIrd Annual Conference of Association of Physiologists and Pharmacologists of India, 12-14 October 2017, Puducherry
14. Chakraborty A, Bhattacharyya S, Sharma MC, Jain S. Effect of electromagnetic field stimulation on muscle morphology and contractility of spinal cord injured rats, XXXV Annual Conference of Indian Academy of Neurosciences, 29-31 October 2017, Cuttack
15. Chandran DS, Yadav K, Mane V, Asati MK, Taneja NC, Jaryal AK, Deepak KK. Development of web based Heart Rate Variability (HRV) analysis platform to establish centralized database of HRV and ancillary cardiovascular health parameters, The First World NCD Congress, 4 November 2017, Chandigarh
16. Chitturi V, Ahuja N, Kaur S, Sharma R. Cortical processing of music involves differential hemispheric lateralization of Theta and Alpha EEG bands, LXIIIrd Annual Conference of Association of Physiologists and Pharmacologists of India, 12-14 October 2017, Puducherry
17. Christa SE, Srivastava P, Jaryal AK, Roy A, Chandran DS, Deepak KK. Heart rate variability in MI patients: Comparison of single and multivessel disease, LXIIIrd Annual Conference of Association of Physiologists and Pharmacologists of India, 10-14 October 2017, Puducherry
18. Das A, Kumar D, Velayudhan MK, Mallick HN. Ambient temperature induces change in REM sleep in Rats, Silver Jubilee Conference of Indian Society for Sleep Research, 22-23 September 2017, Panaji
19. Dubey M, Sharma R, Tayade P, Kaur S. Effect of semantic association on audio-visual interaction, LXIIIrd Annual Conference of Association of Physiologists and Pharmacologists of India, 12-14 October 2017, Puducherry
20. Gupta U, Bir M, Patel SK, Singh A, Netam R, Singh MM, Tandon V, Sawarkar DP, Mehta N, Rath GP, Jaryal AK. High Frequency Monopolar Stimulation Protocol is better than Bipolar Stimulation for Intraoperative Identification of Motor Cortex during Neurosurgery, LXIIIrd Annual National Conference of Association of Physiologists and Pharmacologists of India, APPICON 2017, 12 October 2018, JIPMER
21. Jha S, Yadav RK, Dada T, Netam R, Sharma HB, Patel SK. Impact of Yoga including Tratak Kriya on intraocular pressure in glaucoma patients, LXIIIrd Annual National Conference of Association of Physiologists and Pharmacologists of India, 12-14 October 2017, Puducherry
22. Joshi I, Mattoo B, Tanwa S, Mohan V, Bhatia R. Conditioned pain modulation as a tool to study diffuse noxious inhibitory controls in trigeminal neuralgia patients, LXIIIrd Annual National Conference of Association of Physiologists and Pharmacologists of India, 12 October 2017, Puducherry
23. Joshi I, Mattoo B, Suman Tanwar S, Mohan V, Bhatia R. Diffuse noxious inhibitory controls in trigeminal neuralgia patients, XXXIII Annual National Conference of the Indian Study for Pain, 3 February 2018, New Delhi
24. Kumar A, Kumaran SS, Bhatia R. Targeting motor cortex with neuronavigated repetitive Transcranial Magnetic Stimulation in management of chronic migraine, LXIIIrd Annual National Conference of Association of Physiologists and Pharmacologists of India, 12 October 2017, Puducherry
25. Mattoo B, Tanwar S, Jain S, Bhatia R, Tripathi M, Bhatia R. Low-frequency repetitive transcranial magnetic stimulation as a therapeutic intervention in chronic tension-type headache: A randomized control study, LXIIIrd Annual National Conference of Association of Physiologists and Pharmacologists of India, 12 October 2017, Puducherry
26. Mirdha M, Das A, Akhtar N, Mallick HN. Correlation of snoring intensity with severity of obstructive sleep apnea, Silver Jubilee Conference of Indian Society for Sleep Research, 22-23 September 2017, Panaji
27. Mirdha M, Mallick HN, Tiwari VK, Viswakarma LC, Akhtar N, Nanda RK. Effects of body mass index on sleep quality and sleep disturbances, World Sleep 2017, 9-11 October 2017, Prague
28. Nath SS, Mallick HN, Akhtar N. Intracerebral glutamate injection at lateral mediodorsal thalamic nuclei produces wakefulness, Silver Jubilee Conference of Indian Society for Sleep Research, 22-23 September 2017, Panaji
29. Netam RK, Bir M, Gupta U, Patel SK, Singh A, Mehta N, Rath GP, Kale SS, Singh MM, Chandra PS, Jaryal AK. Intraoperative elicitation of D wave and TcMEP in patients with preoperative neurological deficits undergoing spine surgeries, The Second Indian Course on Intraoperative Neurophysiology in Neurosurgery, 22 February 2018, Kolkata

30. Pal A, Mehta N, Sharma R. Resting state modulations of EEG low frequency bands in Parkinson's Disease, Movement Disorder Congress, 4-8 June 2017, Vancouver
31. Pegwal N, Yadav R, Nehra A, Sharma R. Emotional processing requires increased synchronization in Gamma oscillations, LXIIIrd Annual Conference of Association of Physiologists and Pharmacologists of India, 12-14 October 2017, Puducherry
32. Pragma P, Pandey RM, Netam R, Yadav RK. Association of Vitamin D levels with metabolic syndrome in Indian overweight/obese adults, International Congress of Diabetes and Metabolism 2017, 28-30 September 2017, Seoul
33. Pragma P, Jaiswal U, Netam R, Aggrawal S, Yadav RK. Selected gut peptides and blood glucose levels following bariatric surgery in morbid obesity, XXII World Congress, International Federation for the Surgery of Obesity and Metabolic Disorders, 29 August-2 September 2017, London
34. Puskar P, Nath SS, Das A, Akhtar N, Mallick HN. Intracerebral microinjection of endocannabinoid dose standardization for effects on sleep wakefulness, Silver Jubilee Conference of Indian Society for Sleep Research, 22-23 September 2017, Panaji
35. Rengarajan P, Chandran D S, Khuntia BK, Prasher B, Mukerji M, Jaryal AK, Deepak KK. Poincare Plot Descriptors in HRV of Healthy Individuals—Ayurvedic Prakriti Based Understanding, LXIIIrd Annual Conference of Association of Physiologists and Pharmacologists of India, 10-14 October 2017, Puducherry
36. Netam R, Bir M, Gupta U, Patel S, Singh A, Mehta N, Rath G, Kale S, Singh M, Chandra P, Jaryal A. Intraoperative elicitation of D wave and TcMEP in patients with preoperative neurological deficits undergoing spine surgeries, The Second Indian Course on Intraoperative Neurophysiology in Neurosurgery Park Clinic, Kolkata, 22-24 February 2018, Kolkata
37. Bhattacharyya S, Jain S. Axonal regeneration and functional connectivity after repetitive magnetic stimulation in spinal cord injured rat, XXXV Annual Conference of Indian Academy of Neurosciences, 29-31 October 2017, Cuttack
38. Sakshi S, Badhwar S, Chandran DS, Jaryal AK, Deepak KK. Comparison of Low Flow Mediated Constriction (LFMC) of Radial Artery between Dominant and Non Dominant Arms of Healthy Human Adults, LXIIIrd Annual Conference of Association of Physiologists and Pharmacologists of India, 10-14 October 2017, Puducherry
39. Sampath M, Talwar A, Jaryal AK, Srivastava A, Goyal V, Deepak KK. Assessment of Heart Rate Variability in Parkinson's Disease: Relation to Disease Severity, LXIIIrd Annual Conference of Association of Physiologists and Pharmacologists of India, 10-14 October 2017, Puducherry
40. Sampath M, Bade, Trivedi A, Akhtar N, Talwar A. Impulse oscillometry: A diagnostic tool for assessment of respiratory system impedance, Upcoming Trends in Clinical Physiology: An overview, 25 November 2017, Chandigarh
41. Samanchi R, Dada T, Kaur S, Mehta N, Sharma R. Visual attention in Glaucoma, LXIIIrd Association of Physiologists and Pharmacologists of India, 12-14 October 2017, Puducherry
42. Sharma B, Vishwakarma LC, Das A, Akhtar N, Nag TC, Mallick HN. Effect of sleep deprivation on hypothalamic, body and muscle temperatures in Rats, Silver Jubilee Conference of Indian Society for Sleep Research, 22-23 September 2017, Panaji
43. Shivangi S, Vinit, Badhwar S, Chandran DS, Jaryal AK, Deepak KK. Relationship between cerebral blood flow velocity and arterial blood pressure during spontaneous and induced oscillations in Arterial Blood Pressure, LXIIIrd Annual Conference of Association of Physiologists and Pharmacologists of India, 10-14 October 2017, Puducherry
44. Singh A, Gupta U, Bir M, Patel SK, Netam K, Mehta N, Rath GP, Kale SS, Singh MM, Tandon V, Jaryal AK. Comparison of high frequency monopolar and bipolar direct cortical stimulation protocols for motor mapping during neurosurgeries, The Second Indian Course on Intraoperative Neurophysiology in Neurosurgery, 22 February 2018, Kolkata
45. Singh V, Shivangi, Prakash K, Jaryal AK, Deepak KK. Hypercapnia induced impairment of cerebral autoregulation as quantified by Autoregulatory Index, LXIIIrd Annual Conference of Association of Physiologists and Pharmacologists of India, 10-14 October 2017, Puducherry
46. Singh V, Shivangi, Prakash K, Jaryal AK, Deepak KK. Hypercapnia mediated impairment of dynamic cerebral autoregulation during transient hypotension, LXIIIrd Annual Conference of Association of Physiologists and Pharmacologists of India, 10-14 October 2017, Puducherry
47. Singh V, Roy A, MondaL S, Shivangi, Chandran D, Deepak KK. Cardiovascular response to transient hypotension induced by thigh cuff maneuver, LXIIIrd Annual Conference of Association of Physiologists and Pharmacologists of India, 10-14 October 2017, Puducherry
48. Soni S, Muthukrishnan SP, Sood M, Kaur S, Mehta N, Sharma R. Hyperactivation of left temporo-parietal regions shortens resting EEG microstates in schizophrenia, XLVIIrd Annual Meeting of Society for Neuroscience, 11-15 November 2017, Washington

49. Srivastava P, Edmin CS, Jyotsna VP, Jaryal AK, Chandran DS, Deepak KK. Long term effect of angiotensin converting enzyme inhibitor on Vascular and Endothelial Function in Type 2 Diabetes with Newly Diagnosed Hypertension, LXIIIrd Annual Conference of Association of Physiologists and Pharmacologists of India, 10-14 October 2017, Puducherry
50. Shival S, Jaryal AK, Deepak KK. Comparison of cardiovascular responses to valsalva maneuver and lower body negative pressure in Healthy Subjects, LXIIIrd Annual Conference of Association of Physiologists and Pharmacologists of India, 10-14 October 2017, Puducherry
51. Tamuli D, Kaur M, Jaryal AK, Srivastava AK, Deepak KK. Lateralization of heart rate variability parameters in Spinocerebellar Ataxia Patients, LXIIIrd Annual Conference of Association of Physiologists and Pharmacologists of India, 10-14 October 2017, Puducherry
52. Tayade P, Soni S, Kaur S, Sharma R. Mapping of EEG microstate in young adults in eye closed resting conditions, The XXXV Annual Meet of Indian Academy of Neuroscience (IAN), 29-31 October 2017, Cuttack
53. Talwar A, Akhtar N, Sampath M, Bade G, Trivedi A, Guleria R. Evaluation of impulse oscillometry in patients with sarcoidosis, XXVIth International Congress of European Respiratory Society, 12 September 2017, Milan
54. Tanwar S, Mattoo B, Uma Kumar U, Bhatia R. Role of Repetitive Transcranial Magnetic Stimulation in Reducing Chronic Pain and its Modulation in Fibromyalgia, XXXIIIrd Annual National Conference of the Indian Study for Pain, 3 February 2018, New Delhi
55. Tiwari VK, Nanda S, Kumar U, Kumaran SS, Bhatia R. Localization of DLPFC using scalp landmarks versus fMRI-guided neural navigation, LXIIIrd Annual National Conference of Association of Physiologists and Pharmacologists of India, 13 October 2017, Puducherry
56. Tiwari VK, Mirdha M, Mallick HN, Bhatia R, Jain S, Sharma R, Kumar U. Sleep impairments in patients of fibromyalgia, World Sleep 2017, 9-11 October 2017, Prague
57. Trivedi A, Bade G, Talwar A, Ghosh D, Guleria R, Akhtar N. Putative roles of Eosinophils in Chronic Obstructive Pulmonary Disease, XXVI International congress of European Respiratory Society, 12 September 2017, Milan
58. Trivedi A, Aloria M, Sampath M, Arvind A, Bade G, Talwar A. Respiratory system impedance with impulse oscillometry in relation to waist circumference, LXIIIrd Annual Conference of Association of Physiologists and Pharmacologists of India, 13 October 2017, Puducherry
59. Vishwakarma LC, Binney S, Das A, Jaryal AK, Mallick HN. Effect of REM sleep deprivation on hypothalamic and cortical temperature in Rats, Silver Jubilee Conference of Indian Society for Sleep Research, 22 September 2017, Panaji
60. Vishwakarma LC, Das A, Sharma B, Mirdha M, Jaryal AK, Mallick HN. Effect of sleep deprivation on hypothalamic, cortical and body temperature in rats, World Sleep 2017, 9-11 October 2017, Prague

RESEARCH

Funded projects

Ongoing

1. Acute effects of slow breathing on cardiovascular variability during head up tilt, head down tilt and lower body negative pressure in naïve healthy subjects and trained yoga practitioners, K.K. Deepak, AYUSH, 3 years, 2016-2018, Rs 66.75 lakhs
2. Transcriptomic landscaping for endometriosis from Genome-Wide Analysis (GWA) of expression arrays, Debabrata Ghosh, DST, 3 years, 2015-2018, Rs 47.37 lakhs
3. Molecular basis of estrogenism in endometriosis, Debabrata Ghosh, DST, 3 years, 2016-2019, Rs 49.72 lakhs
4. EEG microstate and phase coherence correlates of cognitive deficits in Parkinson's Disease, Ratna Sharma, ICMR, 3 years, 2016-2019, Rs 2.28 lakhs
5. Efficacy of yoga as an adjunct therapy to modify fatigability and stress in breast cancer patients: A randomized controlled trial, Raj Kumar Yadav, AIIMS, 2 years, 2016-2018, Rs 5 lakhs
6. Effect of Transcranial Magnetic Stimulation on pain modulation in trigeminal neuralgia patients, Renu Bhatia, AIIMS, 1 year, 2017-2018, Rs 4 lakhs
7. Effect of Yoga on pain status and corticomotor excitability in chronic low back pain patients, Renu Bhatia, DST SATYAM, 3 years, 2017-2020, Rs 22.62 lakhs
8. QEEG based neural correlates and microstates of attention and interference in ADHD: An endophenotypic marker, Simran Kaur, CSRI, DST, 1 year, 2017-2018, Rs 11.96 lakhs
9. Study of cortical sources and brain iron levels during rest and visuospatial working memory in attention deficit hyperactive disorder, Simran Kaur, DHR, 1.5 years, 2017-2019, Rs 11.54 lakhs

10. QEEG based neural correlates of perceptual dominance, Simran Kaur, AIIMS, 2 years, 2017-2018, Rs 6.74 lakhs
11. Study of EEG microstates and resting state networks in relaxed wakefulness, Prashant Tayade, AIIMS, 2 years, 2016-2018, Rs 9.9 lakhs
12. To study the relationship between components of Renin angiotensin aldosterone system and vascular functions following angiotensin converting enzyme inhibition in Type 2 diabetes patients with newly diagnosed hypertension, Dinu S Chandran, AIIMS, 1 year, 2016-2017, Rs 4.6 lakhs
13. Continuous noninvasive blood pressure waveform measuring device for cardiovascular health, Dinu S Chandran, BIRAC, 1.5 years, 2018-2019, Rs 5.88 lakhs
14. Effect of endocannabinoid at the medial septum on sleep wakefulness, Nasreen Akhtar, AIIMS, 1 year, 2016-2017, Rs 4.2 lakhs
15. Cardio-respiratory and hormonal responses to oscillatory lower body negative pressure in healthy subject, Akanksha, AIIMS, 1 year, 2017-2018, Rs 4.6 lakhs
16. Comparison of inflammatory and oxidative stress markers in exhaled breath condensates of smoker and biomass smoke exposed COPD, Geetanjali Bade, AIIMS, 2 years, 2017-2019, Rs 8.89 lakhs
17. Effect of Hypothalamic Inflammation on Glucose Sensing Neurons in Arcuate Nucleus in High Fat Diet Induced Obesity Rat Model, Ritesh Netam, AIIMS, 1 year, 2017-2018, Rs 5 lakhs

Completed

1. Correlation of angiographic score with Framingham risk score, vascular and autonomic function parameters in coronary artery disease patients, K.K. Deepak, CSIR, 3 years, 2015-2018, Rs 23.18 lakhs
2. Genome-wide gene profiling using array based comparative genomic hybridization and global gene transcript profiling of respiratory tract macrophages in stable COPD patients, Anjana Talwar, DST, 4 years, 2013-2017, Rs 50 lakhs
3. A study of psychoneuroimmunological correlates of Fibromyalgia: Effect of Transcranial Magnetic Stimulation, Renu Bhatia, AIIMS, 1 year, 2016-2017, Rs 2.85 lakhs
4. Emotion dependent modulation of Interference: A QEEG study, Simran Kaur, AIIMS, 1 year, 2016-2017, Rs 4.25 lakhs

Departmental projects

Ongoing

1. Effect of physiological challenges on regional brain temperature in Rats
2. Role of mediodorsal thalamic nuclei in Sleep
3. Role of the lateral septal nuclei in sleep in Rats
4. Neuromuscular changes in Sleep and Sleep Deprivation
5. Polysomnographic studies of the effect of pranayamas on various physiological functions
6. Molecular basis of estrogenism in Endometriosis
7. A study of transcriptomic landscape of ovarian endometriosis
8. A neoplastic potential of endometrial stromal cells in endometriosis
9. Endometrial telomerase reverse transcriptase protein expression in ovarian endometriosis
10. Quantitative EEG correlates of positive, negative and neutral affect on cognitive functions and associated psychological stress response
11. Quantitative EEG correlates of visuo-spatial working memory in Schizophrenia
12. Neural correlates of cognitive performance in Glaucoma: A quantitative EEG study
13. Neural processing of congruency and affective valence during binocular rivalry: A QEEG study
14. Brain computer interface based on EEG data of motor imagery
15. EEG microstates of perceptual reversals of emotional stimuli in schizophrenia during binocular rivalry
16. To study the therapeutic effect of superparamagnetic iron oxide nanoparticles implantation and magnetic field stimulation on motor, cognitive in a 6-OHDA rat model of Parkinson's Disease
17. Neuroregeneration following implantation of iron oxide nanoparticle along with magnetic field exposure in Spinal Cord Injured Rats
18. Cortical reorganization in complete spinal cord injured rats: Effect of superparamagnetic nanoparticles and low intensity magnetic field exposure

19. A morphological and functional study on intracerebroventricular streptozotocin induced rat model of Alzheimer's Disease: Effect of magnetic field stimulation
20. Muscle regeneration in complete Spinal Cord Injury: Effect of Iron Oxide Nanoparticle Implantation along with Magnetic Field exposure in Rats
21. Genomic expression and protein profile correlates of peripheral blood mononuclear cells in obesity after yoga-based lifestyle intervention
22. Effects of short-term Yoga-based lifestyle intervention on Hypothyroidism: A Randomized Controlled Trial
23. Effect of short-term Yoga-based lifestyle intervention on stress, airway resistance and inflammation in bronchial asthma patients: A Randomized Controlled Trial
24. Comparative study of Yoga and knee strengthening exercises on Osteoarthritis Knee: A Randomized Controlled Trial
25. Understanding the pathophysiology of endometriosis by protein profiling and its correlation with stress
26. Effect of Vitamin D supplementation on pancreatic beta cell functions in obese Indian subjects: A Randomized Controlled Trial
27. Evaluation of autonomic tone, vascular and endothelial functions in myocardial infarction patients undergoing Yoga based cardiac rehabilitation
28. Acute effects of slow breathing on cardiovascular variability during head-up tilt, head down tilt and lower body negative pressure in naïve healthy subjects and trained Yoga practitioners
29. Quantitative EEG correlates of emotion induced changes in cognitive performance in healthy volunteers
30. Molecular basis of cationic anti-microbial peptide action on Human Placental Cytotrophoblast Cells
31. A study of pain status and corticomotor excitability in chronic low back pain patients: Effect of Transcranial Magnetic Stimulation
32. The effect of neuronavigation-based rTMS therapy on corticomotor excitability and cognitive functions in fibromyalgia patients
33. The effect of motor imagery on pain status and corticomotor excitability in rheumatoid arthritis patients
34. Effect of repetitive transcranial magnetic stimulation on pain status, thermal sensitivity and motor activity in myofascial pain dysfunction syndrome
35. Default mode network of addictive disorders: A Quantitative EEG Study
36. To study radial artery low flow mediated constriction in response to shear modulation by graded supra-systolic occlusion
37. Study of vascular mechanisms underlying augmentation of brachial artery retrograde shear in response to graded cuff pressure over forearm
38. Study of QEEG correlates of Visuospatial complexity in Hindi Language
39. Quantitative EEG correlates of 'OM' chanting

Completed

1. Comparison of monopolar and bipolar stimulation for cortical motor mapping in Neurosurgery
2. Comparison of D wave and m-MEP based intraoperative neuromonitoring in Spinal Cord Surgeries
3. Low flow mediated constriction in brachial and radial arteries and its comparison in dominant and non-dominant arms after correcting for the shear rate
4. Assessment of peripheral arterial compliance during graded lower body negative pressure
5. Effect of Transcranial Magnetic Stimulation on pain status modulation in fibromyalgia patients
6. Role of neuro-navigation based Transcranial Magnetic Stimulation on quantitative sensory testing and corticomotor excitability in chronic migraine patients
7. A study of conditioned pain modulation in trigeminal neuralgia patients
8. QEEG correlates of cross modal audio-visual interaction
9. To study the baroreflex contribution to Respiratory Sinus Arrhythmia
10. An in-vitro study of neoplastic potential of endometrial stromal cells in endometriosis

Collaborative projects

Ongoing

1. Interventions for stigma for persons with epilepsy in India, Neurology
2. Endothelial dysfunction in young patients with non-alcoholic fatty liver disease, Medicine

3. Study of autonomic function in children and adolescents with specific learning disability, Psychiatry
4. A cross sectional study on autonomic function and cortical pain perception in Fibromyalgia, PMR
5. Investigation of heart-brain interactions during internally operative versus externally operative attention regulatory mechanisms, Department of Instrumentation and Control Engineering, Dr B.R. Ambedkar National Institute of Technology, Jalandhar, Punjab
6. Characterization of dynamic interaction between cardiovascular and respiratory signal during Autonomic Stimulation, Department of Instrumentation and Control Engineering, Dr B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab
7. Development of countermeasure gravity loading bodysuit and its potential association with cardiovascular and muscular system, Department of Instrumentation and Control Engineering, Dr B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab
8. Isolation and molecular characterization of colorectal cancer stem cells (DBT), Biochemistry
9. Nutritional profile and lifestyle of Indian women (18-40 years) with infertility, Lady Irwin College, Delhi University
10. A study of the functional brain activation and electro-physiological spectral analysis in catatonia, Psychiatry
11. A study of brain activation using functional near infrared spectroscopy and quantitative electroencephalographic spectral analysis in depression, negative and positive schizophrenia, Psychiatry
12. Evaluation of the effect of mind fulness based stress reduction in patients with advanced glaucoma, Dr RP Centre
13. A study for determination of allocentric neural navigation process schematic utilizing dynamic optic array for prospective control, Psychiatry
14. Study of cognitive function in patients with chronic kidney disease and the effect of renal transplantation, Nephrology
15. To study the changes in Bereitschafts Potentials or Movement Related Cortical Potentials in Fibromyalgia Syndrome, Psychiatry and PMR
16. Comparative assessment of cognition, default mode networks and analysis of psychosocial behavior and lifestyle, between obese and post-bariatric surgery groups of patients, Surgery
17. Blood heavy metal levels and quantitative EEG correlates in children with autism, Pediatrics
18. Identification of biomarkers in Parkinson's Disease using NMR, NMR
19. Study of clock genes in rat model of mania-like behavior, Neurology
20. Effect of repetitive magnetic field stimulation on neurogenesis in streptozotocin induced rat model of Alzheimer's Disease, Biotechnology
21. A randomized, double-blind, placebo-controlled, split-head trial to study the effects of autologous platelet-rich plasma on hair growth and lesional T-helper and T-regulatory cells expression markers in alopecia areata, Dermatology and Venerology
22. Delhi glaucoma epidemiology study, RP Centre for Ophthalmic Sciences
23. Evaluation of effect of mindfulness based stress reduction in patients with primary open angle glaucoma, RP Centre for Ophthalmic Sciences
24. Effect of Yoga-based intervention on intraocular pressure, quality of life, inflammatory markers and gene expression profile in glaucoma patients: A randomized controlled trial, RP Centre for Ophthalmic Sciences
25. Impact of nutritional and lifestyle modification in subjects with BMI 25-29.9 kg/m² vs 30-34.9 kg/m² and to assess the effect of bariatric surgery in BMI \geq 35 kg/m², Surgical Disciplines
26. Impact of supervised diet and lifestyle modifications on weight loss, body fat distribution and insulin resistance in adult Indian obese patients, Surgical Disciplines
27. Role of cytokine levels in recurrent pregnancy loss and effect of progesterone on cytokine levels, Obstetrics and Gynaecology
28. Effect of yoga based lifestyle intervention on biomarkers of cellular aging in patients with depression, Anatomy
29. Role of Yoga based intervention as an adjunct in improving quality of life of glaucoma patients, RP Centre for Ophthalmic Sciences
30. Study of potential modulator targeting pathways involved in the hyperphosphorylation of tau in Alzheimer Disease, Biophysics
31. A pilot study of the role of Intercessory Prayer in determining the outcome after severe traumatic brain injury, Department of Neurosurgery, RML, New Delhi; Department of Neurosurgery, AIIMS, New Delhi
32. Central serous chorio-retinopathy and meditation: Functional and morphological outcome study, RP Centre for Ophthalmic Sciences

33. Efficacy of a family based comprehensive Yoga program for weight reduction among overweight children and adolescents, Pediatrics
34. Impact of Yoga and meditation on epigenetic profile in rheumatoid arthritis, Anatomy
35. Feasibility of introducing Structured Yoga Program and its effect on Stress and Perceived Well-being on New Medical Under-Graduate Students of AIIMS, Centre for Community Medicine, New Delhi
36. A study of Impulse Oscillometry in Sarcoidosis, Pulmonary Medicine
37. A study of respiratory impedance, resistance and reactance in Interstitial Lung Disease, Pulmonary Medicine
38. Role of Regulatory T Cells in COPD, Pulmonary Medicine
39. Transcriptomic basis of COPD, Pulmonary Medicine
40. Cardiac autonomic tone and reactivity in patients with alcohol use disorders undergoing treatment of acute withdrawal symptoms, Psychiatry and NDDTC
41. Assessment of autonomic function across frailty status in Indian elderly, Geriatric Medicine
42. A study of autonomic functions in adolescents with specific learning disorder (Dyslexia) with and without Comorbid ADHD, Psychiatry
43. Unique aspects of idiopathic hypoparathyroidism, Endocrinology and Metabolism
44. Association of lean mass, muscle strength and physical performance with diabetes and metabolic parameters, Medicine
45. Endothelial dysfunction in young patients with non-alcoholic fatty liver disease, Medicine
46. Comparison of propofol and ketofol on transcranial motor evoked potentials in patients undergoing thoracolumbar spine surgery, Neuroanaesthesiology and Critical Care

Completed

1. Isolation and molecular characterization of human bone marrow derived mesenchymal stem cells, Biochemistry
2. Differential Pre Frontal Cortex (PFC) activation for Attention Deficit Hyperactive Disorder (ADHD) patients and control group in response to emotional stimuli: A Functional Near Infrared Spectroscopy (fNIRS) study, Department of Psychology, University of Delhi
3. An exploratory study with a purpose of finding a relationship between stress and pain perception/modulation in context of presence or absence of anxiety, Department of Psychology, University of Delhi
4. A study of Impulse Oscillometry in Sarcoidosis, Pulmonary Medicine
5. Expression analysis of potential micro RNAs in tuberculosis, Medicine
6. Impact of local endometrial injury on the outcome of IVF cycle with previous failed implantation: Exploring the genome wide transcriptomic basis, Obstetrics and Gynecology
7. Differential Pre Frontal Cortex (PFC) activation for Attention Deficit Hyperactive Disorder (ADHD) patients and control group in response to emotional stimuli: A Functional Near Infrared Spectroscopy (fNIRS) study, Department of Psychology, University of Delhi
8. A study of respiratory impedance and heart rate variability in Parkinson's Disease, Neurology
9. Effect of exercise intervention on bone mineral density in Cystic Fibrosis patients aged 6-18 years, Pediatrics
10. In-vitro generation of induced T-regulatory cells in COPD, Pulmonary Medicine
11. Effect of two anaesthetic regimes with dexmedetomidine as adjuvant on transcranial electrical motor evoked potentials during spine surgery: A pilot study, Neuroanesthesia and Critical Care

PUBLICATIONS

Journals: 27

Abstracts: 55

Chapters in Book: 1

Book: 1

PATIENT CARE

Autonomic Function Lab and Vascular Function Lab provide diagnostic facility for referred patients. The labs provide routine test of autonomic reactivity along with autonomic tone quantification and non-invasive recording of gastric motility (Electrogastrography, EGG). A total number of 858 humans have been tested for autonomic function test this year, which included 841 patients and 17 healthy subjects.

Intraoperative Neurophysiology. Intraoperative neuro-monitoring support was provided to Department of Neurosurgery, CTVS, Orthopedics and Trauma Center. A total of 410 surgeries were supported.

Cognitive Neurophysiology Lab provided body composition analysis to obese patients and staff (323). Wireless monitoring of physiological variables and pain sensitivity in 50 patients of Fibromyalgia, 12 patients of obesity 14 cases of neuro

developmental disorders and 10 patients of anxiety disorders. Visual tracking in infantile nystagmus syndrome was done for 17 patients of childhood obesity and 44 adult obese patients. Measurement of cerebral hemodynamics by infrared neuroimaging in 21 glaucoma, 14 ADHD and 10 anxiety patients.

Body composition analysis of patients of Metabolic Syndrome (Department of Endocrinology) and AIIMS staff (about 2500 assessments per year).

Integral Health Clinic

A total of 486 subjects (with follow-up visits) were enrolled and benefited at IHC during the year 2017-2018. This includes patients of chronic diseases (like diabetes, obesity, cardiovascular diseases, chronic depression, etc.) and referred patients from different departments of AIIMS (Cardiology, R.P.C. for Ophthalmic Sciences, Endocrinology and Metabolism, Pulmonary Medicine, Surgical Disciplines, Psychiatry, Orthopedics, etc.)

Pain Research and TMS Laboratory

240 rTMS sessions given at Motor cortex/Dorsolateral prefrontal cortex to chronic pain patients. Pain and somatosensory assessment of 110 chronic pain patients (chronic migraine, chronic low back pain trigeminal neuralgia, fibromyalgia, rheumatoid arthritis and orthodontic pain) was done. EMG recordings of pericranial and cervical muscles done for 20 patients. Somatosensory evaluation and MEP recording of 90 healthy volunteers was also conducted. Patients were referred from Rheumatology, CDER, Physical Medicine and Rehabilitation and Neurology Clinics.

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor K.K. Deepak was member of an Expert Committee for Standardization of Curriculum and Admission Qualifications for various courses in the universities identified for funding, Ministry of Sports and Youth Affairs, GoI; Chief Election Commissioner, FAIIMS Election 2017, AIIMS New Delhi; Member EAG on Biomedical Device and Technology Development, DST, GoI; Member, Board of Studies of the Department of Paramedical Sciences, School of Nursing Sciences and Allied Health, Jamia Hamdard, Delhi; Chairman, Committee for Procurement of Reception (Visitor) Management System for Examination Section, AIIMS; Executive member, Federation of Indian Physiological Societies (FIPS) since 2007; Member, Biomedical Device and Technology Development (BDTD) Expert Advisory Group (EAG) DST, GoI; Member, Armed Forces Medical Research Committee (AFMRC) under the Defence Research and Development Organization (DRDO), Ministry of Defence, GoI; Member, National Research Development Corporation (NRDC) Award Committee for innovation and inventions; Member, Task Force on 'Science and Technology of Yoga and Meditation' (SATYAM), DST, GoI; Member, Scientific Advisory Committee (SAC) of CCRYN, GoI; Member, Selection Committee for AIIMS, Rishikesh, NIMHANS, Bengaluru, Dr Baba Saheb Ambedkar Medical College and Hospital, Rohini, JIPMER, Puducherry, AIIMS Jodhpur and UPSC, GoI; Member, Talent Identification Committee for Sports, Ministry of Sports and Youth Affairs, GoI.

Professor H.N. Mallick was President of Asian Sleep Research Society for 2013-2018; President of Indian Society for Sleep research 2015-2017; Governing Council Member, World Sleep Society 2017-2021; Finance Secretary of Association of Physiologists and Pharmacologists of India; Member Governing Council World Sleep Society; MOU with Andhra Pradesh Government for setting sleep laboratory and advancing sleep medicine; Associate Editor Frontiers in Neurology/ Associate Editor Sleep and Vigilance; Reviewer for international journals; Member, Abstract Selection Committee, World Sleep 2017; Expert, Selection Committee of AIIMS Rishikesh, Bhubaneswar and Jodhpur.

Professor D. Ghosh chaired joint meeting of the Core Committee and the Local Organizing Committee on 5 February 2018 in AIIMS, Jodhpur; Attended the International Collaborative Workshop in Teaching Medical Physiology as an IUPS Outreach Program to be held from 18-25 March at Helsinki, Finland; Attended the joint meeting of the Scientific and Technological Cooperation and Collaboration in Research to be held from 12-17 March 2018 at Pavlov Institute of Physiology, St. Petersburg, Russia; Attended the 42nd FEBS Congress in Jerusalem, Israel during 10-14 September 2017; Attended the Selection Committee Meeting for the faculty recruitment for the Department of Physiology at AIIMS, Bhopal on 25 April 2017; Visiting scientist at Institute of Biomedical Problems of the Russian Academy of Sciences, State Scientific Center of the Russian Federation at Moscow, Russia on 14 March 2018; Participated in a meeting on the "Friends of Pavlov" meeting in the Pavlov Institute of Physiology, Russian Academy of Sciences, St. Petersburg on 16 March 2018 under the Chair of Professor Ludmila Filaretova; Participated in the Education workshop on PBL, TBL and FCR in Biomedicum, University of Helsinki organized by Professor Liisa Peltonen, Department of Physiology, University of Helsinki on 21-22 March 2018; Attended annual meeting of Finnish Physiological Society held in University of Helsinki on 23 March 2018.

Professor Kanwal Preet Kochhar was invited as Member National Committee, FICCI Centre for Innovation, Science and Technology Commercialization Ecosystem in India; Founder life membership of Indian Society of Nano Medicine (ISNM); Founder life Member of Indian Society of Clinical Nutrition (ISCN); Chairperson and to deliver valedictory address in an International Conference on "Family Well Being: A Global Perspective" held on 20-21 February 2018 in Department of Human Development and Family Empowerment, Bharati College, University of Delhi, New Delhi-110 058, Technical session on the Sub-Theme: Socio-Emotional Health in Life; Expert Speaker and Moderator of Panel Discussion in the

Faculty Mentor Sensitization Program-2017 held on 25 October 2017 at VMMC, New Delhi; Attended AIIMS-University of Michigan Research Methodology Basic and Advanced Course from Basic and Advanced, 15-18 November 2017 at AIIMS New Delhi; Speaker for 17th FERCAP International Conference and 5th FERCI National Conference and Pre-Conference Training from 19-22 November 2017 at AIIMS, New Delhi; Founder Member of HRIDAY to attend the Annual General Body Meeting (AGBM) held on 12 September 2017, at August Kranti Marg, New Delhi.

Professor Nalin Mehta was member of National Committee, FICCI Centre for Innovation, Science and Technology Commercialization Ecosystem in India; Founder life membership of Indian Society of Nano Medicine (ISNM); Founder life member of Indian Society of Clinical Nutrition (ISCN); Invited as Chairperson and to deliver Valedictory Address in an International Conference on “Family Well Being: A Global Perspective” held on 20-21 February 2018 in Department of Human Development and Family Empowerment, Bharati College, University of Delhi, C-4, Janakpuri, New Delhi-110 058, Technical Session on the Sub-Theme: Socio-Emotional Health in Life; Expert Speaker and Moderator of Panel Discussion in the Faculty Mentor Sensitization Program-2017 held on 25 October 2017 at VMMC, New Delhi; Attended the AIIMS-University of Michigan Research Methodology Basic and Advanced Course from Basic and Advanced, 15-18 November 2017 at AIIMS New Delhi; Speaker for 17th FERCAP International Conference and 5th FERCI National Conference and Pre-Conference Training from 19-22 November 2017 at AIIMS, New Delhi; Founder member of HRIDAY to attend the Annual General Body Meeting (AGBM) held on 12 September 2017, at August, Kranti Marg, New Delhi.

Professor Ratna Sharma received the AIIMS Excellence Research Award 2017, Certificate for Commendation awarded to Dr Ratna Sharma in recognition of her outstanding publication under the category: Basic research titled “Functional brain microstate predicts the outcome in a visuospatial working memory task”.

Professor Suman Jain was selected as member of assessment committee for regularization and assessment of performance of scientists at National Brain Research Centre, Manesar; Executive member of Indian Academy of Neurosciences; Nominated as Chairperson to conduct IAN-FAONS Symposium on “Neuroprotection and Neurorepair Strategies and Approaches” during 35th Annual Conference of Indian Academy of Neurosciences held at Ravenshaw University, Cuttack from 29-31 October 2017; External Expert to conduct PhD Public Defense by National Institute of Mental Health and Neurosciences, Bengaluru on 14 December 2017; External expert by DIPAS, for conduct of Doctoral Research Committee Meeting at DIPAS on 1 February 2017; Member of Research Advisory Committee of a PhD scholar by Nirma University, Ahmedabad; Adjunct faculty to National Brain Research Centre, Manesar, Haryana and Department of Biotechnology, AIIMS, New Delhi.

Professor Raj Kumar Yadav was member Editorial Board Annals of Yoga and physical therapy; Member Editorial Board International Journal of Clinical and Experimental Physiology (Wolters Kluwer Health); Member, Committee to Formalize Scientific Cadre, AIIMS, New Delhi; Member, AIIMS Students Benevolent Fund Committee for UG Students; Chaired a scientific session: Dr KG Nair Oration: Hypertension: Its impact on public health in India, during 27th National Conference of Indian Society of Hypertension, at India Habitat Centre, New Delhi, 1-3 September 2017; Finance Secretary, TIPS 2017, Techniques in Physiological Sciences for SAARC Nations, 6-8 December 2017 at AIIMS, New Delhi; General Secretary: FAIIMS: Faculty Association of AIIMS, New Delhi; Secretary, Association of Physiologists and Pharmacologists of India (APPI), Delhi chapter; Secretary, Faculty Club, AIIMS, New Delhi; Joint Secretary, Association of Physiologists of India.

Dr Renu Bhatia was member, International Association for Study of Pain (IASP); Panelist at Public Lecture and Panel Discussion on Scientific Basis of Yoga research for good health and patient care at AIIMS, New Delhi on 20 June 2017.

Dr Dinu S Chandran was member of American Physiological Society with primary affiliation to Cardiovascular Section.

Dr Nasreen Akhtar was Senior Editor, Special Issue of Indian Journal of Medical Specialties. Infections in the Tropics. Volume 8, No. 3, July-September 2017.

Students' Awards

1. Budur Krishnamurthy Travel Award on 5 September 2017 at Indian Society for Sleep Research Travel, Goa, India to following students:
 - a. Dr Vikas Kumar Tiwari (MD course)
 - b. Lalchandra Viswakarma (PhD course)
 - c. Preeti Pushkar (PhD course)
 - d. Sriji S Nath (PhD course)
2. Travel award (US\$ 1000) to PhD scholar Ms Pragati Pragya to attend International Congress of Diabetes and Metabolism, Seoul, Korea from 28-30 September 2017

3. The Dev Raj Bajaj Research Prize to PhD scholar Dr Siju George Chacko at Annual Conference of Association of Physiology and Pharmacology of India in 2017, for the best paper on the development of newer techniques/instrumentation in Physiology
4. Best paper award to PhD scholar Ms Meghashree Sampath at Conference on Upcoming Trends in Clinical Physiology: An overview on 25 November 2017, Chandigarh

Social Outreach Programmes

Media coverage (Television):

1. Dr KK Deepak was invited to address Youth of India on “How to remain fit” on Doordarshan in GEN NEXT- Fit India Program on 31 March 2018
2. Professor Raj Kumar Yadav as a medical expert in the live show ‘Good Evening India’ discussing on “Stress management during exams” on DD National channel on 5 March 2018

News paper

1. Dr KK Deepak views were published in Amar Ujala News paper “Dhyan aur yoga ne jamai dhak” on 6 March 2018 at Allahabad
2. Dr KK Deepak gave a talk for media person on usefulness of Yoga in National Health Conference at Media Auditorium
3. An article by Dr KK Deepak on “The Physiological Effects of Pranayama” was published in Employment News Paper on 17-23 June 2017; Vol. XLII No. 12

VISITING SCIENTISTS

1. Guest lecture by Dr Elad Fein, CEO iFEEL, Israel on Heart Rate Variability in Department of Physiology on 5 April 2017
2. Invited talk by Shri Shaunaka Rishi Das, Director of OCHS, Oxford, UK on 5 January 2018 at Department of Physiology, AIIMS, New Delhi. The talk was followed by a small round table meeting re including Humanity and Spirituality in the medical curriculum with special reference to palliative care end of life care bad news as well chaplaincy curriculum and also reducing conflict and stress in patients and clinicians
3. Guest lecture by Dr Deependra Kumar, International Institute of Integrative Sleep Medicine, University of Tsukuba on ‘Erasing bad memories during sleep’ on 18 September 2017, AIIMS, New Delhi
4. Guest lecture by Dr Ratna Sircar, Professor of Psychology, Albert Einstein College of Medicine, New York, USA on Neurobehavioral Consequences of Teenage Drinking, 13 January 2018, AIIMS New Delhi

9.33. Plastic, Reconstructive and Burns Surgery

Professor and Head
Maneesh Singhal

Assistant Professors
Shashank Chauhan

Raja Tiwari
Rajkumar Manas

Shamendra Anand Sahu
Rakesh Dawar

HIGHLIGHTS

The department was established in July 2015. The department now has 6 faculty members and 13 MCh residents. The monthly attendance in our outpatients has more than doubled over the past year. In addition to specialized clinics in hand and cleft, we have also started a Leprosy Clinic in collaboration with the Department of Dermatology. We have also started services for the creation of arteriovenous fistulas and reconstruction of oncological defects at the cancer centre. At trauma centre, we are providing the full spectrum of reconstructive surgeries including microvascular surgery and replants for trauma patients, along with a special clinic for evaluation of patients with brachial plexus injuries. The department has conducted cadaveric courses and a hands-on workshop for plastic surgery flaps. We have also started OPD at Ballabgarh for reaching to the rural population. We effectively managed the burn disaster at NTPC Power Plant in Unchahar, Rae Bareilly, for which patients were flown in from Lucknow. Thus we are capable of burn management even without dedicated burn facilities. There have been multiple presentations by our faculty and residents at various national conferences and we also successfully conducted the DNB exit exam at our centre. The future endeavours of the department include starting of a state of the Art Center for Burn Care and Reconstructive Surgery and a dedicated skin bank, and composite tissue allotransplantation program for hand and face transplant.

CMEs/Workshops/Symposia/National and International Conferences

Organized by the department

1. Management of acute and chronic wounds, CME in Advanced Wound Management, 27 April 2017, AIIMS, New Delhi
2. Plastic surgery cadaver flap dissection course, 13-14 May 2017, Cadaver Training and Research Facility (CTRF), JPN Apex Trauma Centre, New Delhi
3. Panel discussion on common plastic surgical problems, National Plastic Surgery Day Celebration, 15 July 2017, AIIMS, New Delhi
4. Microvascular surgery: 'Challenging the limits,' Clinical Grand Round, 1 August 2017, AIIMS, New Delhi
5. Management of a large composite chest wall defect, Clinical Combined Round, 1 August 2017, AIIMS, New Delhi
6. Basic principles of management of chronic wounds, CMET: Workshop on Wound Care and Pressure Sore Prevention, 8 August 2017, AIIMS, New Delhi
7. Basic principles of management of chronic wounds, CMET: Workshop on Wound Care and Pressure Sore Prevention, 3 October 2017, AIIMS, New Delhi
8. Management of lower extremity ulcers, CMET: Workshop on Wound Care and Pressure Sore Prevention, 12 December 2017, AIIMS, New Delhi
9. Total scalp replantation: 'Pushing the Boundaries of Microsurgery,' Clinical Combined Round, 6 February 2018, JLN Auditorium, AIIMS, New Delhi

Lectures delivered

Maneesh Singhal

1. Legal issues and basic management: First responder, First Responder Training Course, 30-31 March 2018, CTI, KEM Hospital, Bengaluru
2. First response to wounds, burns and splints, First Responder Training Course, 30-31 March 2018, CTI, KEM Hospital, Bengaluru
3. First response to medical emergencies, First Responder Training Course, 30-31 March 2018, CTI, KEM Hospital, Pune
4. Compression only life support, First Responder Training Course, 30-31 March 2018, CTI, KEM Hospital, Pune
5. Legal issues and basic management: First responder, First Responder Training Course, 5-6 March 2018, SIHFW, Bengaluru
6. First response to wounds, burns and splints, First Responder Training Course, 5-6 March 2018, SIHFW, Bengaluru
7. First response to medical emergencies, First Responder Training Course, 5-6 March 2018, SIHFW, Bengaluru
8. Compression only life support, First Responder Training Course, 5-6 March 2018, SIHFW, Bengaluru
9. Legal issues and basic management: First responder, Training of Trainers: First Responder Course, 26 February 2018, MoHFW, Munirka, New Delhi
10. First response to wounds, burns, and splints, Training of Trainers: First Responder Course, 26 February 2018, MoHFW, Munirka, New Delhi
11. First response to medical emergencies, Training of Trainers: First Responder Course, 26 February 2018, MoHFW, Munirka, New Delhi
12. Compression only life support, Training of Trainers: First Responder Course, 26 February 2018, MoHFW, Munirka, New Delhi
13. Pre-operative work up for bariatric surgery, BARIME, 1-2 December 2017, AIIMS, New Delhi
14. Flaps in neurotrauma patients, Neurotrauma Conference, 27 October 2017, AIIMS, New Delhi
15. Pan facial trauma, 8th Annual Conference of All India Difficult Airway Association, 8-10 September 2017, AIIMS, New Delhi

Raja Tiwari

1. Lateral arm flap, CTRF Flap Dissection Course, 13-14 May 2017, JPNATC AIIMS, New Delhi
2. Management of acute and chronic wounds, CMETi: Advanced Wound Management, 27 April 2017, AIIMS, New Delhi
3. Panel discussion on common plastic surgical problems, National Plastic surgery Day Celebration, 15 July 2017, AIIMS, New Delhi

4. Basic principles of management of chronic wounds, CMETi: Workshop on Wound Care and Pressure sore prevention, 8 August 2017, AIIMS, New Delhi
5. Basic principles of management of chronic wounds, CMETi: Workshop on Wound Care and Pressure Sore Prevention, 3 October 2017, AIIMS, New Delhi
6. Panel discussion Lymphedema-Myths and reality, ASOMA 2017, 9 October 2017, AIIMS, New Delhi
7. Management of lower extremity ulcers, CMETi: Workshop on Wound Care and Pressure Sore Prevention, 12 December 2017, AIIMS, New Delhi
8. Minimal access gynecomastia surgery, **Aesthetica Asia 2017**, 14 October 2017, New Delhi
9. Augmentation rhinoplasty in binders syndrome: The multicomponent costal cartilage reconstruction technique, AESURG ISAPS 2018, 3 February 2018, Udaipur
10. Upper extremity replantation: Where do we stand, PAP flap: Indications and outcomes in lower extremity reconstruction, ISRM 2018, 17 March 2018, Mumbai
11. Setting up a replantation centre in Indian scenario: Challenges and outcomes, APSICON 2017, 18 November 2017, Amrita Institute, Kochi
12. Minimal access gynaecomastia surgery: Past and future, APSICON 2017, 18 November 2017, Amrita Institute, Kochi

Shamendra Anand Sahu

1. NPWT and HBOT, Advance Wound Care Management Programme, 8 August 2017, CMET, AIIMS, New Delhi
2. NPWT and HBOT, Advance Wound Care Management Programme, 3 October 2017, CMET, AIIMS, New Delhi
3. NPWT and HBOT, Advance Wound Care Management Programme, 12 December 2017, CMET, AIIMS, New Delhi
4. NPWT and HBOT, Advance Wound Care Management Programme, 10 March 2018, CMET, AIIMS, New Delhi
5. Abdomen to knee: Pedicled anterolateral thigh flap, a close friend to reconstructive surgeons, APSICON 2017, 17 November 2017, Kochi
6. Reverse flow anterolateral thigh flap: Its usefulness in soft tissue reconstruction around knee, APSICON 2017, 16 November 2017, Kochi

Raj Kumar Manas

1. Radial artery forearm flap, AIIMS CTRF Flap Dissection Course, 13-14 May 2017, JPNATC, AIIMS, New Delhi
2. Pressure sore wound management, CMET Programme, 8 August 2017, AIIMS, New Delhi
3. Difficult wounds are not so difficult to manage—A plastic surgeons perspective with 10 different case scenarios, Wound Carecon 2017, 11th Annual Conference of Society of Wound Care and Research, 17 September 2017, Vishwa Yuvak Kendra, Chanakyapuri, New Delhi
4. Interdisciplinary management of vascular anomalies and role of plastic surgeons as captain of the ship, Samhita APSICON 2017, 52nd Annual Conference of Association of Plastic Surgeons of India, 19 November 2017, Kochi
5. DBSPF for foot and ankle reconstruction, APSICON 2018, Annual Conference of Plastic Surgeons of India, 16 November 2017, Kochi
6. Scalp replantation—Our experiences, ISRM, 2018, XIVth Biennial Conference of the Indian Society of Reconstructive Microsurgery, 17 March 2018, Mumbai
7. Controversy and consensus in primary cleft lip rhinoplasty, INDOCLEFTCON 2018, 17th Annual Meeting of Indian Society of Cleft Lip, Palate and Craniofacial Anomalies, 24 March 2018, Kolkata

Rakesh Dawar

1. Posterior interosseous artery flap, AIIMS CTRF Flap Dissection Course, 13-14 May 2017, JPNATC, AIIMS, New Delhi
2. Pressure sore wound classification and management, CMET Programme, 8 August 2017, AIIMS, New Delhi
3. Pressure sore wound classification and management, CMET Programme, 3 October 2017, AIIMS, New Delhi
4. Local flap for facial defect with geometry easy to learn, 2nd Aesthetica Asia, 26-29 October 2017, Port Blair, Andaman and Nicobar
5. Burn injury in admitted patient “never event,” 26th Annual Conference of the National Academy of Burns in India, 18-21 January 2018, Guwahati
6. Minimal access gynecomastia surgery, Aesurg-Isaps, 1-4 February 2018, Udaipur
7. Medial sural perforator flap: Excellent option for aesthetic and functional reconstruction for small defect of hand, ISRM, 2018, XIVth Biennial Conference of the Indian Society of Reconstructive Microsurgery, 18 March 2018, Mumbai

Oral papers/ posters presented

1. Marwah S, Manas R, Singhal M. The cleft rhinoplasty—Do types of cartilage grafts matter? CLEFTCON 2018, 24-25 March 2018, Kolkata
2. Marwah S, Manas R, Singhal M. Otolaryngologic assessment in CLP patients: Clinical prevalence, correlation, and screening, CLEFTCON 2018, 24-25 March 2018, Kolkata
3. Saha S, Manas R, Singhal M. Prevalence, pattern, and perception of cleft and palate at a tertiary care hospital in North India, CLEFTCON 2018, 24-25 March 2018, Kolkata
4. De M, Manas R, Singhal M. An institutional study of the soft tissue characteristics in cleft lip and palate cases, CLEFTCON 2018, 24-25 March 2018, Kolkata
5. Bhattacharya S, Manas R, Singhal M. Secondary alveolar bone grafting: How much can the radiographs predict? CLEFTCON 2018, 24-25 March 2018, Kolkata
6. Bhattacharya S, Manas R, Singhal M. Palatal fistulae: A comprehensive analysis of cases in a tertiary care center, CLEFTCON 2018, 24-25 March 2018, Kolkata
7. Dave A, Dawar R, Singhal M. Burn injury in admitted patients: ‘The never events’ and their prevention, APSICON 2017, 15-19 November 2017, Kochi
8. Sodhi M, Singhal M. Is profunda artery perforator flap promising for lower limb reconstruction? A comparison of ALT vs PAP flap for lower limb reconstruction, ISRM, 16-18 March 2018, Mumbai
9. Marwah S, Tiwari R, Singhal M. Microsurgical reconstruction of large post radical mastectomy chest wall defects, ISRM, 16-18 March 2018, Mumbai
10. Marwah S, Tiwari R, Singhal M. Free tissue transfer for paediatric lower limb defects: Challenges and outcomes, ISRM, 16-18 March 2018, Mumbai
11. Saha S, Singhal M. Aesthetics in breast reconstruction for Poland’s Syndrome: What we can achieve? BRASCON 2018, 2 February 2018, SGPGI, Lucknow
12. Nalla R, Singhal M. The integral role of plastic and reconstructive surgeon at a level 1 trauma centre—Analysis of initial experience gained from 1014 procedures., APSICON 2017, 15-19 November 2017, Kochi
13. Nalla R, Singhal M. Clinical, epidemiological and preventive aspects of pediatric mutilating hand injuries—Our experience at a level 1 trauma centre, Indian Society for Surgery of Hand Conference 2017, 21-23 September 2017, Mumbai
14. Kashyap N, Tiwari R, Singhal M. Scalp replantation: Rare injury, good outcome, APSICON 2017, 15-19 November 2017, Kochi

RESEARCH

Funded projects

Completed

1. Controlled clinical trial to assess the effectiveness of topical application of C1 herbal oil on superficial external wound and split-thickness skin graft donor’s site for surgical wound healing: Phase 1, Maneesh Singhal, CCRAS, Ministry of AYUSH, 2 years, 2015-2017, Rs 38.5 lakhs

Departmental projects

Ongoing

1. Liposuction-assisted subcutaneous mastectomy
2. A prospective study to evaluate the efficacy of fluorescent angiography in detection of nipple Areolar perfusion in patients undergoing reduction mammoplasty
3. Outcomes after breast cancer treatment: An international perspective
4. Soft tissue profile of patients with cleft lip and palate in the Indian population
5. Epidemiology of hand injuries in single center JPNATC, AIIMS, Retrospective and Prospective Study
6. Evaluation of the suitability and outcome of profunda artery perforator flap for different defects

Collaborative research

Ongoing

1. A clinical study on the investigation of caries risk in children with Cleft Lip and Palate (CL/P) and non-cleft control, CDER, Orthodontics
2. Controlled clinical trial to assess the effectiveness of topical application of C1 herbal oil on superficial external wounds and split-thickness skin graft donor: Phase 2, Ministry of AYUSH

3. Evaluation of soft tissue vascular anomalies using contrast ultrasound and ultrasound elastography, Radiodiagnosis, AIIMS
4. Artificial skin (Bio-inspired bi-layer polymeric hybrid scaffold) for burn injuries and trauma care, IIT, Delhi
5. Outcomes after breast cancer treatment: An international perspective, Department of Plastic Surgery, University of Michigan
6. Cleft lip and palate anomaly in India: Clinical profile risk factors and current status of treatment: A hospital-based study, CDER, Orthodontics
7. Reducing the burden of injury in India and Australia through development and piloting of improved systems of care, surgery, JPNATC
8. Project on capacity building for advanced trauma life support in India, Surgery, JPNATC
9. A randomized controlled trial to study the impact of Yoga intervention in lower limb amputees following trauma in relation to postsurgical outcome, behaviour and quality of life at the Level-1 trauma centre, DST
10. A device for personalized management of chronic wounds, SPARSH, BIRAC

PUBLICATIONS

Journals: 8

PATIENT CARE

Inpatient patient care facilities

- Hyperbaric Oxygen therapy facility
- Microvascular facility
- Hand and congenital anomalies surgery facility
- Craniofacial and cleft surgery
- Aesthetic surgery
- Head and neck reconstruction
- Trunk and extremity reconstruction

Clinics

- Combined Cleft Clinic
- Hand Clinic
- Aesthetic and Cosmetic Clinic
- Brachial Plexus Clinic
- Combined Leprosy Clinic

Community Service/Camps

- Organised a “Burn Prevention Awareness and Primary Aid Programme” at CHRPC, Ballbahgarh in which we delivered a public lecture for burn prevention, firecrackers and other types of burns and first aid management. About 200 patients and patient’s relatives attended the programme in OPD premises and got benefited for burns prevention awareness
- Started plastic surgery OPD services at CHRPS, Ballabhgarh every Tuesday
- Departmental participation in Leprosy Camp at TLM Hospital, Shahadra, New Delhi

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor Maneesh Singhal received appreciation letter for being a member of the Craniopagus Team, Awarded by Neurosurgery Team, AIIMS, 19 December 2017; Faculty at 1st World Congress of Reconstructive and Cosmetic Gynecology, Gurgaon, 6-8 October 2017; Panellist at the 8th Annual Conference of All India Difficult Airway Association, for a panel discussion on “Pan facial Trauma,” 10 September 2017; Member of Project Sanctioning Committee of Central Sector Scheme of AYUSH; Appointed by Rajasthan Government as an expert member of a committee to assess emergency care facilities at Jaipur and Beawer; Expert member of National Programme for Trauma Care, appointed by the Ministry of Health and Family Welfare, for developing State Action Plan; Member of the Stem Cells Ethics Committee and Post Graduate Ethics Committee, AIIMS; Reviewer BMJ Global Health and Wound Medicine; Expert in various committees at AIIMS Rishikesh; Expert in committee for starting MCh course and faculty selection at AIIMS Bhubhaneshwar; Member of evaluation committee in ICMR DBT SERB; Member of Joint Working Group Meeting in Ministry for Collaboration with Sweden in medical field; Committee member in Eye Care Stakeholder Standardization; Site assessor and examiner for DNB.

Dr Raja Tiwari participated as a team member of the Craniopagus Team, which successfully separated the two Craniopagus Twins. This surgery was done successfully for the first time in India. Actively helped in planning and execution of the plastic surgery of the two children; Invited as Faculty at Aesthetica Asia 2017, New Delhi; Invited as faculty and chairperson in Aesurg-Isaps 2018, Udaipur, Rajasthan; Invited as faculty at ISRM 2018, Mumbai.

Dr Shamendra Anand Sahu received certificate of appreciation for being a part of Craniopagus Team, Awarded by Neurosurgery Team, AIIMS, December 2017; Won first prize in oral paper presentation for “Is Profunda Artery Perforator Flap” promising for lower limb reconstruction? A comparison of ALT vs PAP flap for lower limb reconstruction at ISRM, Mumbai, 16-18 March 2018; Dr SP Bajaj Best Paper Award for ‘Salvage by Skin Allograft: Our experience with four unique cases’ at Woundcare Con 2017, 11th Annual Conference of the Society for Wound Care and Research, Vishw Yuvak Kendra, Chanakyapuri, New Delhi, India, 15-17 September 2017; EORTC BR 23 QUESTIONNAIRE: Acceptability in measuring the quality of life in breast surgery patients in India, BRASCON 2018, SGPGI, Lucknow, 2 February 218; First prize in Dr SK Bhatnagar Quiz Competition at APSICON 2017, Kochi, Kerala.

Dr Rakesh Dawar was invited as faculty and chairperson in Aesurg-Isaps, Udaipur, Rajasthan, and moderate session “technique of abdominoplasty”; Invited as faculty and Chairperson in 2nd Aesthetica Asia at Port Blair, Moderated session harvesting technique of melanocyte; Faculty and chairperson in 26th Annual Conference of the National Academy of Burns, in Indiana Bacon, and demonstrated various technique of burn wound assessment and prevention; Also moderated the session on burn management; Faculty and chairperson in ISRM 2018, XIV Biennial Conference of Indian Society of Reconstructive Microsurgery held in Mumbai to chair the session on General Microsurgery.

Dr Rajkumar Manas secured Kammmath Memorial Best Poster Award in National Annual Conference of plastic surgeons of India, APSICON 2017; Invited as faculty and Chairperson in 52nd Annual Conference of Plastic Surgeons of India, APSICON 2017 at Kochi; Moderated the session on “Head and Neck Reconstruction”; Invited as faculty and chairperson in Woundcarecon 2017, 11th Annual Conference of Society of Wound Care and Research in Delhi and demonstrated the various technique of wound management to nurses; Also moderated the session on wound care management; Invited as faculty and Chairperson in ISRM 2018, XIVth Biennial Conference of Indian Society of Reconstructive Microsurgery held in Mumbai to chair the session on “General Microsurgery.”

9.34. Psychiatry	
Professor and Head	
Rakesh Kumar Chadda	
Professors	
Pratap Sharan Nand Kumar	Rajesh Sagar Mamta Sood
Associate Professors	
Sujata Satapathy (Clinical Psychology)	Raman Deep Pattanayak
Assistant Professors	
Koushik Sinha Deb Bichitra Nanda Patra	Rohit Verma Gagan Hans
Child Psychologist Renu Sharma	Occupational Therapist Vijay

HIGHLIGHTS

The department is at the forefront of medical education for MBBS, BSc/MSc nursing students, MD (Psychiatry), PhD (Clinical Psychology). It also conducts short term training of junior residents posted from other departments (Medicine, Geriatric Medicine, Emergency Medicine, Palliative Medicine, and DM Neurology) for 2-4 weeks. For MBBS students, teaching includes theory lectures of 20 hours (6th semester) and clinical teaching of 7 hours (3rd semester), 25 days (4th-5th semester) and 40 days (in 6th/8th semester), in addition to 12 hours teaching in community at CRHSP, Ballabgarh (7th semester).

The department has been a pioneer in providing mental health services in a General Hospital Setting. The department runs daily walk-in and follow-up clinics in addition to weekly specialty clinics for child and adolescent psychiatric disorders, psychosomatic disorders, common mental disorders, severe mental disorders, dual diagnosis disorders and brain stimulation clinic. Consultation liaison services are provided for the patients admitted in other wards of the hospital. Emergency psychiatric services are provided on a round-the-clock basis for patients visiting the casualty. The department also provides community outreach services 6 days a week at the CRHSP, Ballabgarh, including one day each at the Primary Health Centre at Dayalpur and Chhainsa. Besides pharmacotherapeutic interventions, psychological treatments, Modified Electro

Convulsive Therapy (MECT) and advanced treatments like rTMS, tDCS and biofeedback are routinely provided. During the year 2017-2018, the department provided out-patient consultation services to a total of 17, 204 new cases and 66, 333 follow up cases and in-patient management to 282 patients.

The department has undertaken many research-funded projects in collaboration with national and international agencies like World Health Organization (WHO), University of California, National Institute of Health Research (UK), ICMR, DST, etc. The department is one of the leading partners for research regarding the development of psychiatric classificatory system (ICD-11) by WHO. The department has successfully organized several important public educational events for awareness and for mental health promotion.

EDUCATION

Undergraduates

MBBS

<i>Theory lectures</i>	6th semester: 20 hours
<i>Clinical teaching/posting</i>	3rd semester: 7 hours
	4th-5th semester: 25 days
	6th-8th semester: 40 days
<i>Teaching in community at CRHSP, Ballabgarh</i>	7th semester: 12 hours (Community Psychiatry)

BSc Nursing

<i>Theory lectures</i>	First year (Psychology): 15 hours
	Third year (Psychiatry): 8 hours
<i>Clinical posting</i>	Third year in Psychiatry ward: 2 months

Postgraduates

MD (Psychiatry) and PhD

<i>Seminar</i>	once a week	<i>Case conference</i>	once a week
<i>Thesis protocol presentation</i>	once a week	<i>Journal club</i>	once a week
<i>Midterm thesis presentation</i>	once a week	<i>Tutorials</i>	once a week
Supervision of <i>consultation-liaison training</i> for junior residents in psychiatry			
<i>Psychotherapy supervision</i>			

MSc Nursing

<i>Theory lectures</i>	First year: 8 hours
<i>Clinical posting</i>	First year: 8 months in psychiatry ward and 1 month in OPD
	Second year: 3-4 months in psychiatry ward
<i>Thesis work</i>	Conduct their thesis work in psychiatry OPD and ward

Training of junior residents posted from other departments

Junior residents from Departments of Medicine, Geriatric Medicine, Emergency Medicine and Palliative Medicine, and DM trainees in Neurology—Posted to Department of Psychiatry for a period of 2-4 weeks for training in psychiatry.

CMEs/Workshops/Symposia/National and International Conferences

Organized by the department

- Public lecture on “*Depression: Let’s talk*” on the occasion of the World Health Day on 7 April 2017 at JLN Auditorium, AIIMS, New Delhi
- “*Research Methodology workshop*” for the postgraduate residents, senior residents and faculty members in Department of Psychiatry on 19 and 26 August 2017
- Public lecture and panel discussion on “*Mental Health at workplace*” on the occasion of World Mental Health Day on 10 October 2017 at JLN Auditorium, AIIMS, New Delhi
- *Mental Health Festival* for promotion of mental health in youth on the occasion of World Mental Health Day on 10 October 2017, at JLN Auditorium, AIIMS, New Delhi
- *First National Conference of Addiction Psychiatry (NCAP)* on 27-29 November 2017, organized by NDDTC and Department of Psychiatry, at JLN Auditorium, AIIMS, New Delhi on theme “Emerging trends in Addiction Psychiatry”

- 1st *National Conclave on “Psychological Trauma, Child Protection and Mental Illness”* on 27-28 March 2018 at AIIMS, New Delhi

Lectures delivered

Rakesh Kumar Chadda

1. Newer antipsychotics: Unaddressed issues, 26th Annual Conference of Punjab and Chandigarh Branch of the Indian Psychiatric Society, 13-14 May 2017, Ludhiana, Punjab, India
2. Schizophrenia: Psychosocial interventions, Annual Conference of Indian Association of Private Psychiatrists: Delhi Chapter, 21 May 2017, New Delhi, India
3. Panel discussion on “Enhancing the reach of and quality of addiction treatment services in India”, National CME on Emerging Issues in Substance Use Disorders, 22 July 2017, NAMS Auditorium, New Delhi, India
4. Vascular dementia, 13th Annual Conference of the Indian Association for Geriatric Mental Health, 15-16 September 2017, Chandigarh, India
5. Expert group meeting on harm reduction and stimulants, International Drug Policy Consortium, 4-6 October 2017, Bangkok, Thailand
6. Challenges to mental health in South Asia: Solutions from social psychiatry, Symposium in XVIIIth World Congress of Psychiatry, 8-12 October 2017, Berlin, Germany
7. Expert group meeting of the NIHR Psychosis Research Group, Warwick India Canada (WIC) Meeting, 18-19 October 2017, AIIMS, New Delhi, India
8. Innovative approaches in psychosocial rehabilitation, Symposium in World Congress of Mental Health, 2-5 November 2017, New Delhi, India
9. Consultation liaison psychiatry in low resource settings, World Congress of Mental Health, 2-5 November 2017, New Delhi, India
10. Drug addiction: Challenges and solutions, Symposium on Drug Addiction, 15 November 2017, India International Centre, New Delhi, India
11. Bio-psycho-social interventions for patients with FEP in low resource settings: Overview, Symposium in 24th National Conference of the Indian Association for Social Psychiatry, 17-19 November 2017, Guwahati, Assam, India
12. Towards the development of the regional programme for South Asia (2018-2021), First Expert Group Meeting of UNODC ROSA, 18-19 December 2017, UNODC, New Delhi
13. Substance use disorders: Challenges to social psychiatry, First National Conference on Addiction Psychiatry, 27-29 November 2017, AIIMS, New Delhi
14. Pharmacovigilance in substance use disorders, Symposium in First National Conference on Addiction Psychiatry, 27-29 November 2017, AIIMS, New Delhi
15. Panel discussion on national and international perspectives on drug control, First National Conference on Addiction Psychiatry, 27-29 November 2017, AIIMS, New Delhi
16. Mental health promotion: Contribution of ancient Indian scripts, Annual National Conference of the Indian Association of Clinical Psychologists, 23-25 February 2018, Gautam Buddha University, Greater Noida, UP
17. Mental health, Public Lecture for CRPF Personnel, 16 March 2018, CRPF Camp Greater Noida, UP

Pratap Sharan

1. Identifying depression, Depression-Let’s Talk, 7 April 2017, New Delhi, India
2. Ecological implementation field studies: Progress, plans, difficulties encountered, strategies, and timelines for India, WHO Field Studies Coordination Group Meeting and WHO-Columbia University Global Mental Health Symposium, 25-28 April 2017, Lima, Peru
3. Methodologies needed for other Clinical Utility studies: Personality disorders, WHO Field Studies Coordination Group Meeting and WHO-Columbia University Global Mental Health Symposium, 25-28 April 2017, Lima, Peru
4. Mental health and medical students with medical education, “Meri baat,” Doordarshan National, 17 August 2017, New Delhi, India
5. Introduction to students’ welfare activities at AIIMS, First Faculty Mentor Sensitization Program, 25 October 2017, New Delhi, India
6. Promotion of mental health among students at AIIMS: Challenges and road ahead, No Health without Mental Health: An RDA AIIMS Initiative, 27 October 2017, New Delhi, India

7. Ecological implementation field studies for ICD-11 mental and behavioural disorders: Methodology, WHO-ICD11 Field Studies Coordination Group and International Advisory Group Meeting and Symposium on Mental Health, 4-10 November 2017, Shanghai, China
8. Ecological implementation field studies: Progress, plans, difficulties encountered, strategies, and timeline: India, WHO-ICD11 Field Studies Coordination Group and International Advisory Group Meeting and Symposium on Mental Health, 4-10 November 2017, Shanghai, China
9. Current status of studies of transgender populations and sexual dysfunctions: India, WHO-ICD11 Field Studies Coordination Group and International Advisory Group Meeting and Symposium on Mental Health, 4-10 November 2017, Shanghai, China
10. Qualitative study exploring perspectives on the international classification of diseases (11th revision); Using lived experience to improve mental health diagnosis in India, WHO-ICD11 Field Studies Coordination Group and International Advisory Group Meeting and Symposium on Mental Health, 4-10 November 2017, Shanghai, China
11. Preliminary results: Ecological implementation field studies for ICD-11 mental and behavioural disorders, WHO-ICD11 Field Studies Coordination Group and International Advisory Group Meeting and Symposium on Mental Health, 4-10 November 2017, Shanghai, China
12. Personality disorders in sentencing, Future Directions for Mental Health in Sentencing, 21 January 2018, New Delhi, India
13. Preventing and managing stress and resolving conflicts, Developing Psychosocial and Interpersonal Skills, 28 February 2018, New Delhi, India
14. Childhood maltreatment and personality disorders, First National Conclave on Psychological Trauma, Child Protection, and Mental Illness: Directions in Research, Training and Service Provision, 27-28 March 2018, New Delhi, India

Rajesh Sagar

1. Clinical aspects of depression, First NIMCARE World Health Day Summit 2017 on Unite for a Healthy Mind “Depression Let’s Talk”, 6 April 2017, Vigyan Bhavan, New Delhi, India
2. Panel discussion on “Depression in Telemedicine”, First NIMCARE World Health Day Summit 2017 on Unite for a Healthy Mind “Depression Let’s Talk”, 7 April 2017, Vigyan Bhavan, New Delhi, India
3. What causes depression, Seminar on “Let’s Talk Depression” organized by FICCI, New Delhi, 7 April 2017, FICCI Federation House, New Delhi
4. Autism-transition into adulthood, Public Lecture on “Autism from Early Detection of Autonomy: Challenges and Way Forward” in AIIMS, New Delhi on the occasion of Autism Awareness Month, 26 April 2017, New Delhi, India
5. POCSO Act 2012 and Childhood Sexual Abuse: Is this the only remedy to prevent this malady? National Symposium on Ethics, Human Rights and Law in mental health care and practice organized by IGIMS in collaboration with forensic sub-specialty section of Indian Psychiatry Society, 14 May 2017, IGIMS, Patna, Bihar, India
6. Panel discussion on Rights of Person with Disability (RPWD-2016), National Symposium on Ethics, Human Rights and Law in mental health care and practice organized by IGIMS in collaboration with forensic sub-specialty section of Indian Psychiatry Society, 14 May 2017, Patna, Bihar, India
7. Role of bystanders-psychological first aid, 4th UN Global Road Safety Week, as Indian Road Safety Campaign (IRSC), in collaboration with WHO Country Office, India and Delhi Traffic Police, 12 May 2017, IIT, New Delhi, India
8. Panel discussion on “de-stigmatizing depression”, Moderator and speaker after screening of award winning movie “KAASAV” organized by the Ministry of Health and Family Welfare, 19 May 2017, Delhi, India
9. Women and substance use: Epidemiological issues, Moderated a plenary session in National CME on Emerging Issues in Substance Use Disorders organized by AIIMS, NAMS and IASP, 22 July 2017, New Delhi, India
10. Substance use and female reproductive health, Moderated a plenary session in National CME on Emerging Issues in Substance Use Disorders organized by AIIMS, NAMS and IASP, 22 July 2017, New Delhi, India
11. Gender sensitive interventions: An overview, Moderated a plenary session in National CME on Emerging Issues in Substance Use Disorders organized by AIIMS, NAMS and IASP, 22 July 2017, New Delhi, India
12. Mental health assessment and interventions in CSA, 5th National Conference of Indian Child Abuse Neglect and Child Labour (ICANCL) Group, Indian Academy of Pediatrics, organized by Academy of Paediatrics, Vadodara with International Society for Prevention of Child Abuse and Neglect (ISPCAN), 29-30 July 2017, Vadodara, Gujarat, India

13. Take home-key messages and how to take the teachings forward? Panel discussion “5th National Conference of Indian Child Abuse Neglect and Child Labour (ICANCL) Group, Indian Academy of Pediatrics, organized by Academy of Paediatrics, Vadodara with International Society for Prevention of Child Abuse and Neglect (ISPCAN), 30 July 2017, Vadodara, Gujarat, India
14. Identification of mental health needs of children, Training of CCI staff of Delhi, National Commission for Protection of Child Rights (NCPCR), Government of India, 1-2 August 2017, New Delhi, India
15. Autism Spectrum Disorder (ASD)—Disability quantification, Symposium on “PWD ACT and Disability Certification organized by the Task Force on PWD ACT Disability Certification by Indian Psychiatry Society, 13 August 2017, Visakhapatnam, Andhra Pradesh, India
16. Mental health for all from science to practice, Symposium organized by the American Center, US Embassy and the U.S. National Institutes of Health (NIH), 24 August 2017, American Centre, New Delhi, India
17. Mental health, Symposium on occasion of World Mental Health Day/Week at Safdarjung Hospital/VMMC, 4 October 2017, New Delhi, India
18. Strategies for medical schools to increase education and training, Panel Discussion on “Training and Research in Addictive Disorders: Strategies, Curricula and Barriers” of Annual National Conference on Addiction Psychology (ANCAP), 7-8 October 2017, New Delhi, India
19. Ketamine use in treatment resistant depression, Moderated Symposium I on 42nd Annual Conference Indian Psychiatric Society North Zone 2017, 7-8 October 2017, New Delhi, India
20. Child and adolescent mental health, Inaugural Function of Mental Health Festival on Occasion of World Mental Health Day organized by MHF and AIIMS, 10 October 2017, New Delhi, India
21. MATE—School Mental Health Club, Mental Health Festival on Occasion of World Mental Health Day organized by MHF and AIIMS, 10 October 2017, New Delhi, India
22. Mental health at workplace, Mental Health Festival on Occasion of World Mental Health Day organized by MHF and AIIMS, 10 October 2017, New Delhi, India
23. Mental health at workplace, Moderator and Speaker for Panel Discussion and Public Lecture, AIIMS, 10 October 2017, New Delhi, India
24. Indian children representing their families, homes and environment in H-T-F drawings, World Congress of Mental Health 2017 under the Aegis of World Federation of Mental Health, 2 November 2017, New Delhi, India
25. Assessment and treatment of child and adolescent depression, Symposium “Adolescent depression a new epidemic understanding and intervention” in World Congress of Mental Health 2017 under the Aegis of World Federation of Mental Health, 2 November 2017, New Delhi, India
26. Child and adolescent mental health—Time to Act, Symposium on Child Protection and Mental Health by NCPCR in World Congress of Mental Health 2017 under the Aegis of World Federation of Mental Health, 3 November 2017, New Delhi, India
27. Autism Spectrum Disorder (ASD) in an Indian context: Understanding the Broader Spectrum, Moderated Session in World Congress of Mental Health 2017 under the Aegis of World Federation of Mental Health, 5 November 2017, New Delhi, India
28. Child and adolescent mental health in India—Recent developments and policy issues, Guest lecture in “14th Biennial Conference of Indian Association of Child and Adolescent Mental Health (IACAM)”, 10-12 November 2017, Kolkata, West Bengal, India
29. Innovations in child and adolescent psychiatry, Moderated Session “14th Biennial Conference of Indian Association of Child and Adolescent Mental Health (IACAM)”, 10-12 November 2017, Kolkata, West Bengal, India
30. ADHD—An overview, Symposium on Attention Deficit Hyperactive Disorder (ADHD): Current status and emerging trends in India “14th Biennial Conference of Indian Association of Child and Adolescent Mental Health (IACAM)”, 10-12 November 2017, Kolkata, West Bengal, India
31. Importance of child mental health, Panel Discussion and Interactive session on Universal Children’s Rights Day (Baal Utsav) organized by the National Commission for Protection of Child Rights (NCPCR), 18 November 2017, New Delhi, India
32. Harm reduction—A South Asian perspective, Moderated a Scientific Session First National Conference of Addiction Psychiatry (NCAP) organized by NDDTC-AIIMS, 29 November 2017, New Delhi, India
33. Application of counseling skills in special situations—Suicidal behavior/Disaster, Workshop/CME on Continuing Professional Development of Counselors Working in CCIs organized by State Commission for Protection of Child Rights, Assam and National Commission for Protection of Child Rights (NCPCR), 7-8 December 2017, Guwahati, Assam, India

34. Framework for developing individual care plan, Workshop/CME on Continuing Professional Development of Counselors Working in CCIs organized by State Commission for Protection of Child Rights, Assam and National Commission for Protection of Child Rights (NCPCR), 7-8 December 2017, Guwahati, Assam, India
35. Child and adolescent mental health study from CCI, Workshop/CME on Continuing Professional Development of Counselors Working in CCIs organized by State Commission for Protection of Child Rights, Assam and National Commission for Protection of Child Rights (NCPCR), 7-8 December 2017, Guwahati, Assam, India
36. Reducing the burden of mental illness in India, Conference on Occasion of Bicentenary Celebration (1817-2017) Institute of Psychiatry-Centre of Excellence, IOP-COE, 8-10 December 2017, Kolkata, West Bengal, India
37. Adult ADHD conceptual understanding, nosology and management, Conference on Occasion of Bicentenary Celebration (1817-2017) Institute of Psychiatry-Centre of Excellence, IOP-COE, 8-10 December 2017, Kolkata, West Bengal, India
38. Why the use of lithium declining despite increasing evidence regarding its efficacy? Moderated Session—Conference on Occasion of Bicentenary Celebration (1817-2017) Institute of Psychiatry-Centre of Excellence, IOP-COE, 8-10 December 2017, Kolkata, West Bengal, India
39. Disability and certification of ASD and SLD, Symposium on Disability Laws in India— Conforms to the UNCRPD 2006 Norms in 10th SAARC International Psychiatry Conference-2017, 15 December 2017, Kolkata, West Bengal, India
40. Mental and other health issues of prisoners, Training Programme for Prison Officials on Human Rights: Issues and Challenges organized by Indian Law Institute, 17 December 2017, ILI, New Delhi
41. Psychiatric management of patients with dementias, Tele CME on DEMENTIAS: MEMORY LOSS AND BEYOND by National Academy of Medical Sciences (NAMS), 19 December 2017, New Delhi, India
42. Screening and assessment of co-morbid disorders, CME/Training of Medical Officers of NCT of Delhi on Management of Adolescent Substance Use organized by Government of NCT, 6 February 2017, New Delhi, India
43. Disability and certification of ASD and SLD, Symposium on “The Rights of Persons with Disabilities Act, 2016— Implications in Mental Health Care and Treatment” in 70th Annual National Conference of Indian Psychiatry Society, 5-8 February 2018, Ranchi, Jharkhand, India
44. Role of health officials in protecting Human Rights of Juveniles and Old Age Persons, Program for Officials of Juvenile Homes, Old Age Homes and Health Sector on “Human Rights: Issues and Challenges” organized by Indian Law Institute, 10 February 2018, New Delhi, India
45. Understanding mental health problems: An overview, CME/Workshop on “Mental Health at Workplace” is being organized by College of Nursing, AIIMS, 5-6 February 2018, AIIMS, New Delhi
46. Mental health, World NCD Federation Expert Group Meeting on Guidelines for Prevention, Surveillance and Management of Non Communicable Diseases at Primary and Secondary Healthcare Settings, 6-7 March 2018, Chandigarh, India
47. Prevention and surveillance, Chaired Session in World NCD Federation Expert Group Meeting on Guidelines for Prevention, Surveillance and Management of Non Communicable Diseases at Primary and Secondary Healthcare Settings, 6-7 March 2018, Chandigarh, India
48. Role of Judiciary in protecting Human Rights of Juveniles and Old Age Persons, Sensitization Programme for Judicial Officers on Human Rights-Issues and Challenges organized by Indian Law Institute, 11 March 2018, New Delhi, India
49. Sleep and psychiatric disturbances, CME on World Sleep Day organized by JNU, 16 March 2018, JNU, New Delhi, India
50. Epidemiology of mental disorders, South-East Asia Regional Course on Public Health Approaches to Non-Communicable Diseases, from 20-24 March 2018, New Delhi, India
51. Identification of mental health needs of children, Workshop/CME on Continuing Professional Development of Counsellors working in CCIs organized by State Commission for Protection of Child Rights, Meghalaya and National Commission for Protection of Child Rights (NCPCR), 22 March 2018, Shillong, Meghalaya, India
52. Dealing with children with problematic behavior, Workshop/CME on Continuing Professional Development of Counsellors working in CCIs Organized by State Commission for Protection of Child Rights, Meghalaya and National Commission for Protection of Child Rights (NCPCR), 22 March 2018, Shillong, Meghalaya, India
53. Mental health: Critical area under Universal Health Coverage, Seminar/Workshop on Occasion of World Health Day-2018, National Centre for Disease Control (NCDC), 26 March 2018, New Delhi
54. Childhood psychological trauma and risk of mental illness: Realities or assumptions, First National Conclave on Psychological Trauma, Child Protection, and Mental Illness: Directions in Research, Training, and Service Provision, 27-28 March 2018, New Delhi, India

55. Traumatic life events, substance abuse, delinquency and mental illness, Panel Discussion in First National Conclave on Psychological Trauma, Child Protection, and Mental Illness: Directions in Research, Training, and Service Provision, 27-28 March 2018, New Delhi

Nand Kumar

1. Depression—Let's Talk, Media and Protocol Division, World Health Day Public Lecture and Panel Discussion, 7 April 2017, AIIMS, New Delhi
2. Psychiatric disorders and pathophysiology: Current evidence base for clinicians, Annual Midterm CME on IPS North Zone, 22 April 2017, Patnitop, Jammu
3. Interface between neurology and psychiatry: Clinical presentation and assessment, PG Development Program the North Zone Indian Psychiatry Society, 2 July 2017, Sri Ganga Nagar, Rajasthan
4. Technology interventions for disabled and elderly, 14th Meeting of the Programme Advisory and Monitoring Committee (PAMC-TIDE), 13-14 July 2017, INSA, New Delhi, India
5. Recent advances in TMS, PG Development Program the Central Zone Indian Psychiatry Society, 26-27 August 2017, Agra, UP
6. WFMH congress of mental health, The Scientific Committees of WFMH Congress of Mental Health, 2-5 November 2017, New Delhi
7. Geriatric psychiatry, Chaired Session in 15th Annual Conference of the Indian Academy of Geriatrics Nursing, 16-17 December 2017, AIIMS, New Delhi, India
8. National Eligibility cum Entrance Test (NEET) 2018 for admission to MBBS/BDS courses, 43rd Meeting of the Advisory Committee of NEET-UG, 17 January 2018, New Delhi
9. Recent update on brain stimulation with focus on rTMS, PAN National CME, National Medical College, 19 January 2018, Birgunj, Nepal
10. Techniques of using biofeedback therapy in anxiety disorders, PAN National CME, National medical College, 20 January 2018, Birgunj, Nepal
11. Research for human health and forests, Meeting of expert group, Department of Forest, Government of Jharkhand, 24-25 March 2018, Doranda, Ranchi, Jharkhand
12. Virtual teaching, 2nd National Conclave on Virtual Teaching, 8-9 February 2018, AIIMS, New Delhi

Mamta Sood

1. Treatment of depression, Depression—Let's Talk, 7 April 2017, New Delhi, India
2. Challenges to mental health in South Asia: Solutions from social psychiatry, Symposium in XVIII World Congress of Psychiatry, 8-12 October 2017, Berlin, Germany
3. Expert group meeting of the NIHR Psychosis Research Group, Warwick India Canada (WIC) Meeting, 18-19 October 2017, AIIMS, New Delhi, India
4. Innovative approaches in psychosocial rehabilitation, Symposium in World Congress of Mental Health, 2-5 November 2017, New Delhi, India
5. Consultation liaison psychiatry in low resource settings, Symposium in World Congress of Mental Health, 2-5 November 2017, New Delhi, India
6. Bio-psycho-social Interventions for patients with FEP in low resource settings: Overview, Symposium in 24th National Conference of the Indian Association for Social Psychiatry, 17-19 November 2017, Guwahati, Assam, India
7. Swavlamban Health Insurance Scheme for persons with disabilities, Symposium in 24th National Conference of the Indian Association for Social Psychiatry, 17-19 November 2017, Guwahati, Assam, India
8. Childhood trauma and Severe Mental Illness, First National Conclave on Psychological Trauma Child Protection and Mental Illness, 27-28 March 2018, AIIMS, New Delhi, India

Sujata Satapathy

1. Depression: Psychological treatment, World Health Day Public Lecture, 7 April 2017, New Delhi, India
2. Child sexual abuse: Indian scenario, Invited Lecture Series: Indo-Canadian Women's Association and Sexual Assault Centre of Edmonton, Canada, 21 June 2017, Edmonton, Alberta, Canada
3. Emotional intelligence and mediation, Invited Lecture at the District Session Court, Saket, 19 August 2017, New Delhi, India
4. Basics of cognitive behaviour therapy, One Day State Level Workshop on CBT, 3 October 2017, Bhubaneswar, Odisha, India

5. Psychological trauma assessments and interventions for children and adults: A recent update on assessments and interventions, One Day State Level Workshop on CBT, 4 October 2017, Bhubaneswar, Odisha, India
6. Introduction to graduate students mentorship, Two Day State Level Workshop on Self and Professional Development of College Teachers, 16-17 October 2017, Goa, India
7. Skills and barriers of effective mentorship, Two Day State Level Workshop on Self and Professional Development of College Teachers, 16-17 October 2017, Goa, India
8. Basics of professional interpersonal relationship, Two Day State Level Workshop on Self and Professional Development of College Teachers, 16-17 October 2017, Goa, India
9. Role of stress and conflict management skills in mentorship, Two Day State Level Workshop on Self and Professional Development of College Teachers, 16-17 October 2017, Goa, India
10. Satapathy S, Sinha U. Application of CBT in stress counselling, 4th International Conference on Stress Management—(ICSM 2017), 3-5 November 2017, Goa, India
11. Psychological issues and management in cancer patients, First International Oncology Conference Cancer Today: Roadmap for Tomorrow, 18 November 2017, New Delhi, India
12. An overview of child sexual abuse, Invited Lecture at National Commission for Protection of Child Rights (NCPDR), 12 December 2017, New Delhi, India
13. Work-life balance for health professionals, Well-Being in Work Place, 5 February 2018, New Delhi, India
14. Stress and conflict management, Mental Health at Workplace, 5-6 March 2018, New Delhi, India

Raman Deep Pattanayak

1. Co occurring mood disorders and substance use disorders among women, Annual Day Symposium Titled; Substance use disorders among women, NDDTC, AIIMS, 14 April 2017, NDDTC Conference Hall, Ghaziabad, UP, India
2. Stress and its management, Foundation Training Programme of the Newly Recruited CHS Medical Officers in collaboration with MOHFW, National Institute of Health and Family Welfare, 27 June 2017, NIHFW, New Delhi, India
3. Addressing issues of the Persons with disabilities: Focus on disability due to mental disorders, Judges sensitization academic programme titled 'From Judging to Justicing', 14 July 2017, Delhi Judicial Academy, Dwarka, New Delhi, India
4. Understanding mood disorders: Need for awareness and early identification, Air Force CME Academic Session, 30 August 2017, AFCME, Air Force Base Station, New Delhi, India
5. Workplace stress and mental health challenges, World Mental Health Day Public Lecture, 10 October 2017, HFH College of Nursing, New Delhi
6. Spectrum of mental health issues from the perspective of the clinical psychiatry, Workshop on Mental Health Law in the Criminal Justice System: An Expert Training Workshop, 19 January 2018, Delhi Judicial Academy, Dwarka, New Delhi, India

Koushik Sinha Deb

1. Let's talk about depression, Public Lecture and Panel Discussion on Depression; Holy Family Hospital, 7 April 2017, New Delhi, India
2. ECHO India Immersion training, Group/Panel Discussion, ECHO India Immersion Training, Project ECHO Telemedicine Learning, 2-4 May 2017, New Delhi, India
3. Ketamine use in treatment resistant depression, 42nd Annual Conference Indian Psychiatric Society North Zone 2017, Palika Kendra, NDMC, 7 October 2017, New Delhi, India
4. Basics of practical mentoring: Problems and solutions, 1st Faculty Mentor Sensitization Program, Vardhman Mahavir Medical College and Safdarjang Hospital, 25 October 2017, New Delhi
5. Novel approach towards psycho-social rehabilitation in community, World Congress of Mental Health 2017, 2-5 November 2017, New Delhi
6. Bio-psycho-social interventions for patients with first episode psychoses in low resource settings, 24th National Conference of Indian Association for Social Psychiatry (24th NCIASP, Guwahati 2017), 17-19 November 2017, Guwahati, Assam
7. Adolescent and the virtual world, 21st Annual National Conference of the IPS Bihar State Branch, 2017, 3 December 2017, Patna, Bihar, India
8. Role of GHPU in leadership in psychiatry, 70th Annual National Conference of Indian Psychiatric Society, 2018 (ANCIPS 2018), 5-8 February 2018, Ranchi, Jharkhand, India

9. Mental health promotion strategies, Mental Health at Work Place, 6 March 2018, College of Nursing, AIIMS, New Delhi
10. Delirium in ICU patients: Prevalence, identification and management, Medical Surgical Nursing Update, 8 March 2018, College of Nursing, AIIMS, New Delhi

Rohit Verma

1. Psychiatric disorders and electrophysiology: Evidence base and practical application, Mid Term CME North Zone Indian Psychiatric Society, 22 April 2017, Patnitop, Jammu, India
2. Brain stimulation: An evolving paradigm approach to cater mental well-being, 42nd Annual Conference Indian Psychiatric Society North Zone, 7-8 October 2017, New Delhi, India
3. Somatic treatment in psychiatry: Focus on brain stimulation, World Federation of Mental Health World Congress of Mental Health, 2-5 November 2017, New Delhi, India
4. rTMS in psychiatry: Hands-on training workshop, World Federation of Mental Health World Congress of Mental Health, 2-5 November 2017, New Delhi, India
5. Novel approach towards psycho-social rehabilitation in community, World Federation of Mental Health World Congress of Mental Health, 2-5 November 2017, New Delhi, India
6. Behavioral addictions: Current state of evidence and way forward, World Federation of Mental Health World Congress of Mental Health, 2-5 November 2017, New Delhi, India
7. Expectations from imaging: A psychiatrist's perspective, 49th Annual Conference of the SNMI Association, 14-17 December 2017, New Delhi, India
8. The nuts and bolts of performing a peer review, 70th Annual National Conference of Indian Psychiatric Society, 2018, 5-8 February 2018, Ranchi, India
9. Contributions and future scope of GHPUs in mental health leadership in India, 70th Annual National Conference of Indian Psychiatric Society, 2018, 5-8 February 2018, Ranchi, India
10. Childhood psychological trauma and brain/cognitive development, 1st National Conclave on Psychological Trauma, Child Protection and Mental Illness, 2018, 27-28 March 2018, New Delhi, India

Bichitra Patra

1. Attention deficit hyperactivity disorder: Current status and emerging trends in India, 14th Biennial Conference of Indian Association of Child and Adolescent Mental Health, 11 November 2017, Kolkata, West Bengal, India

Gagan Hans

1. Schizophrenia and its management, 1st CME for Medical Officers, Common Psychiatric Disorders and Their Management, 18 September 2017, North DMC Medical College and Hindu Rao Hospital, Delhi, India
2. Ketamine use in treatment resistant depression, 42nd Annual Conference Indian Psychiatric Society North Zone 2017, 7 October 2017, Palika Kendra, NDMC, New Delhi, India
3. Newer insights in neurobiology of OCD using Magnetic Resonance Spectroscopy (1H-MRS), 70th Annual National Conference of Indian Psychiatric Society 2018, 7 February 2018, Ranchi, Jharkhand, India

Renu Sharma

1. Impact of trauma on children and adolescents, Workshop on Child Sexual Abuse, Second International Conference of Cognitive Behavior Therapy, 5 March 2017, AIIMS, New Delhi, India
2. Case history taking and rapport formation with sexually abused children, Workshop on Child Sexual Abuse, Second International Conference of Cognitive Behavior Therapy, 5 March 2017, AIIMS, New Delhi, India

Oral Papers/Posters Presented

1. Sharan P. WHO's collaborative framework for addressing autism spectrum disorder in the South-East Asia Region (Rapporteur), International Conference on Autism and Neurodevelopmental Disorders (ANDD-2017), 19-21 April 2017, Thimpu, Bhutan
2. Parmar A, Sharan P, Khandelwal SK, Sharma U, Jagannathan N. Abnormalities in brain neurochemistry assessed by magnetic resonance spectroscopy in unmedicated Obsessive Compulsive Disorder patients and changes after 12 weeks of escitalopram treatment, American Society of Clinical Psychopharmacology Annual Meeting 2017, 29 May-2 June 2017, Miami, USA
3. Sharan P. Classification, culture and child psychiatry, World Psychiatric Association (WPA) Inter Zonal Congress, 3-6 May 2017, Vilnius, Lithuania

4. Das A, Dash NR, Pal S, Sharan P, Madhusudhan KS, Sahni P. Surgery for corrosive stricture esophagus: Assessment of complications, mental health and quality of life, 27th National Conference of the Indian Association of Surgical Gastroenterology, 5 October 2017, Puducherry
5. Sharan P. Ketamine use in treatment resistant depression: Ethical considerations and policy framework, 42nd Annual Conference of Indian Psychiatric Society, North Zone, 7-8 October 2017, New Delhi
6. Sharan P. Methodology for ecological implementation (clinic-based) field studies for ICD-11 Mental and Behavioural Disorders, WPA XVII World Congress of Psychiatry, Berlin 2017, 8-12 October 2017, Berlin, Germany
7. Sharan P. Experience of panic symptoms and related concepts of distress among patients with anxiety disorders in Northern India: A mixed-method study (Gupta A, Sharan P, Sagar R, Kant S), WPA XVII World Congress of Psychiatry, Berlin 2017, 8-12 October 2017, Berlin, Germany
8. Parmar A, Sharan P, Khandelwal SK, Sharma U, Jagannathan N. Anterior cingulate neurochemistry in OCD and effects of 12-week escitalopram treatment: A 1H-MRS study, WPA XVII World Congress of Psychiatry, Berlin 2017, 8-12 October 2017, Berlin, Germany
9. Sharan P. Cultural diversity and classification in psychiatry, 24th National Conference of Indian Association for Social Psychiatry, 17-19 November 2017, Guwahati, Assam, India
10. Sharan P. Facilitators and barriers for objective 1: To strengthen effective leadership and governance for mental health (Rapporteur), Implementation of WHO Mental Health Action Plan (MI 2013-2020), Progress and Challenges, 23-24 November 2017, Lisbon, Portugal
11. Sharan P. Facilitators and barriers for objective 3: To implement strategies for promotion and prevention in mental health (Discussant), Implementation of WHO Mental Health Action Plan (MI 2013-2020), Progress and Challenges, 23-24 November 2017, Lisbon, Portugal
12. Medina-Mora ME, Robles R, Rebello T, Domínguez T, Martínez N, Juárez F, Sharan P, Reed G. ICD-11 ecological implementation field studies: Inter-rater reliability and perceived clinical utility of diagnostic guidelines for common mental disorders applied to real patients by Mexican clinicians, 26th European Congress of Psychiatry (EPA 2018), 3-6 March 2018, Nice, France
13. Mahapatra A, Choudhary V, Shah B, Sagar R. Association of psychological stress and self-esteem with internalized stigma in parents of children with neurodevelopmental disorders: An exploratory study (Oral Presentation), 9th Congress of Asian Society of Child and Adolescent Psychiatry and Allied Professionals (ASCAPAP), Yogyakarta, Indonesia (Michael Hong Travel Award), 24-26 August 2017, Yogyakarta, Indonesia
14. Gupta R, Sagar R. Stigma associated with autistic spectrum disorders: A systematic review, 9th Congress of Asian Society of Child and Adolescent Psychiatry and Allied Professionals (ASCAPAP), Yogyakarta, Indonesia, 24-26 August 2017, Yogyakarta, Indonesia
15. Sahu A, Patil V, Purkayastha S, Pattanayak RD, Sagar R. Pathways to care of patients with Bipolar Affective Disorder Type-I: An Exploratory Study from a Tertiary Care Centre of North India, 42nd Annual Conference of Indian Psychiatric Society, North Zone, 7 October 2017, New Delhi, India
16. Sahu A, Bhargava R, Sagar R, Mehta M. Development of home based intervention for Specific Learning Disorder, 14th Biennial Conference of Indian Association of Child and Adolescent Mental Health (IACAM) 2017, 10-12 November 2017, Kolkata, West Bengal, India
17. Choudhary V, Sagar R. Assessment of parental bonding behavioural difficulty and coping skills of children having sibling with neurodevelopment disability, 14th Biennial Conference of Indian Association of Child and Adolescent Mental Health (IACAM), 10-12 November 2017, Kolkata, West Bengal, India
18. Sagar R, Bhargava R, Bichitra NP, Mahapatra A. Symposium "Attention Deficit Hyperactive Disorder (ADHD): Current Status an Emerging Trends in India", 14th Biennial Conference of Indian Association of Child and Adolescent Mental Health (IACAM) 2017, 10-12 November 2017, Kolkata, West Bengal, India
19. Sahu A, Bhargava R, Deb KS, Balhara YPS, Sagar R. Dealing with problematic internet use in an adolescent male with comorbidity: A case report, 44th National Annual Conference of India Association of Clinical Psychologists (NAIACP), 2018, 23-25 February 2018, Greater Noida, Uttar Pradesh, India
20. Maqbool M, Sagar R. Psychological first aid of children with disability, Continuing Rehabilitation Education (CRE) program by Rehabilitation Council of India, 14-16 March 2018, PGIMS, IMH Rohtak, Haryana, India
21. Sahu A, Patil V, Sagar R. Cyberbullying in children and adolescence: An Indian scenario, 1st National Psychological Trauma Conclave, 27-28 March 2018, New Delhi, India **(Best paper award)**
22. Mishra J, Parveen S, Sagar R, Kumaran S, Modi K. Mobile technology intervention in adolescents with early life childhood trauma, 1st National Psychological Trauma Conclave, 27-28 March 2018, New Delhi, India
23. Bhati N, Bhargava R, Sagar R, Chadda RK. The role of thematic apperception test in eliciting trauma among adolescents with dissociative (conversion) disorder: A case series, 1st National Psychological Trauma Conclave, 27-28 March 2018, New Delhi, India

24. Maqbool M, Mir N, Kumar A, Joshi M, Sagar R, Sagar S. Assessment of quality of life among upper and lower limb amputees admitted at Surgical Unit of Level I Trauma Centre AIIMS, 1st National Psychological Trauma Conclave, 27-28 March 2018, New Delhi, India
25. Bhattacharya D, Bhargava R, Dhawan A, Sagar R. The ripple effect of sexual abuse on secondary victims and its effect on their overall psychological functioning, 1st National Psychological Trauma Conclave, 27-28 March 2018, New Delhi, India
26. Pakhre A, Sagar R. Child maltreatment in Indian context: Narrative review and medicolegal aspects, 1st National Psychological Trauma Conclave, 27-28 March 2018, New Delhi, India
27. Tolahunase MR, Sagar R, Dada R. Effect of yoga and meditation on accelerated cellular aging in major depressive disorder patients, 25th European Congress of Psychiatry (EPA 2017), 1-4 April 2017, Florence, Italy
28. Tolahunase MR, Sagar R, Kumar R, Malhotra N, Singh N and Dada R. Yoga and meditation promotes quality of life by decreasing depression severity and cellular aging in male infertility: Randomized controlled trial, 42nd American Society of Andrology Annual Meeting (ASA 2017), 22-25 April 2017, The Hilton Miami Downtown Miami, Florida, USA
29. Tolahunase MR, Sagar R, Dada R. Molecular and clinical indicators of improved neuroplasticity by yoga and meditation: A randomized clinical trial in major depressive disorder, 1st World NCD Congress 2017 (WNCD 2017), 4-6 November 2017, Chandigarh, India.
30. Tolahunase MR, Sagar R, Yadav RK, Dada R. Effect of yoga and meditation on rate of aging, 27th Swadeshi Science Congress, 7-9 November 2017, Amrita Viswa Vidyapeetham, Vallikkavu, Kollam, Kerala, India
31. Andrabi M, Vivekanandhan S, Sagar R and Jain S. HAT/HDAC imbalance and BDNF in rat model of mania-like behavior, Society of Young Scientists Conference. 12-13 January 2018, New Delhi, India
32. Mishra J, Sagar R, Parveen S, Kumaran S, Modi K. Using neuroscience-evidence based digital technology to enhance self-regulation in children with a history of neglect, Indian Association of Life Skills Education (IALSE) International Conference, 9-11 February 2018, Lucknow, UP, India
33. Mir N, Hussain A, Moorthy AS, Kumar S, Sagar S, Sagar R. Burden of limb loss in patients following trauma: A neglected entity, Nat'l Symposium on Contributions of Women in Science in India, 15-16 February 2018, Kolkata, West Bengal, India
34. Rattan A, Bairwa K, Gupta A, Kumar S, Sagar R, Sagar S. Outcome of 310 traumatic amputations at level 1 trauma center in New Delhi, Wound Care: From Innovations to Trials (WCICT 2017), 20-21 June 2017, Manchester, UK
35. Jha S, Salve HR, Goswami K, Sagar R, Kant S. Prevalence of common mental disorders among pregnant women in rural Ballabgarh, Haryana, IAPSMCON/IPHA 2018, 9-11 March 2018, Pune, Maharashtra, India
36. Bhargava R, Sahu A, Bhattacharya D, Gupta A, Bhati N, Sagar R. Psychosocial determinants among adolescent with dissociative disorder in Indian setting, 24th International Conference on Psychiatry and Psychosomatic Medicine and 2nd International Congress on Forensic Science and Psychology, 12-14 October 2017, London, UK
37. Prabhakaran P, Dutta A, Tiwari H, Singh A, Sinha S, Singh B, Gupta D, Sachdev S, Sagar R, Tandon N, Fall HD, Bhargava K. Prevalence of depressive disorder among members of the New Delhi birth cohort - Role of early life influences, 10th World Congress of Development Origins of Health and Disease (DOHaD), 15-18 October 2017, Rotterdam, The Netherlands
38. Sagar R, Chatterjee B. Identification of mental health needs of children—Workshop/CME on Continuing Professional Development of Counsellors Working in CCIs Organized by State Commission for Protection of Child Rights, Meghalaya and National Commission for Protection of Child Rights (NCPCR), 24 March 2018, Tura, Meghalaya, India
39. Sagar R, Chatterjee B. Dealing with children with problematic behavior, Workshop/CME on Continuing Professional Development of Counsellors Working in CCIs organized by State Commission for Protection of Child Rights, Meghalaya and National Commission for Protection of Child Rights (NCPCR), 24 March 2018, Tura, Meghalaya, India
40. Satapathy S. A comparative study of cognitive functioning in children with and without Attention Deficit Hyperactivity Disorder (ADHD), International Seminar and Research Consultation on Developmental Disabilities, 19-23 June 2017, Edmonto, Canada
41. Satapathy S. AIIMS CTT for children with ADHD aged 6-11 years, International Seminar and Research Consultation on Developmental Disabilities, 19-23 June 2017, Edmonto, Canada
42. Satapathy S. Psychological traumatic life incidents and substance addiction, 1st National Conference on Addiction Psychology, 7-8 September 2017, New Delhi, India
43. Thomas M, Khaka D, Satapathy S. Suffering in silence: A study to assess the perceived stress, quality of sleep and caregiver burden among caregivers of mentally ill clients in AIIMS, New Delhi, World Federation of Mental Health World Congress 2017, 2-5 November 2017, New Delhi, India

44. Tej A, Madan N, Satapathy S. Stress among first year medical students at a tertiary care teaching institute: Catching them young, 4th International Conference on Stress Management—(ICSM 2017), 3-5 November 2017, Goa, India
45. Banerjee J, Satapathy S, Dwivedi S, Dey AB. A tool for preliminary assessment and triage in geriatric cancer patients in India: Development and validation, 17th Conference of the International Society of Geriatric Oncology - SIOG 2017, 9-11 November 2017, Poland
46. Satapathy S. Psychology of elderly, 15th Annual Conference of Indian Academy of Geriatrics: GERICON-2017, 16-17 December 2017, New Delhi
47. Gupta A, Das SN, Satapathy S. Perioperative anxiety and stress in children and parents undergoing congenital cardiac surgery: Effect of brief intervention, 1st Annual Conference of the Indian Association of Cardiovascular Thoracic and Vascular Anaesthesiologists (21st IACTACON), 1-4 February 2018, Hyderabad, Telangana, India
48. Satapathy S. Cyber bullying: Current intervention, 44th Annual Conference of IACP, 23-25 February 2018, Greater Noida, UP, India
49. Jain S, Dhawan A, Kumaran SS, Jain R, Pattanayak RD. Cue-induced craving in adolescent inhalant users: fMRI Study, 19th Annual Conference of International Society of Addiction Medicine (ISAM), 26-29 October 2017, Abu Dhabi, UAE
50. Chawla N, Pattanayak RD, Khandelwal SK. Hallucinatory experiences and beliefs about ‘Voices’ in patients with chronic schizophrenia: A cross sectional study, 24th National Conference of Indian Association for Social Psychiatry, 2017 (NCIASP 2017), 17-19 November 2017, Guwahati, Assam, India
51. Chawla N, Pattanayak RD, Garg A, Khandelwal SK. Assessment of white matter abnormalities in cingulate fasciculus through diffusion tensor imaging in patients with schizophrenia with auditory hallucinations, 72nd Annual Meeting of Society of Biological Psychiatry (SOBP), 18-20 May 2017, San Diego, USA
52. Chawla N, Pattanayak RD, Khandelwal SK, Garg A. Assessment of white matter integrity through diffusion tensor imaging tractography in patients of schizophrenia with and without auditory verbal hallucinations, 70th Annual National Conference of Indian Psychiatric Society, ANCIPS 2018, 5-8 February 2018, Ranchi, Jharkhand, India
53. Deb KS, Sood M, Chadda RK, Singh P, Verma R, Kumar S, Tuli A, Ganesh R. Smartphone based solutions for managing severe mental illnesses in low resource settings: Roadblocks and opportunities, 70th Annual National Conference of Indian Psychiatric Society, 2018 (ANCIPS 2018), 5-8 February 2018, Ranchi, Jharkhand, India
54. Kankarwal M, Devi YS, Deb KS, Anand RK. A study to assess knowledge regarding identification and management of delirium in various ICUs patients among staff nurses working in AIIMS, New Delhi, 2nd International Meeting on Nursing Research and Evidence Based Practice, 19-20 March 2018, Singapore City, Singapore
55. Verma R, Anand KS. Development of a tool for assessment of embarrassment due to dystonia, 3rd Taiwan International Congress of Parkinson’s Disease and Movement Disorders, 17-19 March 2017, Taipei, Taiwan
56. Singh M, Khakha DC, Bakhshi S, Patra BN, Sharma R, Khakha CC. An innovative way to reduce parental distress and improve their coping skills in childhood leukaemia, 55th National Conference of Indian Academy of Pediatrics (PEDICON), 4-7 January 2018, Nagpur, Maharashtra, India
57. Gupta S, Sarkar S, Patra BN, Patil V. Does socio-demographic background determine the responses to ethical dilemma vignettes among patients? 24th National Conference of Indian Association for Social Psychiatry, November 2017, Guwahati, Assam, India
58. Shakya P, Hans G. Diagnostic and management difficulties in simple schizophrenia: A case report, 24th National Conference of Indian Association for Social Psychiatry, 18 November 2017, Guwahati, Assam, India
59. Mohan SK, Kumar S, Deb KS, Hans G. “Normative Uncertainty”: A case report, 42nd Annual Conference Indian Psychiatric Society North Zone 2017, 7 October 2017, Palika Kendra, NDMC, New Delhi, India
60. Sharma R, Satapathy S, Chaudhary V. The effect of psychological trauma among children and adolescents diagnosed with dissociative disorder, Second Inter-national Conference of Cognitive Behavior Therapy, 6 March 2017, AIIMS, New Delhi, India (**Best paper award**)

RESEARCH

Funded projects

Ongoing

1. NIHR Global Health Research Group on Psychosis Outcomes: The Warwick-India-Canada (WIC) Network, RK Chadda, National Institute of Health Research, UK, 3 years, 2017-2020, GBP 2.69 lakhs
2. Field testing of ICD-11 proposals for sexual disorders and sexual health in India, Pratap Sharan, World Health Organization, 3 years, 2016-2018, Rs 12 lakhs
3. Development of Identification Instrument for Prolonged Grief Disorder in SEAR countries, Pratap Sharan, World Health Organization SEARO, 2 years, 2016-2018, Rs 4 lakhs

4. Psycho-social outcome and cognitive functions in bipolar disorder: A longitudinal study, Rajesh Sagar, DST, 3 years, 2016-2019, Rs 28.53 lakhs
5. Project ROCK ON: Remediation of cognition in kids to overcome neglect, Rajesh Sagar, University of California San Francisco, USA, 1 year, 2015-2017, Rs 12.83 lakhs
6. Development of Psychosis Identification Instrument for WHO-SEARO—Validation in outpatient and primary care setting (Phase IV), Rajesh Sagar, WHO SEARO, 1 year, 2016-2017, Rs 14.96 lakhs
7. Depressive and anxiety disorders in the postpartum period: Prevalence, psycho-social correlates and effect on mother-infant bonding, Rajesh Sagar, ICMR, 3 years, 2014-2017, Rs 46.28 lakhs
8. Psychiatric morbidity and its early antecedents in the New Delhi Birth Cohort, Rajesh Sagar, QED, 3 years, 2018-2020, Rs 8.67 lakhs
9. SMART mental health—The systematic medical appraisal, Referral and Treatment (SMART) Mental Health Programme, Rajesh Sagar, George Institute of Global Health (Coordinating Centre), National Health and Medical Research Council, Australia as part of the Global Alliance of Chronic Diseases scheme—APP1143911, 3 years, 2018-2021, 1.95 million Australian dollars
10. To study the effect of high-frequency Repetitive Transcranial Magnetic Stimulation (rTMS) in cognitive function and predominately negative symptoms in people suffering from Schizophrenia in Randomized Sham Controlled Double Blind Trial, Nand Kumar, DST, 3 years, 2015-2018, Rs 50.56 lakhs
11. A double-blind, double-dummy, active-controlled, oral, multiple-dose, parallel, randomized study to evaluate efficacy and safety of Endoxifen in Bipolar I disorder patients, Nand Kumar, Lambda, 10 months, 2017-2018, Rs 4 lakhs approximately
12. Feasibility and Efficacy Testing of Newly Developed AIIMS CTT (Non-computer based Cognitive Training Intervention Kit) for 6-11 years Old Children with ADHD, Sujata Satapathy, AIIMS, 2 years, 2018-2020, Rs 3.6 lakhs
13. H¹-MR spectroscopy-based evaluation of metabolic abnormalities in right dorsolateral prefrontal cortex in patients with obsessive compulsive disorder—A pilot study, Gagan Hans, AIIMS, 1 year, 2017-2018, Rs 0.9 lakhs
14. Translation and validation of the Teen Addiction Severity Index on Indian population, Renu Sharma, AIIMS, 2 years, 2015-2017, Rs 2 lakhs

Completed

1. Development of non-computer based Cognitive Training Intervention Kit for 6-11 years old Children with ADHD, Sujata Satapathy, AIIMS, 1.5 years, 2015-2017, Rs 4.49 lakhs
2. A study of brain activation using functional near infrared spectroscopy and quantitative electro-encephalographic spectral analysis in catatonia, Rohit Verma, AIIMS, 3 years, 2015-2018, Rs 2.24 lakhs
3. Stigma in patients with depressive disorders and substance use disorders: A pilot study, Bichitra Nanda Patra, AIIMS, 2 years, 2016-2018, Rs 0.25 lakhs

Departmental projects

Ongoing

1. Psychiatric morbidity and cognitive functioning in children and adolescents with bronchial asthma
2. Metacognitive therapy in depressive disorders
3. Development of a Multidimensional Trauma Scale and Psychological Trauma Focused Intervention for Child Sexual Abuse
4. Development of home based Intervention for Specific Learning Disorder
5. Development of cognitive behavioral based intervention module for adolescents in conflict with law
6. Psycho-behavioural and cognitive functioning of children with acute lymphoblastic leukemia: Development of a composite Psychological Intervention Module
7. A study of autonomic functions in adolescents with specific learning disorder (Dyslexia) with and without Comorbid ADHD
8. Development of trauma focused cognitive behaviour intervention and family therapy module for child and adolescent cancer survivors
9. Psychiatric morbidity, quality of sleep, and mental adjustment style among adult myeloma patients in active treatment and maintenance phase
10. Neurochemical profile using magnetic resonance spectroscopy in subjects with Bipolar Disorder Type-I on Lithium Prophylaxis: Assessing the Relationship to Lithium Response

11. Assessment of Gray Matter Volume and White Matter Integrity in patients with suicidality in Bipolar Disorder Type I
12. Effect of cognitive and emotional stress in patients of multi-somatoform pain disorder: A fMRI based case control study
13. An observational study of side effects of selective serotonin reuptake inhibitors in patients attending psychiatric outpatient clinic
14. Repetitive transcranial magnetic stimulation in medication non-responsive obsessive-compulsive disorder: A randomized double blind parallel group sham controlled trial to compare different sites of stimulation
15. Neuro-physiological and neuro-cognitive markers of prefrontal functioning as predictors of treatment response in first episode psychosis
16. A pilot study of resting state quantitative electroencephalographic spectral analysis in Schizophrenia
17. Serum BDNF levels in patients of First Episode Schizophrenia: A pilot study
18. Effects of brain stimulation in treatment of depression: A diffuse optical tomography study of acute and longitudinal effects on brain function
19. A pilot randomized controlled trial of targeted prefrontal cortex modulation with anodal transcranial Direct Current Stimulation (tDCS) for examining task dependent effect on executive functioning
20. Substance use in children and adolescents with Attention Deficit Hyperactivity Disorder: An exploratory study

Completed

1. Prefrontal cortical activity in children with ADHD: A functional Near Infrared Spectroscopy (fNIRS) Study
2. Depression and anxiety disorders in patients with type 2 diabetes mellitus and its relation with glycemic control, quality of life and disability
3. A study of the association of anxiety and depression with cardiac arrhythmia in post myocardial infarction patients
4. Assessment of needs, scope and focus for consultation liaison services at AIIMS, New Delhi
5. A study of knowledge and attitude regarding ECT and rTMS among patients and their caregivers
6. A cross-sectional study of association of illness disability and cognitive functioning in patients to caregiver needs in First Episode Schizophrenia
7. A pilot randomized controlled trial of targeted prefrontal cortex modulation with bilateral transcranial Direct Current Stimulation (tDCS) for reducing craving in patients with opioid dependence
8. To assess change in knowledge towards mental illness and treatment among caregivers of patient with severe mental illness in a tertiary mental health care in-patient setting: A case-control study
9. A cross-sectional study about knowledge towards mental illness and treatment in patients with severe mental illness and their caregivers
10. Transcranial Direct Current Stimulation (tDCS) in treatment resistant obsessive— Compulsive disorder: An open— Label trial
11. Cross-sectional, controlled fMRI study on neural correlates of dissociation in dissociative convulsions
12. Patient and caregiver perspectives on ethical issues in mental health care

Collaborative projects

Ongoing

1. Proteomics of CSF for the identification of protein signatures in the dopamine dictated states of Schizophrenia and Parkinson's Disease, Biophysics
2. Genetic polymorphisms of serotonergic pathways genes and their association studies with disease severity and response to escitalopram treatment in patients with major depressive disorder, Institute of Genomics and Integrative Biology (IGIB)
3. Illness narratives in Schizophrenia: A medical chart review study, Department of Anthropology, Brown University, Providence, USA
4. Convergent validation of proposed behavioural indicators of intellectual and adaptive behaviour functioning for ICD-11, University of Ottawa and World Health Organization, Geneva, Switzerland
5. Clinical consistency and clinical utility of proposed diagnostic guidelines for ICD-11 childhood mental and behavioural disorders, World Health Organization, Geneva, Switzerland
6. Clinical consistency and clinical utility of proposed diagnostic guidelines for ICD-11 severe mental and behavioural disorders, World Health Organization, Geneva, Switzerland

7. Clinical consistency and clinical utility of proposed diagnostic guidelines for ICD-11 common mental and behavioural disorders, World Health Organization, Geneva, Switzerland
8. Effect of cognitive and emotional stress in patients of multisomatoform disorder: A fMRI based case-control study, Nuclear Magnetic Resonance
9. Quality of life following BCS and mastectomy along with sentinel node biopsy in operable breast cancer, Surgery
10. Effect of paravertebral anaesthesia on quality of life scores and circulating tumour cells in breast cancer patients, Anaesthesia
11. Evaluation of eating disorders and their effect on metabolic parameters and glycemic control in adult patients with diabetes mellitus type 2, Endocrinology
12. Neurocognitive rehabilitation modules for patients with schizophrenia, Neuropsychology
13. Qualitative study exploring perspectives on the international classification of diseases (11th revision); Using lived experience to improve mental health diagnosis in India, World Health Organization, Geneva, Switzerland
14. Identification of language and linguistic variability patterns in Schizophrenia, Syracuse University, New York, USA
15. Collaborative care for depression and diabetes in India—Funded by National Institute of Mental Health (NIMH), National Institutes of Health, USA and Endocrinology, AIIMS, New Delhi
16. To study the effect of mobile phones on well-being, sleep and cognitive function, Medicine
17. Utility on novel coated platelets as a marker for early prognostication of neurocognitive impairment following traumatic injury, 2015-2018, Trauma Centre
18. New Delhi Birth Cohort—Follow-up studies to Assess Association of Early Life Growth Patterns on Lung function, Cardio metabolic risk factors and Mental Health in a Family Cohort, CDRF, Public Health Foundation of India
19. Association between Parental Growth Patterns and Chronic Disease Risk in their children—An intergenerational study in the New Delhi Birth Cohort, PHRI Research Grants, SERB-DST, Public Health Foundation of India
20. Morphological, functional, biochemical and behavioral evaluation post—EMF radiation, NMR
21. Effect of EMF radiation due to mobile phone use on sleep and neurocognitive functions: A molecular approach, Medicine
22. A randomized control trial to study the impact of Yoga intervention in lower limb amputees following trauma in relation to postsurgical outcome, behavior and quality of life at Level I, Trauma Centre
23. Effect of Yoga on psychological, cognitive and glycemic control in patients with T2DM and depression: Two arm parallel randomized controlled trial, Endocrinology
24. Study of cortical sources of EEG and brain iron levels during rest and visuospatial working memory in Attention Deficit Hyperactivity Disorder (ADHD), Physiology
25. Optimizing diet and insulin regimes in children with type 1 Diabetes in low—Resource settings, Pediatrics
26. A pilot multicentre open label parallel arm RCT evaluating whether Yoga can delay initiation of insulin therapy in patients with type 2 diabetes mellitus with suboptimal glycemic control on near maximal oral drugs and/or who may require insulin therapy in near future, Endocrinology
27. A translational randomized trial of Yoga based lifestyle intervention for Major Depressive Disorder (MDD) management in India and analyzing biomarkers of cellular aging associated with it, Anatomy
28. QEEG based neural correlates and microstates of attention and interference in ADHD—An endophenotypic marker, Physiology
29. To study the impact of Yoga on pulmonary functions, immune response and quality of life in chest trauma patients at Level-I Trauma Centre, Trauma Surgery, JPNATC, AIIMS, New Delhi
30. Association of Common Mental Disorders with Diabetes Mellitus—A community based case-control study in North India, Community Medicine, AIIMS, New Delhi
31. Assessment of cognitive, neuroanatomical and neurofunctional abnormalities in adults with Type 1 Diabetes—Funded by Department of Science and Technology (DST), Government of India, Department of Endocrinology, AIIMS, New Delhi
32. A randomized control trial to study the impact of Yoga intervention in lower limb amputees following trauma in relation to postsurgical outcome, behavior and quality of life at Level I Trauma Center-funded by Department of Science and Technology (DST), Government of India, Trauma Surgery, JPNATC
33. Cleft lip and palate anomaly in India; Clinical profile risk factors and current status of treatment: A hospital based study-Main phase, Centre for Dental and Educational Research
34. Evaluation of prevalence, regional phenotypic variation, comorbidities, risk factors and the variations in response to different therapeutic modalities among Indian women with Polycystic Ovary Syndrome (PCOS): A multicenter study across India, Endocrinology

35. Prospective randomized controlled study comparing long term outcome, chronic pain, quality of life and cost effectiveness following laparoscopic repair of incisional and ventral hernias with different techniques of mesh fixation—A pilot study, Surgical Disciplines
36. Prospective randomized controlled study comparing long term outcomes, chronic pain, quality of life and cost effectiveness following two techniques of mesh fixation—Non-absorbable versus absorbable tackers—for laparoscopic mesh repair of incisional and ventral hernias, Surgical Disciplines
37. Prospective randomized controlled study to compare the outcome of standard four port laparoscopic cholecystectomy with single incision laparoscopic cholecystectomy in patients with gall stone disease, Surgical Disciplines
38. Toxicological analysis and distribution pattern of alcohol and different drugs in various biological samples and their neurobiological effects in suicidal deaths, Forensic Medicine
39. Study of clock genes in rat model of mania-like behavior, Neuro-Chemistry
40. A prospective study comparing outcomes and quality of life after laparoscopic donor nephrectomy versus open donor, Surgical Disciplines
41. Comparison of quality of life after single stage vs two stage management of patients with concomitant gall stones and common bile duct stones: A prospective randomized control trial, Surgical Disciplines
42. Depressive disorders amongst adolescents in rural Ballabhgarh: A community based study, CCM
43. Effects of yoga based lifestyle interventions on biomarkers of cellular aging in patients with depression, Laboratory for Molecular Reproduction and Genetics
44. Impact of behavior and temperament on food intake and diet quality of adolescents studying in public schools of Delhi, Delhi University
45. Effect of Virtual Reality Therapy (VRT) in improving balance and quality of life in lower limb amputation, Trauma Centre, JPNATC
46. Mapping functional and biochemical correlates in brain of Parkinson's Patient with Mild Cognitive Impairment, NMR
47. To study the effect of Yoga on pulmonary functions, Respiratory muscle strength and endurance, Chest wall mobility, Inflammatory markers and quality of life in blunt chest trauma patients and their correlation with Thoracic Trauma Severity Score at Level-I Trauma Centre, Trauma Surgery, JPNATC
48. Feasibility of introducing Yoga and its effect on stress and perceived well—Being on New Medical Under-Graduate Students of AIIMS, New Delhi, CCM
49. Anatomical and functional changes in chronic central serous chorioretinopathy patients following various treatment modalities, Dr Rajendra Prasad Centre for Ophthalmic Sciences
50. Reconstruction of post-traumatic facial defects using adipose tissue derived mesenchymal stem cells seeded on 3D printed hydroxyapatite scaffold guided by CAD models in Zygomatico-orbito maxillary complex fractures, Trauma Surgery, JPNATC
51. Central serous chorioretinopathy and meditation: Functional and morphological outcome study, Dr Rajendra Prasad Centre for Ophthalmic Sciences
52. Psychiatric morbidity in HIV/TB co-infection, Medicine and Microbiology
53. Identification of biomarkers for cognitive impairment in mild and moderate traumatic brain injury patients, Trauma Centre, JPNATC
54. Prevalence of common mental disorders among pregnant women in rural Ballabhgarh, Haryana, CCM
55. Translational application of novel clinically accessible biological predictors to improved identification of mild and moderate Traumatic Brain Injury (TBI) induced neuro psychological impairment, Laboratory Medicine, JPNATC
56. A three arm randomized controlled study to compare sexual functions following open Mesh Hernioplasty, Laparoscopic Totally Extra Peritoneal (TEP) and Trans Abdominal Pre-Peritoneal (TAPP) repair of Groin Hernia, Surgical Disciplines
57. To study clinical and immunological parameters in predicting short term outcomes in polytrauma patients admitted to Trauma Surgery (January 2016), Trauma Surgery, JPNATC
58. To study the effect of Yoga on pulmonary functions, Respiratory muscle strength and endurance, Chest wall mobility, Inflammatory markers and quality of life in blunt chest trauma patients and their correlation with Thoracic Trauma Severity Score at Level-I Trauma Centre (January 2016), Trauma Surgery, JPNATC
59. Primary versus delayed primary closure in patients undergoing lower limb amputation following trauma: A randomized control study (January 2017), Trauma Surgery, JPNATC
60. To study management, outcomes and quality of life in patients with pelvic fracture at Level 1 Trauma Center (January 2017), Trauma Surgery, JPNATC
61. Effect of 30 minutes of YOGA and meditation and life style modification in comparison to standard treatment on person with mild to moderate depressive disorders, Mental Health Foundation (India)

62. To develop a bio-feedback rehabilitation technique using residual EMG triggered TMS for spastic patients, Neurology, AIIMS and IIT New Delhi
63. Development of a culturally appropriate health literacy instrument and assessing its validity in Hindi speaking patients receiving general and primary eye care services in New Delhi, Community Ophthalmology, Dr Rajendra Prasad Centre for Ophthalmic Sciences
64. Psychosocial impact of pediatric strabismus on caregivers and the effect of strabismus surgery, Dr Rajendra Prasad Centre for Ophthalmic Sciences
65. A study to assess knowledge regarding identification of delirium in various ICUs patients among staff nurses working in AIIMS, College of Nursing
66. Technology literacy and technology assistance needs of caregivers managing Schizophrenia patients in low-resource settings, Department of Computer Sciences, Indraprastha Institute of Informational Technology, New Delhi (IIIT-D)
67. Assessment of distress, anxiety and depression symptoms amongst patients of suspected familial cancer visiting the IRCH genetic clinic for counselling and analysis of the effect of genetic counselling on them: A prospective cohort study, Medical Oncology, Dr BR Ambedkar IRCH
68. Evaluation of the effect of prosthodontic rehabilitation on quality of life and psychological distress in maxillectomy patients—A preliminary study, Otorhinolaryngology
69. A study to assess knowledge regarding identification of delirium in various ICUs patients among staff nurses working in AIIMS, New Delhi, College of Nursing
70. A study of allocentric neural navigation process schematic utilizing dynamic optic array for prospective control, Physiology
71. A prospective study of sleep pattern, perceived stress and coping strategies in first year medical undergraduate students, Medicine
72. A comparative study of neurochemical alteration on IH MRS in Schizophrenia, obsessive compulsive disorder and schizophrenia with obsessive compulsive symptoms, NMR
73. To correlate functional near infra-red spectroscopy measurement of auditory cortex activation with auditory verbal outcome in prelingual profound sensorineural hearing loss patients after cochlear implantation, Otorhinolaryngology
74. Prospective pilot study evaluating incidence of postoperative cognitive decline in elderly comparing isoflurane and desflurane, Anaesthesiology
75. Effect of integrated Yoga on ART outcomes and psychological stress in patients undergoing In-Vitro-Fertilization (IVF) cycles: A prospective randomized controlled trial, Obstetrics and Gynaecology
76. Clinical and biochemical evaluation for depression in patients with recently diagnosed head and neck cancer, ENT
77. Content analysis and linguistic analysis of suicide notes, Forensic Medicine and Toxicology
78. Development of a scale to measure the psychosocial impact of vitiligo in family members of patients, Dermatology
79. Association of inflammatory cytokines with suicidal deaths: A hospital based comparative cross-sectional study, Forensic Sciences and Toxicology
80. Perioperative anxiety and stress in children and parents undergoing congenital cardiac surgery: Effect of brief intervention, Cardiac Anesthesia
81. Prospective pilot study evaluating incidence of postoperative cognitive decline in older adults comparing isoflurane and desflurane, Anesthesiology
82. Effects of a preoperative carbohydrate drink on postoperative vomiting in paediatric strabismus surgery: A randomised controlled observer blinded trial, Anesthesiology
83. The Integrative Systematic Palliative Care (ISPC) vs Standard Oncology Care in advanced non-small cell lung cancer at a tertiary care centre in India: A prospective randomized controlled trial, Onco-Anesthesia and Palliative Medicine, IRCH
84. Prevalence and factors affecting preoperative anxiety, depression, and distress in cancer patients: A prospective cross section study, Onco-Anesthesia and Palliative Medicine, IRCH
85. Efficacy of a family based comprehensive Yoga program for weight reduction among over-weight children and adolescents, Pediatrics, AIIMS, New Delhi, AYUSH
86. Psychosocial stress and lipid profile as predictors of adverse pregnancy outcomes, Gynaecology and Obstetrics

Completed

1. Cross-sectional, controlled fMRI study on neural correlates of dissociation in dissociative convulsions, Nuclear Magnetic Resonance
2. A phenomenological and EMIC study of shrine based healing practices for mental disorders in North India, Brown University, Providence, USA

3. Identification of associations between genetic variants in neuronal migration pathway and behavioral correlates of dyslexia—linking genes and behavior using familial and sporadic cases National Brain Research Centre (NBRC), Manesar
4. A study of neuro-cognition and neuro-imaging in patients with acute Transient Psychotic Disorder, their first degree relatives and normal controls, DBT
5. Emotional and behavioural health status associated with HIV status disclosure in children with HIV infection aged 8-18 years, Pediatrics, LHMC, New Delhi
6. Study of peripheral stress biomarkers (S100B, 8-Isoprostane and 8-hydroxy-2-deoxyguanosine) in Major Depression, Lab Medicine
7. Study of polymorphisms in TNF- α [308 G/A], IL-1 β [511 C/T], and IL-6 [174 G/C] genes in patients of depression: Their association and clinical severity, Lab Medicine
8. To study the effect of mobile phone use on well-being, Sleep and cognitive function, Medicine
9. HIV associated neurocognitive decline and brain metabolism, Medicine
10. Development of a mobile based intervention framework for difficult to treat severe mental illnesses in low-resource settings, Department of Computer Sciences, Indraprastha Institute of Informational Technology, New Delhi (IIIT-D)
11. Neuro-chemical correlates of anterior cingulate white matter integrity in symptomatic first episode schizophrenia, Neuroimaging and Interventional Neuroradiology, Neurosciences Centre
12. A study of brain activation using functional near infrared spectroscopy and quantitative electro-encephalographic spectral analysis in catatonia, Physiology
13. A study to assess the effects of laughter yoga on perceived stress, quality of sleep and caregiver burden among caregivers of mentally ill clients in AIIMS, New Delhi, College of Nursing
14. A study to assess body image disturbance, self esteem, acne quality of life among adolescents and young adults with acne visiting Dermatology OPD, AIIMS with the view to develop information booklet on 'Psychosocial aspect of Management of acne', College of Nursing

PUBLICATIONS

Journals: 94 Abstracts: 14 Chapters in books: 13 Books: 4

PATIENT CARE

The department runs daily walk-in clinics and follow up clinics in addition to weekly specialty clinics for child and adolescent psychiatric disorders, psychosomatic disorders, common mental disorders, severe mental disorders, dual diagnosis disorders and brain stimulation clinic. Consultation liaison services are provided to the patients admitted in other wards of the hospital. Emergency psychiatric services are provided on a round-the-clock basis for patients visiting casualty.

The department also provides community outreach services 6 days a week at the CRHSP, Ballabgarh, including one day each at the Primary Health Centre at Dayalpur and Chhainsa. Besides pharmacotherapeutic interventions, psychological treatments, Modified Electro Convulsive Therapy (MECT) and advanced treatments like rTMS, tDCS and biofeedback are routinely provided.

PSYCHIATRY OPD	
Number of patient visits	
New	17,204
Old	66,333
SPECIAL CLINICS:	
C.L. Psychiatry	1644
Child Guidance Clinic (C.G.C):	
New	677
Old	930
Dual Diagnosis Clinic:	
New	107
Old	2777
Behavioural Addiction:	
New	21
Old	76
Clinical Psychology Services	2484

Ballabgarh CRHSP Psychiatry services	
New	3131
Special Treatments:	
E.C.T.	480
rTMS	1940
DCS	560
Laboratory Services (Lithium)	681
C-1 (PSYCHIATRY) WARD:	
Admission	282
Discharges	262
LAMA	08
Absconded	03
Transferred out	08

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor Rakesh Kumar Chadda: NN De Oration: Mental Health Services in Disaster Affected Population in Low Resource Settings, 24th National Conference of the Indian Association for Social Psychiatry, Guwahati, 17-19 November 2017; Received Venkoba Rao Oration Award of the Indian Association for Social Psychiatry for the year 2017, to be delivered in 2018; Chair, Technical Resource Group on Injection Drug Users; Member, Executive Committee, National Academy of Medical Sciences (India); Acting Treasurer, National Academy of Medical Sciences (India), September 2016-June 2017; Member, Editorial Board, B J Psych International; Coordinator, Public Lecture on Depression: Let's Talk, 7 April 2017, AIIMS, New Delhi, on occasion of World Health Day; Chair, Organizing Committee, National CME on Emerging Issues in Substance Use Disorders, NAMS Auditorium, 22 July 2017; Chair, Organizing Committee, First National Conference on Addiction Psychology, 7-8 September 2017, AIIMS, New Delhi; Chair, Organizing Committee, First National Conference on Addiction Psychiatry, 27-29 November 2017, AIIMS, New Delhi; Chair, Organizing Committee, First National Conclave on Psychological Trauma, Child Protection and Mental Illness, 27-28 March 2018.

Professor Pratap Sharan is Professor-in-Charge of Student Welfare, AIIMS, member of WHO's International Advisory Group for Revision of ICD-10 Mental and Behavioural Disorders (2009 onwards), WHO's Working Group on Eating Disorders for Revision of ICD-10 Mental and Behavioural Disorders (2012 onwards) and WHO's Guidelines Development Group for Mental Health Gap Action Programme—Intervention Guide (2014 onwards); Peer assessor for post of Professor of Medical Psychology (in Psychiatry) for Columbia University College of Physicians and Surgeons, New York; Senior Editor, Journal for Eating Disorders; Associate Editor, National Medical Journal of India; Member Editorial Board of Indian Journal of Psychiatry, Indian Journal of Social Psychiatry, Journal of Indian Association for Child and Adolescent Mental Health, and Journal of Mental Health and Human Behaviour; Co-Chair for PG Psychiatric Education Sub-committee, Indian Psychiatric Society (2017-2019); Member, AIIMS Research Committee and Ethics Committee; Chaired Plenary Session on "Role of social psychiatry in substance use disorders" and the postgraduate debate on "Cannabis use must be Decriminalized" and "Prohibition is the appropriate approach to deal with problems related to alcohol use" at First National Conference of Addiction Psychiatry (27-29 November 2017, New Delhi); "Sensitivity to diversity" at the First Faculty Mentor Sensitization Program, Vardhman Mahavir Medical College and Safdarjang Hospital (25 October 2017, New Delhi); "Intervention in specific groups" at Annual National Conference on Addiction Psychology (7-8 September 2017, New Delhi); "Behavioural addictions", Conference on Emerging Issues in Substance Use Disorders (22 July 2017, New Delhi); Participated in Master Speaker Video Conference Series, International Psychotherapy Institute; Member Advisory Board for WHO, Ministry of Health, Malaysia project entitled "Strengthening Mental Health Intervention at Primary Care Clinics through Development of Mental Health Screening Tools and Intervention Packages for Children and Adolescent; Department of Biotechnology Project: Stress outcomes on pregnancy, fetal growth and birth weight: Development of methods to identify mothers at risk of preterm birth and intrauterine growth restriction resulting from maternal stress; First Roundtable on Mental Health of Scheduled Tribe Populations in India by the George Institute for Global Health India (28 August 2017, New Delhi); and Nishkam Foundation newsletter; Reviewer for ICMR projects and assessor for Indian Association for Child and Adolescent Mental Health Award Papers; Peer reviewer for following journals: Plos One, BMC Psychology, BMC Psychiatry, Asian Journal of Psychiatry, Evidence-Based Mental Health (BMJ Group), Global Public Health, Global Mental Health, Journal of Eating Disorders, National Medical Journal of India, Indian Journal of Psychiatry, Indian Journal of Palliative Care, Indian Journal of Social Psychiatry, Journal of Postgraduate Medicine Education and Research and Neuropsychiatry; Examiner for Faculty Selection Boards and member of MCI Inspection Teams and MD (Psychiatry) thesis for various national centres; Organized Symposium entitled 'Newer insights in neurobiology of OCD using Magnetic

Resonance Spectroscopy (1H-MRS)', 70th Annual Conference of the Indian Psychiatric Society (5-8 February 2018, Ranchi), and 'Ketamine use in treatment resistant depression', 42nd Annual Conference of Indian Psychiatric Society, North Zone (7-8 October, New Delhi); Chaired/was member of Scientific Committee for following conferences/meetings: Fourth Meeting on Patient Reported Outcomes and Person Centered Care in Mental Health—Outcomes in Mental and Addictive Disorders: Personal, Clinical, Social Perspectives (21-23 September 2018; Washington DC).

Professor Rajesh Sagar was appointed as Honorary Professor by Department of Psychiatry, University of Melbourne, Melbourne, Australia, 2017 onwards; Secretary, Central Mental Health Authority (Regulatory Body under Mental Health Act, Government of India), 2005 continuing; Member, Ethics Committee, National Brain Research Centre, (Deemed University), Manesar, Gurgaon, 2010 continuing; Chief Editor of Indian Psychiatry Society, North Zone (Journal of Mental Health and Human Behavior), October 2010 continuing; Appointed as convener of Specialty Advisory Board in Psychiatry, Diplomate of National Board (DNB), National Board of Examination, New Delhi, 2011 continuing; Member of Ethics Committee of Central Council of Homeopathy Research (CCRH), Ministry of AYUSH, Government of India; 2012 continuing; Appointed as convener of Parliamentary Committee of Indian Psychiatry Society, 2012-2017; Honorary Advisor for Mental Health to Directorate General of Health Services, Ministry of Health and Family Welfare, Government of India, 2013 and continuing; Appointed Co-Chairman, Journal Committee of Indian Psychiatry Society, 2018; Expert committee member to evaluate R&D proposals on the possible impact of EMF radiation exposure from mobile towers and handsets on life and related R&D initiatives, Department of Science and Technology (DST), Government of India, 2014 continuing; Expert member of Committee for Central Adoption Regulatory Authority (CARA), Ministry of Women and Child, Government of India, September 2011-2017; Member of Task Force for Technical Evaluation under Cognitive Science Research Initiative (CSRI), Department of Science and Technology (DST), Government of India, 2014 continuing; Expert member of Technical Advisory Group (TAG) on National Mental Health Program (NMHP), Ministry of Health and Family Welfare, New Delhi, 2014 continuing; Expert working group member under National Mental Health Program (NMHP) for Training of Trainer (ToT) Training Module for GPs/MOs under Ministry of Health and Family Welfare, New Delhi, 2014 continuing; Expert member of Project Review Committee Group to review research projects by Department of Health Research (DHR), Government of India, New Delhi, February 2018; Member of Advisory Committee for the project—Innovative Provision of Primary Mental Health Care in India: The Systematic Medical Appraisal, Referral and Treatment (SMART) Mental Health Programme for Wellcome Trust—DBT Alliance Fellowship by George Institute of Global Health, New Delhi; Member, Selection Committee AIIMS, Patna, Rishikesh and Bhubaneswar, North Delhi Medical College, Hindu Rao, Delhi, ICMR; Expert member of Signal Review Panel of National Coordination Centre, Pharmacovigilance Programme of India, Indian Pharmacopoeia Commission; Nominated member of the Institutional Ethics Committee of the Public Health Foundation of India (PHFI-IEC); Member, Standing Committee on National Mental Health Program for Centre of Excellence—Inspection visit to Medical College/Hospital, Kolkata, Vishakhapatnam, Hubli, Hyderabad, and Warangal; Expert member for framing rules and regulations under the Mental Healthcare Act, 2017, held several meetings; Chairman to frame comprehensive guidelines for safety of school children and including among others on psychometric evaluation of teaching and non-teaching staff, safety audit of premises CCTV monitoring, for Central Board of Secondary Education, 2017, held several meetings; External examiner for DM (Child and Psychiatry) PGIMER, Chandigarh, MD (Psychiatry) Examination, NIMHANS, Bengaluru, Medical Colleges, Udaipur, Jaipur, BKIHS, and Dharan, Nepal, MPhil (Clinical Psychology) at RML Hospital, New Delhi; Expert Member of the Project Review Committee (Clinical) for Intramural Funding of AIIMS, 2017-2018; Received "Most outstanding Researcher" award by Hon'ble Union Minister of HRD Shri. Prakash Javadekar as India's topmost faculty in Psychology/Psychiatry involving data/web search of SCOPUS based on composite score of output, citations, h-index and review by experts for the year 2015-2017. The prize included the citation and Rs 50,000; Invited as expert in Doordarshan (mental health at workplace on 10 October 2017), DD News (Total health on mental health on 22 October 2017), DD News (charchamein on safety in school on 15 September 2017), DD News (on exam stress on 15 February 2017), DD National (cyberbullying on 27 April 2017), DD Kisan (Depression on 29 April 2017), Lok Sabha Channel (Depression on 7 April 2017), NDTV (Humlog on social media on 20 August 2017), NDTV (discussion on child on 9 January 2018), NDTV (discussion on rape on 21 January 2017) News18 (online game), India TV (on child abuse on 23 August 2017) and Radio Program, FM Rainbow (7 April 2017 and 26 October 2017), FM Gold (6 April 2017), Red FM (exam stress on 29 January 2018), Zee News (gaming disorder on 30 December 2017), All India Radio (on Down syndrome on 30 November 2017), AIR (social media on 24 January 2017); Expert member to discuss anomalies/omissions or any other issue related with already existing guidelines of National Mental Health Program (NMHP) 4 July 2017; Member of Expert Group meeting of "Brainstorming on prioritization" regarding development of Registries of Mental Health Problems, Looking at the importance of data collection on a continuous basis on 22 May 2017; Member of Expert Group meeting to deliberate on the developing strategies and intervention programme to address psychological needs and rehabilitation of victims/survivors of Child Sexual Abuse (CSA) by NCPCR, 22 May 2017; Expert member for the meeting under the chairmanship of Secretary, DEPwD, Ministry of Social Justice and Empowerment, to ascertain views of experts in the field of Mental Health on the issue of setting up a National Institute of Mental Health Rehabilitation (NIMHR) on 9 June 2017; Expert member for activities of Ministry of Women and Child Development (WCD) on 29 August 2017 and 9 October 2017; Member for meeting of the Core Group on Mental Health, by National Human Rights Commission, on 1 September 2017; Member to discuss the drugs that should be available at district hospital

under District Mental Health Program (DMHP) under Ministry of Health and Family Welfare, 29 September 2017; Member of the Project Review Group (PRG) on Women's Health to review the extramural research activities of the Division of Reproductive Biology, Maternal and Child Health of ICMR, 20 November 2017; Panel discussion on "Life, Stress and Adversities" based on life of late actress Meena Kumari organized at Indian Habitat Centre, New Delhi, 23 November 2017; Expert member of a group to develop the Expansion of Tele-psychiatry and Virtual Knowledge Network ECH by Ministry of Health and Family Welfare, 28 November 2018; Member of development of "SOP for use of Child Art as an analytical tool for interpretation of Child Sexual Abuse" as support group for victims of Child Sexual Abuse, National Commission for Protection of Child Rights, 20 November 2017; Member of national consultation to discuss the rules and regulations to be framed under the Mental Healthcare Act, 2017 by the Ministry of Health and Family Welfare, on 11 December 2017; Member of Expert Group to devise a road map for National Information and Monitoring System and Dashboard for monitoring of the National Mental Health Programme under Ministry of Health and Family Welfare, 18 December 2017; Expert member of Consultation on Harmful Sexual Behaviour by Very Young Children, by National Commission for Protection of Child Rights on 21 December 2017; Member of national consultation of "Cyber Crimes against Children and Investigation Methodologies for Law Enforcement Agencies" which would enable decision making and serve as a ready reference for the relevant teams, Cyber Peace Foundation, 23 December 2017; Expert member of Annual Meeting of the State Mental Health Authority (SMHA), Delhi under the Chairmanship of Principal Secretary, H&FW, GNCTD at the Delhi Secretariat on 29 December 2017; Expert member of meeting to discuss CSA—Prevention and response, a manual for frontline health workers at National Commission for Protection of Child Rights 23 January 2018; Expert member of the core group to discuss and develop "Mental Health First Aid" (MHFA) of India by the Ministry of Health and Family Welfare, 30 January 2018; Expert opinion provided related to order by Hon'ble Supreme Court on Blue Whale Game/Virtual Online Game by the Ministry of Electronics and Information Technology (MeitY), Government of India; Expert member to attend managing disabilities: Role of assistive technologies organized by ICMR supported by WHO titled stakeholder's consultative workshop on 14-15 December 2017, at Parwasibhartiya Kala Kendra, Delhi; Chairman to develop training program for in-service nurses (ANS and DNS) in coordination with CMET, AIIMS and held several meetings.

Professor Nand Kumar was member of Selection Committee (SC) for Indo-U.S. Fellowship for Women in STEMM (WISTEMM) component under KIRAN Program; Member of Programme Advisory and Monitoring Committee (PA&MC) for the programme Technology Interventions for Disabled and Elderly, (TIDE) by DST, Government of India; Member of committee regarding recruitment rules of newly created faculty posts for NCI-AIIMS.

Professor Mamta Sood was Secretary General of Indian Association for Social Psychiatry.

Dr Sujata Satapathy was Organizing Secretary of 1st National Conclave on Psychological Trauma, Child Protection, and Mental Illness: Directions in Research, Training and Service Provision from 27-28 March 2018 at AIIMS, New Delhi.

Dr Raman Deep Pattanayak was awarded the Research Funds under DST-SERB Early Career Research Award Scheme, 2017 for work titled "Biomarkers of Lithium Responsiveness In Bipolar Disorder"; Coauthored and co-supervised research work won the NIDA-ISAM Best Paper Award at 19th Annual Conference of International Society of Addiction Medicine (ISAM); Associate Editor of Journal of Mental Health and Human Behaviour (JMHHB), Official Journal of Indian Psychiatric Society, North Zone.

Dr Koushik Sinha Deb is the Convener, Website Committee, Indian Psychiatric Society, 2018-2020.

Dr Rohit Verma was assistant editor of the journal—"Asian Journal of Cognitive Neurology"; AIIMS Intramural Award, Received in April 2016 as a co-investigator for the project titled "A prospective study of sleep pattern, perceived stress and coping strategies in first year medical undergraduate students" and continued as principle investigator for the project titled "A study of brain activation using functional near infrared spectroscopy and quantitative electro-encephalographic spectral analysis in catatonia"; Travel Award, Received from the International Parkinson and Movement Disorder Society Asia Oceania Section (MDS-AOS) at 3rd Taiwan International Congress of Parkinson's Disease and Movement Disorders, 2017 held from 17-19 March 2017 at Taipei, Taiwan; Awarded Fellowship of Indian Association of Social Psychiatry (IASP); Awarded 2nd Best poster at IPSNZ, 2017: Low frequency repetitive transcranial magnetic stimulation for treatment of Tourette syndrome: A naturalistic study with three-months of follow-up; Technical expert in ECT—Developed ECT guidelines for National Human Rights Commission, 2017; Technical expert for Disability Evaluation—Member of the core committee for Formulation of Rules for Persons with Disability Act 2016 for Ministry of Social Justice and Empowerment (Divyangjan); Community Services/Camps—Participated in a medical camp; Kargil, Laddakh, July 2017; Mobile app development—Developed and tested a mobile app for patients and caregivers of severe mental illness; Collaboration with Department of Computer Sciences, IIITD, New Delhi; Public lecture—Schizophrenia; Contributed towards the following: Upgradation of Brain Mapping facility—fNIRS system added to the existing QEEG system for development of a state-of-the-art facility for brain mapping, Upgradation of ECT clinic—Improved data collection in functioning of ECT; Added utility of Ketamine use for increasing ECT effectiveness, Advanced signal analysis of Electroencephalography in collaboration with Department of Computer Sciences, IIT, Delhi.

Dr Bichitra Nanda Patra was life fellow of Indian Association for Social Psychiatry; Chaired a free paper session “Addictions in Student and Youth” at the first national conference on Addiction Psychiatry held at AIIMS, New Delhi in November 2017.

Dr Gagan Hans was awarded AIIMS Intramural Project Grant for the year 2017-2018 for the project in collaboration with the Department of NMR, AIIMS; Awarded fellow membership of Indian Psychiatric Society at 70th Annual National Conference of Indian Psychiatric Society 2018 at Ranchi, Jharkhand; Travel Scholarship Award to attend 6th Young Psychiatrist Network Meeting at Bohnice, Prague, September 2017 (Could not attend because of logistics); Served as Peer Reviewer for the Journal of Mental Health and Human Behavior and Clinical Case Reports; Member of the organizing committee of 1st National Conference of the Addiction Psychiatry, November 2017; Successfully conducted pre-professional examination of the IX Semester MBBS students in psychiatry at CRHSP, Ballabgarh; Served on the Medical Board for the psychiatric assessment of newly joined Post Graduate Students at AIIMS; Chaired Free Paper Session at 1st National Conference of the Addiction Psychiatry, November 2017; Chaired Symposium Titled “TF-CBT for Management of Psychological Impact of Disaster on Children” at First National Conclave on Psychological Trauma, Child Protection, and Mental Illness Directions in Training, Research and Service Provisions TRAUMA CONCLAVE, March 2018, AIIMS, New Delhi.

Dr Renu Sharma: Organized Two Days First National Conclave on “Psychological Trauma, child protection and Mental Health” (Co-organizing Secretary) from 27-28 March 2018, Venue-AIIMS, New Delhi; Chaired a Free Paper Session on 44th NAC IACP 2018 and Golden Jubilee Conference, organized by Gautam Budh University, Greater Noida; Won Best Paper Award in Second International Conference of Cognitive Behavior Therapy, 6-8 March, AIIMS, New Delhi; Participated as a resource person on All India Radio’s Programme “AadhaAakash”.

VISITING SCIENTIST

1. Dr Tej K. Bhatia, Professor, Linguistics and Cognitive Sciences, Chancellor’s Exceptional Academic Excellence Professor, Faculty Fellow, Forensic Sciences and National Security Institute, President, Elect, International Association for World Englishes; Editor-in-Chief, Brill Research Perspectives on Multilingualism and Second Language Acquisition, Syracuse University, Syracuse, New York, USA.

9.35. Pulmonary Medicine and Sleep Disorders

Director

Randeep Guleria

Professor and Head

GC Khilnani

Professor

Anant Mohan

Assistant Professors

Karan Madan

Vijay Hadda

EDUCATION

CMEs/Workshops/Symposia/National and International Conferences

Organized by the department

1. AIIMS PULMOCRIT 2017, AIIMS, 13-16 April 2017
2. AIIMS PULMOCRIT 2018, 29 March-1 April 2018

Lectures delivered

Randeep Guleria

1. American Thoracic Society (ATS) International Conference, 19-24 May 2017, Washington DC, USA
2. ALUMNI Oration 2017, PGI Pulm Alumini Meet, 9 April 2017, Nagpur
3. Sleep and PCOS, Plenary Talk, 2nd J&K Medical Science Congress and 1st Annual Meeting of MP PCOS Society, 11-13 May 2017, Sher-i-Kashmir International Conference Centre, Srinagar
4. Lecture, Respiratory Update, 15 October 2017, AIIMS, Patna

5. Lecture, 31st Annual Update, Pulmonary and Critical Care Medicine, 22 October 2017, PGIMER, Chandigarh
6. Air pollution and health, UGC Human Resource Development Centre, University of J&K, 4 December 2017
7. Panel discussion, Modern management of Bronchial Asthma, Annual National Conference on Tuberculosis and Chest Diseases (NATCON), 15-17 December 2017, Rajahmundry, Andhra Pradesh

G.C. Khilnani

1. OSA treatment decreases cardio vascular morbidity—Yes or No? In Favour, SLEEPCON-2017, Indian Sleep Disorders Association, 7-9 April 2017, Coimbatore
2. Faculty, 5th International Symposium on Intensive Care and Emergency Medicine—Best of Brussels 2017, Indian Society of Critical Care Medicine (Pune Branch), 7-9 July 2017, Pune
3. Current concepts in surveillance, Prevention and Management of Ventilator Associated Pneumonia, Monthly Meeting of Indian Society of Critical Care Medicine, 26 August 2017, Coimbatore
4. Management of acute exacerbation of COPD, Post Graduate Review Course, 7-8 October 2017, Jaipur
5. Basic of mechanical ventilation—Indications, modes, initiation, 19th National Conference of Pulmonary Diseases, NAPCON-2017, 16-19 November 2017
6. CAP in ICU, 1st Critical Care Conference, 9-10 December 2017, Jaipur
7. Pneumonia—Microbiology and bedside clinical practice, Committee of Pulmonary PG Update, 19-20 January 2018, Amrita Institute of Medical Sciences, Kochi
8. CPAP and BiPAPs 14th CHESTCON ODISHA 2018, Indian Chest Society (Odisha Chapter), 3-4 February 2018, Odisha
9. Approach to ILD, 14th CHESTCON ODISHA 2018, Indian Chest Society (Odisha Chapter), 3-4 February 2018, Odisha
10. NIV and Oxygen Therapy, 73rd Annual Congress of Association Physician of India, Association of Physicians of India, 22-25 February 2018, Bengaluru
11. Environmental health, 12 February 2018, Indira Paryavaran Bhavan, New Delhi
12. Symposium on Asthma, Indian Chest Society, 18 February 2018, Nagpur
13. Planning and Designing ICUs in India, Indian Society of Critical Care Medicine (ISCCM), 24-25 February 2018, Jaipur
14. Management of Acute Severe Asthma in ICU, 51st Conference of Indian College of Allergy, Asthma and Applied Immunology, ICAAICON 2017, KGMU and Lucknow Medical College and Hospital, 16-18 March 2018 (Sunday), Lucknow
15. Clinical pearls in management of pulmonary and extra pulmonary tuberculosis, World TB Day, National Medicos Organization, 24 March 2018, Meerut
16. ARDS Management and Basic Ventilation Therapy, CME Medicine–2018 (Medicine), 25 March 2018, APICON-86 Trust and RNT Medical College, Udaipur, Rajasthan

Anant Mohan

1. EBUS workshop, Live case, EBUS Workshop, 29 April 2017, Jaypee Hospital, Noida
2. Management of ARDS, Respiratory CME, UP State Chapter, 30 April 2017, Allahabad
3. Voriconazole for aspergilloma, Interventional Pulmonology League Conference, 4 June 2017, Mumbai
4. Panel on occupational COPD, NESCON, 9 July 2017, Madh Island, Mumbai
5. Management of ARDS panel, Emergency Medical Meet, 15 July 2017, AIIMS, Delhi
6. Debate: Spirometry has no role in managing COPD, PACS, 22 July 2017, Metro Noida
7. Clinical evaluation of occupational lung diseases, Radiology ILD CME, 5 August 2017, AIIMS, Delhi
8. Inhaler devices for COPD, Indian Respiratory Summit, 19 August 2017, AIIMS, New Delhi
9. Panel discussion on COPD, Respiratory CME, 1 October 2017, Metro Hospital, Noida
10. BAL in ICU, Bronchoscopy in ICU, 8 October 2017, Fortis, Gurgaon
11. New lung cancer staging system, IHC, NCCP Meeting, 29 October 2017, Habitat Centre, Delhi
12. Lung cancer staging, ASCO Meeting, 10 November 2017, Bengaluru
13. Management of stable asthma, Allergy Immunology Conference, 24 November 2017, VP Chest Institute, Delhi
14. Research in clinical practice, Allergy Immunology Conference, 9 December 2017, VP Chest Institute, Delhi

15. Lung cancer prevention, IRCH Student Mentorship Program, 19 December 2017, AIIMS, New Delhi
16. EBUS panel discussion, TESCON, 21 January 2018, Delhi
17. Lung cancer evaluation, Thoracic Surgery CME, 21 January 2018, AIIMS, New Delhi
18. Complications of stenting and rigid bronchoscopy, Broncocon 2018, 9 February 2018, Royal Care Hospital, Coimbatore
19. Thoracoscopy, Thoracoscopy CME, 16 February 2018, Olympus Centre, Gurgaon
20. Smoking and health, Guest Lecture, 15 March 2018, Venkateshwar College, Delhi
21. NSCLC panel discussion, PGI PLC Course, 24 March 2018, PGI, Chandigarh
22. LC multidisciplinary meeting, AIIMS PULMOCRIT 2018, 31 March 2018, AIIMS, New Delhi
23. Panel discussion on MDR TB, World TB Day, 24 March 2018, AIIMS, New Delhi

Karan Madan

1. Speaker, RESPIRATORY UPDATE 2017, Gawahati Medical College, 28 May 2017
2. Speaker, Respiratory, Critical Care and Sleep Medicine Update 2017, 2 April 2017, Lucknow
3. Speaker, National Pulmonology Meet 2017, Nagpur, 9 April 2017
4. Faculty, EBUS Workshop, Innovations in Oncology Program—Lung Cancer Edition, 22 and 23 April 2017, Delhi
5. Speaker, 2nd J&K Medical Science Congress and 1st Annual Conference of Metabolic Syndrome-Prediabetes-Polycystic Ovary Syndrome Society (M P PCOS CON 2017), 10-13 May 2017, SKICC, Srinagar
6. Faculty, 4th International Endobronchial Ultrasound (EBUS) Conference and Workshop, 29 and 30 April 2017, Noida
7. Speaker, Interventional Pulmonology League 2017, 3 and 4 June 2017, Mumbai
8. Speaker, AIIMS Radiology Course: Interstitial Lung Diseases, 5 and 6 August 2017, AIIMS
9. Approach to cough and breathlessness in pregnancy, Symposium on Medical Disorders in Pregnancy, EDPA Midcon, 30 July 2017, Delhi
10. Faculty, Max Interventional Pulmonology Master Class 2017, Olympus Centre, Gurgaon, 6 to 8 July 2017
11. Faculty, CME: Shifting Gears in COPD Management, 15 July 2017, Delhi
12. Faculty, Development of consensus statement, Diagnosis and Management of Idiopathic Interstitial Pneumonia, 30 July 2017, Delhi
13. Panelist, Emerging therapies in management of allergic asthma and practical challenges in management in India, Indian Respiratory Summit, 19-20 August 2017
14. Faculty, CME: Cryotherapy in Interventional Pulmonology, 6 August 2017, RGCIRC, New Delhi
15. Faculty, 8th Annual Conference of All India Difficult Airway Association, AIIMS, New Delhi
16. Faculty, 8th Annual Conference of Indian Society for Study of Lung Cancer (ISSLC) NALCCON 2017, 9-10 November 2017, Bengaluru
17. Faculty, 31st Annual Update in Pulmonary and Critical Care Medicine, PGIMER, 22 October 2017, Chandigarh
18. Faculty, Contemporary Practices in Surgery: Symposium on Thoracic Surgery 2018, 19-21 January 2017, AIIMS, New Delhi
19. Faculty, UCMS Surgical Oncology Update 2017, National Symposium on Recent Advances in Oncology and Master Video Workshop, New Delhi
20. Faculty, Thoracoscopy and Pleural Insights and Guide—TAPING 2017, CME and Workshop, 29 October 2017, Coimbatore
21. Faculty, 9th National Conference of Pulmonary Diseases—NAPCON 2017, 16-19 November 2017, Kolkata
22. Faculty, LIVERCON 2017 and EUSCON 2017-CME and Workshop, 4-5 November 2017, New Delhi
23. Panelist, Public Lecture: Use Antibiotics With Caution, AIIMS, 14 November 2017, New Delhi
24. Faculty, 1st Indian Summit on Allergy Diagnosis and Allergen Immunotherapy, 8 and 9 December 2017, New Delhi
25. Faculty, National conference on Bronchology and Interventional Pulmonology— BRONCOCON 2018, 9-11 February 2018, Coimbatore
26. Faculty, 1st Year End Review in Management and Treatment of Lung Cancer, 15-17 December, Mumbai
27. Faculty, 3rd National Conference of Thoracic Endoscopy Society, TESCON 2018, 20-21 January 2018, New Delhi

Vijay Hadda

1. Spirometry for pulmonologists, Indian Respiratory Summit, 19 August 2017, AIIMS, New Delhi
2. Rigid bronchoscopy, ICS Haryana Chapter, 20 August 2017, Bhiwani, Haryana
3. Member—Expert Working Committee for Formulating National Guidelines for Basic Flexible Bronchoscopy, 2-3 December 2017, AIIMS, New Delhi
4. Member—Expert Committee Meeting to Formulate National Guidelines for Antibiotic Prescription in ICU, 27-28 January 2018, AIIMS, New Delhi
5. Interpretation of blood gas analysis, NAPCON 2017, 27 November 2017, Science City, Kolkata
6. Patient ventilator asynchrony, NAPCON 2017, 27 November 2017, Science City, Kolkata
7. High flow oxygen device, APICON 2018, 23 February 2018, Bengaluru
8. High flow oxygen device, The 21st Annual Conference of Association of Chest Physicians (West Bengal), 24 February 2018, Kolkata
9. Is my patient ready for weaning, The 21st Annual Conference of Association of Chest Physicians (West Bengal), 24 February 2018, Kolkata
10. Patient ventilator asynchrony, The 21st Annual Conference of Association of Chest Physicians (West Bengal), 24 February 2018, Kolkata
11. COPD phenotype, Thoracic Radiology Symposium, 5 August 2017, AIIMS, New Delhi
12. Basic clinical evaluation and PFT, Thoracic Radiology Symposium, 5 August 2017, AIIMS, New Delhi
13. Medical Thoracoscopy: Role in thoracic ailments, Contemporary Practices in Surgery “Symposium on Thoracic Surgery”, 20 January 2018, AIIMS, New Delhi

RESEARCH

Funded projects

Ongoing

1. Effect of outdoor air pollution on acute respiratory symptoms in Delhi: A multicentric study, Randeep Guleria, ICMR, 1 year, 2017-2018, Rs 22.18 lakhs
2. The effect of Yoga and meditation on dyspnea, muscle strength, inflammatory markers and quality of life in patients with Bronchiectasis, A randomized controlled trial, Randeep Guleria, SATYAM, 3 years, 2017-2020, Rs 55.84 lakhs
3. Role of Ets-1 and Th1 mediated biomarkers in the pathogenesis and assessment of response to treatment in patients with Sarcoidosis, Randeep Guleria, DST, 3 years, 2017-2020, Rs 62.44 lakhs
4. An open label, randomized, active control, clinical trial to compare safety and efficacy of Risorine capsule in adult patients with RNTCP category I pulmonary tuberculosis, Cadilla Pharmaceuticals, Randeep Guleria, 2 years, 2017-2019, Rs 30 lakhs
5. Delhi Air Pollution: Health and Effects (DAPHNE), Randeep Guleria, DBT, 3 years, 2017-2020, Rs 1.5 crores
6. Genetic and hormonal determinants of obstructive sleep apnea syndrome in obese children from North India, Randeep Guleria, DBT, 3 years, 2014-2017, Rs 75.83 lakhs
7. Air pollution in children, Randeep Guleria, Pfizer, 1 year, 2018, Rs 62 lakhs
8. OSA in children, Randeep Guleria, DBT, 5 years, 2014-2019, Rs 90 lakhs
9. Elucidation of genetic alterations to understand the biology of non small cell lung cancer patients, Anant Mohan, DBT, 3 years, 2015-2018, Rs 25 lakhs
10. A multicenter, randomized, 52-week treatment, double blind, triple dummy, parallel-group study to assess the efficacy and safety of QMF-149 compared with mometasonefuroate in patients with asthma-Phase III, Anant Mohan, Novartis, 2 years, 2016-2018, Rs 10 lakhs
11. Comprehensive assessment of clinical outcomes following a hospital based structured pulmonary rehabilitation programme in patients with moderate severe COPD and strategies for field-level implementation, Anant Mohan, ICMR, 3 years, 2018-2021, Rs 35.5 lakhs
12. Identification of novel biomarkers in active and latent TB in conjunction with HIV co-infection, Anant Mohan, DBT, 3 years, 2017-2020, Rs 1.82 crores

Departmental projects

Ongoing

1. Immune cell dysfunctions and risk of hospital acquired infections in critically ill patients with sepsis
2. Ultrasonographic characteristics of diaphragm during spontaneous breathing trial

3. Sleep disordered breathing in interstitial lung disease
4. Characterization of leukocytes and prediction of outcome among patients with sepsis
5. Efficacy of Intrabronchial Voriconazole Instillation for Inoperable Pulmonary Aspergilloma: A randomized controlled trial
6. Assessment of diaphragmatic function by ultrasonography and cervical magnetic phrenic nerve stimulation in patients with chronic obstructive pulmonary disease and healthy controls—A comparative study
7. An observational study of the clinic-pathological profile and outcomes in the patients with lung cancer at a tertiary care centre
8. Comparison of diagnostic yield using graded suction pressures during EBUS TBNA
9. Rigid mini thoracoscopy vs Semi-rigid thoracoscopy for undiagnosed exudative pleural effusion: A randomized controlled trial
10. A study to analyze CD27 expression on T cells to differentiate active and latent tuberculosis
11. A study of chronic respiratory diseases and associated factors among elderly persons in a rural area of Haryana
12. The effect of pulmonary rehabilitation in patients with non-cystic fibrosis bronchiectasis: A randomized controlled trial
13. Clinical profile and treatment outcomes of granulomatous lymphadenitis
14. Study of outcomes following various interventional procedures for central airway obstruction
15. An observational study of the clinico-pathological profile and outcomes in patients with lung cancer at a tertiary care center
16. Role of polyamines in lung diseases and mediating cellular stress and apoptosis via Nef2 signaling pathway in COPD patient and cigarette smoke and Biomass extract model
17. Role of Ets-1 and T helper cytokines in the pathogenesis and disease progression in patients with Sarcoidosis
18. Clinical implications of detecting Epidermal Growth Factor Receptor (EGFR) gene mutations and gene expression in serum of patients with advanced lung Adenocarcinoma
19. A prospective study of Sonographic assessment of skeletal muscle among patients with sepsis
20. Comparative evaluation of mycobacterial antigen specific immune responses in Sarcoidosis and Tuberculosis
21. Identification and evaluation of differentially expressed protein as biomarker in urine of extra—Pulmonary tuberculosis patients
22. Rigid Mini Thoracoscopy versus Semi-Rigid Thoracoscopy in undiagnosed exudative pleural effusion: A randomized controlled trial
23. To study the dynamic relationship of airway colonization and endotracheal tube biofilm with ventilator associated pneumonia
24. Development and validation of prediction rule to predict trans diaphragmatic pressure (PDi) using Ultr4asound and Spirometry in patients with moderate to severe chronic obstructive pulmonary disease
25. Effect of Xylometazoline Administration during nasal flexible bronchoscopy: A double blind, randomized, placebo-controlled trial

Completed

1. Reliability of Ultrasonographic skeletal muscle thickness measurement by various levels of health care providers in ICU
2. Comparison of endotracheal tube with subglottic suction drainage versus standard endotracheal tube in the incidence of airway colonization and VAP
3. The effect of pulmonary rehabilitation in patients with non-cystic fibrosis bronchiectasis: A randomized controlled trial
4. Comparison of endotracheal tube with subglottic suction drainage versus standard endotracheal tube in the incidence of airway colonization and VAP
5. NIV-NAVA vs NIV-PS for COPD exacerbation
6. Predictors of ventilator associated pneumonia in patients of acute COPD exacerbation and its impact on short term and 3 months outcome
7. Sleep in ICU
8. To study of prevalence and clinical profile for Sarcoidosis patients with cardiac involvement
9. Role of total antioxidant status in the diagnosis and response to therapy in patients with pulmonary Sarcoidosis

10. Comparison of indotracheal tube with subglottic suction drainage with standard endotracheal tube in the incidence of airway colonization and VAP
11. Predictors of ventilator associated pneumonia in patients of acute exacerbation with COPD and its impact on short term and 3 months outcome

Collaborative projects

Ongoing

1. Blood test for all forms of active Tuberculosis (TB) for commercialization in India, Laboratory Medicine
2. Transcriptome analysis to understand mechanism of tolerance in the hosts upon *Mycobacterium tuberculosis* infection, Laboratory Medicine
3. Adhesive sensors for detection of tuberculosis from skin, Laboratory Medicine
4. Development of platform technologies for high affinity antibodies for in vitro diagnostics, Laboratory Medicine
5. Lipid-based immunodiagnostics of active tuberculosis, Laboratory Medicine
6. Comparisons of cytokines, matrix metalloproteinase and bone markers between normal, pulmonary, osteomyelitis and osteoarticular tuberculosis subjects, Orthopedics
7. Towards differential diagnosis of tuberculosis at extrapulmonary sites using blood based gene signatures, Orthopedics
8. A 12-week treatment, multi-center, randomized, double-blind, double-dummy, parallel group study to assess the efficacy and safety of switching from salmeterol/fluticasone to QVA149 (indacaterol maleate/glycopyrronium bromide) in symptomatic COPD patients, Novartis
9. A double-blind, randomized, placebo controlled trial evaluating efficacy and safety of oral nintedanib treatment for at least 52 weeks in patients with “Systemic sclerosis associated interstitial lung disease” (SSc-ILD), Boehringer Ingelheim
10. Effect of outdoor air pollution on acute respiratory symptoms in Delhi: A multicentric study, ICMR
11. Role of Ets-1 and Th1 mediated biomarkers in the pathogenesis and assessment of response to treatment in patients with Sarcoidosis
12. Delhi Air Pollution: Health and Effects (DAPHNE)
13. Health effects of air pollution in children funded by M/s Pfizer
14. Role of polyamines in lung diseases and mediating cellular stress and apoptosis via Nef2 signaling pathway in COPD patient and cigarette smoke and Biomass extract model
15. Clinical implications of detecting Epidermal Growth Factor Receptor (EGFR) gene mutations and gene expression in serum of patients with advanced lung Adenocarcinoma
16. A prospective study of Sonographic assessment of skeletal muscle among patients with sepsis
17. Comparative evaluation of mycobacterial antigen specific immune responses in Sarcoidosis and Tuberculosis
18. Rigid Mini Thoracoscopy versus Semi-Rigid Thoracoscopy in undiagnosed exudative pleural effusion: A randomized controlled trial
19. To study of prevalence and clinical profile for Sarcoidosis patients with cardiac involvement
20. Comparison of indotracheal tube with subglottic suction drainage with standard endotracheal tube in the incidence of airway colonization and VAP
21. NIV-NAVA vs NIV-PS for COPD exacerbation
22. Predictors of ventilator associated pneumonia in patients of acute exacerbation with COPD and its impact on short term and 3 months outcome
23. To study the dynamic relationship of airway colonization and endotracheal tube biofilm with ventilator associated pneumonia
24. Development and validation of prediction rule to predict trans diaphragmatic pressure (PDi) using Ultr4asound and spirometry in patients with moderate to severe chronic obstructive pulmonary disease
25. Effect of Xylometazoline Administration during nasal flexible bronchoscopy: A double blind, randomized, placebo-controlled trial
26. Sleep in ICU
27. Role of polyamines in lung diseases and mediating cellular stress and apoptosis via Nef2 signaling pathway in COPD patient and cigarette smoke and Biomass extract model
28. Role of Ets-1 and T helper cytokines in the pathogenesis and disease progression in patients with Sarcoidosis

29. Clinical implications of detecting Epidermal Growth Factor Receptor (EGFR) gene mutations and gene expression in serum of patients with advanced lung Adenocarcinoma
30. Role of total antioxidant status in the diagnosis and response to therapy in patients with pulmonary Sarcoidosis
31. A prospective study of Sonographic assessment of skeletal muscle among patients with sepsis
32. Comparative evaluation of mycobacterial antigen specific immune responses in Sarcoidosis and Tuberculosis
33. Identification and evaluation of differentially expressed protein as biomarker in urine of extra-pulmonary tuberculosis patients
34. Rigid Mini Thoracoscopy versus Semi-Rigid Thoracoscopy in undiagnosed exudative pleural effusion: A randomized controlled trial
35. Study of the immunological impact of Type I-Interferon(s) on immune response in tuberculosis patients, Biotechnology

Completed

1. Diagnostic yield of Semi-Rigid Thoracoscopy in undiagnosed pleural effusion
2. Prevalence of aspergillus fumigates hypersensitivity in patients with bronchial asthma
3. Fractional excretion of Nitric Oxide (FeNO) in obese patients with obstructive sleep apnea
4. Pulmonary complications after hematopoietic stem cell transplantation

PUBLICATIONS

Journals: 44

Abstracts: 6

Chapters in Books: 3

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor Randeep Guleria delivered an Oration on Sleep Medicine and NCDs, 2nd J&K Medical Science Congress and 1st Annual Meeting of MP PCOS Society, 11-13 May 2017, Sher-i-Kashmir International Conference Centre (SKICC), Srinagar; Attended Technical Consultation on Latent TB Infection at NIRT, Chennai on 29 and 30 June 2017 at NIRT, Chennai; Participated as Guest of Honour at the Inaugural Function of 23rd NESCON-2017 on 8 July 2017, Erangal Beach, Madh Island, Mumbai; Attended Annual Academic Sessions of Sri Lanka College of Pulmonologists—“Respire IX” as resource person held from 6-8 July 2017 at Colombo; Attended CME on “Management of Asthma and COPD”, organized by Dehradun Chest Forum on 16 July 2017, Dehradun; Appointed as External Expert to assist the Assessment Board at Indira Gandhi Institute of Medical Sciences, Patna on 17 July 2017; Received B.P. Koirala Memorial Oration Award 2017 and delivered B.P. Koirala Memorial Oration and Grace at 97th B.P. Jayanti as Chief Guest at BPKI, Dharan, Nepal on 9 September 2017; Chief Guest for 13th World Heart Day Celebrations on 17 September at PHD Chamber of Commerce and Industry, PHD House, New Delhi; Guest of Honour in the Annual Research Day of the PGIMER, Chandigarh on 7 October 2017; Presented a paper during CHEST-2017 Annual Meeting, 27-31 October 2017 at Toronto, Ontario, Canada; Dr P.K. Sen TAI Gold Medal Oration Award, Annual National Conference on Tuberculosis and Chest Diseases (NATCON), 15-17 December 2017, Rajahmundry, Andhra Pradesh; Institute Day Oration, IGIMS, Patna, 12 February 2018; Participated in International Summit on Biotechnology and Healthcare Technology, 1-4 November 2017, Andalusia, Spain; Chief Guest to deliver awards and degrees at 17th Convocation of Maharashtra University of Health Sciences, Nashik, 15 November 2017; Attended 19th National Conference of Pulmonary Diseases (NAPCON), 16-19 November 2017, Kolkata; Guest of Honour to inaugurate NANOBIOTECK 2017, Trivandrum, 6 December 2017; Chief Guest, 113th Foundation Day Ceremony of King George’s Medical University (KGMU), Lucknow on 24 December 2017; Delivered opening remarks, Scientific Sessions of AAPI Global Healthcare Summit-2017 at Kolkata from 28 and 29 December 2017; Attended Organized Medicine—Academic Guild of India a joint initiative of Indo US Emergency Summit, Department of Emergency, AIIMS and AIIMS with Centre for Disease Control (CDC) on 7 January 2018 at Nagpur; Attended meeting with IIT, Kharagpur for a possible collaboration with IIT Kharagpur for appropriate use of technology in Medical Sciences on 6 February 2018 at Kharagpur; Attended 23rd National Conference of Bronchology and Interventional Pulmonary (BRONCOCON-2018) at Coimbatore from 9-11 February 2018; Attended 15th Healthcare Executive Management Development Programme on 18 February 2018 at Agra; Attended 73rd Annual Conference of Association of Physicians at Bengaluru, Karnataka on 23 February 2018; Attended 4th Convocation of National Institute of Pharmaceutical Education and Research (NIPER), Raebareli on 24 February 2018 at CSIR-CDRI Campus, Lucknow; Attended CME cum Workshop organized by Kanpur Society of Chest Physicians on 25 February 2018 at Kanpur; Attended the ET Hospital Strategic Management Summit at Mumbai on 9 March 2018; Visited Vivekanand Medical Institute at Palampur, Himachal Pradesh to review the work and further guidance and monitoring the tertiary care hospital to provide better patient care from 11-13 March 2018; Attended meeting of EU Horizon 2020 Project “STriTuVaD-In Silico Trial for Tuberculosis Vaccine Development”, 19-23 March 2018, Catania, Italy.

Professor GC Khilnani delivered ISCCM Oration, 24th Annual Congress CRITICARE-2018, Indian Society of Critical Care Medicine (Varanasi Chapter), Varanasi, 7-11 March 2018; Chaired sessions: (i) Fungal infections, 5th International Symposium on Intensive Care and Emergency Medicine—Best of Brussels 2017, Indian Society of Critical Care Medicine (Pune Branch), 7-9 July 2017; (ii) Plenary Session, 7th International CME, Workshop and Conference, Cost effective use of Technology I e-Healthcare, 11-13 September 2017, AIIMS; (iii) 1st meeting to formulate guidelines on Lung/Heart Lung Transplantation, 14 September 2017, AIIMS; (iv) Clinico Pathological Conference, 19th National Conference of Pulmonary Diseases, NAPCON-2017, 16-19 November 2017.

Professor Anant Mohan was member of the Independent Expert Committee—Serious Adverse Events, Drugs Controller General (India); Member of special committee of “Special Centre for Molecular Medicine”, JNU; Member of task force “Environmental Sciences” at National Institute for Research in Environmental Health, Bhopal; Member Secretary, Indian Chest Society, Delhi-NCR Chapter; Organized Indian Respiratory Summit, Delhi, 19-20 August 2017; Chief co-ordinator of “Expert Committee Meeting to Formulate National Guidelines for basic Flexible Bronchoscopy”, 2-3 December 2017, Delhi.

Dr Karan Madan participated in the “Hands on workshop on Sample Size Determination for Various Research Questions” from 31 July-1 August 2017 at AIIMS, New Delhi; Chaired a session “Role of Imaging in Extra-Pulmonary Tuberculosis” at the World TB Day Symposium held at AIIMS on 24 March 2018.

Dr Vijay Hadda participated in expert committee meeting to formulate national guidelines for basic flexible bronchoscopy, Co-organized by Department of Pulmonary Medicine and Sleep Disorders in collaboration with NCCP, ICS and Indian Bronchology Society, 2-3 December 2017; Expert committee meeting to formulate national guidelines for antibiotic prescription in ICU, Co-organized by Department of Pulmonary Medicine and Sleep Disorders in collaboration with ISCCM, 27-28 January 2018; Workshop on Pulmonary Function Testing Co-organized by Department of Pulmonary Medicine and Sleep Disorders from, 19 and 20 August 2017; Bronchoscopy workshop at Bhiwani, Haryana on 20 August 2017; AIIMS PULMOCRIT 2018, Co-organized by Department of Pulmonary Medicine and Sleep Disorders, 29 March-1 April 2018; AIIMS-CHEST workshop on advanced mechanical, Co-organized by Department of Pulmonary Medicine and Sleep Disorders from 29 March-1 April 2018; Respiratory Critical Care Workshop during NAPCON 2017; Workshop on NIV and Oxygen therapy organized during APICON 2018 by Association of Physicians of India, at Bengaluru, 23 February 2018.

9.36. Radiodiagnosis

Professor and Head

Arun Kumar Gupta

Professors

Deep Narayan Srivastava
Sanjay Sharma (RPC)
Shivanand Gamanagatti (Trauma Centre)

Raju Sharma
Ashu Seith Bhalla

Sanjay Thulkar (IRCH)
Smriti Hari
Atin Kumar (Trauma Centre)

Associate Professors

Chandan J Das
Manisha Jana

Madhusudhan KS
Devasenathipathy Kandasamy

Surabhi Vyas
Chandrashekhara SH (IRCH)

Assistant Professors

Smita Manchanda
Mukesh Yadav (IRCH)

Ankur Goyal

Priyanka Naranje
Ekta Dhamija (IRCH)

Scientist-IV

Shashi B. Paul

Chief Technical Officer

Mrs Kavita Taneja

HIGHLIGHTS

The departmental faculty was actively engaged in patient care, education and research. The department made a concerted and successful attempt to reduce the waiting period for various imaging procedures. Reporting of all investigations is currently electronic and done on work-stations. Faculty members delivered over **200 lectures** in various CMEs, national and

international conferences. Faculty members were actively involved in research, and published **117 papers** in various indexed national and international journals and contributed 25 chapters to textbooks of Radiology. They also edited two books on Radiology. About 59 posters and oral papers were presented at various conferences in India and abroad. The department faculty members were principal investigators in **7 funded projects** (one each from Department of Health Research, ICMR and DST and four intramural research projects). Besides, they were involved in 32 completed and ongoing departmental projects and 98 collaborative projects with other clinical departments. The department **conducted 4 CMEs** during this period which were very well received and attended by delegates from across the country.

EDUCATION

Undergraduate

The department faculty was actively involved in the teaching of undergraduate students. There were a total of 60 lectures taken by the faculty for them in this period.

Postgraduate

MD: There were a total of 25 junior residents in the department during this period, including 8 new residents who joined the department.

Academic activities for postgraduate students included around 35 seminars, 35 journal clubs, 70 case discussions, 70 interesting film sessions and 80 lecture classes.

The department provided short-term training to a total of 6 radiologists from all over the country during this period.

BSc (Hons) Medical Technology in Radiography (MTR)

This course is of three years duration, and a total of 29 students are pursuing this course.

CMEs/Workshops/Symposia/National and International Conferences

CME organized:

1. 2nd AIIMS Interventional Radiology Course on “Combined Ultrasonographic and Fluoroscopic Interventions”, 8-9 April 2017
2. AIIMS Radiology Course on “Interstitial lung diseases”, 5-6 August 2017
3. Clinical Head and Neck Radiology: A case-based approach, 9 December 2017
4. AIIMS Radiology Course on “Update on Abdominal MR Imaging”, 3-4 February 2018

Lectures delivered

Deep N Srivastava

1. MSK tuberculosis: Radiologist’s perspective, Symposium on Musculoskeletal Tuberculosis, 30 July 2017, AIIMS, Raipur
2. Percutaneous vertebroplasty: Overview and technique, Interventional Radiology Workshop on Musculoskeletal Spinal Pain Management, 24 August 2017, New Delhi
3. Percutaneous Kyphoplasty: Overview and technique, Interventional Radiology Workshop on Musculoskeletal Spinal Pain Management, 24 August 2017, New Delhi
4. Percutaneous laser disc decompression: Overview and technique, Interventional Radiology Workshop on Musculoskeletal Spinal Pain Management, 24 August 2017, New Delhi
5. Vertebral augmentation procedures: Current status, 5th Asia Pacific Congress of Interventional Oncology, 24-27 August 2017, New Delhi
6. IR treatment of low back pain: Current status, 5th Asia Pacific Congress of Interventional Oncology, 24-27 August 2017, New Delhi
7. Intervertebral disc herniation: Imaging and percutaneous IR treatment, Annual Conference of Musculoskeletal Society (MSS), 15-17 September, Kolkata
8. Anatomical Radiology: Clinical prospects, 25th Silver Jubilee Conference of the Anatomical Society of India (UPASICON), 13-14 October, Meerut, UP
9. Environment and health: Radiologist’s perspective, 57th Annual Conference of National Academy of Medical Sciences (India), 27-29 October 2017, Amritsar
10. Imaging and interventions in low back pain, 43rd Annual Conference of IRIA Assam, 4-5 November 2017, Shillong
11. IR treatment in liver tumours, IRIA: Assam Chapter, 15-16 December 2017, Guwahati
12. IR treatment in gastrointestinal haemorrhage, IRIA State Branch Conference of Assam, 15-16 December 2017, Guwahati

13. Fluoroscopic-guided interventional chronic pain procedure, 23rd Annual National Conference of Indian Society for the Study of Pain, 1 February 2018, New Delhi
14. IR in Oncology, Society of Oncologic Imaging Conference, 3-4 February 2018, Chennai
15. MSK IRs: Past, present and future, 20th National Conference of ISVIR, 12-15 February, Lucknow
16. US-guided palliative care interventions, 25th International Conference of Indian Association of Palliative Care (IAPCON), 23-25 February 2018, New Delhi

Raju Sharma

1. Abdominal MR imaging: An overview, Medical Imaging Conference, 15 April 2017, IIT, Delhi
2. Film Reading Session, Apollo Hot Seat Residents Education Program, 19 August 2017, Apollo Hospital, New Delhi
3. Moderated panel discussion on plain radiograph of abdomen: Does it still have a role? APCIO and Annual Conference of Society of Emergency Radiology 2017, 25 August 2017, New Delhi
4. Imaging of Spinal Dysraphism, Annual Conference of Indian Society of Pediatric Radiology, 9 September 2017, Pune
5. Imaging of pancreatic cancer, Abdominal Imaging Workshop, 10 September 2017, Nanawati Hospital, Mumbai
6. Current concepts in Acute Pancreatitis, First Annual Conference of Indian Society of Gastrointestinal Radiology, 7 October 2017, Chennai
7. Dr T. Jayanarasimhulu Oration: Imaging of Acute Pancreatitis, Telangana State Branch IRIA Annual Conference, 13 October 2017, Hyderabad, Telangana
8. Intestinal obstruction: Role of imaging, UP state Chapter IRIA, Annual Conference, 28 October 2017, AMU, Aligarh, UP
9. Imaging the Mediastinum, 4th AIIMS-MAMC-PGI Imaging Course on Chest Imaging, 3 November 2017, MAMC, New Delhi
10. Film Reading Session, International Day of Radiology CME, 11 November 2017, IRIA House, New Delhi
11. Imaging the Complications of Whipple's Surgery, Annual Conference of Delhi State Chapter of Association of Surgeons, 11 November 2017, LHMC, New Delhi
12. Imaging of pancreatitis and its variants, Hepatobiliary CME of IRIA Delhi, 18 November 2017, ILBS, New Delhi
13. Imaging Focal Liver Lesions, Odisha IRIA State Chapter Annual Conference, 9 December 2018, Cuttack
14. State of Art Small Bowel Imaging, Odisha IRIA State Chapter Annual Conference, 9 December 2018, Cuttack
15. Imaging the mediastinum, AIIMS Thoracic Surgery Symposium, 20 January 2018, AIIMS, New Delhi
16. Suren Kothari Memorial Film Reading Session for experts, Asian Oceanian Congress of Radiology 2018, 25 January 2018, Mumbai
17. TB versus Crohn's Disease: Can Imaging Play a Role, Asian Oceanian Congress of Radiology 2018, 26 January 2018, Mumbai
18. Imaging a Solid Pancreatic Mass, AIIMS Abdominal MR Imaging Update, 4 February 2018, AIIMS, New Delhi
19. Ulcero-constrictive Diseases of Gut, AIIMS Abdominal MR Imaging Update, 4 February 2018, AIIMS, New Delhi
20. Moderated Panel Discussion on Imaging a Solid Pancreatic Lesion, AIIMS Abdominal MR Imaging Update, 4 February 2018, AIIMS, New Delhi
21. Film Reading Session on Abdominal MR Imaging, AIIMS Abdominal MR Imaging Update, 4 February 2018, AIIMS, New Delhi
22. GI Radiology: What the Gastroenterology Resident Should Know, GYM Course of Indian Society of Gastroenterology, 11 February 2018, New Delhi
23. Film Reading Session, Delhi Imaging Update 2018: Annual Conference of Delhi State Chapter of IRIA, 25 February 2018, LHMC, New Delhi
24. Adrenal Imaging, Indo-US Onco-Imaging Conference, 21 March 2018, Tata Memorial Hospital, Mumbai
25. Quantitative MR Imaging of Renal Masses, International Society of Magnetic Resonance in Medicine Workshop on Quantitative MRI, 27 March 2018, New Delhi
26. Imaging of Low Backache, 4th AIIMS-MAMC-PGI Imaging Course on Neuroradiology, 31 March 2018, PGIMER, Chandigarh

Sanjay Sharma

1. Radiological Diagnosis in Ophthalmology, Golden Jubilee Year Workshops: Oculoplasty and Ocular Oncology, 3 December 2017, New Delhi
2. Imaging in Neuro-ophthalmology, Golden Jubilee Year Workshops: Neuro-ophthalmology and Imaging Update, 4 February 2017, New Delhi

Ashu Seith Bhalla

1. Algorithmic approach to vascular anomalies, AIIMS Radiology Course on Ultrasound and Fluoroscopy Guided Interventions USFI, 8-9 April 2107, New Delhi
2. Case-based discussion on Vascular Anomalies Anomalies, AIIMS Radiology Course on Ultrasound and Fluoroscopy Guided Interventions USFI, 8-9 April 2107, New Delhi
3. Panellist in a panel discussion on “Approach to Idiopathic Interstitial Pneumonias”, AIIMS Pulmocrit-2017, 13-16 April 2017, New Delhi
4. Imaging in Respiratory Emergencies, “Gyan P Lal CME” of IRIA on “Emergency and Trauma Radiology”, 19-20 May 2017, New Delhi
5. Systematic reading of CT/ HRCT, 12th Mid Term Paediatric Pulmonology CME—Paediatric Chest Radiology and Imaging, 8 July 2017, Kolkata
6. Recurrent pulmonary infections, 12th Mid Term Paediatric Pulmonology CME—Paediatric Chest Radiology and Imaging, 8 July 2017, Kolkata
7. ILD in older children, 12th Mid Term Paediatric Pulmonology CME—Paediatric Chest Radiology and Imaging, 8 July 2017, Kolkata
8. No longer in the back room: Increasing use of POCUS and its implications for radiology workflow, APCIO—Joint Session of 5th Asia Pacific Congress of Interventional Oncology, 4th Annual Meeting of Society of Emergency Radiology and Annual Aorta and Endovascular Course, 25-27 August 2017, New Delhi
9. Workshop on “Thoracic ultrasound in the ER”, APCIO—Joint Session of 5th Asia Pacific Congress of Interventional Oncology, 4th Annual Meeting of Society of Emergency Radiology and Annual Aorta and Endovascular Course, 25-27 August 2017, New Delhi
10. Paediatric mediastinum, XVth Annual National Conference of Indian Society of Paediatric Radiology, 9-10 September 2017, Pune
11. Paediatric interstitial lung diseases, XVth Annual National Conference of Indian Society of Paediatric Radiology, 9-10 September 2017, Pune
12. Cystic lung diseases, CME of Indian College of Radiology and Imaging (ICRI) Hosted by Karnataka Branch of Indian Radiological and Imaging Association IRIA, 23-24 September 2017, Mysore
13. Imaging of chest tuberculosis, CME of Indian College of Radiology and Imaging (ICRI) hosted by Karnataka Branch of Indian Radiological and Imaging Association IRIA, 23-24 September 2017, Mysore
14. Imaging of respiratory emergencies, CME of Indian College of Radiology and Imaging (ICRI) Hosted by Karnataka branch of Indian Radiological and Imaging Association IRIA, 23-24 September 2017, Mysore
15. Radiological approach to acute dyspnoea, 31st Annual State Conference of IRIA UP State Chapter, 28-29 October 2017, Aligarh
16. Imaging and Intervention in Hemoptysis, 31st Annual State Conference of IRIA UP State Chapter, 28-29 October 2017, Aligarh
17. Film Reading Session, 4th AIIMS-MAMC-PGI Imaging Course Series, 2nd Course on Chest and Cardiovascular Imaging, 3-4 November 2017, New Delhi
18. Imaging of Tracheobronchial Tree, 4th AIIMS-MAMC-PGI Imaging Course Series, 2nd Course on Chest and Cardiovascular Imaging, 3-4 November 2017, New Delhi
19. Case-based ILDs, CME: Chest Update, 11-12 November 2017, Mumbai
20. Tuberculosis—Current state of the art radiology and concepts, CME: Chest Update, 11-12 November 2017, Mumbai
21. Approach and interpretation of chest diseases on the basis of CT patterns, National Conference on Pulmonary Diseases NAPCON, 16-19 November 2017, Kolkata
22. MRI scan of chest: Indications and interpretation, National Conference on Pulmonary Diseases NAPCON, 16-19 November 2017, Kolkata
23. Lung nodules on HRCT, National Conference on Pulmonary Diseases NAPCON, 16-19 November 2017, Kolkata
24. Interstitial Lung Disease Imaging What Is New, Respicon—India, National Conference of Interventional Pulmonology, Respiratory Medicine and Sleep, 1-3 December 2017, New Delhi

25. Persistently opaque maxillary sinus: Approach at held at AIIMS, New Delhi
26. AIIMS Radiology Course—Clinical Head and Neck Radiology—Case-based approach, 9 December 2017, New Delhi
27. Interventional Radiology: Thoracic applications, Contemporary Practices in Surgery: Symposium on Thoracic Surgery 2018, 19-21 January 2018, New Delhi
28. Interstitial lung diseases, 17th Asian Oceanian Congress of Radiology and 71st National Conference of Indian Radiological and Imaging Association AOCR 2018, 25-28 January 2018, Mumbai
29. Film Reading Session, 17th Asian Oceanian Congress of Radiology and 71st National Conference of Indian Radiological and Imaging Association AOCR 2018, 25-28 January 2018, Mumbai
30. Ethics in Radiology, AIIMS Radiology Course: Update on Abdominal MR Imaging, 3-4 February 2018, New Delhi
31. Imaging in Interstitial Lung Disease: An Update, Annual Conference of Delhi State Branch of IRIA, Delhi Imaging Update 2018, 23-25 February 2018, New Delhi
32. Imaging in Extra-Pulmonary Chest Tuberculosis, Symposium on Extra-pulmonary TB on World TB Day, 23 March 2018, New Delhi
33. Film Reading Session—Head and Neck Radiology, 4th AIIMS—MAMC-PGI Course on Neuroradiology Including Head and Neck Radiology, 30 March-1 April 2018, Chandigarh
34. Imaging of Maxillofacial Lesions, 4th AIIMS—MAMC-PGI Course on Neuroradiology Including Head and Neck Radiology, 30 March-1 April 2018, Chandigarh
35. Targeting a lung lesion: Radial EBUS/CT guidance: How to choose, AIIMS Pulmocrit 2018, 31 March-1 April 2018, New Delhi

Smriti Hari

1. Panel discussion on Screening and the Indian Woman, Fifth National Conference of the Breast Imaging Society (India), BISICON 2017, 23 September 2018, Goa
2. Panel discussion: What BIRADS category is this? Fifth National Conference of the Breast Imaging Society (India), BISICON 2017, 23 September 2018, Goa
3. Missed cancer on Mammogram: Causes and cures, BTCON 2017—3rd workshop on Breast Imaging organized by Breast and Thyroid Society of Nepal in collaboration with Society of Breast Imaging, USA, 6 October 2017, Kathmandu
4. Breast interventions in the context of developing countries, BTCON 2017—3rd workshop on Breast Imaging organized by Breast and Thyroid Society of Nepal in collaboration with Society of Breast Imaging, USA, 6 October 2017, Kathmandu
5. Indications and interpretation of mammography, CME; Comprehensive review of Breast Imaging and Intervention, 4 February 2018, Vishakhapatnam
6. Contrast enhanced mammography and dedicated breast CT, CME; Comprehensive Review of Breast Imaging and Intervention, 4 February 2018, Vishakhapatnam
7. Digital Breast Tomosynthesis; Hands on workshop, CME; Comprehensive Review of Breast Imaging and Intervention, 4 February 2018, Vishakhapatnam
8. Panel discussion on Breast Cancer in the developing world: Challenges in diagnosis and management, 1st Indo-U.S Collaborative Conference on Oncological Imaging (OICON), 21 March 2018, Tata Memorial Hospital, Mumbai
9. ‘Panel discussion; Is it Breast cancer or is it?’, 4th Medanta Breast Imaging Conference in collaboration with Breast Imaging Society (India), 30 March 2018, Gurgaon
10. Mammography; Soup to nuts, 4th Medanta Breast Imaging Conference in collaboration with Breast Imaging Society (India), 31 March 2018, Gurgaon

Atin Kumar

1. Sclerotherapy agents—Choosing correct agent and technique, AIIMS Radiology Course: Combined Ultrasound and Fluoroscopic Interventions, 8-9 April 2017, New Delhi
2. Case-based scenarios, AIIMS Radiology Course: Combined Ultrasound and Fluoroscopic Interventions, 8-9 April 2017, New Delhi
3. Interventional radiology in traumatic vascular injuries, Dr Gyan P Lal mid-term CME of Indian Radiological and Imaging Association, 20-21 May 2017, New Delhi
4. Imaging of CSF Rhinorrhea, Dr Gyan P Lal Mid-term CME of Indian Radiological and Imaging Association, 20-21 May 2017, New Delhi

5. Case-based—Interventions in emergency and trauma, BRACE 2017—Vascular and Interventional Radiology, 7-9 July 2017, Chennai
6. Imaging of spinal trauma, Dr Harnam Singh Mid-term CME of Indian Radiological and Imaging Association, 8-9 July 2017, Greater Noida, UP
7. Workshop on ‘Vascular Interventions’, Joint Sessions of the 5th Asia-Pacific Congress of Interventional Oncology, Annual Aorta and Endovascular Course 2017 and the 4th Annual Meeting of the Society of Emergency Radiology, 25-27 August 2017, New Delhi
8. Optimized imaging and integrated image-guided management of liver injuries, Joint Sessions of the 5th Asia-Pacific Congress of Interventional Oncology, Annual Aorta and Endovascular Course 2017 and the 4th Annual Meeting of the Society of Emergency Radiology, 25-27 August 2017, New Delhi
9. Radiology of acute traumatic neurological emergencies, AIIMS Neurological Life Support Course, 7-8 October 2017, New Delhi
10. Imaging of skull base trauma, RICON 2017—Annual State Conference of UP State Chapter of IRIA, 28-29 October 2017, Aligarh, UP
11. Imaging of chest trauma, 4th AIIMS-MAMC-PGI Imaging Course Series on Chest and Cardiovascular Imaging, 3-4 November 2017, MAMC, New Delhi
12. Hepato-pancreato-biliary trauma: Emerging facets, Hepatobiliary Imaging and Interventions CME, 18 November 2017, ILBS, New Delhi
13. Case-based approach for evaluation of CSF Rhinorrhea, Head and Neck Radiology Symposium, 9 December 2017, New Delhi
14. Radiology of acute traumatic neurological emergencies, AIIMS Neurological Life Support Course, 25-26 February 2018, New Delhi
15. MRI clues to mitochondrial disorders, Mini-workshop on Clinical Genetics, 14 March 2018, New Delhi
16. Imaging of skull base lesions, 4th AIIMS-MAMC-PGI Imaging Course Series on Neuroradiology including Head and Neck Imaging, 30 March—1 April 2018, Chandigarh

Shivanand Gamanagatti

1. Peripheral vascular disease: Imaging and interventions, AIIMS-MAMC-PGI Imaging Course on Chest and Cardiovascular Imaging, 3-4 November 2017, MAMC, New Delhi
2. Response assessment of HCC, AIIMS Radiology Course—“An Update on Abdominal MR Imaging”, 3-4 February 2018, AIIMS, New Delhi
3. Ablative therapies in liver focal lesions, 27th Annual Conference of the Surgical Gastroenterology—IASGCON2017, 5-8 February 2018, JIPMER, Puducherry
4. Radiological interventions in HVOTO, Current Perspectives in Liver Disease: CPLD 2017, 7-8 October 2017, AIIMS, New Delhi
5. Biliary interventions: Advances and evidence-based practice guidelines, Hepato-Biliary Imaging and Interventions CME, 18 November 2017, ILBS, New Delhi
6. Midface injuries, Symposium on Clinical Head and Neck Radiology: Case-based Approach, 9 December 2017, AIIMS, New Delhi
7. Imaging and interventions in Budd Chiari Syndrome, 71th Annual Conference of IRIA, 25-28 January 2018, Mumbai
8. Chemoembolization in HCC: Current status, 1st Indo-US Onco-imaging Conference, 20-22 March 2018, TMH, Mumbai
9. Imaging in head trauma, 3rd AIIMS-MAMC-PGI Imaging Course on Neuroradiology Including Head and Neck Imaging, 30 March-1 April 2018, PGIMER, Chandigarh

Chandan J Das

1. MRI in evaluation of lesion of urinary tract, National CME on MRI and CT—Basics to Advanced, 7 May 2017, Lucknow
2. Post renal transplant imaging, National CME on MRI and CT—Basics to Advanced, 7 May 2017, Lucknow
3. Imaging and interventions in Budd Chiari Syndrome, Mid-term CME, 14 October 2017, Guwahati
4. Ulnar nerve Sonography in Leprosy related ulnar neuropathy along with electrophysiological correlation, NAMSCON, 29 October 2017, Amritsar

5. Case-based panel discussion on Role of PET-CT and PET MRI in the Management of Lymphoma, 58th Annual Conference of the Indian Society of the Hematology and Blood Transfusion (ISHBT)—Haematocon 2017, 3 November 2017, Guwahati
6. MR imaging of prostate carcinoma, IRIA 2017 Assam State Branch, 5 November 2017, Shillong
7. MR imaging of prostate carcinoma, USICON, 20 January 2018, Jaipur
8. MRI of adrenal gland, AIIMS Radiology Course: Update of Abdominal MR Imaging, 4 February 2018, New Delhi

Madhusudhan K S

1. Percutaneous transhepatic biliary drainage—technique, AIIMS Radiology Course: Combined Ultrasound and Fluoroscopic Interventions, 8-9 April 2017, New Delhi
2. Radiology for residents, Indian Association of Surgical Gastroenterology Clinics, 22-23 April 2017, New Delhi
3. Facet joint injections, Pre-congress musculoskeletal spinal pain management interventional radiology workshop, Asia Pacific Congress of Interventional Oncology, 24 August 2017, New Delhi
4. Biliary drainage, 5th Asia Pacific Congress of Interventional Oncology, 25-27 August 2017, New Delhi
5. Small bowel imaging in celiac disease, 17th International Celiac Disease Symposium, 8-10 September 2017, New Delhi
6. TIPS and BRTO, Current perspectives in liver diseases, 7-8 October 2017, New Delhi
7. MRI artifacts: Friends and foes, AIIMS Radiology Course: Update on Abdominal MRI, 3-4 February 2018, New Delhi
8. MRI in pancreatic inflammation, AIIMS Radiology Course: Update on Abdominal MRI, 3-4 February 2018, New Delhi
9. Splenic artery embolization, Annual Conference of Indian Society of Vascular and Interventional Radiology, 14 February 2018, Lucknow
10. Radiology of GI TB, TB Symposium on World TB Day, 24 March 2018, New Delhi

Surabhi Vyas

1. Workshop, 2nd AIIMS Interventional Radiology Course: Combined Ultrasonographic and Fluoroscopic Interventions, 8 April 2017, Delhi
2. Pre-congress workshop—Musculoskeletal trauma, 5th Asia-Pacific Congress of Interventional Oncology and 4th Annual Meeting of the Society for Emergency Radiology 2017, 25 August 2017, Delhi
3. Imaging of interstitial lung disease of known etiology, 2nd AIIMS-MAMC-PGI imaging Course on Chest and Cardiovascular Imaging, 4 November 2017, Delhi
4. Ultrasound wrist pathology, Delhi Imaging Update 2018, 23 February 2018, Delhi
5. CTD -related ILD: A multidisciplinary approach—Panel discussion, AIIMS Pulmocrit 2018, 31 March 2018, New Delhi

Manisha Jana

1. Competitive quiz, AIIMS Radiology Course: Interstitial Lung Diseases, 6 August 2017, AIIMS, New Delhi
2. Imaging approach to nodules, AIIMS Radiology Course: Interstitial Lung Diseases, 6 August 2017, AIIMS, New Delhi
3. Imaging in pediatric ILD, AIIMS Radiology Course: Interstitial Lung Diseases, 6 August 2017, AIIMS, New Delhi
4. Imaging in skeletal dysplasia, 15th Annual Conference of Indian Society of Pediatric Radiology, 9 September 2017, Pune, Maharashtra
5. Radiology of solid tumors, Surgical Oncology Session in PHOCON (Annual Conference of Pediatric Hematooncology Section of IAP), 24 November 2017, Apollo Gleneagles Hospital, Kolkata, West Bengal
6. Role of imaging in pediatric urology, Pediatric Urology: What Have We Learnt, 24 December 2017, AIIMS, New Delhi
7. Imaging in Gynae Oncology, Masterclass in Gynaecology, 7 October 2017, Sri Mata Vaishnodevi Narayana Super Speciality Hospital, Katra, Jammu

Smita Manchanda

1. USG guided biopsies: Workshop, Combined Ultrasonography—Fluoroscopy Guided Interventions Instructional Course, 8 April 2017, AIIMS, New Delhi
2. Competitive quiz, Combined Ultrasonography—Fluoroscopy Guided Interventions Instructional Course, 9 April 2017, AIIMS, New Delhi

3. Imaging in pulmonary thromboembolism: Current concepts, Gyan P Lal CME 2017, 20 May 2017, GB Pant Hospital, New Delhi
4. Panel discussion on Pneumoconiosis, AIIMS Radiology Course—Interstitial Lung Diseases 2017, 5 August 2017, AIIMS, New Delhi
5. Approach to septal thickening, AIIMS Radiology Course—Interstitial Lung Diseases 2017, 6 August 2017, AIIMS, New Delhi
6. Miscellaneous ILD, AIIMS Radiology Course—Interstitial Lung Diseases 2017, 6 August 2017, AIIMS, New Delhi
7. Competitive quiz, AIIMS Radiology Course—Interstitial Lung Diseases 2017, 6 August 2017, AIIMS, New Delhi
8. Image-guided therapies in musculoskeletal disorders, 5th Asia-Pacific Congress of Interventional Oncology, 25 August 2017, New Delhi
9. Approach to mediastinal masses, First Radiology Refresher Course, 28 October 2017, AIIMS, Jodhpur
10. Imaging of solitary pulmonary nodule, First Radiology Refresher Course, 28 October 2017, AIIMS, Jodhpur
11. IAC anomalies—Case-based approach, AIIMS Radiology Symposium: Clinical Head and Neck Radiology: Case-Based Approach, 9 December 2017, AIIMS, New Delhi
12. Spotting Session, AIIMS Radiology Course: Update on Abdominal MR Imaging, 4 February 2018, AIIMS, New Delhi

Devasenathipathy Kandasamy

1. RFA: Workshop, Combined Ultrasonography—Fluoroscopy Guided Interventions Instructional Course, 8 April 2017, AIIMS, New Delhi
2. PCN in infants, Combined Ultrasonography—Fluoroscopy Guided Interventions Instructional Course, 9 April 2017, AIIMS, New Delhi
3. Dual energy CT, MedImg 2017, 15 April 2017, IIT, New Delhi
4. Imaging in PCOS, 2nd JK Medical Science Congress and 1st Annual Conference of MP PCOSCON 2017, 10 May 2017, SKICC, Srinagar
5. Workshop on PCOS imaging, 2nd JK Medical Science Congress and 1st Annual Conference of MP PCOSCON 2017, 10 May 2017, SKICC, Srinagar
6. Approach to patterns in ILD, AIIMS Radiology Course—Interstitial Lung Diseases 2017, 5 August 2017, AIIMS, New Delhi
7. Ultrasound in MSK trauma, 5th Asia-Pacific Congress of Interventional Oncology, 25 August 2017, New Delhi
8. Spotters in head and neck radiology, AIIMS Radiology Symposium: Clinical Head and Neck Radiology: Case-Based Approach, 9 December 2017, AIIMS, New Delhi
9. Obstructive Biliopathy in Pediatric Patient, AIIMS Radiology Course: Update on Abdominal MR Imaging, 3 February 2018, AIIMS, New Delhi
10. Recent advances in MR: DWI, DKI, IVIM and the Works! AIIMS Radiology Course: Update on Abdominal MR Imaging, 4 February 2018, AIIMS, New Delhi
11. Spotting Session, AIIMS Radiology Course: Update on Abdominal MR Imaging, 4 February 2018, AIIMS, New Delhi
12. Panel Discussion: TB vs Crohn's Conundrum, AIIMS Radiology Course: Update on Abdominal MR Imaging, 4 February 2018, AIIMS, New Delhi
13. Complications of cancer therapy, Pediatric Oncology CME, 28 January 2018, AIIMS, New Delhi

Priyanka Naranje

1. Central line placement workshop, AIIMS Radiology Course: Combined Ultrasonography—Fluoroscopy Guided Interventions, 8 April 2017, New Delhi
2. Central line placement basics, AIIMS Radiology Course: Combined Ultrasonography—Fluoroscopy Guided Interventions, 8 April 2017, New Delhi
3. Case-based scenarios for central line access, AIIMS Radiology Course: Combined Ultrasonography—Fluoroscopy Guided Interventions, 8 April 2017, New Delhi
4. Imaging in Sarcoidosis, AIIMS Radiology Course: Interstitial Lung Diseases, 5-6 August 2017, New Delhi
5. Panel discussion: Vasculitis and CTD related ILDs, AIIMS Radiology Course: Interstitial Lung Diseases, 5-6 August 2017, New Delhi
6. Approach to septal thickening, AIIMS Radiology Course: Interstitial Lung Diseases, 5-6 August 2017, New Delhi

7. Case discussion: Airway diseases, AIIMS Radiology Course: Interstitial Lung Diseases, 5-6 August 2017, New Delhi
8. Image-guided tumor ablation: Kidney, APCIO 2017, 25 August 2017, Delhi
9. Imaging of pulmonary neoplasms, AIIMS-MAMC-PGI Imaging Course on Chest and Cardiovascular Imaging, 4 November 2017, New Delhi
10. Pediatric chest—Cases, Chest Imaging Update (REF), 11 November 2017, Mumbai
11. Mediastinum and hila—Cases, Chest Imaging Update (REF), 12 November 2017, Mumbai
12. CT and MRI chest quiz, 19th National Conference of Pulmonary Diseases (NAPCON), 16 November 2017, Kolkata
13. Approach to root of nose mass, Clinical Head and Neck Radiology: Case-based Approach, 9 December 2017, Delhi
14. Role of radiology in diagnosis and response assessment of pediatric cancers, Symposium on Diagnostics in Childhood Cancers, 28 January 2018, Delhi
15. Radiological aspects of ILD: IPF and Non-IPF, ILD Update 2018, 25 February 2018, Kanpur
16. Challenges in making a definitive diagnosis of ILD, AIIMS Pulmocrit 2018, 31 March 2018, Delhi

Ankur Goyal

1. Vascular anomalies: Dilemmas of classification and case-based scenarios, 2nd AIIMS Interventional Radiology Course on Combined Ultrasonographic and Fluoroscopic Interventions, 8-9 April 2017, New Delhi
2. Workshop on vascular anomalies sclerotherapy, 2nd AIIMS Interventional Radiology Course on Combined Ultrasonographic and Fluoroscopic Interventions, 8-9 April 2017, New Delhi
3. Interventional radiology in maxillofacial lesions, Maxillofacial Imaging (Continuing Dental Education Program), 12 April 2017, New Delhi
4. Basics of chest ultrasound, Monthly Meeting of Delhi State Chapter of IRIA, 24 June 2017, New Delhi
5. IIPs other than UIP and NSIP, AIIMS Radiology Course on Interstitial Lung Diseases, 5-6 August 2017, New Delhi
6. Approach to GGO, AIIMS Radiology Course on Interstitial lung diseases, 5-6 August 2017, New Delhi
7. Course faculty (Abdomen), 5th Radiology Resident's 'Hot Seat' Review Course – 2017, 18-20 August 2017, New Delhi
8. Chest ultrasound in the emergency room, Joint Sessions of 5th Asia Pacific Congress of Interventional Oncology and 4th Annual Meeting of Society for Emergency Radiology, 25-27 August 2017, New Delhi
9. Interesting AVM cases, FIRVA 2017—Forum on Interventional Radiology in Vascular Anomalies, 28-30 September 2017, Vancouver, BC, Canada
10. Pancreatic cancer: Radiologist's approach to perplexing cases, Hepatobiliary Imaging and Interventions CME, 18 November 2017, New Delhi
11. Resident's quiz, AIIMS Radiology Course on Clinical Head and Neck Radiology: Case-Based Approach (Head and Neck Radiology Symposium), 9 December 2017, New Delhi
12. Imaging of the lung and pleura: What a surgeon needs to know? Contemporary Practices in Surgery: Symposium on Thoracic Surgery 2018, 19-21 January 2018, New Delhi
13. MR enterography: How I do it, MRI in renal masses: Why and when? Film Reading Session and Spotter Quiz, AIIMS Radiology Course on Update on Abdominal MR Imaging, 3-4 February 2018, New Delhi
14. IR approach to soft tissue AVMs, 20th Annual Conference of ISVIR 2018, 12-15 February 2018, Lucknow, Tunnels and Crossings of the Upper Limb, Delhi Imaging Update DIU 2018 (Annual Conferences of Delhi State Chapter of IRIA), 3-5 March 2018, New Delhi

Shashi Paul

1. Contrast-enhanced ultrasound for assessment of therapeutic response following percutaneous ablation in Hepatocellular Carcinoma, 27th Asian Pacific Association for the Study of the Liver (APASL 2018), 14-18 March 2018, New Delhi, India

Oral papers/posters presented

1. Bhalla AS, Goyal A, Meena P, Gamanagattis S. Percutaneous direct embolization of pulmonary arterial pseudoaneurysm: Mixed bag of success and failure, 4th World Congress of Thoracic Imaging, 18-21 June 2017, Boston, United States of America
2. Bhalla AS, Das A, Goyal A, Naranje P, Guleria R, Khilnani GC. Dilemma of thoracic tuberculosis (TB) vs Sarcoidosis in TB endemic areas: An imaging approach, 4th World Congress of Thoracic Imaging, 18-21 June 2017, Boston, United States of America

3. Meena P, Bhalla AS, Goyal A, Bhalla AS. Comparison of contrast injection protocols for simultaneous optimal opacification of systemic and pulmonary arteries in CT angiography of patients with hemoptysis, 4th World Congress of Thoracic Imaging, 18-21 June 2017, Boston, United States of America
4. Das CJ, Sharma S, Seth A, Dogra P. Role of DWI in guiding MRI-TRUS fusion biopsy in patients with prostate cancer: A prospective cohort study, ISMRM 2017, 29 April 2017, Hawaii
5. Das CJ, Tulsyan S, Tripathi M, Seth A, Kumar R, Bal C. Comparison of 68Ga-PSMA PET/CT with Multiparametric MRI for staging high-risk prostate cancer, RSNA 2017, 28 November 2017, Chicago
6. Madhusudhan KS, Srivastava DN, Gupta AK. Complications of ERCP: An imaging review, Annual Conference of Indian Radiological and Imaging Association, 25-28 January 2018, Mumbai
7. Madhusudhan KS, Vyas S, Sharma S, Srivastava DN. Portal vein abnormalities: An imaging review*, Annual Meeting of European Society of Gastrointestinal and Abdominal Radiology ESGAR 2017, 20-23 June 2017, Athens, Greece
8. Madhusudhan KS, Srivastava DN, Gupta AK. Carcinoma of gall bladder revisited: Role of a radiologist, Annual Meeting of European Society of Gastrointestinal and Abdominal Radiology ESGAR 2017, 20-23 June 2017, Athens, Greece
9. Chahal A, Madhusudhan KS, Sharma S, Chumber S. Computed Tomography-guided Lumbar Sympathectomy (CTLS) as a palliative treatment in patients with critical limb ischemia not amenable to therapeutic revascularization, 103rd Annual Meeting of Radiological Society of North America, 26 November-1 December 2017, Chicago, USA
10. Kayal EB, Kandasamy D, Khare K, Sharma R, Bakhshi S, Mehndiratta A. Quantitative estimation of IVIM parameters and response evaluation after neoadjuvant chemotherapy in Osteosarcoma, 25th Proceeding of International Society for Magnetic Resonance in Medicine (ISMRM), 22-27 April 2017, Honolulu
11. Kayal EB, Kandasamy D, Bakhshi S, Sharma R, Mehndiratta A. Quantitative estimation of IVIM parameters and response evaluation after neoadjuvant chemotherapy in Osteosarcoma, 25th Proceeding of International Society for Magnetic Resonance in Medicine (ISMRM), 22-27 April 2017, Honolulu
12. Mehndiratta A, Kayal EB, Gupta R, Sahai A, Alampally JT, Bakhshi S, Sharma R, Kandasamy D. Quantitative estimation of IVIM parameters and response evaluation after neoadjuvant chemotherapy in Osteosarcoma, 25th Proceeding of International Society for Magnetic Resonance in Medicine (ISMRM), 22-27 April 2017, Honolulu
13. Rangarajan K, Kandasamy D. Imaging approach to disorders of the paediatric adrenal gland, ARRS 2017, 30 April-5 May 2017, New Orleans
14. Kandasamy D, Sharma R, Goyal A, Gupta AK, Murugan N, Tandon N, Goswami R, Khadgawat R. Imaging of pituitary stalk abnormalities, 103 Annual Meeting RSNA, 26 November-1 December 2017, McCormick Place, United States
15. Manchanda S, Vora Z, Sharma R, Hari S. Echogenic lesions of the uterus, AOCR 2018, 25-28 January 2018, Mumbai
16. Manchanda S, Bhalla AS, Naranje P, Gupta AK. CT guided biopsies of head and neck masses, AOCR 2018, 25-28 January 2018, Mumbai
17. Nischat V, Naranje P, Manchanda S, Bhalla AS. Pericardial recesses, AOCR 2018, 25-28 January 2018, Mumbai
18. Kandasamy D, Murugan N, Sharma R, Goyal A, Tandon N, Seenu V, Damle N, Gupta AK. Can 4D-MRI be an alternative modality for the detection of parathyroid lesions in Primary Hyperparathyroidism? 103rd Annual Meeting RSNA 2017, 26 November-1 December 2017, Chicago, USA
19. Sharma R, Gamangatti S, Kandasamy D, Kumble MS, Vallakada S. Rare focal lesions of liver: Can imaging come to our rescue, 103rd Annual Meeting RSNA 2017, 26 November-1 December 2017, Chicago, USA
20. Sharma R, Rajamohan N, Kandasamy D, Goyal A, Parshad R. Unlocking the mystery of thymus gland: Imaging holds the key to the chest, 103rd Annual Meeting RSNA 2017, 26 November-1 December 2017, Chicago, USA
21. Mathur P, Sharma R, Kandasamy D, Gamanagatti S, Kumble MS, Ahuja V, Kedia S. MR enterographic features of bowel tuberculosis and changes after therapy, 103rd Annual Meeting RSNA 2017, 26 November-1 December 2017, Chicago, USA
22. Sharma R, Mathur P, Kandasamy D, Gamanagatti S, Kumble MS, Ahuja V. Can ADC be used as a surrogate marker of response to therapy in intestinal ulcero-constrictive diseases? 103rd Annual Meeting RSNA 2017, 26 November-1 December 2017, Chicago, USA
23. Gamanagatti S, Sharma R, Dadhwal V, Valakada J, Gupta AK. Perioperative internal Iliac artery balloon occlusion in the setting of placenta accreta and its variants: What the interventional radiologist needs to know, 103rd Annual Meeting RSNA 2017, 26 November-1 December 2017, Chicago, USA
24. Gamanagatti S, Sharma R, Chandrasekhar HS, Vakada J, Gupta AK. Interventional radiology in Obstetric emergencies, 103rd Annual Meeting RSNA 2017, 26 November-1 December 2017, Chicago, USA

25. Goyal A, Bhalla A, Sharma R, Parshad R, Gupta S, Bhattacharjee H. Pre-operative radiological interventions in lung: Saving the day for thoracic surgeons! 20th Annual Conference of ISVIR 2018, 12-15 February 2018, Lucknow
26. Naren H, Gamanagatti SR, Sharma R, Kumar A, Gupta AK. Additive value of arterial phase in CT evaluation of splenic injuries in blunt abdominal trauma, 103rd Annual Meeting of Radiological Society of North America 2017, 26 November-1 December 2017, Chicago, USA
27. Naren H, Gamanagatti SR, Sharma R, Kumar A, Gupta AK. Unidentified bright objects of spleen on arterial phase CT: Differentiating features of this mimicker of splenic vascular injury in blunt abdominal trauma, 103rd Annual Meeting of Radiological Society of North America 2017, 26 November-1 December 2017, Chicago, USA
28. Goyal A, Kumar A, Bhalla AS, Singhal M. Mimickers of venous malformation: Multimodality imaging review, 17th Asian Oceanian Congress of Radiology and 71st Annual Conference of Indian Radiological and Imaging Association (IRIA), 25-28 January 2018, Mumbai
29. Kumar A, China S, Gamanagatti S. MRI of brachial plexus injury: Imaging technique and spectrum of findings, 103rd Annual Meeting of Radiological Society of North America, 26 November-1 December 2017, Chicago, USA
30. Gamanagatti S, Kumar A. Imaging and interventions in Peripheral Vascular Trauma; A comprehensive review for emergency radiology trainee, 103rd Annual Meeting of Radiological Society of North America, 26 November-1 December 2017, Chicago, USA
31. Naranje P, Bhalla AS, Kandasamy D, Goyal A, Kabra SK. Bronchial artery embolisation as an effective and safe management option for childhood hemoptysis—A tertiary care centre experience, ISPR 2017, 9-10 September 2017, Pune
32. Naranje P, Bhalla AS, Kandasamy D, Goyal A, Kabra SK. Bronchial artery embolization for management of haemoptysis in paediatric population, ISVIR 2018, 12-15 February 2017, Lucknow
33. Vyas S, Bhalla AS, Gupta AK. Pulmonary manifestations of rheumatoid arthritis: Computed tomography, AOCR 2018**, 25-27 January 2018, Mumbai
34. Nayak B, Nadda N, Paul SB, Shalimar, Saraya A. Identification of circulatory microRNAs for monitoring therapeutic response in Hepatitis B virus-induced liver cancer, International Conference of Viral Diseases, 25-27 July 2017, Malaysia
35. Paul SB, Vidyasagar R, Dhamija E, Gamanagatti SR, Shalimar, Acharya SK. Utility of lipiodol CT for treating small hepatocellular carcinoma, 25th Annual Scientific Meeting of Indian National Association of Liver (INASL), 3-6 August 2017, New Delhi, India
36. Paul SB, Dhamija E, Vidyasagar R, Gamanagatti SR, Shalimar, Acharya SK. Radiological management of hepatocellular carcinoma associated with hepatic venous outflow tract obstruction, 25th Annual Scientific Meeting of Indian National Association of Liver (INASL), 3-6 August 2017, New Delhi, India
37. Vidyasagar R, Dhamija E, Paul SB, Gamanagatti SR. Role of diffusion weighted imaging in assessment of tumor response after loco-regional therapy in patients of hepato-cellular carcinoma, 25th Annual Scientific Meeting of Indian National Association of Liver (INASL), 3-6 August 2017, New Delhi, India
38. Paul SB, Sreenivas V, Gamanagatti SR, Singh S, Vidyasagar R, Dhamija E, Nadda N, Shalimar, Acharya SK. Outcome of transarterial chemoembolization in patients of alpha-fetoprotein secreting hepatocellular carcinoma, 25th Annual Scientific Meeting of Indian National Association of Liver (INASL), 3-6 August 2017, New Delhi, India
39. Nadda N, Paul SB, Shalimar, Acharya SK, Saraya A, Nayak B. To study changes in circulatory microRNA expression in hepatocellular carcinoma patients receiving locoregional therapy and its correlation with therapeutic response, 25th Annual Scientific Meeting of Indian National Association of Liver (INASL), 3-6 August 2017, New Delhi, India
40. Nadda N, Shekhar, Swatantra, Raout G, Ranjan G, Agarwal A, Sethia R, Thakur B, Kedia S, Gamanagatti S, Paul SB, Shalimar. Hepatocellular carcinoma tumour size is not associated with increased risk of post-transarterial chemoembolization liver failure, 25th Annual Scientific Meeting of Indian National Association of Liver (INASL), 3-6 August 2017, New Delhi, India
41. Nayak B, Yadav R, Nadda N, Roy N, Paul SB, Shalimar. To study plasma sHLA-G levels of HCC patients showing INDEL polymorphism and its correlation with response to locoregional therapy, 25th Annual Scientific Meeting of Indian National Association of Liver (INASL), 3-6 August 2017, New Delhi, India
42. Paul SB, Hari S, Vidyasagar R, Adarsh AD, Dhamija E, Thulkar S, Sharma S, Srivastava A. Adjunct role of shear wave elastography to B-mode ultrasound in characterizing breast masses, 5th Annual Conference of Breast Imaging Society, India (BISICON), 22-24 September 2017, Goa

43. Hari S, Paul SB, Vidyasagar R, Adarsh AD, Dhamija E, Thulkar S, Sharma S, Srivastava A. Characteristics of benign and malignant breast masses on shear wave elastography, 5th Annual Conference of Breast Imaging Society, India (BISICON), 22-24 September 2017, Goa
44. Avin, Hari S, Paul SB, Dhamija E, Thulkar S, Vyas S, Gogia A, Deo SVS, Seenu V, Mathur S, Sreenivas V. Role of MRI in preoperative evaluation of breast carcinoma in patients eligible for breast conservation therapy, 5th Annual Conference of Breast Imaging Society, India (BISICON), 22-24 September 2017, Goa
45. Singh S, Nadda N, Pathak M, Paul SB, Gamanagatti SR, Dhamija E, Vidyasagar R, Shalimar, Kedia S, Nayak B, Acharya SK. Role of AFP as a therapeutic marker in AFP producing HCC, 58 Annual Conference of Indian Society of Gastroenterology (ISGCON), 14-17 December 2017, Bhubaneswar, Orissa
46. Baby A, Paul SB, Hari S, Dhamija E. Chronic mastitis: An uncommon benign entity mimicking breast carcinoma, 71st Annual Conference of IRIA and the 17th AOCR, 25-28 January 2018, Powai, Mumbai
47. Baby A, Smriti Hari S, Paul SB, Dhamija E. Vacuum-Assisted Breast Biopsy (VAB); When and how? 71st Annual Conference of IRIA and the 17th AOCR, 25-28 January 2018, Powai, Mumbai
48. Paul SB, Vidyasagar R, Dhamija E, Singh S, Gamanagatti SR, Acharya SK. Evaluation of focal liver lesions, by contrast, enhanced ultrasound, 17th Annual International Conference Organized by Rajiv Gandhi Cancer Institute and Research Centre (RGCON), 9-11 February 2018, Rohini, New Delhi
49. Paul SB, Sreenivas V, Singh S, Nadda N, Pathak M, Shalimar, Nayak B, Acharya SK. Prognostic role of serial alpha-fetoprotein levels in hepatocellular carcinoma patients subjected to locoregional therapy, 17th Annual International Conference Organized by Rajiv Gandhi Cancer Institute and Research Centre (RGCON), 9-11 February 2018, Rohini, New Delhi
50. Paul SB, Sreenivas V, Singh S, Nadda N, Nayak B, Shalimar, Acharya SK. Hepatocellular carcinoma: Differences between alpha-fetoprotein secreting and non- alpha-fetoprotein secreting, 17th Annual International Conference Organized by Rajiv Gandhi Cancer Institute and Research Centre (RGCON), 9-11 February 2018, Rohini, New Delhi
51. Paul SB, Dhamija E, Vidyasagar R, Gamanagatti SR, Shalimar, Acharya SK. Hepatocellular carcinoma associated with hepatic venous outflow tract obstruction: A complex entity to treat, 17th Annual International Conference Organized by Rajiv Gandhi Cancer Institute and Research Centre (RGCON), 9-11 February 2018, Rohini, New Delhi
52. Paul SB, Singh S, Nadda N, Sreenivas V, Gamanagatti SR, Acharya SK. Active treatment of elderly patients of hepatocellular carcinoma: Age need not be a deterrent, 27th Asian Pacific Association for the Study of the Liver (APASL 2018), 14-18 March 2018, New Delhi, India
53. Paul SB, Vidyasagar R, Dhamija E, Gamanagatti SR, Shalimar, Acharya SK. Lipiodol CT: A technique for treating small hepatocellular carcinomas, 27th Asian Pacific Association for the Study of the Liver (APASL 2018), 14-18 March 2018, New Delhi, India
54. Mittal D, Jana M, Bhalla AS, Gupta AK, Santhalia P, Naranje P, Devasenathipathy K. Role of high-resolution transthoracic ultrasound in evaluation of mediastinal lymphadenopathy in pediatric patients, AOCR 2018, 27 November 2018, Mumbai, Maharashtra
55. Jana M, Mittal D, Bhalla AS, Santhalia P, Naranje P, Gupta AK, Devasenathipathy K. Pattern recognition in pediatric DLD: An algorithmic approach, AOCR 2018, 27 November 2018, Mumbai, Maharashtra
56. Mittal D, Jana M, Bhalla AS, Gupta AK, Santhalia P, Naranje P, Devasenathipathy K. Pattern recognition in pediatric DLD: A retrospective study, 15th Annual Conference of Indian Society of Pediatric Radiology, 9 September 2017, Pune, Maharashtra
57. Jana M, Gupta AK, Mittal D, Santhalia P. Progressive pseudorheumatoid arthropathy of childhood: Not all childhood arthropathies are JIA! AOCR 2018, 27 November 2018, Mumbai, Maharashtra
58. Gamanagatti SR, Shalimar, Acharya SK, Kedia S, Gupta AK. Long-term outcomes of transjugular intrahepatic portosystemic shunt in Indian patients with Budd-Chiari syndrome, 103rd Annual Meeting of Radiological Society of North America 2017, 26 November-1 December 2017, Chicago, USA
59. Gamanagatti SR, Shalimar, Acharya SK, Gupta AK. Emergent extended transjugular intrahepatic portosystemic shunt in Budd Chiari syndrome with acute thrombosis of splenoportal axis, 103rd Annual Meeting of Radiological Society of North America 2017, 26 November-1 December 2017, Chicago, USA

RESEARCH

Funded projects

Ongoing

1. Pilot Implementation of Collaborative Digital Diagnosis System (CollabDDS) Using Medical Imaging, Arun Kumar Gupta, DHR, 3 years, 2016-2018, Rs 49.37 lakhs

2. Evaluation of Incremental Role of MR Perfusion in the Characterization of Neck Masses, Smita Manchanda, AIIMS, 2 years, 2016-2018, Rs 1 lakh
3. Role DTI in evaluation of Hansen's Disease of Ulnar Nerve, Chandan J Das, ICMR, 2 years, 2017-2019, Rs 8.26 lakhs
4. Diffusion Tensor Imaging (DTI) to assess renal acute allograft dysfunction in a renal transplant patient, Chandan J Das, DST, 2 years, 2017-2019, Rs 23.38 lakhs
5. Role of MRI in Differentiation of Mediastinal and Hilar Lymph Nodes in Patients Suspected of Tuberculosis versus Sarcoidosis, Priyanka Naranje, AIIMS, 2 years, 2016-2018, Rs 2.12 lakhs

Completed

1. Evaluation of the graft kidney by contrast-ultrasound and elastography in the early post-operative period, Ankur Goyal, AIIMS, 2 years, 2016-2018, Rs 5 lakhs
2. Evaluation of efficacy, safety and outcome of splenic artery embolization in traumatic splenic injuries, Atin Kumar, AIIMS, 2 years, 2015-2017, Rs 5 lakhs

Departmental projects

Ongoing

1. Role of MRI in evaluation of residual tumor burden following neoadjuvant therapy in patients with breast cancer
2. Advanced imaging and image-guided interventions in low back pain
3. Role of HRCT in the diagnosis of apparently idiopathic interstitial lung diseases
4. Role of interventional radiology in obstetric related hemorrhage
5. Multimodality imaging evaluation of chronic mass forming mastitis and role of ultrasound-guided core needle biopsy in determining the etiology
6. Randomized controlled trial of uterine artery embolization vs abdominal hysterectomy for symptomatic uterine fibroids in patients who have completed their family
7. To identify the imaging features of chronic cavitary pulmonary aspergillosis and differentiate it from simple aspergilloma on DECT in patients with post—TB sequelae and hemoptysis
8. Role of contrast enhanced ultrasound and MR perfusion in the characterization of neck masses
9. Imaging of infantile brachial plexopathy
10. Lung ultrasound for diagnosis of early ventilator-associated pneumonia in critically ill
11. Right sided versus left sided percutaneous transhepatic biliary drainage in the management of biliary obstruction: A randomized controlled study
12. Role of dual energy computed tomography in the evaluation of liver fibrosis in patients of chronic liver disease
13. Role of shear wave elastography in diagnosis, prognostication and follow up of neonatal/infantile cholestatic liver diseases
14. Evaluation of the utility of short echo time MRI (Vane-XD or golden-angle radial sequence with minimum possible echo time) with and without contrast enhancement in lung parenchymal diseases
15. Role of microRNAs as a biomarker in hepatocellular carcinoma
16. Imaging and intervention in Pediatric Budd Chiari Syndrome
17. Evaluation of soft tissue vascular anomalies using contrast-enhanced ultrasound and shear wave elastography
18. Role of advanced USG, CT, and MRI in pancreatic masses
19. Role of high-frequency sonography in evaluation and management of upper limb injuries
20. Dual energy CT and MR evaluation of thymic lesions
21. Role of multiparametric MRI and Ga-68 PSMA PET scan in the evaluation of intermediate and high-risk prostate cancer
22. Comparison of 4D CT, 4D MRI and Fluorocholine PET in the localization of parathyroid lesions in patients with primary Hyperparathyroidism (HPT)
23. Diagnostic and prognostic role of MRI in acute traumatic cervical cord injury

Completed

1. MRI evaluation of chronic elbow pain
2. Role of MR Enterography in ulceroconstrictive diseases of the small bowel
3. Role of Shearwave elastography and Multiparametric MRI in the assessment of endometrial pathology

4. Role of perfusion CT in predicting the response to chemoradiation in carcinoma cervix
5. Evaluation of PET/CT versus CECT in Baseline, Interim, and Post-treatment assessment of paediatric Hodgkin lymphoma
6. Role of shear wave Elastography in assessment of response to neo-adjuvant chemotherapy in patients with breast cancer
7. Role of multiparametric MRI in evaluation of locally advanced rectal cancer
8. Role of Multiparametric MRI, Diffusion tensor imaging and real time ultrasound elastography in evaluation of prostate cancer
9. Role of contrast-enhanced ultrasound in the evaluation of solid organ injuries in blunt abdominal trauma

Collaborative projects

Ongoing

1. Comparison of mesotherapy with surgery in the management of superficial lipomas, Surgical Disciplines
2. Diagnosis of patients of oligo arthritis with special reference to brucellosis and Lyme's Disease, Medicine and Microbiology (Infectious diseases)
3. A split-face randomized controlled study comparing the efficacy of fractional CO₂ laser and micro needling in the treatment of acne scars, Dermatology and Venereology
4. Pilot study to assess the role of metabolic imaging in patients with undiagnosed abdominal pain, Surgical Disciplines
5. Variation of different methods of physical examination for swelling in thyroid region in adolescent and adult: Cross-sectional study, Surgical Disciplines
6. Study to classify periorbital hyperpigmentation based on clinical-investigative profile, Dermatology
7. Anti-tubercular drug-induced liver injury in patients with fatty liver, Medicine
8. Hydrostatic dilatation plus balloon angioplasty versus hydrostatic dilatation plus malleable vascular dilator for 2 mm or less calibre veins during the creation of arterio-venous fistula for hemodialysis, A randomized control trial, Surgical Disciplines
9. To evaluate the role of computerized tomography in diagnosis of recurrence of treated post pulmonary tubercular patients, Medicine
10. Safety, suitability and clinical effectiveness of unicompartamental knee replacement in the Indian population (UKIERI-DST), Orthopedics
11. Understanding differences in the patterns of osteoarthritis in Indian and Western population: Impact on symptoms, treatment options and their outcome (UKIERI-DST), Orthopedics
12. Prevalence of nonalcoholic fatty liver disease and its association with cardiometabolic disease risk factors in India, Endocrinology and Metabolism
13. To compare the efficacy of ulipristal acetate versus GnRH agonist in women with symptomatic uterine myoma and post-treatment follow up: A prospective randomized control study, Obstetrics and Gynaecology
14. Analgesic efficacy and safety profile of Glossopharyngeal nerve block using extraoral approach by landmark technique versus ultrasound-guided technique in patients with Eagle's Syndrome: A randomized, prospective controlled trial, Anaesthesiology, Pain Medicine and Critical Care
15. Assessment of depth of invasion in oral cavity squamous cell carcinoma by clinical palpation and radiology and their correlation to histopathological depth of invasion, Otorhinolaryngology—Head and Neck Surgery
16. Role of placental growth factor, uterine artery Doppler and 3D Doppler ultrasound of placenta for prediction of pre-eclampsia in high-risk pregnancies, Obstetrics and Gynaecology
17. Evaluation of 2 Dimensional and 3 Dimensional Ultrasonography in preoperative assessment of adnexal masses, Obstetrics and Gynaecology
18. Prospective pilot study for evaluating incidence of occult lymph node metastasis in patients of olfactory neuroblastoma, Otorhinolaryngology
19. Association between therapeutic drug levels and worm infestation with treatment response in patients with TB lymphadenitis, Medicine
20. Comparison between two regimens of intermittent Ulipristal Acetate treatment in management of uterine myomas: Pilot study, Obstetrics and Gynaecology
21. Prevalence of non-alcoholic fatty liver disease in young Indian adults (18-30 years): Pilot Study, Medicine
22. Assessment of depth of invasion in oral cavity squamous cell carcinoma by clinical palpation and radiology and their correlation to histopathological depth of invasion, Otorhinolaryngology

23. Surgical outcome of patients with pulmonary aspergilloma: An observational study, Surgery
24. Evaluation of unknown head and neck primaries metastatic to cervical lymph node in adults, Otorhinolaryngology
25. Comparison of efficacy of Mitek mini anchor suture technique with conventional technique for TMJ disc plaction in wilkes class III patients: A randomized controlled trial, Oral and Maxilla-Facial Surgery
26. Sdh-x Gene mutation in head and neck paragangliomas: A clinicopathological study, Otorhinolaryngology
27. Clinico radiological correlation of Vitamin D level and immune markers with severity of disease in cases of allergic rhinitis, Nasal Polyposis and Recurrent Nasal Polyposis, Otorhinolaryngology
28. Efficacy of intrabronchial voriconazole instillation for inoperable pulmonary aspergilloma: A randomized controlled trial, Pulmonary Medicine and Sleep Disorders
29. Serum galactomannan evaluation in cases of invasive fungus sinusitis of skull base, Otorhinolaryngology
30. Analgesic efficacy and safety profile of Glossopharyngeal nerve block using extraoral approach by landmark technique versus ultrasound-guided technique in patients with Eagle's Syndrome: A randomized, prospective, controlled trial, Anesthesiology
31. Bone mineral density in children and adolescents with congenital adrenal hyperplasia receiving physiological steroid replacement, Paediatrics
32. Prevalence and risk factors of allergic bronchopulmonary aspergillosis in children with poorly controlled asthma, Paediatrics
33. Osteopontin as a biomarker and its relationship with phenotypic severity score in enzyme naive children with gaucher disease, Paediatrics
34. Role of MRI in evaluation of multifocality in hepatoblastoma and correlation of VEGF with multifocality, Pediatric Surgery
35. Incidence and risk factors of preterm brain injury (periventricular leukomalacia and/or intraventricular haemorrhage) in very low birth weight neonates (< 32 weeks gestation or < 1500 gm birth weight): A prospective cohort study, Paediatrics
36. Prevalence of Non-Alcoholic Fatty Liver Disease (NAFLD) in children with Down Syndrome, Paediatrics
37. To study changes in muscle thickness and muscle echogenicity in critically ill children, aged 1-18 years during their initial 7 days stay in PICU: An observational study, Paediatrics
38. Evaluation of diaphragm function of ventilated children using bed side ultrasonography, Paediatrics
39. 'Minimally Invasive Autopsy (MIA) in the evaluation of fetal malformations and stillbirths', Paediatrics
40. Randomized controlled trial of N-Acetylcysteine in the prevention of renal failure in hepatocellular carcinoma patients undergoing transarterial chemotherapy and transarterial chemoembolization, Gastroenterology
41. Role of contrast-enhanced ultrasound in the diagnosis of hepatocellular carcinoma in patients of cirrhosis and in the assessment of tumor response after percutaneous ablation, Gastroenterology
42. Assessment of liver fibrosis in patients with chronic liver disease using transient elastography, Shear wave elastography and serum biochemical markers, Gastroenterology
43. Comparison of transarterial radioembolization versus transarterial chemoembolization in the management of intermediate hepatocellular carcinoma: A randomized control trial, Gastroenterology, Nuclear Medicine
44. Ultrasound assessment of gastric emptying of clear fluids with different energy content in children: A crossover pilot study, Anesthesiology
45. The pattern of visual impairment in the spectrum of hypoxic-ischaemic encephalopathy, Ophthalmology
46. Evaluation of the outcome of intra lesional bleomycin in orbital lymphangioma, Ophthalmology
47. Role of MR guided biopsy in detection of prostate cancer, NMR
48. A prospective study comparing PET CT scan to dynamic MRI in assessment of the graft revascularisation and healing in arthroscopic anterior cruciate ligament reconstruction, Orthopedics
49. Quantification of PCL retained in cruciate-retaining total knee arthroplasty and its effect on functional outcome, Orthopedics
50. Functional and radiological outcome in acetabular fractures in patients undergoing modified stoppa's approach, Orthopedics
51. Clinicoradiological correlation between ACL deficiency and knee joint hyperextension, Orthopedics
52. Role of molecular imaging in musculoskeletal tuberculosis, Orthopedics
53. Comparative study between tc-99m skeletal scintigraphy, whole-body MRI and pet/ct scan for detecting skeletal metastasis in patients with osteosarcoma and Ewings sarcoma, Orthopedics

54. Applicability of laparoscopic ultrasound in various intra-abdominal pathologies, A prospective observational study, Surgery
55. Achalasia cardia: Long-term outcome and assessment of factors predicting outcome following laparoscopic Heller's cardiomyotomy, Surgery
56. Double-blind randomized control trial to assess the outcome of pulley release and pulley reconstruction for de Quervain's tenosynovitis, Orthopedics
57. Prevalence of nonalcoholic fatty liver disease and its association with cardiometabolic disease risk factors in India, Endocrinology and Metabolism
58. Study pattern of HIV drug-resistant mutations in HIV patients co-infected with active tuberculosis, Medicine
59. Role of inflammation in Indian women with Polycystic Ovary Syndrome (PCOS) and its modulation by dietary factors, Endocrinology
60. ¹⁷⁵Lu dosimetry in castration-resistant prostate cancer, Nuclear Medicine
61. Evaluation of gene expert in tubercular lymphadenopathy, Medicine
62. Treatment outcomes in patients with MDR/XDR—A prospective study, Medicine
63. Preoperative prediction of tumor angiogenesis by DW MRI and perfusion CT in renal cell carcinoma and using these biomarkers to predict tumor grade in advanced renal cell carcinoma, Urology
64. Opportunistic infection in AIDS, Medicine
65. EBUS in Mediastinal lesions—Correlation with CT and PET-CT, Medicine
66. Role of PET-CT and DWI in evaluation of tumor angiogenesis and treatment response in advanced carcinoma lung, Nuclear Medicine
67. Role of chest radiograph in predicting length of central line, Anesthesiology
68. Evaluation of Gene Xpert as compared to conventional methods in diagnosis of genital TB among infertile women, Obstetric and Gynaecology
69. Comparison of cosmetic outcome and resection margins following intra-operative ultrasound guided excision with conventional palpation guided breast conservation surgery in breast cancer—A randomized controlled trial, Surgery
70. Comparison of identification rate of fluorescein plus methylene blue vs technetium sulphur colloid plus methylene blue for detection of sentinel node in ladies with operable breast cancer, Surgery
71. Systematic management strategy of axilla in women with operable breast cancer— With randomization of node-positive patients to Level 1 vs complete axillary lymph node dissection, Surgery
72. Evaluation of the role of radical radiotherapy in achieving pathological complete remission in breast cancer patients with complete clinical remission following neoadjuvant chemotherapy—A superiority randomized controlled trial, Surgery
73. Ambispective cohort study to evaluate oncological and aesthetic outcomes of skin sparing mastectomy with implant, Surgery
74. Evaluation of prevalence, regional variations, comorbidities, risk factors and variations in response to treatment modalities among Indian women with PCOS: A multicenter study across India, ICMR taskforce study, Endocrinology and Metabolism

Completed

1. Prevalence of non-alcoholic fatty liver disease in type 1 diabetes, Endocrinology
2. Assessment of sleep apnoea in acromegaly and correlation of its severity with clinical, laboratory parameters and imaging of pharynx, Endocrinology
3. Invasive fungal rhinosinusitis in diabetes: Clinical, microbiological and radiological profile, Endocrinology
4. Effect of Bisphosphonate therapy on density of jaw bones in patients having skeletal metastasis, Prosthodontics
5. Anatomical variations of round window niche in human cadaveric temporal bones and its relevance to cochlear implant electrodes insertion, ENT
6. Standardization of dynamic F-18 FDG PET/CT protocol and comparison of whole body 18-F FDG PET/CT with diffusion—Weighted MRI for early treatment response evaluation in non-small cell lung cancer, Nuclear Medicine
7. Estimation of diagnostic yield of bronchoscopy and bronchoscopic procedures in patients presenting with fever and miliary shadowing in chest imaging, Medicine
8. Association of NAFLD with adiposity, bone mineral density and nutrient intake, Medicine
9. To evaluate the fate of costochondral graft used for ramus condyle reconstruction in TMJ ankylosis patients—Retrospective and prospective study, Oral and Maxilla-Facial Surgery

10. Evaluation of Epidermal Growth Factor Receptor (EGFR) expression in cholesteatoma sac in different types of pneumatization of temporal bone, Otorhinolaryngology
11. Non-invasive characterization of coronary artery atherosclerotic plaque using dual-energy CT: Explanation in ex-vivo samples, Medical Physics
12. Evaluation of epidemiology, risk factors, role of neuro-imaging in diagnosis and prognosis in cases of traumatic optic neuropathy in a tertiary eye care centre, Ophthalmology
13. Surgical and neurological outcomes following minimally invasive thymectomy in myasthenia gravis patients, Surgical Disciplines
14. Prevalence of cerebral oedema and neuropathological changes in brain in acute on chronic liver failure, Gastroenterology
15. Comparison of Colour Doppler and CT Portography in EHPVO, GI Surgery
16. Achalasia cardia: Long-term outcome and assessment of factors predicting outcome following laparoscopic Heller's cardiomyotomy, Surgical Disciplines
17. Role of cytokines in severe dengue infection, Medicine
18. Pulmonary infections in renal transplant recipients: A prospective cohort observational study, Nephrology
19. To study the effect of platelet-rich plasma therapy on Leprosy related peripheral neuropathy, Dermatology
20. Study of the utility of FDG-PET/CT vs CECT for the evaluation of fever of more than 4 weeks duration in HIV/AIDS (AIDS-associated PUO), Medicine
21. Gallium-68 (Ga-68)—Labelled PSMA PET/CT in the evaluation of prostate cancer patients, Nuclear Medicine
22. Ambispective cohort study to evaluate oncological and aesthetic outcomes of skin sparing mastectomy with implant, Surgery
23. The effect of 1 vs 2 cm margin and simple vs oncoplastic closure in cases of early breast cancer and their effect on aesthetic outcome and quality-adjusted life years, Surgery
24. An evaluation of the effect of shortened dental arch on the thickness of masseter muscle and bite force: A preliminary study, Prosthodontics

PUBLICATIONS

Journals: 97

Chapters in books: 23

Books: 3

PATIENT CARE

Details of Investigations

S. No.	Name of Investigations/Special Procedures	Total no. of Investigation
1	Routine X-rays <ul style="list-style-type: none"> • OPD • Indoor • Casualty • Portable 	1,12,802 24,431 57,940 47,897
2	Special Investigations <ul style="list-style-type: none"> • Barium Studies • Intravenous pyelography • Micturating cystourethrography • Hysterosalpingography • Operation theater studies • Others contrast studies 	2455 1798 2758 782 177 1184
3	Mammography	3718
4	Dexa Scan	308
5	Ultrasound <ul style="list-style-type: none"> • Routine • Emergency • Doppler (Routine + Casualty) 	32,790 27,912 3657
6	CT <ul style="list-style-type: none"> • Body • Head 	20,682 8997
7	MRI (Main + NMR)	5959

8	Interventional Procedures • Interventional Vascular Studies	2246
9	Interventional Non-Vascular studies • CT Guided • Ultrasound Guided • Fluoroscopy Guided • Mammography Guided	632 4747 1772 12
Grand Total		3,65,656

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor Arun Kumar Gupta was Executive Committee Member of ‘Indian Journal of Pediatrics’.

Professor Deep Narayan Srivastava received National Orator of the Year Award of ISVIR at 20th National Conference of Indian Society of Vascular and Interventional Radiology (ISVIR), 12 February 2018 at SGPGI, LKO; “Distinguished services award” by the Delhi Branch of Indian Radiology and Imaging Association.

Professor Raju Sharma was Course Director for “AIIMS Radiology Course: Update on Abdominal MR Imaging” held in New Delhi on 3-4 February 2018; Awarded the Telangana State Branch IRIA Dr T. Jayanarasimhulu Oration: Imaging of Acute Pancreatitis.

Professor Ashu Seith Bhalla is Joint Editor Indian Journal of Radiology and Imaging.

Professor Sanjay Sharma was Editorial Board Member JCIR: Uro-Radiology Section.

Professor Shivanand Gamanagatti received Academic Excellence Award at IRIA Annual Meet (Delhi), Delhi Imaging Update held at LHMC, New Delhi from 23-25 February 2018.

Professor Atin Kumar delivered NG Gadekar Oration of Indian Radiological and Imaging Association for 2018.

Dr Madhusudan KS is Assistant Editor—Interventional Radiology Section, American Journal of Roentgenology (AJR).

Dr Chandan J Das received Dr Arthur Saravanmuthu Thambiah Award 2017 of National Academy of Medical Sciences (NAMS) for best paper in clinical dermatology related to leprosy research; Fellowship of the Indian College of Radiology and Imaging (FICR); Best Oncoimaging Research Award 2017 by Indian college of Radiology and Imaging.

Dr Shashi B Paul was awarded the second prize in poster category at the 71st Annual Conference of IRIA and the 17th AOCR held on 25-28 January 2018 at Powai, Mumbai, India; Member ‘Task force on Hepatocellular carcinoma’, formed by the Indian National Association for the Study of Liver (INASL).

VISITING SCIENTISTS

- Dr Vijay M Rao, President of the Radiology Society of North America visited the department on 18 January 2018 and delivered a lecture on ‘*Future of Radiology*’
- Dr Evelyne M. Loyer, Professor of Radiology, MD Anderson Cancer Center, Houston, Texas conducted a Film Reading Session for the residents on 8 March 2018
- A delegation of 15 faculty of International Society of Magnetic Resonance in Medicine led by Dr Vikas Gulani from the Case Western University, Ohio, USA visited the department on 27 March 2018 and had an interaction with the department faculty.

9.37. Reproductive Biology

Professor and Head

Ashutosh Halder

Professor

Pradeep Kumar Chaturvedi

Assistant Professor

Surabhi Gupta

Mona Sharma

Scientists

Manish Jain, Scientist I

Deepak Pandey, Scientist II

Neeraj Kumar, Scientist II

Group A Officer

Mrs Mariama Mathew

HIGHLIGHTS

Department is mainly involved in teaching, training, research and publication related work besides diagnostic services (reproductive hormones and cancer biomarkers) and guiding/advising/ counseling referral cases from various parts of India. Training and teaching was provided to our own PhD students, MSc students and various trainees of the department. Department is also providing various Fluorescent In-Situ Hybridization (FISH) and Polymerase Chain Reaction (PCR) related services as well as reproductive counseling/opinion, directly or on request from pediatrics, cardiology or clinical hematology as well as from and outside Delhi as referral cases on request. Most of reproductive counseling were self-referral (cases were with reproductive disorders, malformation, cancer, infertility, etc). Faculty members of the department were invited by several national academics for different academic contributions (NII Stem Cell Committee, NABL Core Accreditation Committee, Ministry of Agriculture Expert (Pesticides) Meeting, ICMR APS Selection Committee, MCI Assessment for DM (Medical Genetics) Courses, PAC and IRB Committee Member of NIHF, Ayush, etc).

CRIA facility provided tests for more than 40 parameters including cancer markers, thyroid profile and reproductive hormones. Department has started online reporting for CRIA tests.

EDUCATION

PhD student (Registered/ongoing): 4 MSc students: 9
JRF/SRF: 2

Weekly seminars and weekly journal club

Biweekly laboratory data presentation

Day to day case wise/laboratory work discussion

Postgraduate- MD Laboratory Medicine students (Laboratory training for 15 days)

MD Biochemistry students (Laboratory training for 15 days)

CMEs/Workshops/Symposia/National and International Conferences

Lectures delivered

Ashutosh Halder

1. Genomics and non-communicable disease: Cancer, infertility and malformation (invited talk), 2nd JK Medical Science Congress and 1st MP PCOS conference, 10-13 May 2017, Sher-i-Kashmir Convention Center, Srinagar
2. Issues in diagnosis of polycystic ovary syndrome (plenary lecture), 2nd JK Medical Science Congress and 1st MP PCOS conference, 10-13 May 2017, Sher-i-Kashmir Convention Center, Srinagar
3. Polycystic ovary syndrome: The pros and cons of various diagnostic criteria and biomarkers (invited talk), The PCOS Society (India) and Androgen Excess PCOS Society (International), 16-18 June 2017, Bengaluru
4. CNV (copy number variation) in diseases (plenary lecture), 4th National Conference of Society for Indian Academy of Medical Genetics, 8-9 December 2017, Thiruvananthapuram
5. Polycystic ovary syndrome: The pros and cons of various biomarkers and assessment of various factors implicated with PCOS (invited talk), 36th Meeting of Society for Reproductive Biology and Comparative Endocrinology 2018, 20-22 January 2018, BIT Pillani, Goa Campus, Goa

6. Advances in genomics and epigenomics of reproductive disorders (invited talk), 28th Annual Meeting of the Indian Society for the Study of Reproduction and Fertility, 23-25 February 2018, Indian Institute of Chemical Technology, Hyderabad

Surabhi Gupta

1. Panel discussion on “Strategies for promotion of Joint Research Collaborations among SAARC nations”, Techniques in Physiological Sciences 2017, 8 December 2017, New Delhi

Manish Jain

1. SNP microarray in clinically suspected 22q11.2 microdeletion syndromes, World Congress on Genetics, Genomics and Personalized Medicine 2017, Emphasizing the Knowledge of Personalized Medicine, 15-17 November 2017, Indian Institute of Science, Bengaluru, India

Oral papers/posters presented

1. Halder A. Polycystic ovary syndrome: Pros and cons of various diagnostic criteria and investigation to find out associations of various factors implicated with PCOS (poster presentation), 47th Annual Conference of the Endocrine Society of Indian, 13-15 October 2017, Kovalam, Thiruvananthapuram

RESEARCH

Funded projects

Ongoing

1. An investigation to find out reasons for phenotypic heterogeneity/variability in 22q11.2 deletion syndrome, Ashutosh Halder, ICMR, 3 years, 2015-2018 (6 months extension requested), Rs 41 lakhs
2. Poly Cystic Ovarian Syndrome (PCOS): An investigation to find out reasons for discrepancy between hyperandrogenism (clinical) and hyperandrogenemia (biochemical) and underlying etiologic (epigenetic and genetic) factors, Ashutosh Halder, DST-SERB, 3 years, 2018, Rs 51 lakhs
3. Quality control for hCG kits, PK Chaturvedi, HLL Lifecare, MOH, Yearly, Rs 7-8 lakhs
4. Effects of non-ionizing electro magnetic field on human health (referral center), PK Chaturvedi, ICMR, 5 years, 2017-2022, Rs 1.58 crores
5. Phase II clinical trial with an intravasal injectable male contraceptive-RISUG, PK Chaturvedi, ICMR, 1 year, 2017-2018, Rs 33 lakhs
6. Role of 3,5,3'-L-triiodothyronine (T3) in the modulation of VEGF expression and Leydig cell function, Surabhi Gupta, DBT, 3 years, 2016-2019, Rs 39 lakhs
7. Generation of genome-edited mice using CRISPR/Cas-9 based knock-out/knock-in technology to study mammalian sperm-egg fusion, Surabhi Gupta, DBT, 3 years, 2017-2020, Rs 75.5 lakhs
8. To study the effects of dietary flavonoids on prostate epithelial cells growing under the influence of prostate stromal cells, Deepak Pandey, AIIMS, 2 years, 2017-2019, Rs 10 lakhs
9. HDAC inhibitor(s) mediated genome-wide dynamics of healthy aging in *Caenorhabditis elegans*, Neeraj Kumar, DST-SERB, 3 years, 2017-2020, Rs 50 lakhs
10. Elucidating health-span regulatory modules by genome-wide combinatorial effects of transcription factors downstream of insulin signaling, Neeraj Kumar, DBT, 3 years, 2018-2021, Rs 50 lakhs
11. To elucidate the oxidative stress mediated regulation of Turnover and Translation Regulatory mRNA Binding Proteins (TTR-RBPs) during embryo development, Neeraj Kumar, AIIMS, 2 years, 2017-2019, Rs 10 lakhs
12. High resolution genomic screening using SNP Microarray to find out genomic causes in Idiopathic Sertoli Cell Only Syndrome (SCOS) cases, Manish Jain, AIIMS, New Delhi, 2 years, 2017-2019, Rs 10 lakhs

Completed

1. High resolution sex chromosome genome analysis in pathogenesis of Premature Ovarian Failure, Mona Sharma, AIIMS, 2 years, 2015-2017, Rs 10 lakhs

Departmental projects

Ongoing

1. Etiopathology of macroprolactinemia
2. Etiology and biomarker of polycystic ovarian syndrome
3. The genetic determinants of premature ovarian failure
4. Analysis of anti-cancer activity of herbal extracts on prostate cancer cell lines

5. Role of miR-143-3p in modulating trophoblast cell invasion
6. Epigenetic changes during epithelial to mesenchymal transition in trophoblast cells under physiological and pathological conditions
7. Effect of pregnancy hormones on HLA-G expression in trophoblast cells and the possible mediatory role of miRNAs
8. To study the effects of selenium and Vitamin E on prostate cells
9. Assessment of HDACi on embryo developmental competence during reproductive aging
10. Genetic study on Sertoli Cell Only Syndrome (SCOS)

Completed

1. Testicular germ cell arrest (maturation arrest): An investigation of phenotype-genotype correlation
2. Spermiation defect: Role of heavy metal, Vitamin A and sertoli cell maturity
3. Rapid detection of chromosome 13 and 21 aneuploidy by primed in situ labeling
4. Chromosome mosaicism and aneuploidy in preimplantation mouse embryo
5. Double blind randomized clinical trial of polyherbal preparation Ashokarista on post- menopausal women
6. Role of cytokines in premature ovarian failure
7. Evaluation of molecular basis of clinical aggressiveness in cervical carcinoma of young age
8. Biological basis of skewed sex ratio
9. Genetics of primary testicular failure
10. Role of miRNAs in modulating trophoblast cell invasion
11. To study the role of conserved RNA Binding Proteins (RBPs) in reproductive aging using *Caenorhabditis elegans* as model system
12. Effect of Zinc and Vitamin D on prostrate epithelial cells growing under the influence of prostrate stromal cells

Collaborative projects

Ongoing

1. Role of bone marrow microenvironment in multiple myeloma, Medical Oncology, IRCH, AIIMS
2. Understanding the pathophysiology of endometriosis by protein profiling and correlation with stress, Physiology
3. Molecular genetic evaluation of unexplained stillbirths, Genetics Unit, Pediatrics
4. Unique aspects of idiopathic hypoparathyroidism, Endocrinology
5. MicroRNA and hTERT gene profiles as biomarkers in oral potentially malignant and
6. malignant lesions, CDER
7. Impact of parental history of type 2 diabetes in Indian women with PCOS, Endocrinology
8. Impact of checkpoint inhibitors on suppressed state of immunity in tuberculosis, Transplantation Immunology and Immunogenetics
9. Reference range of serum Alpha Feto Protein in Indian children below 3 years of age, Paediatric Surgery
10. Age specific normogram of Anti Mullerian Hormone and Antral follicle counts in infertile and fertile Indian women, Obstetrics and Gynecology
11. Role of plasma renin activity in predicting renal damage in patients with neurogenic bladder and its correlation with existing parameters of renal damage, Paediatric Surgery
12. A prospective cohort study to measure the effectiveness of NISWANI in achieving regression of Fibroadenoma and Mastalgia, National Institute of Cancer Prevention and Research, Noida, UP; Surgical Disciplines, AIIMS
13. Role of miRNA mediated modulation of signal transduction in pancreatic cancer, Gastroenterology

Completed

1. Evaluation of C MET gene expression in gastric adenocarcinoma and co-relation with conventional clinic-pathological parameters—A descriptive study, Pathology, UCMS/GTB, Delhi University
2. Evaluation of hTERT amplification in cervical cytology specimens as a marker of histologic grade of cervical intraepithelial neoplasia, Pathology, UCMS/GTB, Delhi University
3. Study of clinico-dysmorphic profile and associated malformation in children with cardiac malformation, MAMC, Delhi University
4. Role of microRNA in Spermatogenesis, National Institute of Immunology, Delhi
5. Characterization of chromosomal anomalies in multiple myeloma using cytogenetics and FISH, Medical Oncology, IRCH, AIIMS

6. Molecular biology of multiple myeloma, Medical Oncology, IRCH, AIIMS
7. Molecular biology of early immature T-cell acute lymphoblastic leukemia, Laboratory Oncology, IRCH, AIIMS
8. Lymphocyte reconstitution and infectious morbidity post autologous hematopoietic stem cell transplantation, Department of Medical Oncology, IRCH, AIIMS

PUBLICATIONS

Journals: 8

Abstracts: 3

Chapters in Books: 15

Book: 1

PATIENT CARE

Over 100 cases were referred to Dr Halder, mainly from other hospitals of Delhi or self referral for Counseling/Planning of Management/Advice and related to Reproductive Genetics in particular Male Primary Hypogonadism, Recurrent Abortion, Recurrent IVF failure, Genetic Disorders and Malformation Syndromes.

Work load in the form of laboratory service

Standardized additional molecular cytogenetic technique (in addition to ongoing fluorescent in situ hybridization services) using STR/microsatellite markers and used for patient care.

Special laboratory facilities in the department (Molecular Cytogenetics lab)

Microdeletion FISH on blood (Interphase/Metaphase cell), buccal cell, urine cell, solid tissue etc. Total 300 patients have been recruited which all are suspected microdeletion syndrome. We have done FISH and QF-PCR of all cases in our Molecular Cytogenetics Lab and given report of all the patients. We have standardized Methyl Specific PCR for PWS cases and start facility of Methyl Specific PCR in our lab.

Prenatal FISH (Amniotic fluid cells/chorionic tissue)

- Trisomy 21 (Down syndrome)
- Trisomy 18 (Edward Syndrome)
- Trisomy 13 (Patau Syndrome)
- Any autosomal aneuploidies (on request)

Karyotyping (only research use)

Sex Chromosome FISH (X, Y, SRY: Only research and infertility)

Yq Microdeletion PCR (Cover app. 20 primer)

PRINS (Chromosome13, 18, 21, X, Y)

QF-PCR (DG, WS, PWS, RB, MD, Langer-Giedions, Trisomy 13, 18, 21, etc.)

Methyl Specific PCR (PWS)

DNA Microarray for Microdeletion Syndrome/Primary Testicular Failure

CRIA: Routine assays of 41 parameters for LH, FSH, Prolactin, T3, T4, TSH, Testosterone, Estradiol, Progesterone, Alpha Feto-Protein, Prostate Specific Antigen (PSA), Beta hCG, CA-125, Cortisol and Vitamin D, Anti TPO, Anti Tg, free T3, free T4, BNP, Troponin I, CKMB, Homocystein, SHBG, CEA, CA 19.9, CA 15.3, Free PSA, Pro Grp, HE4, Active B12, Ferritin, Folate, Insulin, PTH, C-peptide, HbA1c and anti CCP, DHT, 17 Hydrox progesterone, ACTH, GH, Inhibin B and AMHin the blood samples of in and out patients were carried out in the facility. Procalcitonin (PCT) test has been started this year for in and out patients.

New LIS system installed and integration with NIC done. Bar-coding system introduced for quicker processing the sample so that reports can be given faster. Reports gone online after full computerization of blood collection and CRIA facility.

Name of Assay	Number of Tests Done	Name of Assay	Number of Tests Done
FSH	8378	Testosterone	2347
LH	7423	Estradiol	1143
Prolactin	6397	Progesterone	296
DHEA-S	617	AFP	6149
T3	18,809	PSA	3061
T4	22,753	Beta hCG	1642
TSH	47,303	CA-125	2803
Cortisol	1332	Folate	7576

Vitamin D	25,249	Active Vitamin B12	8239
C-Peptide	19	Anti CCP	2879
CA19.9	1548	PTH	8293
CEA	1733	ANTI-TPO	1087
Ferritin	6074	Homocystein	19
Insulin	1329	Procalcitonin (PCT)	2637
CA 15.3	3	Anti TG	210
BNP	14	CKMB	5
Free T3	175	HbA1c	4402
Free T4	263	GH	101
Free PSA	10	DHT	15
Tropionin I	39	17 OH progesterone	398
AMH	2548	Inhibin B	66
Total	2,05,383		

Number of tests performed has increased from 1,69,558 last year to **2,05,383** this year

Andrology Lab: Semen analysis services have been provided to 81 patients.

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor KR Laumas oration of the department for year 2017 was delivered by Professor BN Chakrovarty.

Professor Ashutosh Halder was task force member of Human Developmental and Disease Biology, Maternal and Child Health Program of DBT; Member (Genetics) of Committee of Experts for submitting report regarding ‘Study and Practice by Medical Students and Professionals with Color Blindness/Color Vision Deficiency (CVD) of MCI; Assessment of physical and other teaching facilities at Nizams Institute of Medical Sciences, Hyderabad for DM, Medical Genetics course approval of MCI Advisory panel-expert member (Genetics) of NAMS; Member of Program Advisory Committee (PAC) and Institutional Review Board (IRB) of NIIHF; Member of Institutional Committee-Stem Cell Research (IC-SCR) of NII; Executive Member of MP PCOS Society; Membership of Society for Reproductive Biology and Comparative Endocrinology; Accreditation Committee Member of NABL on Genetics and Cytogenetics; Expert Committee Member of CCRAS (under ministry of AYUSH); External Examiner for DM (Medical Genetics; SGP GIMS, Lucknow), Post Doctoral Fellowship (Clinical Cytogenetics; CDFD, Hyderabad) and PhD (thesis and viva) in various university (JNU, CDRI, etc); Assessment Board Member for promotion of AIIMS Various Departmental Promotion Committee; Assessment Board Expert for promotion of ICMR scientists; Selection Committee Member for selection of Scientist C at Genetic Research Centre, Mumbai; Reviewer/editorial board member for Current Science, Journal of Genetics, SM Journal of Gynecology and Obstetrics, Translational Biomedicine, Scholars Report, Science Alert, JAPI, Clinical Case Reports and Reviews, British Journal of Medicine and Medical Research, International Blood Research and Reviews, Journal of Clinical and Diagnostic Research, Indian Pediatrics, Science Domain International, Clinico Economics and Outcomes Research, Research in Public Health, Polish Ministry of Science and Higher Education/National Science Centre/National Centre for Research and Development (project review), ICMR (project/paper), etc; New citations over 100 (total over 800); *Editorial/Advisory Board/Executive Member of International Journals:* Open Journal of Clinical Diagnostics of Scientific Research (publishes more than 200 open access journals); Journal Clinical Case Reports and Reviews (CCRR); JBR Journal of Clinical Diagnosis and Research; Asian Journal of Medical Sciences (until 2012); Austin Journal of Reproductive Medicine and Infertility; Bioinfo Publications Journals; Global Journal of Human Genetics and Gene Therapy; Clinical Research and Development: Open Access; Asian Journal of Pharmaceutical and Clinical Research; National Journals: Journal of the Association of Physicians of India (Genetics section); Clinical Research and Development; Innovare Journal of Medical Science.

Professor P.K. Chaturvedi was member of ethic committee for PG, AIIMS, Examiner for PhD and MSc; Member expert committee ICMR for review projects on Centre for Advance Research and also Ad-hoc projects, Reviewer for DBT and DST; Journal Reviewer (manuscript/scientific papers) for Journal of Andrologia.

Dr Surabhi Gupta was expert reviewer for grants in Department of Biotechnology (DBT); Reviewer for papers submitted to the journal Biomed Research International; Content writer for two modules of the paper “Cellular and Molecular Biophysics” for e-PG Pathshala, a UGC initiative for development of e-content in 77 subjects at postgraduate level under the National Mission on Education through ICT (NME-ICT) of Ministry of Human Resource Development (MHRD).

9.38. Rheumatology

Professor and Head

Uma Kumar

Assistant Professors

Ranjan Gupta

Aarti Sharma

Danveer Bhadu

HIGHLIGHTS

The department is providing state-of-the-art patient care services and is also instrumental in building resources that are required to deal with tremendous load of patients with rheumatological illnesses. Because of space constraints department is able to conduct only two OPDs and one Rheumatology Clinic. Our 6 bedded Rheumatology Day Care service was started in 2012, it is first of its kind in India that is catering to the needs of patients requiring short admissions for various interventions, treatments and procedures. Various educational activities to increase awareness about arthritis and related disorders amongst the public and medical professionals are regular features. Department has been on the forefront in research also, it has research grant of Rs 2,21,92,798 from extramural sources and many collaborative projects are also running under Dr Uma Kumar. Departmental Clinical Immunology Lab caters to whole hospital in terms of performing various immunological investigations which are phenomenal in numbers. Realizing the need for trained rheumatology specialists, short term training to medical specialists from various government organizations is being provided on regular basis. Department has active teaching program and it is trying to start super-specialty course 'DM' in Rheumatology.

EDUCATION

UG lectures and bedside teaching

1. Immunosuppressive therapy for connective tissue diseases
2. Overlap syndrome, MCTD, SLE, Sjogren's syndrome, Systemic sclerosis
3. Lupus Nephritis (Seminar)
4. Scope of clinical immunology, present concept in autoimmunity and autoimmune diseases
5. Systemic necrotizing vasculitis

Bed side teaching for 4th, 6th, and 8th semester was regularly done

PG: Seminars, bedside teaching, mortalities reviews, journal scan and journal club, case discussions every week

Nursing lectures: Lecture series on rheumatological disorders for various cadres of nursing staff

Short term training provided to physicians

1. Dr David Lalruatsanga, Medical Officer, District hospital, Kolasib, Aizwal: 15 January 2017-14 January 2018
2. Dr Ram Pratap Saini, Associate Professor, Safdarjung Hospital, New Delhi: 1 August 2017-31 Jan 2018

Telemedicine lectures on 'Rheumatoid arthritis'.

CMEs/Workshops/Symposia/National and International Conferences

Organized by the department

1. Public awareness programme on lupus, 10 May 2018, Delhi
2. Delhi Rheumatology Association Monthly Clinical Meeting, 23 July 2017, Delhi
3. Introductory course on 'Basic Immunology, 21-22 August 2017, Delhi
4. Delhi Rheumatology Association Monthly Clinical Meeting, 24 October 2017, Delhi
5. Public Awareness Programme on Arthritis, 12 October 2018, Delhi

Lectures delivered

Uma Kumar

1. Assessing the chronic pain patient with joint pain, IASP, 2 May 2017, AIIMS, New Delhi
2. Biologics in rheumatological diseases: Current perspective, SIMON 2017, 5 May 2017, Kathmandu
3. Approach to a patient with polyarthralgia, J&K Medical Science Congress and First Annual Meeting of MP PCOS Society, 10-13 May 2017, SKICC, Srinagar
4. Rheumatoid arthritis in elderly, IPF-ACP 2017, 2 July 2017, New Delhi

5. Myositis diagnosis—Do autoantibodies help, Ten Topics in Rheumatology: India, Uvea Rheumatology Interface 2017, 8 October 2017, New Delhi
6. Air pollution and rheumatoid arthritis: The dust behind the disease, Enviro-health, 2 November 2017, Prithvi Bhawan, New Delhi
7. Repurposing of drugs, Nanobiotek 2017, 6-7 December 2017, Kovalam, Thiruvananthapuram
8. Scleroderma: What lies beneath the skin, CMC-Joint Patient Doctor Initiative, 15-16 December 2017, Bhagayam Auditorium, CMC, Vellore
9. Overview of rheumatology for orthopedician, Arthroplasty Course 2018, 7 January 2018, AIIMS, New Delhi
10. An approach to spondyloarthritis, CONNECT 2018, 4 February 2018, AIIMS, Bhopal
11. Psoriatic arthritis: What is new, Annual Update of Delhi Rheumatology Association, 18 February 2018, IHC, Delhi
12. Management of connective tissue disorders in pregnancy, Annual Conference of API NOIDA Chapter, 18 March 2018, NOIDA
13. Management of SpA in the era of biologics, Rheumatology Update, Uttarakhand 2018, 25 March 2018, Himachal Institute of Medical Sciences, Dehradun
14. Management of RA with DMARDs beyond biologics, AOTCON-Orthoacademicia 2018, 29 March 2018, Puducherry
15. An approach to vasculitis (Chairperson), International Vasculitis Symposium, 31 March-1 April 2018, Bhargava Auditorium PGIMER, Chandigarh

Ranjan Gupta

1. Role of immunofluorescence in detection of ANA and its clinical implications, CME, 23 July 2017, Agra, Uttar Pradesh
2. Spondyloarthropathy: What's new in treatment? AMACON, 2017, 17 October 2017, Allahabad, Uttar Pradesh
3. Autoantibodies in rheumatology, Midterm Medicine Update, 29 October 2017, Delhi
4. Other kinase inhibitors, IRACON, 2017, 1-3 December 2017, Lucknow, Uttar Pradesh
5. ANA: What do you need to know about them—A clinical insight, PATHCON and Lab Expo, 16 December 2017, New Delhi
6. Treatment of RA with Tofacitinib: State of the art, CME, 19 January 2018, Gurgaon
7. Approach to vasculitis, Medicine Update, 11 March 2018, Delhi

Danveer Bhadu

1. Principles of polarized microscope and crystal arthritis, Delhi Rheumatology Meeting, 27 May 2017, Delhi
2. Overview of rheumatology, CME, 27 January 2018, Sikar
3. CTD associated ILD, Pulmocrit-2018, 31 March 2018, Delhi

Aarti Sharma

1. Common rheumatological symptoms, diseases, complications and treatment, SPEEDCON, Delhi-in panel, May 2017, Delhi
2. Interesting case discussion, Delhi Rheumatology Update, February 2018, Delhi

Oral papers/posters presented

1. Bhadu D, Das SK, Wakhlu A, Dhakad U. Ultrasound and urate crystal deposition: How many joints to screen? EUALR-2017, 14-17 June 2017, Madrid, Spain
2. Bhadu D, Das SK, Wakhlu A, Dhakad U. Articular cartilage of knee and first MTP joint are the preferred sites of urate crystal deposition in asymptomatic hyperuricemic individuals, IRACON-2017, 30 November-3 December 2017, Lucknow
3. Gupta R, Yadav A, Aggarwal A. Monocyte/macrophage related biomarkers in assessment of lupus nephritis activity, ARA Annual Meeting 2017, 20-23 May 2017, Auckland, New Zealand

RESEARCH

Funded projects

Ongoing

1. To study the interplay of air pollution with autoimmunity and inflammation, Uma Kumar, 2017-2020, DST, Rs 69.50 lakhs

2. A Phase III, randomized, double-blind, placebo controlled multi-center study of subcutaneous secukinumab (150 mg and 300 mg) in prefilled syringe to demonstrate efficacy (including inhibition of structural damage), safety, and tolerability up to 2 years in subjects with active psoriatic arthritis (FUTURE 5), Uma Kumar, 2016-2018, Novartis India Pvt Ltd, Rs 19.44 lakhs
3. A double blind, randomized, placebo-controlled trial evaluating efficacy and safety of oral nintedanib treatment for at least 52 weeks in patients with 'Systemic Sclerosis associated Interstitial Lung Disease' (SSc-ILD), Uma Kumar, 2016-2017, Boehringer-Ingelheim India Pvt Ltd, Rs 12.38 lakhs
4. Systems biology of complex diseases: From genetic findings to lead molecule development for rheumatoid arthritis, Centre of Excellence on Genome Sciences and Predictive Medicine (GESPREM) Phase II, Uma Kumar, 2015-2020, DBT, Rs 59.6 lakhs
5. T helper cells and their signature cytokines as biomarkers in lupus nephritis, Ranjan Gupta, 3 years, DST, 2015, Rs 11 lakhs
6. CD163+ macrophages and s CD163 in blood and urine as marker of LN activity, Ranjan Gupta, 2 years, IRA, 2016, Rs 1 lakh
7. Prediction of response to methotrexate in rheumatoid arthritis: Role of adenosine ectoenzyme network on mononuclear cells, Ranjan Gupta, 2 years, APLAR, 2017, Rs 7.5 lakhs
8. Endogenous TLR4 ligands MRP8/14 and Tenascin-C as biomarkers of lupus nephritis disease activity: Cross sectional and longitudinal assessment, Ranjan Gupta, 2 years, AIIMS, 2017, Rs 10 lakhs
9. Role of TLR-4 in acute gouty arthritis, Danveer Bhadu, AIIMS, 2 years, 2017-2018, Rs 2.3 lakhs

Completed

1. Development of targeted Nanomedicine for the treatment of rheumatoid arthritis, Uma Kumar, 4 years, 2014-2018, DBT, Rs 42.79 lakhs

Collaborative projects

Ongoing

1. An investigator initiated trial to assess the efficacy and safety of adalimumab biosimilar (Exemptia; ZRC-3197) in patients of psoriatic arthritis with concomitant moderate to severe chronic plaque psoriasis: An open labelled prospective pilot case series, Dermatology and Venereology
2. Understanding biology of rheumatoid arthritis: Functional characterization of some/novel genetic determinants, Delhi University
3. Impact of Yoga and Meditation on Epigenetic Profile in Rheumatoid Arthritis, Anatomy
4. Focused pharmacovigilance of rituximab pharmacology, Pharmacology
5. Studies on the differences in gut microbiome in Inflammatory Bowel Disease (IBD) patients with or without arthritis, Amity University, NOIDA, UP
6. Diagnosis of patients with oligoarthritis with special reference to brucellosis and Lyme's Disease, Microbiology
7. Molecular detection and characterization of Tick Borne lyme borreliosis, human monocytic ehrlichiosis and human granulocytic anaplasmosis, Microbiology
8. The effect of motor imagery on corticomotor excitability and pain status in rheumatoid arthritis, Physiology
9. Interplay between innate and adaptive immunity in lupus: Inflammatory effects of apoptotic cell-reactive antibodies on neutrophils and monocytes, National Institute of Immunology
10. Evaluation of the role of Salivary Scavenger and Agglutinin (SALSA) and lectin pathway components in Rheumatoid Arthritis (RA), Guru Govind Singh University, New Delhi
11. Identifying the role of exogenous ATP in Joint Inflammation, South Asia University, New Delhi
12. Musculoskeletal symptoms and their impact on physical and psychological health in adolescent schoolchildren, Santosh University, Ghaziabad, Uttar Pradesh

Completed

1. To evaluate response of radiosynovectomy in inflammatory joint condition refractory to conventional treatment modalities with Lu-177 in knee joint, Nuclear Medicine

PUBLICATIONS

Journals: 6

Abstracts: 10

Chapters in books: 3

PATIENT CARE

Department caters to large number of patients. In last one year approximately 30,0000 patients attended outpatient department.

Facilities in the department

Rheumatology Clinic: 5024 patients

Rheumatology OPD: 22,000 patients

Rheumatology Day Care

Pulse/Biological Therapy	Intraarticular Injections	Intramuscular Injections	Subcutaneous Injections	Biopsies	Difficult Case Discussion	Total
1351	1004	151	448	31	634	2619

Musculoskeletal ultrasound: 141 (includes guided procedure)

Clinical Immunology laboratory

RF	ANA	ANCA	aCL	AntiDsDNA	Croglbulinaemia	AntiLKM	ASMA	Total
10,180	13,970	6481	5166	5175	112	2705	2704	46,493

Community Service

1. Medical Camp at Leh, Laddakh and Pratapgarh
2. Organized public awareness programs on arthritis at AIIMS
3. Organized public awareness program on SLE at AIIMS
4. Writing in print media to increase awareness about rheumatological disorders
5. Participating in TV and Radio programs on arthritis
6. Published public awareness booklet on Poses and Postures (musculoskeletal health for all)
7. Published public awareness booklet on air pollution and autoimmunity: Are they related?

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor Uma Kumar elected subject expert in Rheumatology by DCGI for CDSCO; Nominated by MCI as subject expert for reviewing functioning of Rheumatology department at various universities; Nominated member on Committee—Congenital Malformation and Genetics, Maternal Health, Child Health, Low Child Sex Ratio and other Gender and Health, Physical Health Problems to Women areas under Grant-in-Aid (GIA) Scheme of Department of Health Research, Ministry of Health and Family Welfare, GOI, New Delhi; Member of various selection committees and expert groups; Appointed external examiner for DM Rheumatology examination; Appointed MCI expert to review functioning of department of Rheumatology at various universities; Appointed expert by Kashi Vidyapeeth University to review functioning of medical college running under its ambit; Appointed expert member of the task force of Metabolic Disorders and Auto-Immune Diseases by DBT, GOI; Member of expert group constituted for autoimmune disorders area under GIA scheme of Inter-Sectoral convergence and coordination for promotion and guidance on health research, Department of Health Research, Ministry of Health and Family Welfare, GOI, New Delhi; Nominated Review Committee member constituted under the Chairpersonship of Secretary, Department of Scientific and Industrial Research (DSIR) and Director General, Council of Scientific and Industrial Research (CSIR) to discuss the issues relating to a particular drug; Chaired a session in “International Lupus Meet 2018 held in Kolkata on 20-21 January 2018; Chaired a session in International Vasculitis Symposium held at PGIMER, Chandigarh from 31 March-1 April 2018.

Dr Danveer Bhadu received Travel Bursary Award by EULAR to attend international annual conference organized by European League Against Rheumatism (EULAR-2017, June), Madrid, Spain; International Travel Grant by DST to attend ACR-2018, San Diego, USA; Chaired a “basic paper session” in National Conference IRACON-2017; Chairperson in “Dermatology and Rheumatology” session in Rheumatology Update-2018.

Dr Ranjan Gupta received ARA-APLAR (Australian Rheumatology Association—Asia Pacific League of Association of Rheumatologists) Scholarship for the year June 2017 to attend the combined meeting of New Zealand Rheumatology Association and Australian Rheumatology Association held at Auckland, New Zealand.

Dr Aarti Sharma: “Biologics in PsA”—Ten Topics in Rheumatology, Rheumatology update (Sir Ganga Ram Hospital), New Delhi, as chairperson—November 2017.

Miscellaneous activities of the department

1. Presented Clinical Grand Round on “Air pollution and Autoimmunity”
2. Presented Clinical Combined Round
3. Video-consultation for patients with rheumatological disorders

VISITING SCIENTIST

1. Dr Jasvinder Singh, Professor of Medicine with Tenure, Staff Physician, Birmingham VA Medical Center, Research Collaborator, Mayo Clinic College of Medicine
2. Dr Robert Fox, Chief, Rheumatology Clinic, Ex-Stanford Medical School Faculty, Scripps Memorial Hospital and Research Foundation, La Jolla, California, USA
3. Tsutomu Takeuchi, Professor of Rheumatology, Keio University School of Medicine, General Director of Keio University Hospital

9.39. Surgical Disciplines

Professor and Head

Anurag Srivastava

Professors

Sunil Chumber
Sandeep Aggarwal
Sushma Sagar

Rajinder Parshad
Virinder Kumar Bansal
Amit Gupta
Biplab Mishra

V. Seenu
Anita Dhar
Subodh Kumar

Associate Professor

Hemanga K. Bhattacharjee

Assistant Professors

Asuri Krishna
Mohit Joshi
Suhani
Narendra Chaudhary

Piyush Ranjan
Yashwant Rathore
Om Prakash
Dinesh Bagaria

Manjunath Maruti Pol
Kamal Kataria
Pratyusha Priyadarshini
Abhinav Kumar

HIGHLIGHTS

Our department is involved in Minimal Invasive, Thoracic, Vascular, Renal Transplant, Breast, Endocrine, Gastrointestinal and Bariatric Surgery. We are running Breast Cancer, Bariatric and Renal Transplant Clinics. Asian Society of Mastology Conference (ASOMA). We have organized BARIME and Thoracic Surgery Symposium. PG CME in Surgery also conducted in our department. Apart from this, we have been running Minimal Invasive Training Programme for basic and advanced laparoscopic training. Many doctors came for short-term training from nearby countries. Eminent international faculties came to AIIMS and shared their experiences. Our department facilitated in training of trainers for roll-out of National Cancer Screening Programme viz. training of Medical Officers and paramedical staff from 8 states, more intensive training was done in two cities (Silchar and Dibrugarh). We have also developed module for performing breast cancer screening.

EDUCATION

1. Postgraduate seminar on every Wednesday from 5.00 pm to 6.00 pm
2. Journal club presented by MCh Sr. Resident on every Monday from 5.00 pm to 6.00 pm
3. Journal club presented by Jr. Resident on every Saturday
4. Mortality and morbidity round by Jr. Resident once in a week in each unit
5. Lectures, Teaching Schedule in OPD/Ward for MBBS students
6. Internal assessment from time to time conducted for Jr. Residents and MBBS students
7. Lectures for nursing students

8. The following training courses were organized in the Minimally Invasive Surgery Training Centre of the department:
 - (i) Basic and Advanced Laparoscopic Training Course: 14
 - (ii) Laparoscopic Hernia Surgery: 6
 - (iii) Laparoscopic Suturing: 2
 - (iv) AIIMS Breast Course: 2

CMEs/Workshops/Symposia/National and International Conferences

1. Australia India Trauma System Collaboration, Wrap-up Symposium, 12-13 March 2018, AIIMS, New Delhi
2. PG CME in Surgery, 18-19 February 2018, Department of Surgical Disciplines, AIIMS, New Delhi
3. Contemporary practices in Surgery: Symposium on Thoracic Surgery-2018 and Cadaver Workshop, 19-21 January 2018, Department of Surgical Disciplines, AIIMS, New Delhi
4. BARIME, 1 and 2 December 2017, Department of Surgical Disciplines, AIIMS, New Delhi
5. Combined Workshop of AIIMS and Osaka University, Japan, 17-18 November 2017, AIIMS, New Delhi
6. Asian Society of Mastology Conference (ASOMA), 7-9 October 2017, AIIMS, New Delhi
7. AITSC-WHO Workshop on Trauma Quality Improvement, 12 July 2017, JPNATC, AIIMS, New Delhi

Lectures delivered

Anurag Srivastava

1. SGPGI Breast Course 2018, ASICON, 2-4 February 2018, Department of Endocrine and Breast Surgery, SGPGIMS, Lucknow
2. Dr Arun Banerjee Oration, Oration, 16 January 2018, IPGME&R/SSKM Hospital, Kolkata
3. Innovations in Sentinel Node Mapping, San Antonio Breast Cancer Symposium (SABCS), 5-9 December 2017, Texas, U.S.A.
4. Cancer screening and prevention in a panel discussion on "Population Based Multi-cancer Screening", Pre Congress Workshop, 3 November 2017, PGIMER, Chandigarh
5. Annual Conference of Indian Association of Endocrine Surgeons (IAESCON 2017), IAESCON 2017, 13-14 October 2017, CMC, Vellore, Karnataka
6. Fluorescent guided breast surgery, Indian Section Pre-conference Workshop, 6-8 October 2017, International College of Surgeon Madras Medical College, Chennai
7. Emergency Medicine and Disaster Training Program, Department of Traumatology and Critical Care Medicine, 1-5 September 2017, Osaka City University Graduate School of Medicine, Japan
8. CME Programme, PSURGE-2017, 26 August 2017, Department of Surgery, CMC, Vellore
9. Breast Cancer Conference, 22-23 June 2017, Milan, Italy
10. IASOCON-2017, Midterm Conference of Indian Association of Surgical Oncology, 12-14 May 2017, PGIMER, Chandigarh

Sunil Chumber

1. Fourth CME in Surgery 2017, 27 and 28 February 2018, AIIMS, New Delhi
2. Primary hyperparathyroidism, Surgery Update, MAMC, New Delhi

Rajinder Parshad

1. Tips and tricks of laparoscopic surgery for CA rectum, Mid-Term CME of ASI-Delhi State Chapter with PG Master Class, 25 June 2017, Dr RML Hospital, New Delhi
2. Laparoscopic management of groin hernia, Mid-Term OSASICON-2017 and SELSICON-2017 (Odisha Chapter), 12 and 13 August 2017, Tata Steel Medical Hospital, Odisha
3. Video on how to do bowel anastomosis, ASI Refresher Course (August 2017), 27 August 2017, Dr RML Hospital, New Delhi
4. Laparoscopic management of achalasia cardia, AMASI Skill Course, 23 September 2017, Dr RML Hospital, New Delhi
5. Laparoscopic management of achalasia cardia, 50th AMASI Skill Course, 22-24 September 2017, GEM Hospital, Coimbatore
6. Sun has set on ALND? Asian Society of Mastology (ASOMA), 9 October 2017, JL Auditorium, AIIMS, New Delhi

7. Thymectomy: Thoroscopic, AMASICON 2017, 26-29 October 2017, Kochi
8. Moderator of session-Live Transmission Laparoscopic Roux-En-Y gastric Bypass, BARIME-2017, 2 December 2017, Ramalingaswami Board Room, AIIMS, New Delhi
9. Definition and classification, Consensus Meeting SELSI Guidelines for Safe Cholecystectomy, 16 December 2017, AIIMS, New Delhi
10. Lung biopsy, AIIMS Radiology Courses Update on Abdominal MR Imaging, 4 February 2018, Ramalingaswami Board Room, AIIMS, New Delhi

V. Seenu

1. CME, Guest Faculty, 10-11 March 2018, Sanathanagar, Hyderabad
2. 2nd Indian Cancer Congress 2017, 12 November 2017, Bengaluru
3. Establishment of deceased donor transplantation, Kidney Transplant Unit, 15 September 2017, IGIMS, Patna
4. Establishment of deceased donor transplantation, Kidney Transplant Unit, 11 June 2017, IGIMS, Patna
5. CME, Guest Faculty, 5-8 May 2017, ESIC Medical College, Hyderabad
6. CME Programme, Guest Faculty, 26-27 April 2017, AIIMS, Bhubaneswar

Sandeep Aggarwal

1. Hands on course on Cadavers, IFSO APC Congress, April 2017, Goa
2. Bariatric Surgery in Government Set-Up—Current Status and Challenges, IFSO APC Congress, April 2017, Goa
3. Panelist for the panel discussion on “Bariatric Surgery in Government Set-up—Current Status and Challenges”, IFSO APC Congress, April 2017, Goa
4. Initial experience of laparoscopic mini gastric bypass at a Tertiary Care Centre in India, MGB-OAGB 2017 Annual Consensus Conference, July 2017, Itlay
5. Live surgery at international live surgeries, Hands on Course in Bariatric, Metabolic, Endoluminal and Robotic Weight Loss Surgery and Obesity Symposium, ---, July 2017, Indore
6. Lap fundoplication, ---, 10 September 2017, Apollo, New Delhi
7. Laparoscopic sleeve gastrectomy, SELSICON 2017, September 2017, Jaipur
8. Weight regain after bariatric surgery—options, 2nd Fellowship Course in Bariatric and Metabolic Surgery, October 2017, Mumbai
9. Obesity and GERD, 2nd Fellowship Course in Bariatric and Metabolic Surgery, October 2017, Mumbai
10. Nutrition in bariatric surgery: Challenges in clinical practice, Midterm INSCN Meeting held at Institute of Liver and Biliary Sciences, November 2017, ILBS, Delhi
11. Panel discussion on “Bariatric Surgery—Selection of patients, Physiological rationale and appropriate procedure”, SURGICON 2017: Annual Conference of Association of Surgeons of India, Delhi State Chapter, November 2017, Lady Hardinge Medical College, Delhi
12. Panel discussion on clinical workshop: GERD based case scenario, LAPAROFIT 2017, November 2017, Coimbatore, Tamil Nadu
13. Solving bariatrics, LAPAROFIT 2017, November 2017, Coimbatore, Tamil Nadu
14. Training opportunities in Bariatric Surgery, BARIME 2017, December 2017, AIIMS, New Delhi
15. Role of Bariatric Surgery in NAFLD, BARIME 2017, December 2017, AIIMS, New Delhi
16. Ten years of AIIMS Bariatric Surgery Program, BARIME 2017, December 2017, AIIMS, New Delhi
17. Overview of Bariatric Surgery, BARIME 2017, December 2017, AIIMS, New Delhi
18. Risk reduction strategies in Inguinal Hernia Repair, Hernia Fest 2017, December 2017, New Delhi
19. Relevance of RCTs in Surgery, XVI World Congress of Obesity and Metabolic Surgery Society of India (OSSI), February 2018, Chennai
20. Sleeve Gastrectomy in GERD Patients, XVI World Congress of Obesity and Metabolic Surgery Society of India (OSSI), February 2018, Chennai
21. Course faculty for Pre Conference PG Course on “Clinical Research”, XVth World Congress of Obesity and Metabolic Surgery Society of India (OSSI), February 2018, Chennai
22. Laparoscopic sleeve gastrectomy, AIIMS RISHIKESH MASCON 2018, March 2018, AIIMS, Rishikesh

V.K. Bansal

1. Guidelines for laparoscopic cholecystectomy in “Meeting of Minimal Access Surgery Guidelines and Recommendations” Revision Update, 17-18 March 2018, Max Super Speciality Hospital, Saket, New Delhi
2. Laparoscopic management of CBD stones, Annual Meeting of MASCON, 10 March 2018, AIIMS, Rishikesh
3. Mesh insertion-revised, Guidelines Meeting of International Endohernia Society (IEHS) on Incisional Hernias, 2-3 March 2018, Cologne, Germany
4. Comparison of hospital stay, return to activity, cost, quality of life, paid and recurrence after laparoscopic and open ventral and incisional hernia repair—Trbidrf, Guidelines Meeting of International Endohernia Society (IEHS) on Incisional Hernias, 2-3 March 2018, Cologne, Germany
5. Positioning of the trocars and creating the capnopneumoperitoneum, Guidelines Meeting of International Endohernia Society (IEHS) on Incisional Hernias, 2-3 March 2018, Cologne, Germany
6. Guidelines for difficult cholecystectomy, Guidelines Meeting of SELSI for Safecholecystomy, December 2017, AIIMS, New Delhi
7. Pancreatogastrostomy—How to make it simple, Mid Term CME of IHPBA (Indian Chapter), 25-26 November 2017, PGIMER, Chandigarh
8. Laparoscopic cystogastrostomy, SURGICON 2017, 12 November 2017, LHMC, New Delhi
9. A randomized control trial of comparison of sexual functions and quality of life after TEP vs TAPP repair, Guidelines Meeting of International Endohernia Society (IEHS) on Incisional Hernias, 14 October 2017, Beijing, China
10. Mesh insertion, Guidelines Meeting of International Endohernia Society (IEHS) on Incisional Hernias, 13-15 October 2017, Beijing, China
11. Comparison of hospital stay, return to activity, cost, quality of life, paid and recurrence after laparoscopic and open ventral and incisional hernia repair, Guidelines Meeting of International Endohernia Society (IEHS) on Incisional Hernias, 13-15 October 2017, Beijing, China
12. SELSI consensus guidelines for performance of safe cholecystectomy and prevention of bile duct injury, Annual Meeting of SELSI- SELSIOC 2017, 6 September 2017, Jaipur, Rajasthan
13. Laparoscopic management of cystic lesions of liver, Annual Meeting ASCION, 10 September 2017, New Delhi
14. Large groin hernias-Management issues, Annual Meeting of Hernia Society of India, HSICON-2017, 11 August 2017, New Delhi
15. Live operative demonstration of Laparoscopic TAPP repair of inguinal hernia, Annual Meeting of IHSCON 2017, 5-6 August 2017, Kochi, Kerala
16. Laparoscopic management of CBD stones, PSG SURGICON-2017, 24-26 June 2017, Coimbatore, Tamil Nadu

Anita Dhar

1. Moderation of case presentation for varicose veins, SCOPE 2018, 9 February 2018, RML Hospital, New Delhi
2. Moderation of case presentation for PVD, SCOPE 2018, 9 February 2018, RML Hospital, New Delhi
3. Moderated the peripheral arterial disease session, Surgery Update, 26 September 2017, MAMC, New Delhi
4. Randomized study to compare efficacy of short stretch bandage systems with locally used cotton crepe bandages in the treatment of lower limb lymphedema, VSICON2017, 16 September 2017, Kochi, Kerala

Sushma Sagar

1. Reconstructive issues in trauma, 30th Surgical Seminar the Management of Patients with War Wounds, 29 March-2 April 2017, Geneva, Switzerland
2. Introduction to ATLS and course overview, Advanced Trauma Life Support Provider Course, 13-15 July 2017, JPNATC, AIIMS, New Delhi
3. Initial assessment and management in trauma, Advanced Trauma Life Support Provider Course, 13-15 July 2017, JPNATC, AIIMS, New Delhi
4. How can youth contribute to changing the scenario of road safety in India? i-SAFE Challenge by IRSC, MoRTH, TRIPP, Delhi Traffic Police, 19 August 2017, IIT Delhi, New Delhi
5. Soft tissue reconstruction in trauma and amputation, Indian Association of Traumatology and Critical Care, Government Medical College, 10 September 2017, Nagpur
6. Road safety for bystanders, IRSC WORKSHOP, 15 October 17, JPNATC, Delhi
7. Trauma Session, SURGICON 2017, 10-12 November 2017, LHMC, Delhi

8. Special situations in bariatric surgery, 1st National PG CME on Bariatric Surgery, 2 December 2017, AIIMS, Delhi
9. Medical perspective to road safety, Safer Mobility: A Road to Safer India by Indian Road Safety Campaign Supported by MoRTH, 16 December 2017, IIT Delhi, Delhi
10. Surgical site infections, Nursing Update by HICN Team, 1 February 2018, JPNATC, Delhi
11. Challenges and gender biases to women surgeons in developing world, National Symposium on Contribution of Women in Science in India, 15 February 2018, Kolkata
12. Road safety for all, Second Working Group Meeting of the Meeting Group for Safer Road, 10 March 2018, Gurgaon, Haryana
13. REPAIR study, Australia India Trauma System Collaboration (AITSC) Wrap Up Conference, 12 March 2018, AIIMS, New Delhi
14. 2nd JK Medical Science Congress 2017, 1st Annual Conference of M P PCOS Society, 10-13 May 2017, Sher-i Kashmir International Conference Centre (SKICC), Srinagar, J&K

Amit Gupta

1. National platform for disaster risk reduction, Disaster Risk Reduction, 15-16 May 2017, Ministry of Home Affairs Government of India, Vigyan Bhawan, New Delhi
2. Workshop Cum CME Programme: Health Record Science and Informatics for MRD Staff, 22 May 2017, JPNATC, AIIMS, New Delhi
3. Fast tracking road safety initiatives in Gujarat, Initiatives in Gujarat, 10 June 2017, International Roads Federation (India Chapter), Ahmedabad, Gujarat
4. 5th Workshop on Medical Management of CBRN Casualties for Medical Officers, CBRN Casualties for Medical Officers, 25 July 2017, DRDO at DRDO Bhawan, New Delhi
5. Strengthening trauma and emergency care system and disability prevention, State of Kerala, Training Program, 27-29 July 2017, JPNATC, AIIMS,, New Delhi
6. Strengthening road safety and transport system in India, Transport System in India, 22-23 August 2017, United Nations Institute for Training and Research and IRTE at College of Traffic Management, Faridabad
7. 7th National Conference of Indian Association of Traumatology and Critical Care, TRAUMASICON 2017, 10 September 2017, Government Medical College, Nagpur, India
8. Workshop on trauma care systems, Trauma Care Systems, 9-10 November 2017, Tamil Nadu Accident and Emergency Initiative, IIT, Chennai
9. Safety of vulnerable road users, 9-11 November 2017, Institute of Road Traffic Education, CTM, Faridabad, Haryana
10. IRF World Road Meeting 2017, IRF WORLD, 14-17 November 2017, International Roads Federation (India Chapter), Greater Noida Convention Centre, Greater Noida
11. 14th International Surgical Congress and SAARC Surgical Society Meeting 2017, SAARC Surgical Society Meeting 2017, 7-10 December 2017, Society of Surgeons, Bangladesh and SAARC Surgical Care Society, Dhaka, Bangladesh
12. Consultation on injury surveillance and road safety legislation in India, Injury Surveillance and Road Safety, 20 December 2017, WHO Country Office (India), New Delhi
13. 1st Foundation Day of Department of Trauma Surgery, 1st Foundation Day, 4 January 2018, Department of Trauma Surgery, KGMU, Lucknow
14. Workshop on interventional study on comprehensive emergency care and trauma registry for road traffic injuries in India, Workshop on Interventional Study, 9-10 February 2018, Jubilee Mission Medical College and Research Institute, Thrissur, Kerala
15. 93rd Training Course on Hospital Administration for Senior Hospital Administrators, 93rd Training Course, 13 February 2018, National Institute of Health and Family Welfare, New Delhi
16. 63rd Annual Foundation Day, 63rd Annual Foundation Day, 16 February 2018, Department of Surgery, KGMU, Lucknow
17. First National Conference on Industrial Emergency Medical Services (NiEMS), First National Conference, 22-25 February 2018, Lifeline Foundation, Ahmedabad
18. VIMS Trauma Update 2018, VIMS Trauma Update, 3 March 2018, Vivekananda Institute of Medical Sciences, Kolkata

19. AITSC-WHO Workshop on Trauma Quality Improvement, AITSC-WHO Workshop, 12 July 2017, JPNATC, AIIMS,, New Delhi
20. Australia India Trauma Systems Collaboration, Wrap-up Symposium, 12-13 March 2018, AIIMS, New Delhi

Subodh Kumar

1. Protocol based trauma management—ATLS principles, Trauma Congress 2017, 22 April 2017, Government Medical College, Srinagar
2. Laparoscopic anatomy of groin hernia, In Training Course in Laparoscopic Hernia Surgery, 25 July 2015, AIIMS, New Delhi
3. Pelvic trauma—Surgical aspects, TRAUMASICON 2017, 10 September 2017, Nagpur
4. Dr H. Lalmohan Singh Oration on “Comprehensive management of Blunt abdominal and pelvic Trauma”, ASIMANICON 2017, 7 October 2017, Manipur, Imphal
5. Management of vascular trauma, ASIMANICON 2017, 7 October 2017, Manipur, Imphal
6. Management of torso trauma, EMCON 2017, 2 November 2017, Jaipur, Rajasthan
7. Laparoscopic anatomy of groin hernia, In Training Course in Laparoscopic Hernia Surgery, 14 November 2015, AIIMS, New Delhi
8. Management of thoracic trauma, SURGICON 2017, 11 November 2017, Lady Hardinge Medical College, Delhi
9. Traumatic pancreatic ductal disruption, Mid Term CME of IHPBA, 24 November 2017, Chandigarh
10. Management of airway in trauma patient, International Congress of Society of Surgeons of Bangladesh, 7 December 2017, Dhaka, Bangladesh
11. Management of torso trauma, International Congress of Society of Surgeons of Bangladesh, 7 December 2017, Dhaka, Bangladesh
12. Management of chest injuries at a Level I trauma centre, International Congress of Society of Surgeons of Bangladesh, 8 December 2017, Dhaka, Bangladesh
13. Laparoscopic anatomy of groin hernia, In Training Course in Laparoscopic Hernia Surgery, 12 December 2017, AIIMS, New Delhi
14. Training in trauma care in India beyond ATLS, 1st Foundation Day, 3 January 2018, King George Medical University, Lucknow
15. Laparoscopic anatomy of groin hernia, In Training Course in Laparoscopic Hernia Surgery, 22 January 2018, AIIMS, New Delhi
16. Laparoscopic anatomy of groin hernia, In Training Course in Laparoscopic Hernia Surgery, 26 February 2018, AIIMS, New Delhi
17. Role of laparoscopy in trauma, MASCON 2018, 10 March 2018, AIIMS, Rishikesh
18. Initial assessment of trauma victim, Advanced Trauma Life Support Course (ATLS), 22 March 2018, RML Hospital, New Delhi
19. Management of cardiac injury, AIIMS Thoracic Surgery Course (ATSC), 27 March 2018, AIIMS, New Delhi

Biplab Mishra

1. Introduction to ATLS and course overview, Advanced Trauma Life Support Course (ATLS), 13-15 July 2017, ---, Puducherry
2. Initial assessment and management, Advanced Trauma Life Support Course (ATLS), 13-15 July 2017, ---, Puducherry
3. Transfer to definitive care, Advanced Trauma Life Support Course (ATLS), 13-15 July 2017, ---, Puducherry
4. Thoracic trauma, Advanced Trauma Life Support Course (ATLS), 8-10 June 2017, ---, New Delhi
5. Introduction and overview of MAWE, Management of Acute Wounds in ED (MAWE) Course, 2 August 2017, ---, New Delhi
6. Types of wounds, medico-legal aspects and wound infection, Management of Acute Wounds in ED (MAWE) Course, 2 August 2017, ---, New Delhi
7. Patient and wound assessment, preparation and anaesthesia, Management of Acute Wounds in ED (MAWE) Course, 2 August 2017, ---, New Delhi
8. Wound management protocol and algorithm, Management of Acute Wounds in ED (MAWE) Course, 2 August 2017, New Delhi
9. Introduction to ATLS and course overview, Advanced Trauma Life Support Course (ATLS), 7 September 2017, ---, New Delhi

10. Initial assessment and management, Advanced Trauma Life Support Course (ATLS), 7 September 2017, ---, New Delhi
11. Transfer to definitive care, Advanced Trauma Life Support Course (ATLS), 7 September 2017, ---, New Delhi
12. Introduction and overview of MAWE, Management of Acute Wounds in ED (MAWE) Course, 25 November 2017, ---, New Delhi
13. Types of wounds, medico-legal aspects and wound infection, Management of Acute Wounds in ED (MAWE) Course, 25 November 2017, ---, New Delhi
14. Wound management protocol and algorithm, Management of Acute Wounds in ED (MAWE) Course, 25 November 2017, New Delhi
15. Introduction and overview of MAWE, Management of Acute Wounds in ED (MAWE) course, 3 February 2018, ---, New Delhi
16. Types of wounds, medico-legal aspects and wound infection, Management of Acute Wounds in ED (MAWE) Course, 3 February 2018, New Delhi
17. Shock, Evaluation of a Capacity Building Programme to Develop Trauma ED in a Tertiary Care Center, 1 March 2018, ---, Rishikesh
18. Initial management of trauma in A&E, International Congress and First Peruvian-Indian Surgical Meeting, 16 March 2018, ---, New Delhi
19. Introduction and overview of MAWE, Management of Acute Wounds in ED (MAWE) Course, 23 March 2018, New Delhi
20. Access into thoracic cavity, Second AIIMS Cadaveric Thoracic Surgery Course, 27 March 2018, New Delhi

Hemanga K. Bhattacharjee

1. Development of new surgical technology: My journey so far, American College of Surgeons Clinical Congress, 22-26 October 2017, San Diego, California
2. Stapling technology and their advantages, CME on Staplers, 23 March 2018, Aligarh, UP
3. Ergonomics in laparoscopy, 10th National Conference of Indian Hernia, 4-6 August 2017, Kochi, Kerala
4. Abdomino-Perineal Resection (APR), 4th Surgery Clinically Oriented Postgraduate Examination Course (SCOPE Course), 8-11 February 2018, New Delhi

Asuri Krishna

1. Laparoscopic anatomy of groin hernia, IHS Agra Chapter, 22 February 2018, Agra, UP

Piyush Ranjan

1. Lecture, DDMA, August 2017, Delhi Disaster Management Institute, New Delhi
2. ECHO programme of National Institute of Cancer Prevention and Research, Diagnosis of Breast Cancer, August 2017, Noida
3. Guest lecture, Updates in Management of Breast Cancer, AIIMS, New Delhi
4. Lecture, ATLS provider course, JPNATC, AIIMS, New Delhi
5. Lecture at NIDM, NIDM, September 2017, National Institute of Disaster Management, New Delhi
6. 13th Postgraduate Course in Endocrine Surgery, Endocrine Surgery, 6-9 September 2017, SGPGI, Lucknow
7. Asian society of Mastology Conference, ASOMA Conference, 7-9 October 2017, AIIMS, New Delhi
8. SGPGI Breast Course and Brascon, Breast Course and Brascon, 2-4 February 2018, SGPGI Lucknow
9. 16th Biennial Congress of Asian Association of Endocrine Surgeons, Asian Association of Endocrine Surgeons, 8-10 March 2018, AIIMS, New Delhi

Manjunath Maruti Pol

1. Sutures in Surgery, UG Suturing Workshop, 22 April 2017, AIIMS,
2. Surgical aspects of kidney transplant, World Nurses Day 2017, 12 May 2017, AIIMS, New Delhi

Mohit Joshi

1. Idiopathic Interstitial Pneumonia (IIP), AIIMS PULMOCRIT, 15-16 April 2017, AIIMS, New Delhi
2. How to make good MCQs, National Workshop for Teachers of College of Nursing, 18 April 2017, RAK College of Nursing, Lajpat Nagar, New Delhi
3. Staplers in Surgical Practice, ASI-FAIS Credentialing Course, 25 August 2017, PGIMER, RML Hospital, New Delhi

4. Multiple choice questions, Workshop on MCQs, 29-31 August 2017, AIIMS, Rishikesh
5. Surgical anatomy of lung hilum and its relevance in lung cancer, UCMS Surgical Oncology Update 2017, National Symposium on Recent Advances in Oncology and Master Video Workshop, 8 October 2017, India Islamic Centre, New Delhi
6. Preparing wounds for repair and wound anesthesia, Management of Acute Wounds in ED (MAWE), 3 November 2017, AIIMS, New Delhi
7. Project planning tools, Evaluation of the Research Project, FAIMER Fellowship Course-2018, 30 January-2 February 2018, CMC, Ludhiana, Punjab
8. Surgical aspects of wound management, Management of Acute Wounds in ED (MAWE), 3 February 2018, AIIMS, New Delhi
9. Pelvic fractures: A paradigm for surgeons, CME and 63rd Annual Foundation Day, 16 February 2018, KGMU, Lucknow

Yashwant Rathore

1. Sutures in Surgery, UG Suturing Workshop, 22 April 2017, AIIMS, New Delhi
2. Sutures in Surgery, UG Suturing Workshop, 31 March 2017, AIIMS, New Delhi

Kamal

1. 13th Postgraduate Course in Endocrine Surgery, 13th Postgraduate Course, 6-9 September 2017, SGPGI, Lucknow, UP
2. ESMO Preceptorship, Breast Cancer, 20-21 November 2017, Singapore
3. SGPGI Breast Course and Brascon, Breast Course and Brascon, 2-4 February 2018, SGPGI, Lucknow, UP

Suhani

1. Sources of surgical sepsis: Limb, abdomen and thorax, ASI Refresher Course and FAIS Credentialing Course, 25 August 2017, RML Hospital, New Delhi
2. Faculty trainer: Surgical staplers, ASI Refresher Course and FAIS Credentialing Course, 25 August 2017, RML Hospital, New Delhi
3. Moderator of panel discussion: Case capsules in Thoracic Surgery and Moderated Quiz, Contemporary practices in surgery: Symposium on Thoracic Surgery 2018, 21 January 2018, AIIMS, New Delhi
4. Chest tube insertion, SCOPE Course, 9 February 2018, RML Hospital, New Delhi
5. Moderated PG Quiz, New Horizons in Minimally Invasive Surgery, 1 March 2018, ---, Delhi

Om Prakash

1. Outcome of Pancreaticogastrostomy in Whipples Procedure*, Mid-Term CME of HBP, 8-10 November 2017, PGIMER, Chandigarh
2. Talk on Laparoscopic Cystogastrostomy for Pseudocyst of Pancrease, Selsicon Jaipur, 12-14 September 2017, Jaipur, Rajasthan
3. Faculty Mentor/Trainer, Cadaveric Workshop: Delhi State Chapter ASI and VMMC, 22-23 March 2018, ---, Delhi

Dinesh Kumar Bagaria

1. Current status of Advanced Trauma Life Support (ATLS) Courses in India and future directions, World Road Meet 2017, 17 November 2017, Greater Noida, UP
2. Role of investigations in patients with suspected abdominal injuries, ASICON 2017, 27 December 2017, Jaipur, Rajasthan
3. Management of liver trauma—Battlefield with multiple weapons: What to use and when, Surgical Education Programme 2018, 16 February 2018, Lucknow, UP

Narendra Choudhary

1. Adherence to safety practices in motorized two and four wheelers in National Capital Region: Data from Level I Trauma Center, World Road Meet 2017, 17 November 2017, Greater Noida, UP
2. Evaluation of a trauma patient in Emergency Room, 63rd Annual Foundation Day, King George Medical University, Lucknow, 16 February 2018, Lucknow, UP
3. Resuscitative thoracotomy in trauma patient, 2nd AIIMS Cadaveric Thoracic Surgery Course, 27 March 2018, New Delhi

Abhinav Kumar

1. Splenic trauma: Marching toward organ conservation, 63rd Annual Foundation Day, King George Medical University, Lucknow, 16 February 2018, Lucknow, UP
2. Surgical Anatomy Head and Neck Region, Cadevaric Skill Workshop on Head, Neck and Breast, VMMC and SJH, ND, 22-23 March 2018, New Delhi

Oral papers/posters presented

1. Oberoi AS, Parshad R, Suhani, Kashyap L. Prospective study to evaluate the role of protocol based management of chest tubes in patients undergoing elective pulmonary resections, ASICON 2017, 26-30 December 2017, Jaipur
2. Oberoi AS, Parshad R, Suhani, Verma E. Wrap migration: When, how and now what?*, ASICON 2017, 26-30 December 2017, Jaipur
3. Rattan A, Bairwa K, Gupta A, Kumar S, Sagar R, Sagar S. Outcome of 310 traumatic amputations at level 1 trauma center in New Delhi, Wound Care: From Innovations to Trials (WCICT 2017), 20-21 June 2017, Manchester, UK
4. Sood A, Pao K, Singh K, Surya TSHV, Ranjan P, Kataria K, Kumar C. Sutureless thyroidectomy with electro-surgical devices: A tertiary care centre experience, ASAES 2018, 8-10 March 2018, New Delhi
5. Agarwal AK, Bhattacharjee SHK, Ganie A, Malhotra N, Vikram N. Impact of bariatric surgery on clinical, hormonal and radiological parameters of polycystic ovary syndrome, 25th International Congress of the E.A.E.S, 14-17 June 2017, Frankfurt, Germany
6. Bhattacharjee HK, Bagaria V, Milind S, Bansal VK, Misra MC. Outcome of laparoscopic pericystectomy and laparoscopic cystectomy (deroofting) for liver hydatid cyst, 25th International Congress of the E.A.E.S, 14-17 June 2017, Frankfurt, Germany
7. Qaiser D, Srivastava A, Sonil S. Optical therapy in breast cancer, Conference on Non-Communicable Diseases, 3-5 November 2017, Chandigarh
8. Krishna A, Bansal VK. Laparoscopic CBD exploration—Experience of more than 350 cases, SAGES, 21 March 2017, Houston, USA
9. Krishna A, Bansal VK. TEP vs TAPP—More than 1000 cases, SAGES, 21 March 2017, Houston, USA
10. Maitra D, Kumar C, Gupta N, Sood A, Ranjan P, Kataria K, Srivastava A. Surgeon performed superficial cervical plexus block for thyroidectomy and para-thyroidectomy, Poster at 16th Biennial Congress of Asian Association of Endocrine Surgeons, 8-10 March 2018, New Delhi
11. Maqbool M, Mir N, Kumar A, Joshi M, Sagar R, Sagar S. Assessment of quality of life among upper and lower limb amputees admitted at Surgical Unit of Level I Trauma Center, AIIMS, Trauma Conclave 2018, 1st National conclave on Psychological Trauma, Child Protection and Mental Illness, 27-28 March 2018, AIIMS, New Delhi
12. Mir N, Hussain A, Moorthy AS, Kumar S, Gupta A, Sagar S. Plight of an amputee: What stops me from working, Nat'l Symposium on Contributions of Women in Science in India, 15-16 February 2018, Kolkata
13. Mir N, Hussain A, Moorthy AS, Kumar S, Sagar S, Burden of limb loss in patients following trauma: Aneglected entity, Nat'l Symposium on Contributions of Women in Science in India, 15-16 February 2018, Kolkata
14. Ranjan P, Srivastava A, Kataria K, Qaiser D, Sharma CK, Surya T, Pao K. Efficacy of intravenous fluorescein in carcinoma breast to assess axillary metastasis in post chemotherapy patients: A novel approach, European Breast Cancer Conference-11 (EBCC-11), 21-23 March 2018, Barcelona, Spain
15. Ranjan P. Trans oral endoscopic thyroidectomy vestibular approach, EAES (European Association of Endoscopic Surgery), 14-17 June 2017, Frankfurt, Germany
16. Parshad R. Laparoscopic resection of gastric gist post neoadjuvantimatinib therapy, IAGES 2018, 8-10 February 2018, Raipur, MP
17. Parshad R. Laparoscopic right hemicolectomy for mucinous neoplasm of appendix, IAGES 2018, 8-10 February 2018, Raipur, MP
18. Parshad R. Prospective study to evaluate the role of protocol based management of chest tubes in patients undergoing elective pulmonary resections, ASICON 2017, 26-30 December 2017, Jaipur, Rajasthan
19. Parshad R. Video assisted thoracoscopic excision of mediastinal ectopic parathyroid adenoma, 16th Biennial Asian Society of Endocrine Surgeons, 8-10 March 2018, AIIMS, New Delhi
20. Parshad R. Wrap migration: When, how and now what? ASICON 2017, 26-30 December 2017, Jaipur, Rajasthan (Best paper award)
21. Pathak R, Sagar S. Application of facial fat grafting in Post Traumatic Facial Defects: Our experience at a Level I Trauma Centre, AIIMS, New Delhi, World Congress for Dental and Oral Health (DENTAL-2017), 3-5 May 2017, Madrid, Spain

22. Pathak R, Sagar S. Autologous fat transfer in posttraumatic facial defects: A preliminary experience at Level I Trauma Centre, 41st Annual Conference of Association of Oral and Maxillofacial Surgeons of India, 24-26 November 2017, Ahmedabad
23. Pathak R, Sagar S. Burden of Maxillofacial Injuries at Level I Trauma Centre, AIIMS, New Delhi, World Congress for Dental and Oral Health (DENTAL-2017), 3-5 May 2017, Madrid, Spain
24. Tripathi SN, Bhattacharjee HK, Das P, Shashikiran NJ, Suhani, Parshad R. Laparoscopic right hemicolectomy for mucinous neoplasm of appendix, IAGES 2018, 8-10 February 2018, Raipur
25. Aggarwal S. Impact of bariatric surgery on Obstructive Sleep Apnea-Hypoapnea syndrome in morbidly obese patients, IFSO 2017, 22nd World Congress, August 2017, London
26. Vuthaluru S, Gupta S, Suhani, Parshad R. Evaluation of awareness regarding breast oncoplasty among breast cancer patients, 47th World Congress of Surgery, 13-17 August 2017, Basel, Switzerland
27. Sentinel lymph node mapping with dual tracer combination: Fluorescent fluorescein with methylene blue compared to radioactive sulphur colloid with methylene blue: A randomized comparison, San Antonio Breast Cancer Symposium (SABCS), 5-9 December 2017, San Antonio, USA
28. Shashikiran NJ, Tripathi SN, Hemanga KB, Suhani, Parshad R. Laparoscopic resection of gastric gist post neoadjuvantimatinib therapy, IAGES 2018, 8-10 February 2018, Raipur
29. Skin Sparing Mastectomy, Oncoplasty and Sentinel Node Biopsy, Breast Cancer Conference, 22-23 June 2017, Milan, Italy
30. Suhani, Parshad R, Oberoi AS, Sharma R, Kashyap L, Kumar R, Tandon N. Video assisted Thoracoscopic excision of Mediastinal ectopic parathyroid adenoma, 16th Biennial Asian Society of Endocrine Surgeons, 8-10 March 2018, Delhi
31. Surya TSHV, Ranjan P, Srivastava A, Pao K, Simha A. Role of clinical examination, ultrasonography, mammography in predicting pathological complete response to neoadjuvant chemotherapy, ASICON 2017, 25-29 December 2017, Jaipur
32. Gaonkar VB, Sharma CK, Srivastava A, Dhar A, Ranjan P, Kataria K. Fast track hemithyroidectomy, ASAES 2018, 8-10 March 2018, New Delhi

RESEARCH

Funded projects

Ongoing

1. Evaluation of the Nitric Oxide, Nitric Oxide Synthase, Vascular endothelium growth factor, Interleukin in lower arterial disease and their association with clinical outcome, Anita Dhar, AIIMS, 3 years, 2014-2017, Rs 5 lakhs
2. Randomized study to compare efficacy of two types of 2-layer compression bandage systems from KOB and multi-layer local Indian bandages in the treatment of leg ulcers, Anita Dhar, KOB, 2 years, 2016-2017, Rs 2 lakhs
3. Randomized study to compare efficacy of short stretch bandage systems from KOB with multi-layer local Indian bandages in the treatment of lower limb lymphoedema, Anita Dhar, Extramural Funds by KOB, 2 years, 2016-2017, Rs 2 lakhs
4. A randomized control trial to study the impact of Yoga intervention in lower limb amputees following trauma in relation to postsurgical outcome, behavior and quality of life at Level I Trauma Center, Sushma Sagar, DST, 3 years, 2017-2020, Rs 54 lakhs
5. To evaluate results of soft tissue reconstruction and augmentation with structural fat grafting in patients with post traumatic facial disfigurement, Sushma Sagar, DST (Women Scientist), 3 years, 2015-2018, Rs 30 lakhs
6. Reducing burden of injury in India and Australia through development and piloting of improved systems of care, Australia India Trauma Systems Collaboration, Amit Gupta, DST, 4 years, 2014-2018, Rs 3.61 crores, Indian Side
7. An intervention study on comprehensive emergency care and trauma registry for road traffic injuries in India. ICMR—National Task Force Project, Amit Gupta, ICMR, 2.5 years, 2017-2019, Rs 75 lakhs
8. To study the impact of Yoga on Pulmonary Functions, Immune Response and Quality of Life in Chest Trauma Patients at Level I Trauma Center, Subodh Kumar, DST, 3 years, 2016-2019, Rs 40 lakhs
9. Management of superficial lipoma by mesotherapy, Kamal Kataria, Yashwant Singh Rathore, AIIMS, Delhi, 2 years, 2016-2018, Rs 4 lakhs

Completed

1. A prospective study of clinico-pathological factors in maturation of arterio-venous fistula in patients with chronic kidney disease, VK Bansal, AIIMS, 2 years, 2015-2017, Rs 5 lakhs

2. Intraoperative low tidal volume ventilation in peritonitis patients under-going emergency laparotomy: A randomized controlled trial, Dalim Kumar Baidya, AIIMS, 2 years, 2015-2017, Rs 5 lakhs
3. Reducing the burden of injury in India and Australia through development and piloting of improved systems of care, Subodh Kumar, DST, 5 years, 2013-2018, Rs 2.74 crores
4. Cleft Lip and Palate anomaly in India: Clinical profile, Risk factors and current status of treatment—Hospital based surveys, Sushma Sagar, ICMR, 5 years, 2013-2017, Rs 35 lakhs
5. Project on Capacity Building for Advanced Trauma Life Support in India (PPCB-ATLSI), Subodh Kumar, NDMA, 1 year, 2016-2017, Rs 1.32 crores
6. Role of Th1, Th2, neutrophils and monocytes in the outcome of patients with chest trauma, Subodh Kumar, AIIMS, 2 years, 2016-2018, Rs 9 lakhs
7. A prospective study of clinico-pathological factors in maturation of arterio-venous fistula in patients with chronic kidney disease, Bhattacharjee HK, AIIMS, 2 years, 2015-2017, Rs 5 lakhs

Departmental projects

Ongoing

1. A prospective randomized comparison of testicular function sexual, function and quality of life following Laparoscopic Totally Extra Peritoneal (TEP) and Trans Abdominal Pre-Peritoneal (TAPP) INSUINAL Hernia Repair
2. A prospective randomized control study to compare antral resection versus antral preservation during laparoscopic sleeve gastrectomy for morbidly obese
3. A prospective randomized trial comparing endoscopic and laparoscopic drainage for pseudocyst of pancreas
4. A prospective randomized trial comparing laparoscopic and endoscopic drainage of pseudo cyst WON of pancreas
5. A prospective, randomized, controlled, open labeled comparison of two analgesic techniques—Intrathecal Morphine (ITM) and Transverse Abdominis Plane (TAP) Block, for live laparoscopic donor nephrectomy
6. A randomized study of patient satisfaction in surgical patients—A quality improvement study
7. A study of Gut Microbiome in patients with gallbladder cancer
8. A study of physiological outcome and correlation with symptomatic outcome following laparoscopic heller cardiomyotomy in primary achalasia cardia
9. A study to assess pancreatic endocrine and exocrine functions in patients with pancreatic trauma
10. A study to grade management related complications in acutely injured patients and their correlation with the outcomes at a Level I Trauma Centre
11. A three arm randomized controlled study to compare sexual function following open mesh hernioplasty, Laparoscopic Totally Extra Peritoneal (TEP) and Trans Abdominal Pre-Peritoneal (TAPP) Repair of Groin Hernia
12. Abbreviated discharge protocol in blunt liver and splenic trauma: A pilot study
13. Achalasia cardia: Long term outcome and assessment of factors predicting outcome following laparoscopic Heller's Cardiomyotomy
14. An investigation to identify the etiopathogenesis of fibroadenoma; An ultrastructural and physicochemical study
15. Application of laparoscopic ultrasound in hepatobiliary diseases: A prospective study
16. Assessment of post-trauma cytokine producing potential of monocytes for early diagnosis of organ dysfunction and sepsis
17. Assessment of splenic immune function in patients with blunt splenic injury
18. Bench dissection of parathyroid in dissected thyroid specimen
19. Clinical relevance of immune associated molecules in live related donor renal transplantation
20. Comparison of efficacy of ormeloxefine and tamoxifen in the treatment of cyclical mastalgia: A five armed double blinded randomized controlled trial
21. Comparison of locoregional recurrence and cosmesis following simple closure and breast onoplasty
22. Comparison of mesotherapy (non operative) with surgery in management of superficial lipomas
23. Comparison of oncologic and functional outcomes in ladies with breast cancer treated with breast conservation compared to those treated with mastectomy: An ambispective study
24. Comparison of sexual function and semen analysis—TEP vs TAPP vs Open Groin Hernia Repair
25. Comparison of Three-Dimensional (3D) endovision system versus Ultra-High Definition (HD) (4K) endovision system in minimally invasive surgical procedures—An open labeled randomized study

26. Comparison of Two-Dimensional (2D) Endovision System, Ultra-High Definition (HD) (4K) endovision system and Three-Dimensional (3D) HD endovision system on standardized phantom tasks: An ex vivo study
27. Correlation of imaging and operative findings with long term clinical and biochemical outcome in patients with primary hyperparathyroidism
28. Effect of phrenic nerve stimulation on diaphragm strength and thickness: A randomized controlled trial
29. Effect of phrenic nerve stimulation on diaphragmatic strength and thickness
30. Effect of virtual reality therapy in improving balance and quality of life in lower limb amputation
31. Effect of virtual reality therapy on lower limb amputee balance ADL and pain
32. Ergonomic analysis of muscle activity during laparoscopy and influence of training
33. Ergonomics in laparoscopic surgery
34. Evaluation of a capacity building programme to develop Trauma ED in a tertiary care center
35. Evaluation of clinical predictors and outcomes in patients with open abdomen (laparostoma) in trauma
36. Evaluation of gamma synuclein as a serum bio-marker in breast cancer
37. Evaluation of prognostic significance of IL-10 expression in Breast cancer tissue and circulating micron 106a in patients with breast cancer
38. Evaluation of role of benzathiene penicillin in healing of chronic venous leg ulcers: A prospective randomised trial
39. Evaluation of safety and efficacy of oral Cyclophosphamide, Mathotrexate and Capecitabine (CMC) in locally advanced breast cancer patients: A pilot study of 20 cases
40. Evaluation of the role of a Capacity building program for initial assessment and management of trauma patients in Emergency Department in improving knowledge, skills and attitude of doctors and nurses
41. Feasibility and implementation of hospital based trauma registry for road traffic injuries at different levels of health care setting and its effects on quality of patient care
42. Feasibility and implementation of hospital based trauma registry for road traffic injuries at different levels of healthcare settings and its effect on quality of care
43. Follow-up study to evaluate correlation of imaging and operative findings with clinical and biochemical outcome in patients with primary hyperparathyroidism
44. ICG florescence imaging for identifying and assessing the perfusion of parathyroid gland during thyroid surgery
45. Impact of bariatric surgery in non alcoholic fatty liver disease and metabolic syndrome
46. Impact of bariatric surgery induced weight loss on cardiovascular disease risk reduction in morbid obese patients
47. Impact of clinical parameters, vascular hemodynamics on arterio-venous fistula maturation a prospective study from India
48. Impact of intra-operative determinants on early and mid term graft outcomes following live donor renal transplantations
49. Impact of intra-operative determinants on graft outcomes following live donor renal transplantations
50. Improving operative room performance in Laparoscopic Surgery of surgical residents via short term focused training—A quality improvement study
51. Indocyanine green fluorescence imaging for identifying and assessing the perfusion of parathyroid glands during Thyroid Surgery: A pilot study
52. Laparoscopic vs open CAPD insertion—A randomized trial
53. Management and Outcome of Mesh Laparostomy in patient with abdominal trauma at Level I Trauma Centre
54. Management of superficial lipoma by mesotherapy
55. Mesh fixation with mechanical fixation device versus fibrin sealant during laparoscopic repair of primary ventral hernia: A double blind randomized controlled study
56. Mesh fixation with penetrating fixation device versus fibrin sealent during laparoscopic repair of ventral hernia: A double blind randomized control trial
57. Multiple causative factors for the trauma injury and its geospatial distribution
58. Multiple causes of Road Traffic Accidents (RTA) and its geophysical distribution using geo information system
59. Omega loop gastric bypass versus Roux En Y gastric bypass for type 2 diabetes mellitus in obese subjects: A pilot randomized controlled trial
60. Optical characterization of breast cancer
61. Outcome correlation of initial arterial blood gas analysis in isolated thoracic injury

62. Outcome of early mesh laparoscopy in patient with abdominal trauma at Level I Trauma Centre
63. Pilot study to assess the role of minimal access surgery in treatment of superficial surgical infections
64. Post transplant diabetes mellitus—A prospective observational study
65. Prevalence of exposure to risk factors among Road Traffic Accident (RTA) victims arrived at Emergency Department of Level I Trauma Centre, New Delhi and its Geo Spatial Distribution
66. Primary versus Delayed Primary Closure in patients undergoing lower limb amputation following trauma: A randomized control study
67. Prospective randomized control trial comparing angle of his accentuation v/s toupet fundoplication as a anti reflux procedure in patients of achalasia cardia undergoing Heller's Cardiomyotomy
68. Prospective study to evaluate the role of protocol based management of chest tubes in patients undergoing elective thoracic surgeries
69. Randomized controlled trial to compare efficacy of decongestive compression therapy and injection Benzathine Penicillin G vs Decongestive Compression Therapy, Injection Benzathine Penicillin G and Placement of Hydrophobic Silicone tube in upper limb Lymphedema following ALND in breast cancer
70. Randomized controlled trial to compare efficacy of injection Benzathine Penicillin, upper limb exercise and care versus upper limb exercise and care only in prevention of upper limb Lymphedema following breast cancer surgery
71. Reconstruction of post traumatic facial defects using adipose tissue derived Mesenchymal stem cells seeded on 3D printed Hydroxyapatite Scaffold guided by CAD Models in Zygomatico-Orbito-Maxillary Complex Fractures
72. Role of PET scan in undiagnosed abdominal pain
73. Role of T-helper cells and neutrophils in the outcome of patients with chest trauma
74. Stent vs no stent in LRRT—A randomized trial
75. Stent vs no stent in ureteroneocystostomy in live related renal transplant: A prospective randomized controlled trial
76. Study effect of Bariatric Surgery induced weight loss on urinary incontinence
77. Study of short-term outcome of kidney grafts with multiple renal vessels, A clinical observational prospective and retrospective cohort study
78. Study the impact of Bariatric Surgery induced weight loss on cardiovascular disease risk reduction in morbid obese patients
79. Study the impact of Laparoscopic Mini Gastric Bypass on weight loss and co morbidities in morbidly obese patients undergoing Bariatric Surgery
80. Surgical outcomes in patients converted from minimally invasive surgery to open procedure
81. Surgical outcomes in patients in geriatric population
82. The feasibility and safety of the subxiphoid video assisted thymectomy for myasthenia gravis: A pilot study
83. Three arm randomized comparison of laparoscopic peritoneal dialysis catheter insertion with or without omentectomy versus conventional open peritoneal dialysis catheter insertion in chronic kidney disease stage 5 patients in-terms of catheter malfunction and post-operative complications
84. To establish algorithm for management of axilla in patient with clinically axillary lymph node negative early operable breast cancer
85. To monitor the functions of spleen after blunt splenic trauma
86. To study clinical and immunological parameters in predicting short term outcomes in polytrauma patients admitted to Trauma Surgery
87. To study effect of bariatric surgery induced weight loss on urinary incontinence
88. To study management, outcomes and quality of life in patients with pelvic fracture at Level I Trauma Center
89. To study splenic functions and complications following blunt splenic trauma at Level I Trauma Center
90. To study the correlation between clinical parameters and intra-abdominal pressure and their effect on the non operative management of patients with blunt trauma abdomen at Level I Trauma Centre
91. To study the effect of handgrip exercise on the outcome of arteriovenous fistula surgery, A randomized controlled trial
92. To study the effect of yoga on pulmonary functions, respiratory muscle strength and endurance, chest wall mobility, inflammatory markers and quality of life in blunt chest trauma patients and their correlation with thoracic trauma severity score at Level I Trauma Center
93. To study the impact of laparoscopic mini gastric bypass on weight loss, comorbidities and quality of life in obese patients undergoing bariatric surgery

94. To study the perioperative outcomes of laparoscopic and open splenectomy in patients with idiopathic thrombocytopenic purpura
95. To study the role of T helper-9, T helper-17, T helper-22, T-Regulatory lymphocytes in Post-Trauma Immunopathogenesis
96. Validation of different methods of physical examination for swelling in thyroid region and sonographic correlation: Cross sectional study
97. Variables the effect of 1 cm versus 2 cm resection margin and oncological closure of breast parenchymal defect on oncological and aesthetic outcome in ladies with early breast cancer: A 2x2 factorial randomized controlled trial

Completed

1. A randomized controlled study comparing efficacy, quality of life and cost effectiveness following ultrasound guided foam sclerotherapy in comparison to conventional surgery in varicose veins of lower limb
2. A randomized controlled trial to study the effect of Vitamin D and calcium supplementation on breast cancer recurrence and mortality
3. A randomized controlled, parallel group, non-inferiority trial to compare identification rates of fluorescein plus methylene blue versus technetium sulphur colloid plus methylene blue for detection of sentinel lymph node in ladies with operable breast cancer
4. A randomized study of patient satisfaction in surgical patients—A quality improvement study
5. A study of endothelial Nitric Oxide Synthase (eNOS), Nitric Oxide (NO), Cytokines, Vascular Endothelial Growth Factor (VEGF) in lower limb arterial disease and the alteration with the clinical outcome
6. A study of gut microbiome in patients with gallbladder cancer
7. A three arm randomized controlled study to compare sexual functions following open Mesh Hernioplasty, Laparoscopic Totally Extra Peritoneal (TEP) and Trans Abdominal Pre-Peritoneal (TAPP) repair of groin hernia
8. Ambispective cohort study to evaluate the oncologic and aesthetic outcomes of skin sparing mastectomy with implant
9. Comparison of Three-Dimensional (3D) endovision system versus Ultra-High Definition (HD) (4 K) endovision system in minimally invasive surgical procedures—An open labeled randomized study
10. Comparison of Two-Dimensional (2D) endovision system, Ultra-High Definition (HD) (4K) endovision system and Three-Dimensional (3D) HD endovision system on standardized phantom tasks: An ex-vivo study
11. Correlation of imaging and operative findings with long term clinical and biochemical outcome in patient with primary hyperparathyroidism
12. Day care thyroidectomy and bereft mutation in papillary carcinoma thyroid
13. Dosimetric Study in children and young adults with differentiated thyroid cancer undergoing Radioiodine (¹³¹I-Na) therapy
14. Efficacy of intravenous fluorescein in carcinoma breast to assess axillary metastasis in post chemotherapy patients: A novel approach
15. Ergonomic analysis of muscle activity during laparoscopy and influence of training
16. Evaluation of impact of Laparoscopic Omega Loop Gastric Bypass (Mini Gastric Bypass) on Weight Loss, Comorbidities and Quality of Life in Super Obese
17. Evaluation of prognostic significance of IL-10 expression in breast cancer tissue and circulating microRNA 106a in patients with breast cancer
18. Evaluation of the role of radical radiotherapy in achieving pathological complete remission in breast cancer patients with complete clinical remission following Neo Adjuvant Chemotherapy: A superiority randomized controlled trial
19. Follow up Study to evaluate correlation of imaging and operative findings with clinical and biochemical outcome in patients with Primary Hyperparathyroidism
20. ICG fluorescence imaging for identifying and assessing the perfusion of parathyroid gland during thyroid surgery
21. Improving operative room performance in Laparoscopic Surgery of surgical residents via short term focused training—A quality improvement study
22. Laparoscopic ultrasound in intra-abdominal pathology—A prospective study
23. Mesh fixation with penetrating fixation device versus fibrin sealant during laparoscopic repair of ventral hernia: A double blind randomized control trial
24. Molecular classification of breast cancer using FES PET CT, FDG PET CT and IHC: A pilot study

25. Pilot study in role of minimally invasive abscess drainage in superficial abscesses including breast abscess and perineal abscess
26. Stent vs no stent in ureteroneocystostomy in live related renal transplant: A prospective randomized controlled trial
27. Study of short-term outcomes of kidney grafts with multiple renal vessels, A Clinical Observational Prospective and Retrospective Study
28. Surgical and neurological outcomes following minimally invasive thymectomy in myasthenia gravis patients
29. Surgical outcome of patients with pulmonary aspergilloma—An observational study
30. The effect of 1cm versus 2 cm resection margin and oncoplastic closure of breast parenchymal defect on aesthetic outcome, and quality adjusted life years in ladies with early breast cancer, A randomized controlled trial
31. Three arm randomized comparison of laparoscopic peritoneal dialysis catheter insertion with or without omentectomy versus conventional open peritoneal dialysis catheter insertion in chronic kidney disease stage 5 patients in terms of catheter malfunction and post-operative complications
32. To study cytokines (IL-1 β , IL-6, IL-8, IL-10 and TNF- α) and biomarkers (vWF and CC-16) in patients with chest trauma and their correlation with thoracic trauma severity score and patient's outcome
33. Use of FES-PET for breast cancer receptor imaging detecting metastasis and predicting response to antihormonal therapy

Collaborative projects

Ongoing

1. Elucidating the link between NUPRI and colorectal cancer stem cells, Biochemistry and Surgical Oncology
2. Isolation, identification and characterization of cancer stem cells from different histopathological grades of colorectal carcinoma, Biochemistry, Physiology, Gastrointestinal Surgery and Pathology
3. Development and validation of an electronic surveillance system for surgical site infections developing during hospital stay and after discharge: A multicenter study, Lab Medicine
4. Capacity building and strengthening of hospital infection control to detect and prevent antimicrobial resistance in India, Lab Medicine
5. Controlled clinical trial to assess the effectiveness of topical application of C1 herbal oil on superficial external wound and split thickness skin graft donor, Plastic Surgery
6. Cleft Lip and Palate anomaly in India: Clinical profile, risk factors and current status of treatment: A hospital based study, Main Phase Project, CDER
7. Studies on synuclein in various pathological conditions, Biophysics, Ocular Pharmacology, Biotechnology
8. A prospective cohort study to measure the effectiveness of NISWANI in achieving regression of Fibroadenoma and Mastalgia, National Institute of Cancer Prevention and Research

PUBLICATIONS

Journals: 49

Abstracts: 5

Chapters in Books: 2

PATIENT CARE

The department is providing regular services in multiple fields including multimodality treatment for breast cancer patients, minimally invasive surgery, renal transplantation, hepatobiliary and pancreatic surgery, thoracic and thoracoscopic surgery, plastic and reconstructive surgery, endocrine surgery, metabolic and bariatric surgery, vascular surgery including surgery for vascular access in end stage renal disease patients and cancer surgery. The department runs the following special clinic besides regular OPD:

- Professor in-Charge, BCC (Breast Cancer Clinic) held on every Saturday at 9:00 AM, which includes follow up of old cases, chemotherapy, and registration of new cases
- Follow up clinic held on every Friday at 2.00 PM
- Chest clinic held on every Wednesday at 2.00 PM

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor Anurag Srivastava participated as faculty in the Workshop on 4th Evidence Based Medicine Workshop (EBMW)-2018 at Clinical Epidemiology Unit, AIIMS, New Delhi, 28 February and 1 March 2018; Faculty at 2nd National Conclave on Virtual Teaching, AIIMS, New Delhi on 8-9 February 2018; Delivered Dr Arun Banerjee Memorial Oration during the 62nd Foundation Day Programme at Institute of Post Graduate Medical Education and Research, Kolkata, 16 January 2018; Participated in Workshop on Research Ethics and Good Clinical Practice at National Institute of Cancer Prevention and

Research (NICPR), Noida, 9 January 2018; Certificate for AIIMS Cadaveric Surgical Skills Training held at J.P. Narayan Apex Trauma Centre, AIIMS, New Delhi; Participated as Faculty at Annual Conference of Delhi State Chapter of ASI, Lady Hardinge Medical College, New Delhi, 10-12 November 2017; Awarded by National Institute of Cancer Prevention and Research on “Hands-on Training on Breast Cancer Awareness” at Noida on 17 October 2017; Participated at 18th Annual Conference of the Indian Association of Endocrine Surgeons, 13-14 October 2017, Puri, Odisha; Certificate for International Conference on ‘Yoga for Wellness’ at Pravasi Bhartiya Kendra, Ministry of Ayush, Government of India, New Delhi on 10-11 October 2017; Participated in CME of UPSURGE 2017: Making of a General Surgeon: Medical School and Beyond, Christian Medical College, Vellore, 26 August 2017; Certificate for outstanding contribution during the free Eye and Cancer Inspection, Awareness and Testing Camp on 13 August 2017; Chaired session in the IOM Health Research Workshop 2017 of Research Department, Institute of Medicine in Kathmandu, Nepal on 31 May and 1 June 2017; Member, Statutory Body of Aligarh Muslim University, Staff Selection Committee, Project Review Committee of ICMR; Life Membership of AACR; Member, Virtual Teaching Society.

Professor Sunil Chumber: AIIMS, Jodhpur—Final MBBS Examination in Surgery, December 2017; AIIMS, Jodhpur—Final MBBS Examination (Supplementary) in Surgery, February 2018; Subharti Vivekanand University, Meerut—Final MBBS Examination (Supplementary) in Surgery, May 2017; Interviews Boards attended the UPSC Selections to interview candidates for GDMO for various institutions, November-December 2017.

Professor Rajinder Parshad was Central Zone Executive Member of AMASI for the period of 2016-2018; Participated as a delegate in International Conference and Live Workshop on Robotic Surgery from 28-30 July 2017 at Coimbatore; Chaired a session in AIIMS Radiology Course: Interstitial Lung Diseases held at AIIMS, New Delhi on 5 and 6 August 2017; Chaired a session in Surgery Update 2017 on 29 September 2017 at Maulana Azad Medical College, New Delhi; Chaired a session in CPLD 2017 on 8 October 2017 at AIIMS, New Delhi; Chaired a session in Cadaver Course-Workshop and International Conference on Peritoneal Surface Malignancies held on 3-4 March 2018 at New Delhi; Participated in MASCON-2018 on 11 March 2018 at AIIMS, Rishikesh; Chairperson in CPLD-2017 on 8 October 2017 at AIIMS, New Delhi; Central Zone Executive Member of AMASI for 2016-2018; Member of Association of Surgeons of India, Member of Indian Association of Gastrointestinal Surgeons, Member of Liver Group, Member of Indian Breast Group, Member of Delhi State Chapter of ASI, Member of Indian Medical Association, Member of IAGES, Fellow and Life Member of Association of UICC, Member of Indian Association of Surgical Oncology; Consultant Editor of JK Science—Journal of Medical Education and Research; Life Member of AMASI; Member of SAGES, Member of OSSSI, Member of Asia Pacific Hernia Society, Member of AIIMSONIANS; Elected as Vice President, SELSI during the GBM of the society at Jaipur, September 2017; Nominated as Honorary Vice President (North Zone) during the General Body Meeting of Indian Hernia Society for 2018.

Professor Sandeep Aggarwal organized the First National Postgraduate CME on Bariatric Surgery on 1 and 2 December 2017 held at AIIMS which focused on postgraduate students to fill the gap in medical curriculum.

Professor V.K. Bansal organized (i) Operative Laparoscopy (5-day course)—12 courses; (ii) Laparoscopic Suturing Skills (3-day course)—2 courses; (iii) Laparoscopic Hernia Surgery (3-day course)—7 courses; (iv) Cadaver Course for General Surgeons (3-day course)—2 courses; Organized a Guest lecture on “Deceased Organ Donation” by Professor IK Dhawan, Ex HOD Department of Surgical Disciplines and Dr Deepak Mital, Director Kidney Transplant Program, Advocate Christ Medical Center, Chicago, USA on 20 November 2017 at 2.00 PM at Dean’s Committee Room, AIIMS, New Delhi; Organized a meeting “SELSI consensus Guidelines for Safe Cholecystectomy (Prevention and Management of Bile Duct Injury) conference at AIIMS, New Delhi on 16 December 2017; Chaired a session of live operative demonstration by foreign faculty, PSGCON 2017, 24-26 June 2017, Coimbatore, Tamil Nadu; Chaired a session on “Operative Surgery wherein advanced laparoscopic hepatobiliary surgery”, PSG SURGICON-2017, 24-26 June 2017, Coimbatore, Tamil Nadu; Chaired the Session “Indian Hernia Society on History of Laparoscopic Surgery in India”, Annual meeting of IHSCON 2017, 5-6 August, 2017, Kochi, Kerala; Chaired the Two Sessions “Indian Hernia Society Presidential Oration” and “Abdominal Wall closure”, Annual meeting of IHSCON 2017, 5-6 August 2017, Kochi, Kerala; Chaired the session: “Key-Questions”, In which patient group is a component separation indicated? Should the component separation be done open or endoscopically? Is an anterior component separation better than the posterior one during International Endohernia Society (IEHS) Meeting, Guidelines meeting of International Endohernia Society (IEHS) on Incisional Hernias, 13 and 14 October 2017, Beijing, China; Elected as Vice President, SELSI during the GBM of the society at Jaipur, September 2017; Nominated as Honorary Vice President (North Zone) during the General Body Meeting of Indian Hernia Society for 2018.

Professor Anita Dhar: Complete spectrum of peripheral vascular disease management are available covering arterial, venous and lymphatic diseases. Established a vascular lab with facilities for checking ABI, TcPo₂, Supervised Exercise Therapy on Treadmill, compression bandaging for all venous and lymphatic disease patients. Community services/camps: Group and individual teaching for management of the lymphedema viz. a viz skin care irradiation of fungal infection, manual lymphatic drainage and compression bandaging (self learning). Raising awareness in community regarding peripheral arterial disease and how smoking especially BIDI smoking is an important risk factor.

Professor Sushma Sagar was nominated member from AIIMS to attend Managing Disabilities: Role of assistive technologies organized by ICMR supported by WHO titled Stakeholder's Consultative workshop on 14-15 December 2017, Parwasi Bhartiya Kala Kendra Delhi; Invited to visit ALC (Artificial Limb Center) Pune to upgrade the amputation rehabilitation for Trauma patients at JPNATC; Appeared on FM Rainbow on live air show titled Road Safety for All on 19 December 2017 and 27 March 2018; Appeared on Doordarshan for panel discussion on Safety on Deepawali festival; ICMR Grant to 3 students to visit various places and present papers.

Professor Amit Gupta was Member Expert Committee for Faculty Selection: AIIMS Bhubaneswar; Member Expert Committee for Faculty Selection: AIIMS Bhopal; Member Expert Committee for Faculty Selection: Institute of Medical Sciences, Banaras Hindu University; Member, Committee for Developing Audio-Visuals under the IEC activities of 'National Programme for Trauma Care', MoHFW, Government of India, 2017 till date; Member, Committee for Purchase of First Responder Vehicles to improve the emergency response service in Delhi, Government of NCT Delhi; Member, Medical Board for Medical/Psychological Examination at AIIMS for Antarctic Expedition Team, 2016 till date; Member, Committee on Hindi Rajbhasha at Jai Prakash Narayan Apex Trauma Centre, AIIMS, New Delhi, 2016 till date; Member, Technical Committee to revise the "Protective Helmets for Two Wheeler Riders-Specification" (IS 4151:2015) to develop acceptable Helmet design for India, MoRTH, Government of India, 2016 till date; Member, (RTAG-RTS) Regional Technical Advisory Group on Road Traffic Safety, WHO South East Asian Region Office, 2015 onwards; Member, Technical Sub-Committee for developing National Trauma System Plan, Directorate General of Health Services, MoHFW, Government of India, 2014 till date; Regular Member, H-1 Committee: Transport Planning, Traffic Engineering of the Indian Roads Congress, 2015 till date; Spokesperson, All India Institute of Medical Sciences, (Till December 2017); Additional Medical Superintendent, JPN Apex Trauma Centre, AIIMS (February-June 2017); Faculty in Charge, Sanitation, JPNATC, AIIMS; Member Secretary, Engineering Advisory Committee, AIIMS (Till March 2018); Member, Committee for Institute Intra-mural Grant, Research Section, AIIMS; Member Secretary, Horticulture Committee, AIIMS (Till March 2018); Chairman, Store Purchase Committee, JPNATC, AIIMS (till June 2017); Co-Chairman, Committee to Oversee the Phase II construction of JPNATC, AIIMS (Till June 2017); Faculty in Charge, Trauma Registry, Trauma Nurse Co-ordinator System and Quality Improvement, JPNATC, AIIMS (Till September 2017).

Professor Subodh Kumar received AIIMS Excellence Research Award in Clinical Research Category for the paper by Parajuli P, Kumar S, Gupta A, et al entitled Role of Laparoscopy in Patients with Abdominal Trauma at Level I Trauma Center published in Surg Laparosc Endosc Percutan Tech 2018;28:20-25; Awarded Dr H. Lal Mohan Singh Oration on "Comprehensive management of Blunt abdominal and pelvic Trauma" by the Association of Surgeons of India Manipur Chapter during ASIMANICON held in October 2017; Awarded the prestigious membership of National Academy of Medical Sciences from 27-28 October 2017 at Amritsar; Member of Advisory Committee for the setting up of JIPMER Institute of Trauma Care and Rehabilitation; External expert for Standing Selection Committee of All India of Medical Sciences, Rishikesh, 2017.

Professor Biplab Mishra successfully completed 'Inner Awakening' course from Nithyananda University, Bengaluru. Been part of two Guinness World Records, The largest Kundalini Riju Class, The largest Shivstamba Yoga class.

Dr Hemanga K. Bhattacharjee received the prestigious International Surgical Education Scholars Award of the American College of Surgeons (ACS) for year 2017; Awarded the Fellow of American College of Surgeons (FACS) title in American College of Surgeons Clinical Congress, San Diego, USA; Received the Certificate for AIIMS Excellence Research Award 2017 on the occasion of 62nd AIIMS Foundation Day; As a part of the American College of Surgeons International Surgical Education Scholarship, visited the Department of Surgery, University of Southern California, Los Angeles, USA and the Department of Surgery, UC San Diego Health, San Diego, USA from 1 October-6 November 2018 as an observer; Participated in the Emergency Medicine and Disaster Training Program in the Department of Traumatology and Critical Care Medicine, Osaka City University Graduate School of Medicine, Japan from 1-5 September 2017; Have initiated a collaboration for research and development of low cost affordable devices for minimal invasive surgery between AIIMS and the Centre for Next Generation Endoscopic Intervention, Osaka University, Japan. As a part of this collaboration, I have conducted a cadaver workshop to test the feasibility of newly developed prototypes on 17-18 November 2017. During the workshop, both the Indian and Japanese surgeons participated.

Dr Piyush Ranjan was awarded FACS-Fellow of American College of Surgeons; Travel grant to attend ESMO Preceptorship on Breast Cancer (Singapore), 20-21 November 2017; UGC travel grant to present during EAES (European Association of Endoscopic Surgery) at Frankfurt, Germany; Guest doctor, University Hospital, Tübingen, Germany; Attended sample size calculation CMC, Vellore; Joint organizing secretary, Asian Society of Mastology ASOMAcon; Reviewer Initial Screening Committee, Technology Development Board TDP; Conducted AIIMS BUS (Basic Ultrasound for Surgeons) during ASICON 2018 at Jaipur; Editorial Board, Scifed journal; Participated in breast cancer screening camp during IITF, Pragati Maidan; Developed first responder training curriculum, Master Trainer for Training of trainers of seventeen states; Conducted FR courses in thirteen states and trained around three thousand lay persons; Trained trainers from states in

NCD Multi-disease Screening, Screening for Breast, Cervical and Oral Cancer; Cancer awareness activities with Cancer Sahyog and RAK College of Nursing.

Dr Manjunath Maruti Pol was organizing co-secretary of BARIME, December 2017; Contemporary Practices in Thoracic Surgery, January 2018; Consensus meeting “SELSI guidelines for Cholecystectomy”, December 2017; Organized suturing course for undergraduates, April 2017.

Dr Mohit Joshi was appointed as expert for reviewing projects submitted to ICMR for funding; Participated in Advance Trauma Operative Management (ATOM) Course, 7 November 2017, RA Cowley Shock Trauma Centre, University of Maryland, Baltimore (USA).

Dr Kamal Kataria: Suturing workshop for undergraduate and postgraduate on dated 31 March 2018; Postgraduate assessment in dated 1 April 2018.

Dr Suhani: Midterm CME Delhi State Chapter of ASI, BARIME 2017, organized by AIIMS, New Delhi; Consensus Meet “SELSI Guidelines for Safe Cholecystectomy”, Prevention and Management of Bile Duct Injury held at AIIMS, New Delhi; ASI Refresher Course and FAIS Credentialing Course, RMLH, Delhi; SURGICON 2017, held at LHMC, New Delhi; Asian Society of Endocrine Surgery, 16th Biennial Conference, held at New Delhi and organized by SGPGI Lucknow, 8-10 March 2018; New horizons in Minimally Invasive Surgery, organized by SGRH, New Delhi, 1 March 2018; Symposium on Thoracic Surgery 2018, 19-21 January 2018; Fellowship of American College of Surgery; Fellowship of International College of Surgery; Membership of American Society of Breast Surgeons; Organizing secretary: Contemporary practices in Surgery: Symposium on Thoracic Surgery 2018; Mid-term CME Delhi State Chapter of ASI with PG Master Class, 25 June 2017; SURGICON 2017, 10-12 November 2017, LHMC, New Delhi; New horizons in Minimally Invasive Surgery, 1 March 2018, SGRH, Delhi.

Dr Yashwant S. Rathore was part of organizing committee in BARIME December 2017; Contemporary Practices in Thoracic Surgery, January 2018; FIAGES fellowship, October 2017.

Dr Dinesh Kumar Bagaria completed ATLS provider course; Participated in AIIMS- MAWE Course as faculty on 25 November 2017; Participated in AIIMS-MAWE Course as faculty on 23 March 2018; Participated in 2nd AIIMS Cadaveric Thoracic Surgery Workshop as faculty on 27 March 2018.

Dr Pratyusha Priyadarshini completed ATLS provider course; Participated in AIIMS-MAWE course as faculty on 25 November 2017; Participated in AIIMS- MAWE course as faculty on 23 March 2018; Participated in 2nd AIIMS Cadaveric Thoracic Surgery Workshop as faculty on 27 March 2018.

Dr Narendra Chaudhary completed short term training in ATLS Provider Course; Participated in AIIMS- MAWE Course as faculty on 25 November 2017; Participated in AIIMS-MAWE Course as faculty on 23 March 2018.

Dr Abhinav Kumar completed short term training in ATLS Provider Course; Participated in AIIMS-MAWE Course as faculty on 25 November 2017; Participated in AIIMS-MAWE Course as faculty on 23 March 2018; Participated in 2nd AIIMS Cadaveric Thoracic Surgery Course as faculty on 27 March 2018.

VISITING SCIENTISTS

Name	Institutional Affiliation	City	Country of Person visiting
Shashi Bhushan Sahu	Fellow Army	Delhi	India
Noda	Surgery Fellow	Osaka	Japan
Nakajima Kiyokaju	Conducting Operative Workshop	Osaka	Japan

9.40. Transfusion Medicine and Blood Bank

Professor and Head

D.K. Sharma

Chief Medical Officer, In charge

Poonam Coshic

Assistant Professors

Hem Ch. Pandey (Main Blood Bank)

Gopal Patidar (CN Centre Blood Bank)

Rahul Chaurasia (JPNATC Blood Bank)

HIGHLIGHTS

The department is committed to patient care and blood safety and works tirelessly to achieve this aim. The MD Transfusion Medicine was started in 2017 with first student joining in January 2017. Presently we have six students pursuing MD.

Efforts had been initiated to boost the voluntary blood donation and the same increased from 38.5% in 2016 to 68.4% in 2017. In the first two months of 2018, it has been 76.7%. Donor education, motivation and recruitment are being strengthened in rural areas which have added to the voluntary donation.

Blood safety is an ongoing effort and we have been successful in starting testing by ECI which is more sensitive test for screening of all collected units using fourth generation tests for HIV and third generation for HCV. For additional layer of safety ID-NAT test is being done on all collected units and from February this year more sensitive and specific test Ultrio Elite has been started. **NAT laboratory of Main Blood Bank is the central testing facility for infectious markers for CNC blood bank and JPNATC blood bank.**

Testing facility of antibody screening using extended panel has been extended to emergency patients also. Antibody identification in patients having irregular antibodies is now being done regularly as a routine procedure.

Blood bank is supporting ABO incompatible kidney transplants by performing plasmapheresis procedures and antibody titer testing for the patients.

EDUCATION

1. CMET course on “Good Transfusion Practices” for training of residents and nursing staff.
2. MD transfusion medicine has been started and presently six students are pursuing this program me.
3. Teaching of postgraduate students from Department of Pathology, Laboratory Medicine and Hematology is being done during their posting.

CMEs/Workshops/Symposia/National and International Conferences

1. Pre-conference Workshop on “Quality Assurance and Immunohematology” on 2 November 2017 at Lucknow, Uttar Pradesh
2. Workshop on “Rational use of blood” for clinicians on 23-24 February 2018 at Pasighat Arunachala Pradesh
3. CME workshop on “Therapeutic Plasma Exchange” in “Introduction of Pediatric Transfusion Medicine” on 6 August 2017 at SSPH and PGTI, Noida

Lectures delivered

Hem Chandra Pandey

1. Pre-transfusion testing and compatibility issues, “Training of Trainers for Strengthening of Blood Services and e-RaktKosh” for Medical Officers and Technical Personnel from blood banks of the states of Mizoram and Manipur, 26 July 2017, Noida
2. Pre-transfusion testing and compatibility issues, “Training of Trainers for Strengthening of Blood Services and e-RaktKosh” for Medical Officers and Technical Personnel from blood banks of the states of Uttar Pradesh, 20 September 2017, Noida
3. Pre-transfusion testing and compatibility issues, “Training of Trainers for Strengthening of Blood Services and e-RaktKosh” for Medical Officers and Technical Personnel from blood banks of the states of Uttar Pradesh, 11 October 2017, Noida
4. Quality aspects in immunohematology lab, Pre-conference workshop on “Quality assurance and Immunohematology, 2 November 2017, Lucknow

5. Case studies related to enzyme treatment in immunohematology, Pre-conference workshop on “Quality assurance and Immunohematology”, 2 November 2017, Lucknow
6. Pre-transfusion testing and compatibility issues, “Training of Trainers for Strengthening of Blood Services and e-RaktKosh” for Medical Officers and Technical Personnel from blood banks of the states of Arunachal Pradesh, 10 January 2018, Noida
7. Clinical features and management of transfusion reactions, CME on Hemovigilance Programme of India, 11 January 2018, Delhi
8. Pre-transfusion testing and compatibility issues, “Training of Trainers for Strengthening of Blood Services and e-RaktKosh” for Medical Officers and Technical Personnel from Blood Banks of the States of Bihar, 8 March 2018, Noida

Rahul Chaurasia

1. Massive transfusion in trauma patients: Experience at an urban Level I Trauma Centre, TRANSMEDCON 2017, 5 November 2017, Lucknow
2. Transfusion support in massive hemorrhage, Beyond Blood Banking: Advances in Transfusion Medicine, 24 February 2018, Jodhpur

Oral papers/posters presented

1. Patidar GK, Hazarika A, Khan AK. Management of blood products for heart transplant recipients in a tertiary care hospital, Transmedcon 2017, 3-5 November 2017, Lucknow
2. Khan AK, Patidar GK, Hazarika A. Donor notification: Improve response by new method of notification, Transmedcon 2017, 3-5 November 2017, Lucknow
3. Krishna A, Pandey HC, Thapaliyal RM, Coshic P, Vineet. Retrospective analysis of the pattern of alloimmunization among antenatal cases in a tertiary centre, Transmedcon 2017, 3-5 November 2017, Lucknow

RESEARCH

Collaborative projects

Ongoing

1. Complement Factor H (CFH)-Related Protein 1 (CFHR1) and its role in maintenance of immunological tolerance, Hematology AIIMS and RCB Faridabad
2. To characterize humoral and cell mediated immune memory in anonymous healthy blood bank donors and to assess whether the cell mediated immune memory strictly co-exists with humoral immune memory, Paediatrics

Departmental projects

Ongoing

1. Prospective observational study to analyze red blood cell usage pattern and factors affecting the usage in elective surgical procedures
2. Prospective observational study to analyze incidence of different errors in analytical stage of transfusion chain
3. The outcome of leukoreduced and non-leukoreduced blood component transfusion in patients undergoing cardiac surgery
4. Prospective observational study of transfusion practices in patients presenting with hemorrhagic shock at emergency department in Level I Trauma Center

PUBLICATIONS

Journals: 2

PATIENT CARE

Facilities available in the department (including special laboratory facilities):

- Autologous blood donation
- Autologous platelet donation
- Voluntary blood donation camp facility
- Apheresis procedures (SDP, TPE, PBSC)
- Automated blood grouping and serology
- Automated infectious markers testing
- ID-NAT testing of all donated units of three blood banks of AIIMS
- 100% blood component preparation
- Irregular antibody identification
- Antibody screening
- Antibody titers
- Leucodepleted blood/components
- Irradiation facility

Community services/camps etc.:

- Main blood bank organized total 86 voluntary donation camps in Delhi NCR and collected over 6300 units
- Carrying out motivational and educative programme for donors in rural areas in association with CHC Ballabgarh
- Main blood bank is to become mother blood bank for storage centre of CHC Ballabgarh, in process.

9.41. Transplant Immunology and Immunogenetics

	Professor and Head D.K. Mitra	
	Assistant Professors	
Uma Kanga	Rakesh Kumar	Deepak
	Scientist II	
Sunil Kumar		Lata Kumari
	Scientist I	
Sanjeev Goswami	Gaurav Sharma	Sonia Verma

EDUCATION

During the year 2017-2018, our department trained 23 students/doctors from various hospitals and institutions from India and abroad. These candidates received training on laboratory techniques in Transplant Immunology, Immunogenetics-HLA testing, post transplant monitoring and other immunological investigations for immune deficiency.

Short-term training-AIIMS (1-2 weeks): The department provided short term training to the Junior residents from Pathology (3), Laboratory Medicine (3) and Senior Residents (DM Students) of Nephrology (1), Hematology (6), Biochemistry (3), Medical Oncology (3) from AIIMS.

Short-term training-National (3 months): Two candidates received short term training. One candidate was sponsored by the Indian Academy of Sciences under the Science Academies' 'Summer Research Fellowship Program' (Supervisor-Dr Kanga).

Short-term training International (3 months): One candidate, Lt Col from Armed Forces Medical Services, Bangladesh.

Long Term Training-National (6 months): One faculty member from Rohtak Medical College.

Continuing Medical Education (CME)

During the year, the faculty and scientists of the department participated and delivered several lectures in national and international conferences. Our department regularly provides training on various cell culture assays, including flowcytometry based assays to students and visiting trainees our department coordinates a national level quality control exercise for DNA based typing of HLA genes for assessment of quality of testing by other HLA laboratories in India. The faculty also delivered special lectures in Departments of Biotechnology and Pathology, AIIMS as part of the academic curriculum of these departments. Faculty/Scientists delivered lectures to MD/DM residents from Pediatrics, Hematology, Anatomy, Nephrology, Biochemistry, Medical Oncology, Pathology and Laboratory Medicine. Several lectures on Transplant Immunology were also delivered to nursing students of the institute.

Lectures delivered

D.K. Mitra

1. Host T cell response of Visceral Leishmaniasis patients, 27th National Congress of Parasitology to be held at National Institute of Mental Health and Neurosciences (NIMHANS), 25-27 April 2017, NIMHANS, Bengaluru
2. T-regulatory cells in infections, CME in Immunology, 11-12 September 2017, PGI, Chandigarh
3. Inhibiting PD-1 pathway rescues poly-functional T Cells in tuberculosis: Impact on bacillary containment, Meeting for Joint Collaborative Program, 6 February 2018, IIT, Kharagpur
4. Rescuing protective T Cell response against *Mycobacterium tuberculosis* with pure compound derived from *Agave americana*, 18th International Congress of International Society for Ethnopharmacology (ISE) and the

5th International Congress of the Society for Ethnopharmacology (SFE), India (ISE-SFEC 2018), 13-15 January 2018, Dhaka, Bangladesh

5. Impact of PD-1 in rescuing protective poly-functional T Cells in Tuberculosis, The 10th Asian Federation of Biotechnology Regional Symposium (ARS) 2018, 27-29 January 2018, University of Dhaka, Bangladesh
6. Rescuing poly-functional T Cells in tuberculosis: pd-1 pathway and immunotherapy, IMMUNOPHARMACOLOGY—VACCIPHARMA 2017, 25-29 June 2017, Varadero Beach, Cuba
7. Role of TNF-alpha in tuberculosis and rheumatoid arthritis, University of California, Davis, 30 June-8 July 2017, California, USA
8. Challenges of MDR/XDR Tuberculosis: Rescued immunity as adjunct therapy, Meeting of International Network Program for Exchange Medical Education and Research Bogomolets, National Medical University, 2-6 August 2017, Ukraine

Uma Kanga

1. Major Histocompatibility Complex, Seminar Series Department of Genetics, South Campus, 24 April 2017, New Delhi
2. Emerging trends in HLA and its clinical applications, HLA Conclave, 25-26 September 2017, CMC, Vellore
3. Emerging technologies in transplant immunology and immunogenetics: Updates on HLA typing, Cross Matching and Antibody Screening, Transplant Immunology Workshop at 28th Annual Conference of Indian Society of Organ Transplantation, 11 October 2017, Indore, MP
4. Multidisciplinary approach to renal transplant cases, 28th Annual Conference of Indian Society of Organ Transplantation, 12-15 October 2017, Indore, MP
5. Emerging concepts: Assays for donor selection and molecular monitoring for allogeneic HSCT, Annual Conference of Indian Society of Hematology and Blood Transfusion, 2-5 November 2017, Guwahati, Assam
6. Immunological assessment to predict transplant outcome: Clinical relevance of non-classical HLA and non-HLA genes, 44th Annual Conference of Indian Immunology Society, Immunocon 2017, 14-16 December 2017, Ahmedabad, Gujarat
7. Uniqueness of HLA profiles of Indian population, CME on 'Finding the Right Match', 9 February 2018, Mumbai, Maharashtra
8. Immunomodulatory role of HLA-G in hematopoietic stem cell transplantation outcome: 3 'UTR polymorphism and soluble levels, 15th Transplantation Science Symposium, 24-26 May 2017, Victoria, BC, Canada
9. HLA-G expression variability as indicator for renal transplantation outcome, 31st European Immunogenetics and Histocompatibility Conference and 25th DGI Joint Meeting, 30 May-2 June 2017, Mannheim/Heidelberg, Germany
10. Renal replacement therapy: Variability in HLA-G expression as an outcome indicator, 17th International HLA and Immunogenetics Workshop and 43rd Annual Meeting of ASHI, 6-15 September 2017, Asilomar/San Francisco, USA
11. HLA diversity in Select Indian Population, Molecular Life Sciences and Human Genetics Seminar, 27 March 2017, Isehara, Japan

Sunil Kumar

1. Minor histocompatibility antigens: Current perspectives in hematopoietic stem cell transplantation, The World Cancer Congress, 20-22 September 2017, Science City Auditorium, Kolkata

Sanjeev Goswami

1. Case presentations, "Laboratory and Clinic Interactions for Management of Transplant Recipients", ISOT-2017, 12 October 2017, Indore, MP

Gaurav Sharma

1. Host genetic influence on HIV infection in North Indians, Conference of Young Scientists "Infectious Diseases: Biology to Intervention Strategies", 7-9 September 2017, JNC SAR, Bengaluru
2. HLA Expression and immunogenetic correlates of HIV infection, Molecular Life Sciences and Human Genetics Seminar, 27 March 2017, Isehara, Japan

Sonia Verma

1. Understanding diet-gene interactions that regulate organismal longevity, The 2nd Indian *C. elegans* Meeting, 2017, 23-26 February 2017, National Institute of Immunology, New Delhi

RESEARCH

Funded projects

Ongoing

1. Impact of host T cell response on expression and function of drug efflux pumps: Relevance to drug resistant TB, D.K. Mitra, ICMR, 3.5 years, 2014-2018, Rs 78.5 lakhs
2. Multivalent Leishmania vaccine development, D.K. Mitra, BIRAC DBT, 3 years, 2015-2018, Rs 397.57 lakhs
3. Functionalization and validation of a cloud based Integrated Medical Device (IMD): Delivery of specialized diagnostic, therapeutic and follow up care to the remote underserved population, D.K. Mitra, Azure Software Pvt Ltd, 3 years, 2017-2020, Rs 16.44 lakhs
4. Development of a remote healthcare delivery system: Early diagnosis, therapy, follow-up and preventive care for NCDs (cardio-pulmonary), D.K. Mitra, IMPRINT (HRD+ICMR), 3 years, 2017-2018, Rs 64.85 lakhs
5. NKT cell subsets: Impact on Mycobacterium tuberculosis specific effectors T cell responses, D.K. Mitra, ICMR, 3 years, 2017-2020, Rs 70.26 lakhs
6. In Silico Trial for Tuberculosis Vaccine Development (STriTuVaD) European Commission Horizon 20 20, D.K. Mitra, DBT, 5 years, 2018-2023, Rs 500 lakhs
7. Genome wide transcription analyses in DR Mtb: Identification and Immunomodulation of novel targets, D.K. Mitra, DBT, 3 years, 2018-2021, Rs 148 lakhs
8. Studies to delineate the Immunoregulatory role of PD-L1/PD-1 pathway and exploring it as a potential tool for vaccination strategies against Visceral Leishmaniasis, D.K. Mitra, DST, 3 years, 2018-2021, Rs 70 lakhs
9. NKT cell subsets: Impact on Mycobacterium tuberculosis specific effectors T cell responses, D.K. Mitra, DBT, 3 years, 2018-2021, Rs 70 lakhs
10. Killer Immunoglobulin Receptor-Human Leukocyte Antigen (KIR-HLA) interactions: Significance in Hematopoietic Stem Cell Transplantation, Uma Kanga, AIIMS, 2 years, 2017-2019, Rs 4 lakhs for year 1
11. Inphase polymorphism analysis of the HLA minigenome and its application of next generation sequencing (Japanese Society for Promotion of Science), Uma Kanga, DST-JSPS Indo-Japanese, 2 years, 2016-2018, Rs 6.8 lakhs
12. Genomic analysis of HLA and non HLA genes and humoral profile of Type 1 Diabetes Mellitus in the population of North East India, Uma Kanga, DBT (BCIL), 3 years, 2017-2020, Rs 127.8 lakhs
13. Influence of HLA and KIR genes on Chikungunya infection in North Indian population, Gaurav Sharma, AIIMS, 2 years, 2017-2019, Rs 4 lakhs

Completed

1. Clinical relevance of HLA-E and MHC class I chain related gene (MICA) in Hematopoietic Stem Cell Transplantation, Uma Kanga, AIIMS, 2 years, 2015-2017, Rs 8 lakhs

Departmental projects

Ongoing

1. Studies on Immunoregulatory mechanisms for host T cell response in human tuberculosis
2. Phenotypic and functional characterization of various T cell subsets in sarcoidosis
3. NKT Cells in Tuberculosis: Impact on Protective T cell response
4. Impact of checkpoint inhibitors on suppressed state of immunity in *tuberculosis*
5. Chronic atherosclerosis disease: Integrated analysis of stage-specific alterations in gene expression and miRNA profile of atherosclerotic plaques and correlation with plasma-derived extracellular vesicles in circulation
6. A study on genetic profile of chronic ITP patients in North Indian Tertiary care Centre
7. Clinical relevance of non-classical HLA, MICA and NKG2 receptors in HSCT
8. Identification of microRNA signature linked to AA and response to immunosuppressive therapy
9. Assessment of non-classical HLA and other biomarkers for rejection following renal transplantation
10. HLA association with Aplastic Anemia: Disease susceptibility and response to therapy
11. Genomic diversity of HLA genes in Kashmiri population—Advantage of NGS technology

Collaborative projects

1. Antifactor H antibody associated Hemolytic, Uremic Syndrome, Paediatrics
2. Evaluation of novel forensic exhibits and informativity of Y-STR markers in chimerism situation, collaboration with Department of Forensic Medicine, AIIMS (Intramural Grant)

3. Potential role of HLA-G mediated immunomodulation by tissue specific human Mesenchymal Stem Cell (hMSCs), collaboration with Stem Cell Facility, AIIMS (DBT funded centre of excellence)

PUBLICATIONS

Journals: 12 Abstracts: 3

PATIENT CARE

RENAL TRANSPLANTATION

	Recipients	Donors	Total	Total tests
Live Related	493	434	927	1854
Cadaver Transplantation (Kidney)	108	11	119	238
Cross Match Test—CDC (Serology)	1251		1251	
Cross Match Test— (Flowcytometry)	267		267	
Luminex PRA	360		360	
Luminex (DSA monitoring)	217		217	

I. BONE MARROW/HEMATOPOIETIC STEM CELL TRANSPLANTATION

Hematology, AIIMS Referrals

Diagnosis	Recipients	Donor	Total
Aplastic Anemia	152	415	567
Acute Leukemia (AML+ALL)	53	125	178
Thalassemia	75	180	255
Chronic Leukemia	25	64	89
Others	60	192	252
Total	365	991	1341

S. No.	Diagnosis	No. of Tests done
A	Low Resolution HLA Typing (PCR-SSP or PCR-SSO Luminex based)	
1.	HLA-A locus	1341
2.	HLA-B locus	1341
3.	HLA-DRB1 locus	491
4.	HLA-DRB3/4/5 loci	105
B	High Resolution HLA Typing (Sequence Based Typing/ PCR-SSO Luminex)	
5.	HLA-A locus	70
6.	HLA-B locus	70
7.	HLA-C locus	70
8.	HLA-DRB1	80
9.	HLA-DQB1	80
10.	HLA-DQA1	80
C	Donor Specific Antibody (DSA) Monitoring Luminex based assays	
11.	HLA class I	10
12.	HLA class II	10
D	Chimerism studies in BMT	
13.	Post Transplant recipients	150
14.	Pre Transplant recipients	150
15.	Donors	150
	TOTAL TESTS	4198

S. No.	Diagnosis	No. of Tests done
E	Unrelated Donor searches for BMT *During the year requests received by 'Asian Indian Donor Marrow Registry' for HLA matched donors	55*

II. Disease Association HLA Screening tests

	Diseases	HLA test	No of tests
16.	Ankylosing Spondylitis and other Spondyloarthropathies	HLA- B-27	584
17.	Coeliac Disease	HLA-DQA1/DQB1	45
18.	Narcolepsy/Cataplexy	HLA-DQB1	14
	Total		643

PRIMARY IMMUNODIAGNOSTICS

Free of cost service provided for Primary and Secondary Immunodeficiency Diseases

S. No.	Diagnosis	Markers/Assays	No. of Tests
1.	T Cell Frequency	CD3, CD4, CD8	531
2.	B Cell Frequency	CD19, 20	619
3.	NK Cell Frequency	CD3, CD56, CD16	390
4.	NK Cell Activity (HLH)	CD3, CD56, Perforin	197
5.	ALPS	CD3, CD4, CD8, TCR $\alpha\beta$	66
6.	Leukocytes Adhesion Deficiency	CD11a,b and CD18	208
7.	Chronic Granulomatous Disease	DCFDA/DHR	450
8.	Hyper IgM	CD3, CD69, CD154 (CD40L)	67
9.	T cell function (IFN-gamma)	CD3, CD8, IFN-gamma	71
10.	Class Switch Memory	CD19 ⁺ /CD27 ⁺ /IgD ⁻	38
11.	Degranulation Assay	CD3 ⁻ /CD56 ^{dim} /CD107a ⁺	48
12.	IL-12 Assay	CD14 ⁺ /IL-12 ⁺	20
13.	IL-17 Assay	CD3 ⁺ /IL-17 ⁺	8
14.	MSMD	CD14 ⁺ /IFN γ R ₁ ⁺ /IFN γ R ₂ ⁺	2
	Total		2715

BONE MARROW TRANSPLANTATION: IRCH, AIIMS referrals

Diagnosis	Recipients
AML	88
CML	26
ALL	54
Others	19
Total	187
Donors	454
Total	641

S. No.	Diagnosis	No. of Tests Done
A	Low Resolution HLA Typing (PCR-SSP)	
1.	HLA-A locus	641
2.	HLA-B locus	641
3.	HLA-DRB1 locus	100
	Total	1382

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Dr Uma Kanga and her research fellow **Ms. Shweta Tyagi** received the ‘Mentor-Mentee Award’ during the 15th Transplantation Science Symposium (TSS 2017) held in Victoria, British Columbia, Canada during 24-26 May 2017; Continues as a member of the General Assembly of the International Union of Immunological Sciences (IUIS); Nominated as a member of the Technical Expert Committee for ‘Strengthening of Quality Control Testing of Biochemical Kits’ at the National Institute of Biologicals, Ministry of Health and Family Welfare, Government of India; Invited as member Ethics Committee of Nayati Multiple Super Specialty Hospital Mathura.

VISITING SCIENTISTS

1. 28 February-7 March 2018: Dr Takashi Shiina and Dr Shingo Suzuki from Department of Molecular Life Sciences, Tokai University, Isehara, Japan visited our department (under the DST-JSPS collaborative project)
2. 4-7 March 2018: Professor Makato Onizuka form Department of Hematology, Tokai University Isehara, Japan visited AIIMS, our department (under the DST-JSPS collaborative project). He also delivered a lecture entitle “Bone Marrow Program in Japan” at Department of Hematology, AIIMS.

9.42. Urology

Professor and Head

P.N. Dogra

Professors

Amllesh Seth

Rajeev Kumar

Associate Professor

Prabhjot Singh

Assistant Professors

Rishi Nayyar

Brusabhanu Nayak

Sanjay Kumar

Siddharth Jain

Manoj Kumar

HIGHLIGHTS

The department organized the Master Class on Plasma Kinetics and TUEB (transurethral Enucleation with Bipolar) on 30 July 2017 at Ramalingaswami Board Room, AIIMS, New Delhi.

The department also organized Master Class in Uro-Oncology with Live Operative International Minimally Invasive Surgery Workshop in association with Department of Urology and Renal Transplant, VMMC and Safdarjang Hospital (in Collaboration with Society of Urologic Robotic Surgery-SURS, USA), New Delhi on 26-27 August 2017.

The 3rd Sarinder Man Singh Memorial Oration in Urology has been coveted upon Dr Mahender Bhandari, former faculty at the Department of Urology, AIIMS.

Dr Rajeev Kumar was appointed as Associate Dean (Academics).

EDUCATION

The faculties of the department participated in and delivered lectures in continuing medical education programs, symposia, national and International conferences during the year.

The department imparted lectures for the undergraduates and nursing students (BSc and MSc). The department trains 11 postgraduates for the degree of MCh in Urology over a three year period. Post MCh fellowship training is available for sub-specialities including minimally invasive Urology, Uro-Oncology, reconstructive Urology and Uro-Gynecology. Efforts are being made to start the renal transplant programme under the department with help from Department of Surgical Disciplines and Department of Nephrology.

The faculties of the department are examiners for NBE and MCh. Urology in various universities and inspector for the Medical Council of India and National Board for recognition of standard of teaching and training and facilities for Urology postgraduate courses.

The faculty of the department took active part in restructuring and reframing the curriculum for MCh and DNB training courses in Urology of other upcoming institutes.

CMEs/Workshops/Symposia/National and International Conferences

Organized by the Department

1. Organized Master Class on Plasma Kinetics and TUEB (Transurethral Enucleation with Bipolar) on 30 July 2017 at Ramalingaswami Board Room, AIIMS, New Delhi
2. Organized Master Class in Uro-Oncology with Live Operative International Minimally Invasive Surgery Workshop (in Collaboration with Society of Urologic Robotic Surgery-SURS, USA) in association with Department of Urology and Renal Transplant, VMMC and Safdarjang Hospital, New Delhi on 26-27 August 2017

Lectures delivered

Prem Nath Dogra

1. Demonstration of PCNL and TURP on simulators, URO-MET Programme of USI, 14-16 April 2017, Gurgaon
2. How to prevent incontinence during TURP, Mid Term Live Operative Workshop on Male Urinary Incontinence and Urodynamics, 22-23 April 2017, New Delhi
3. Reconstruction of the upper urinary tract, American Urological Association, 12-15 May 2017, Boston, USA
4. Moderator for poster session on Trauma/Reconstruction/Diversion, Urethral Reconstruction, American Urological Association, 12-15 May 2017, Boston, USA
5. Kidney and gall bladder, DD Kisan, 22 July 2017, New Delhi
6. Instructional course, American Urological Association and Urological Society of India, 18-19 August 2017, Hyderabad
7. Uromet course, USI BOE, 8-10 September 2017, Gurgaon
8. Mock exam, USI BOE, 23-24 September 2017, Patna
9. Live demonstration of green light laser in BPH, NZUSICON, 3 October 2017, Meerut
10. Vascular access, BOE Programme, 21-22 October 2017, Hyderabad
11. Management of radiation induced ureteral strictures, Malaysian Urological Conference and Workshop, 23-26 November 2017, Malaysia
12. Urolegaon, USI Programme, 2-3 December 2017, Chennai
13. Kidney stone and OAB, DD Kisan, 10 February 2018, New Delhi
14. Moderated Poster Session, 33rd Annual Congress of the European Association of Urology, 16-20 March 2018, Copenhagen, Denmark

Amlesh Seth

1. Live demonstration of reduced costectomy, Live Operative Workshop and Mock Test, 28-30 April 2017, Kolkatta
2. Invited faculty, 6th Annual CMC—Urology Master Class, Postgraduate Course, 26-27 May 2017, Vellore
3. Cytreoreductive nephrectomy in Metastatic Renal Cell Carcinoma, 4th SFO International Cancer Conference at Chitwan, 3-4 November 2017, Nepal
4. Metastatic kidney cancer-should we cut it out, NZ-USICON-2017, 3-5 November 2017, Meerut
5. What is new in kidney cancer guidelines, NZ-USICON-2017, 3-5 November 2017, Meerut
6. Photothermal therapy for bladder cancer using as gold nanorod seafield as presentation of our research paper, 2nd Annual Conference of Indian Society of Nanomedicine (ISNM)—Nanobioteck 2017, 6-8 December 2017, Trivandrum
7. Panelist for case based discussion on bladder cancer, 51st Annual Conference of the Urological Society of India (USICON 2018), 18-21 January 2018, Jaipur
8. Panelist for Dr H.S. Bhat Memorial Symposium and Management and Carcinoma Prostate, 51st Annual Conference of the Urological Society of India (USICON 2018), 18-21 January 2018, Jaipur
9. Extent of legmiphedomertomy with robotic reduced prostectomy for carcinoma prostrate, 2nd Robotic Forum Conference (RUFCON 2018), Department of Urology, 23-25 February 2018, PGIMER, Chandigarh
10. Symposium Director for a Special Symposium on Gento-Urinary Tuberculosis in the session on Urology beyond Europe, 33rd EAU Congress in Copenhagen, 16-20 March 2018, Denmark

Rajeev Kumar

1. Session moderator-recent advances, Robotic Surgeon's Council, 8-9 April 2017, Chennai
2. IMRaD and paper writing, ISOT, 11 April 2017, Gurgaon
3. mpMRI and guided biopsies in prostate cancer, Annual Conference of Japanese Urological Association, 20-23 April 2017, Kagoshima

4. Moderator-adrenals, Annual Conference of American Urological Association, 12-16 May 2017, Boston
5. IMRAD-the basic structure, Annual Conference of Urological Association of Asia, 3-6 August 2017, Hong Kong
6. Endourology in Asia-past present and future, Annual Conference of Taiwan Urological Association, 19-20 August, Kaohsiung
7. What would be the best treatment option for hormone-naïve metastatic prostate cancer in the near future, 37th Annual Conference of SIU, 18-22 October 2017, Lisbon
8. Scientific misconduct and predatory practices, 37th Annual Conference of SIU, 18-22 October 2017, Lisbon
9. Penile fractures-current concepts, NZUSICON 2017, 2-4 November 2017, Meerut
10. IMRaD: Writing a report, AP-SOGUS Meeting, 11 November 2017, Warangal
11. Flexible ureteroscopes and their care, 26th Annual Conference of Malaysian Urological Association, 23-25 November 2017, Kuching
12. How to write a scientific paper, 26th Annual Conference of Malaysian Urological Association, 23-25 November 2017, Kuching
13. How to be a leader, 26th Annual Conference of Malaysian Urological Association, 23-25 November 2017, Kuching
14. Evaluating male factor infertility, IFS 2017, 9 December 2017, New Delhi
15. Microsurgery for male infertility, Annual Conference of Urological Society of India, 17-21 January 2018, Jaipur
16. BOE course on male infertility, Annual Conference of Urological Society of India, 17-21 January 2018, Jaipur
17. Significance and p-values, Annual Conference of Urological Society of India, 17-21 January 2018, Jaipur
18. Skills development, Conclave on Virtual Teaching, 8-9 February 2018, New Delhi
19. BPH-Studies and drugs, Mumbai Urological Association PG Program, 18 March 2018, Mumbai
20. Predatory practices and the WAME policy, ICMR Symposium on Biomedical Communication, 27 March 2018, New Delhi
21. Scientific writing, Nepal Association Annual Meeting, 30-31 March 2018, Kathmandu

Prabhjot Singh

1. Etiology, Evaluation and management of urinary incontinence in adults, Mid-term Workshop on Male Urinary Incontinence, 22 April 2017, Delhi
2. Tumors of male reproductive system, 4th National Seminar on Reproductive Health Awareness, 8-9 September 2017, Ludhiana
3. Pre biopsy Genomic tests in Ca Prostate, Update on Management of Prostate Cancer, 9 September 2017, Gurgaon
4. How to do TURP: Video, SURGICON 2017, 10 November 2017, New Delhi
5. Small renal masses, SURGICON 2017, 10 November 2017, New Delhi
6. What to do in PIRAD 2 and 3 lesions, Medanta Urology Grand Round—Urologic Oncology Update in Prostate MRI and Interactive Uro-Radiology Session, 12 November 2017, Gurgaon
7. Diagnosis of Urogenital TB, CME on Diagnostic Approach in Extra-Pulmonary TB, 2 February 2018, New Delhi
8. How to decrease warm ischemia during Robotic Partial Nephrectomy, RUFCON 2018, 25 February 2018, Chandigarh
9. What do you do in PIRAD and 3 lesions in borderline PSA, UROCON 2018, 31 March 2018, Kathmandu
10. Best practices in TRUS guided prostate biopsy, Medanta Urology Grand Round—An Update in Prostate Biopsy, Molecular Diagnostics and Immunopathology, 26 March 2017, Gurgaon
11. Chaired session, live operative workshop and Master Class on Plasma Kinetics and Transurethral Enucleation with Bipolar (TUEB), 30 July 2017, New Delhi
12. Chaired Live Surgery Session RARP/LRC/MR—TRUS Fusion Biopsy, Conference on Master Class in Uro-Oncology with Live Operative International Minimally Invasive Surgery Workshop, 27 August 2017, New Delhi

Rishi Nayyar

1. Neoadjuvant therapy in high risk prostate cancer, Update in Management of Carcinoma Prostate, 9 September 2017, Gurgaon
2. TURP—For residents, UROMET, 9-10 September 2017, Gurgaon
3. Prostate cancer, XXXV National Continuing Medical Education Programme in Surgery, 28 September 2017, New Delhi
4. Stress urinary incontinence, Annual Conference of Gurgaon Obstetric and Gynaecological Society, 27 October 2017, Gurgaon

5. Nocturnal enuresis, NZ-USICON, 4 November 2017, Meerut
6. Management of RCC with IVC thrombus and metastasis, SURGICON, 10 November 2017, New Delhi
7. Panelist: Reconstructive procedures for stress urinary incontinence, Expert opinion: When, which and why? Uro-Gynecology Pre-Congress Workshop of Annual Meeting of AOGD, 17 November 2017, New Delhi
8. Urinary tract infection, Recent trends in nursing; Care, compassion and innovations, 8 March 2018, New Delhi

Brusabhanu Nayak

1. Recent changes in the guidelines of bladder cancer, Master Class in Uro-Oncology with Live Operative International Minimally Invasive Surgery Workshop 2017, 26-27 August 2017, New Delhi
2. What's new in the guidelines of bladder cancer, BOE Guest Lecture at North Zone USICON 2017, 5 November 2017, Meerut, UP
3. Is there a role of adjuvant therapy in the management of non-metastatic RCC, East Zone Chapter of USICON 2017, 10-12 November 2017, Bhubaneswar, Odisha
4. Adjuvant therapy in the management of non-metastatic RCC, Urocon 2018 by NAUS, 28- 31 March 2018, Kathmandu, Nepal

Manoj Kumar

1. Recent trends in Urological Surgeries, Recent Trends in Nursing: Care, Compassion and Innovation, 8 March 2018, AIIMS, New Delhi

Oral papers/posters presented

1. Seth A. Comparison of renal functional status before and after Shock Wave Lithotripsy (SWL) or Percutaneous Nephrolithotomy (PNL) for uncomplicated solitary renal stones, 37th Annual Conference of SIU, 19-22 October 2017, Lisbon
2. Seth A. Comparison of 68Ga-PSMA-PET-CT with Multiparametric MRI for staging high risk prostate cancer, 37th Annual Conference of SIU, 19-22 October 2017, Lisbon
3. Seth A. Application of Nanotechnology for Combined Chemo and Photothermal Therapy for Non-Muscle-Invasive Urinary Bladder Cancer, 37th Annual Conference of SIU, 19-22 October 2017, Lisbon
4. Tiwari DP, Razik T, Das CJ, Kumar R. Prospective analysis of factors predicting feasibility and success of longitudinal intussusceptions vasoepididymal anastomosis in men with idiopathic obstructive azoospermia, 37th Annual Conference of SIU, 18-22 October 2017, Lisbon
5. Kaushal R, Singh P, Das CJ, Dogra PN, Kumar R. The role of MRI-TRUS fusion biopsy in diagnosis of prostate cancer: A prospective cohort study, 37th Annual Conference of SIU, 18-22 October 2017, Lisbon
6. Yadav S, Singh P, Kumar R. Robotic partial nephrectomy for a complex hilar tumor: Video demonstration, Annual Conference of Urological Association of Asia, 3-6 August 2017, Hong Kong
7. Kumar R. Longitudinal intussusceptions vasoepididymostomy: Step by step, Annual Conference of Urological Association of Asia, 3-6 August 2017, Hong Kong
8. Singh P, Shukla A, Dogra PN. Role of PDE-5 inhibitor in the treatment of Chronic pelvic pain syndrome: A randomized control trial, Journal of Urology, May 2017, American Urological Association, 12-16 May 2017, Boston
9. Nayyar R, Kumar P. Pneumovesicum; A hasslefree alternative in modified Lich-Gregoir ureteric reimplantation, NZ-USICON, 3-5 November 2017, Meerut
10. Nayyar R, Kumar P. Managing cavernous abdominal wall defect in treating untreated adult exstrophy complex, NZ-USICON, 3-5 November 2017, Meerut
11. Saini S, Nayyar R, Sharma A, Kaushal S, Dogra PN. Hematogenous dissemination of tumour cells following standard transurethral resection of bladder cancer and its correlation with final histopathology, USICON, 18-21 January 2018, Jaipur
12. Nayak B, Shrivastava P, Singh P, Dogra P. Correlation between pre-operative serum C-reactive protein, platelet count and calcium levels with the types and stages of renal cell cancer and its significance in predicting recurrence and mortality after curative surgery, 35th World Congress of Endourology, 12-16 September 2017, Vancouver, Canada
13. Seth A, Shrivastava N, Nayak B, Tripathi M, Singh P, Kumar R, Dogra P. Comparison of renal functional status before and after Shock Wave Lithotripsy (SWL) or Percutaneous Nephrolithotomy (PNL) for Uncomplicated Solitary Renal Stones, 37th Congress of SIU, 19-22 October 2017, Lisbon

RESEARCH

Funded projects

Ongoing

1. Application of nanotechnology for combined chemo and photothermal therapy for non-muscle-invasive urinary bladder cancer, Amllesh Seth, DBT
2. A multicenter, prospective, longitudinal registry of patients with prostate cancer in Asia, Amllesh Seth, Jansen, 5 years, 2017-2022, Rs 14.59 lakhs
3. Male infertility: Demographics, etiology and outcomes of standard clinical practice, Rajeev Kumar, ICMR, 3 years, 2015-2018, Rs 11.66 lakhs
4. Human papillomavirus status in penile carcinoma in Indian patients: Incidence, type distribution and correlation with Clinico-pathological staging, Prabhjot Singh, AIIMS, 2 years, 2016-2018, Rs 9.5 lakhs
5. Role of circulating tumor cells in patients undergoing TURBT for bladder cancer: Effect on tumor cells dissemination and its correlation with histopathology, Dr Rishi Nayyar, AIIMS, 2 years, 2016-2018, Rs 9 lakhs
6. Identification of Glucose Related Protein 78 (GRP78) as a biomarker for tumor behavior in patients of Renal Cell Carcinoma (RCC), Manoj Kumar, AIIMS, 2 years, 2017-2019, Rs 4.9 lakhs

Completed

1. Study of miRNA 182 and miRNA 187 as potential biomarkers in prostate cancer patients and its correlation with serum PSA, Gleason score and prostate cancer staging, Brusabhanu Nayak, AIIMS, 2 years, 2015-2017, Rs 4.8 lakhs

Departmental projects

Ongoing

1. Unilateral versus bilateral vasoepididymal anastomosis: Prospective randomized trial
2. Long-term outcomes of RARP
3. Does intra-urethral flora have a role in post-procedural incidence of urinary tract infection in healthy males undergoing endourological procedure—A clinical study
4. Clinico-pathological profile of renal tumors in pediatric, adolescent and young adult population
5. Randomized controlled trial to compare the length of stay, preoperative outcomes and complications in patients undergoing radical cystectomy with and without ERAS protocol in a tertiary care center in India

Completed

1. mpMRI-TRUS fusion biopsy in detection of early prostate cancer
2. Microbiological evidence of live TB Bacilli in nephrectomy specimen of treated genitourinary TB patients
3. Robot assisted preperitoneal simple prostatectomy for large benign prostate: Revisiting retropubic simple prostatectomy—Initial experience

Collaborative projects

Ongoing

1. Male infertility: Demographics, etiology and outcomes of standard clinical practice, Anatomy
2. Erectile dysfunction in Nonalcoholic Fatty Liver Disease, Medicine
3. Comparison of urodynamic study and vaginal pessary test to unmask occult SUI in patients undergoing vaginal surgery for uterine prolapse, Obstetric and Gynaecology
4. Use of PET-CT with Gallium-68 labeled prostate specific membrane antigen in the diagnosis and follow-up of patients with prostate cancer, Nuclear Medicine

Completed

1. Prevalance and predictors of persistent hypertension and diabetes in patients undergoing pheochromocytoma and paraganglioma removal and its effect on quality of life, Anesthesia, Endocrinology
2. Role of multiparametric MRI and diffusion tensor imaging in Prostate Cancer: Comparison with whole mount histopathological examination of robotic prostatectomy specimens, Radiology
3. A comparison of ^{99m}Tc-DMSA and ^{99m}Tc-LL EC for the evaluation of differential renal function in Unilateral Hydronephrosis, Nuclear Medicine
4. Role of early dynamic PET-CT with ^{68Ga}PSMA-HBED-CC in patients with adenocarcinoma prostate, Nuclear Medicine

PUBLICATIONS**Journals: 23****Abstracts: 14****Chapters in Books: 6****Books: 1****PATIENT CARE****Main Hospital OPD**

New cases: 17521 Old cases: 43698

BRAIRCH Uro-Malignancy Clinic

New cases: 401 Old cases: 4413

Andrology and Infertility Clinic

New cases: 698 Old cases: 1048

Admissions

Long Admissions: 1481 Short Admissions: 941

Discharges: 2552

Main OT Surgical Procedures: 2363**Open surgery: 484**

Radical cystectomy	51	Radical nephrectomy + cytoreductive	40
Radical cystectomy with nephroureterectomy	4	Radical nephrectomy with IVC thrombectomy	8
Salvage cystectomy	2	Radical Nephroureterectomy	5
Partial cystectomy	3	Simple nephrectomy	20
End to End Urethroplasty	23	Partial nephrectomy	22
Anterior lay open	7	Heminephrectomy	0
Transpubic Urethroplasty	2	RPLND	3
Augmentation Cystoplasty	0	Graft urethroplasty	20
Adrenalectomy	2	Second stage closure	10
Adrenalectomy with IVC thrombectomy	0	Pyeloplasty	13
Paraganglioma excision	0	Continent catheterisable pouch	1
Ureteric Reimplant	8	Boari flap	1
VVF repair	17	Ureteroureterostomy	1
Vesicouterine fistula repair	0	Total penectomy	2
Orchidopexy/orchiectomy (undescended testis)	30	Prostatectomy	1
AUS implantation/Penile prosthesis	0	Partial Penectomy	11
Pyelolithotomy	0	Hypospadias repair	7
Cystolithotomy	4	TVT/TOT	0
Ilioinguinal lymph node dissection	4	Ureterocalycostomy	2
High Inguinal Orchiectomy	21	Others	139

Endourology: 1593

Upper tract: 452		Lower tract: 1141					
PCNL	167	TURP/TUIP/TUEB	55	CLT	35	DJS	305
URS	207	TURBT	323	PCCLT	2	DJR	69
RIRS	70	TUR fulguration	38	HOLEP	7	OIU/BNI/ Endodilatation	60
PCNUL	6	TURED	6	HOLCT	2	Botox injection	1
Endopyelotomy	2	Clot evacuation	0	PVP	64	Laser welding	0
Endoevaluation	37	Ureterocele incision	2	Others	135		

Laparoscopic: 144

Radical nephrectomy	36	Partial nephrectomy	9
Simple nephrectomy	37	Adrenalectomy	16
Retroperitoneoscopic nephrectomy	4	Nephroureterectomy	10
Pyeloplasty	18	Ureterolithotomy	4
Pyelolithotomy	4	Lap radical prostatectomy	0
Ureteric reimplant	0	Paraganglioma excision	2
Diagnostic lap	1	Others	3

Robotic: 66

Radical prostatectomy	25	Radical cystectomy	1	Pyeloplasty	25
Ureterolithotomy	5	Simple prostatectomy	1	Ureteric reimplant	1
Simple nephrectomy	0	Partial nephrectomy	6	Radical Nephrectomy	2
Pyelolithotomy	0	Others	0	Partial Cystectomy	0

Microsurgery: 38

VEA	21	VVA	2	MVL	6
Scrotal exploration	8	TESE	0		

Minor OT: 12346

Endoscopic	2899	Uroflowmetry	4892
Open	11	Urodynamic Study	388
Minor cases	4098	Stone Analysis	58

ESWL: 1424

New cases	545	Old cases	879
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Ultrasound procedures: 265

Prostate TRUS biopsy	223	SPC	1
MRI-TRUS Fusion biopsy	31	PCN	3
In Bore biopsy	6	USG	1

(b) Community services/camps etc.

PN Dogra

1. Health talk on 'Kidney and Gall bladder' on national television DD Kisan channel on 22 July 2017
2. Health talk on 'Kidney stone and OAB' on national television DD Kisan channel on 10 February 2018

Amlesh Seth

1. Interview on problems of prostate in total head therapy
2. Interview on problems of prostate at DD National Channel
3. Health camp organized by Mission Ashoka at Kargil

Dr Prabhjot Singh

1. Participated in health camp in Nandera, Pratapgarh, UP on 18 November 2017 by Samudayik Vikas Samiti Pratapgarh, UP
2. Lecture on male reproductive system cancers in 4th National Seminar on Reproductive Health Awareness for Adolescents at Punjab Agricultural University, Ludhiana on 8 September 2017

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor P.N. Dogra was elected as a fellow of the National Academy of Medical Sciences (India) in the year 2017; Elected as President of Urological Society of India for the year 2017-2018; Awarded International Travel Fellowship by MEN'S Health Society of India in 2017; Certificate of appreciation by Shri Amitabh Bachchan in 2017; Chief Guest in Mid-Term Live Operative Workshop on Male Urinary Incontinence and Urodynamics on 22-23 April 2017 at Max

Super Specialty Hospital Max, Patparganj, New Delhi; Guest of Honor for the Live Laparoscopic Urology Workshop on 17-18 June 2017, Kanpur; Special guest by virtue of President USI to attend the leadership meeting in BAUS, 26-28 June 2017 Glasgow, UK; VIP guest being USI president by the Urological Association of Asia at Hong Kong from 4-6 August 2017; VIP guest being president of USI to the 27th Annual Conference of North Zone Chapter of Urological Society of India from 3-5 November 2017, Meerut, UP; VIP guest being the President of USI by the Malaysian Urological Association on 23-26 November 2017 at Kuching, Sarawak, Malaysia; Presided over the 51st Annual Conference of the Urological Society of India from 18-21 January 2018 at Jaipur; Chairman of SC/ST Grievances Cell; Delivered guest lectures in various national and international scientific programmes; Demonstrated live operative surgeries in workshops; Chaired scientific sessions in national scientific programmes; Trained observers from national and international universities; Chaired a Session, Mid-Term Live Operative Workshop on Male Urinary Incontinence and Urodynamics, 22-23 April 2017, New Delhi; Chairperson for VVF Repair, Live Laparoscopic Urology Workshop, 17-18 June 2017, Kanpur; Chairperson for HOLEP, Minimal Access Surgery Training Institute on advancement in Endo-Urology Workshop, 23-25 February 2018, Ahmedabad.

Professor Amlesh Seth was invited Governing Council Member for World Uro-Oncology Federation; Appointed Chairman of Guidelines Committee of Urology Society of India for Guidelines on Management of Renal Cell Cancer; Invited faculty for 33rd EAU Congress in Copenhagen, Denmark, 16-20 March 2018; Chaired a Session on Invited Videos, Robotic Urology Forum Conference (RUFCON 2017), 21-23 April 2017, Mumbai.

Professor Rajeev Kumar was appointed co-chair of Scientific Committee, Society Internationale d Urologie; Participated as a resource person and faculty for workshops on Medical Writing and Research Methodology; Scientific Medical Writing: Workshop on Scientific Writing for Researchers, AIIMS, New Delhi, 15-16 February 2018 and 12-13 August 2017; Scientific Medical Writing: Workshop on Scientific Writing for Faculty, AIIMS, New Delhi, 28-29 April 2017; Scientific Medical Writing: Workshop on Scientific Writing for Indian Society of Dental Research, AIIMS, New Delhi, 17-18 March 2018.

Dr Prabhjot Singh did an observership for 2 weeks at SGPGIMS Lucknow; Awarded as Hargovind Travelling Fellowship by North Zone Urological Society of India; American Urological Association Chakroborty Fellowship 2017 and attended AUA Meeting 2017, Boston and observership for 6 weeks at University of Miami, USA; Awarded MNAMS by the National Academy of Medical Sciences (India).

Dr Rishi Nayyar was editorial committee member of Indian Journal of Urology; Convener for 'Epidemiological Men's Health Survey in Northern India' by the North Zone Chapter of Urological Society of India (NZUSI); Awarded MAMS at the convocation of National Academy of Medical Sciences (India), Amritsar; Awarded FIMSA at the convocation of International Medical Sciences Academy, Shimla; Member of the Subject Expert Committee (SEC) (Reproductive and Urology) under Directorate General of Health Services, Office of Drugs Controller General (India), Expert Committee Coordination Cell; Chaired: CIC and Male Overactive Bladder, Mid-Term Live Operative Workshop on Male Urinary Incontinence and Urodynamics, 22-23 April 2017, New Delhi; Chaired: Basic Laparoscopy, 2nd Mid-Term Live Operative Workshop on 'Laparoscopic Urology', 17-18 June 2017, Kanpur; Chaired: Penile and Urethral Surgeries, 7th UROMEET SGRH—Conference cum Workshop, 22-23 July 2017, New Delhi; Chaired: Video Session—Urological Surgeries, XXXV National Continuing Medical Education Programme in Surgery, 28 September 2017, New Delhi; Chaired: Innovative pelvic Floor Rehabilitation: Biological Rationale and Clinical Application, Uro-Gynecology Pre-Congress Workshop of Annual Meeting of AOGD, 17 November 2017, New Delhi

Dr Brusabhanu Nayak did a Clinical Fellowship on Advanced Robotics and Laparoscopy at Clinic Saint Augustine, Bordeaux, France from 22 May-29 June 2017; Awarded Hargovind Memorial Travel Fellowship for year 2017 by North Zone Chapter of USI and visited SGPGI Lucknow from 20-27 February 2018; Awarded MAMS at the convocation of National Academy of Medical Sciences (India), Amritsar.

Dr Manoj Kumar was chaired: Advances in Urological Surgeries, 1st National Conference of OT Technologists on Techniques in Anaesthesia Surgery and Critical Care, 29 October 2017, AIIMS, New Delhi.

Dr Siddarth Jain was awarded UAA Young Urologist Fellowship Award for year 2018 by Urological Society of India and attended UAA Congress at Kyoto, Japan, 17-22 April 2018.

10.1. Cardiothoracic Sciences Centre

Chief

V.K. Bahl

Cardiology

Professor and Head

V.K. Bahl

Professors

Anita Saxena	S.S. Kothari	Balram Bhargava
K.C. Goswami	R. Juneja	R. Narang
S. Mishra	S. Seth	Rakesh Yadav
N. Naik	G. Karthikeyan	Gautam Sharma
S. Singh	Ambuj Roy	S. Ramakrishnan

Associate Professors

Saurabh K Gupta	Neeraj Parakh	Sunil K. Verma
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Cardiothoracic and Vascular Surgery

Professor and Head

Balram Airan (up to 31 December)

S.K. Choudhary (from 1 January)

Professors

U.K. Chowdhury	A.K. Bisoi	V. Devagourou
Milind P. Hote		Sachin Talwar

Associate Professors

Manoj Kumar Sahu		P. Rajasekhar
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Assistant Professors

Sarvesh Pal Singh		Ramesh P. Menon
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Cardiac Anaesthesiology

Professor and Head

Usha Kiran (up to 31 January)

Sandeep Chauhan (from 1 February)

Professors

Neeti Makhija	Poonam Malhotra	Minati Choudhury
Sambhunath Das	Parag Gharde	Vishwas Malik

Associate Professors

Suruchi Hasija		Arindum Choudhury
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Cardiac Biochemistry

Professor

Lakshmy Ramakrishnan

Scientist I

Manoj Kumar Tembhre

Cardiac Nuclear Medicine

Professor

Chetan D. Patel

Cardiac Pathology

Professor

Ruma Ray

Associate Professor

Sudheer Kumar Arava

Cardiac Radiology

Professor and Head

Sanjiv Sharma

Professors

Gurpreet Singh Gulati

Priya Jagia

Assistant Professor

Sanjeev Kumar

Stem Cell Facility

Professor

Sujata Mohanty

Blood Transfusion Services

Professor

R. Lakshmy

Chief Medical Officer

Anjali Hazarika

Assistant Professor

Gopal Patidar

Sup. Medical Social Service Officer

Mrs Veena Belani

Chief Technical Officer

Bijay Majhi

Suresh Kumar

Gulshan Mehta

HIGHLIGHTS

Cardiology

The department catered to nearly 1,40,000 outpatient visits. Over 35,000 patients underwent echocardiography and about 3000 diagnostic cardiac catheterizations were performed. More than 3000 patients underwent interventional procedures including angioplasty, device implantations and balloon valvoplasties.

During this period, the department participated in several research projects studying patients across a wide spectrum of cardiac disease. Important publications relating to rheumatic heart disease, coronary artery disease and global burden of disease were published in high-impact scientific journals. We organized major cardiology meetings including National Interventional Council Meeting 2017 and CSI Delhi Branch 2018. The faculties of the department are part of major cardiology journals including Heart Asia, Indian Heart Journal, Annals of Pediatric Cardiology and JPCVS. Various faculty members were part of important committee including ones that regulated stent prices.

In addition to patient care, research and teaching, the department was involved in a major way in furthering the academic discourse in cardiology in the country. Faculty members from the department have been elected to executive positions in the national and regional cardiology bodies and have helped refocus on the academic agenda.

Cardiothoracic and Vascular Surgery

The department was at the forefront in the field of patient care, teaching and research. Besides catering to a large number of patients with all types of congenital and acquired cardiovascular diseases, the department was actively engaged in research and collaboration at national and international levels in the field of research and publications. The faculty of the department delivered 78 lectures and presented 24 research papers at various national and international conferences and had 40 plus publications in peer reviewed national and international journals of repute. The educational activities of the department, especially in the fields of aortic surgery and cardiac surgical intensive care were noteworthy. In the field of intensive care, the department conducted several seminars, guest lectures, 2 workshops, and 5 wet abs, and developed post-cardiac surgery ICU care protocols. The department, with its intensive care team, did exemplary work in the field of infection control practices. Besides these, some of the noteworthy events were as under:

1. First successful eCPR (CPR with ECMO) to Heart Transplant of AIIMS, New Delhi
2. First successful weaning of adult VV ECMO in Pulmonary Medicine ICU at AIIMS, New Delhi
3. First organ donation from CTVS ICU
4. Tuesday/Friday follow-up clinic for heart transplant recipients in the CTVS ward
5. Milk banking services in CTVS NICU

Cardiac Anaesthesiology

The faculty and the resident doctors from the Department of Cardiac Anaesthesia are awarded in national and international conferences. All professors and additional professors had been examiners for various DM Cardiac Anaesthesia, MD Anesthesia and DNB Anaesthesia course all over India. Department has been a pioneer in starting a fellowship in Pediatric Cardiac Anaesthesia and approval sanctioned to start soon. All faculty in the department are Editors, Editorial board/ Review members of various national and international Cardiac Anaesthesia, Anaesthesia and Echocardiography journals. A textbook of Extracorporeal Membrane Oxygenation (ECMO) in the ICU: Two edition has been published by the joint effort of all the faculty members of the department and released at SWACELSO 2018 international conference by none other than Dr Robert Bartlett, the founder of ECMO. Seventy Two publications by the Department of Cardiac Anaesthesia published in various national and national journals. The faculty of department attended five international conferences and presented papers/delivered lectures.

Cardiac Biochemistry

The Cardiac Biochemistry Department caters to inpatients and outpatients of cardiothoracic center. For several investigations carried out in the department patients are also referred from other departments as well as from other institutions. Quality of analysis is being ensured in the department though participation in several EQAS programs. The department is active in research as evidenced by six extra mural grants and one intramural project as chief investigators and 15 collaborative projects involving several departments. Three students are currently pursuing PhD and the faculty from cardiac biochemistry is involved in 5 other PhD theses as co-guide. Faculty of the department is involved as technical advisory committee member for a nutrition survey being conducted by UNICEF and health ministry. The faculty from the department is also a member of Technical Advisory Committee for AP Government for a project on chronic kidney disease. This is in addition to expert member of Project Review Committee for ICMR in the area of non-communicable diseases and obesity and metabolic syndrome.

Cardiac Nuclear Medicine

Nuclear Medicine in Cardiothoracic Centre (CTC) routinely performs diagnostic nuclear cardiological procedures. The unit is also actively involved in teaching and research work. Nuclear Medicine postgraduate and Nuclear Medicine technology students are trained on rotational basis in nuclear cardiology procedures. Presently, the faculty is involved in thesis and research paper work of MCh, DM, MD, PhD and MSc students where nuclear medicine is part of their research work. Cardiac PET studies are routinely performed with N-13 Ammonia and F-18 FDG for assessment of viability. We have also started the use of other PET radiotracer like Gallium - 68 DOTANOC for cardiac sarcoidosis and F-18 FDOPA for evaluation of cardiac sympathetic innervations. The unit is involved in international multi-center research project titled "Value of intraventricular synchronism assessment by Gated SPECT Myocardial Perfusion Imaging (MPI) in the management of heart failure patients submitted to cardiac resynchronization therapy", funded by International Atomic Energy Agency, Vienna, Austria. This unit has been collaborating with other departments in funded project, one of which is funded by ICMR, one by International Atomic Energy Agency and one funded by National Heart, Lung and Blood Institute (NHLBI), USA.

Cardiac Radiology

Education: The faculty of the department delivered 35 lectures at various national and international scientific meetings. The department hosted 14 observers from various places in India and abroad. They received training in various aspects

of cardiovascular imaging and endovascular interventions. The faculty is members of editorial boards and reviewers for numerous scientific journals.

Research: The department has 17 ongoing research projects and thesis. They published 8 research papers in various peer reviewed international journal. Four papers were presented at an international meeting. In addition, 5 chapters were published in books.

Clinical care: The department continues to provide cardiovascular imaging and vascular interventional treatment services to patients referred from various specialty departments in the hospital.

Stem Cell Facility

The facility was provided financial support for the next 3 years by the Department of Biotechnology, Government of India to develop it as COE-SCR. The facility is involved in 7 projects with various departments and funding agencies. The facility has a dedicated team of 16 PhD, 7 MD and DM students, along with 3 scientists and 1 DST-Inspire Faculty DBT funded project. Research scholars from other institutes were also co-supervised in their PhD work. The facility has published 13 research papers in high impact peer reviewed journals and presented at various scientific fora (meetings, conferences). Dr Mohanty is a member of the editorial board committee of several reputed organizations. The facility has also collaborated with two international universities (University of Michigan and Bridgeport University, USA).

Blood Transfusion Services

These provide round the clock transfusion needs of patients admitted to the centre.

EDUCATION

Cardiology

The department is involved in the education and training of undergraduates and postgraduates. The daily academic activities include journal club, mortality meeting, cath conferences, short and long seminars, debates, clinical case discussion and spotters by faculty.

CMEs/Workshops/Symposia/National and International Conferences

1. NIC 2017, New Delhi
2. AIIMS Cardiac Morphology Workshop, AIIMS, New Delhi
3. CSI Delhi Branch Annual Meeting 2018, New Delhi

Lectures delivered

V.K. Bahl

1. Techniques of doing bifurcation stenting, NIC 2017, 14-15 April 2017, India
2. Even Big Boys Fail—Complications by masters, NIC 2017, 14-15 April 2017, India
3. New Generation BVS from India (MERIS 100), TCTAP 2017, 24-27 April 2017, South Korea
4. Leadless pacemakers, ICIC 2017, 4-7 May 2017, UAE
5. Recent top interventional trials, ICIC 2017, 4-7 May 2017, UAE
6. Panellist live case, Euro PCR 2017, 16-19 May 2017, France
7. Panellist live case, CCVVC 2017, 14-17 June 2017, USA
8. Multivessel angioplasty during primary angioplasty, STEMI 2017, 1-2 July 2017, Hyderabad
9. Choice of stent in STEMI, STEMI 2017, 1-2 July 2017, Hyderabad
10. Recent trials which influenced My Clinical Practice, Update in Cardiovascular Diseases 2017, 6 August 2017, West Bengal
11. Science and technique of bifurcation stenting, ACVS INDIA 2017, 19 August 2017, Andhra Pradesh
12. Left main trifurcation stenting, ACVS INDIA 2017, 19 August 2017, Andhra Pradesh
13. Recent trials in Cardiology, Fellows Course, Jay Deva Institute of Medical Sciences, 9-10 September 2017, Karnataka
14. Chronic stable angina: Management strategies, 12th Annual Conference of Indian Society of Cardiology (ISCCON 2017), 22-24 September 2017, Rajasthan
15. Left Main Trifurcation—A case based study, CCT, 2017, 26-28 October 2017, Japan
16. Left main trifurcation, TCT 2017, 29 October-2 November 2017, USA
17. Interventional innovations on the Horizon, CSI 2017, 30 November-30 December 2017, West Bengal
18. Primary angioplasty: Tips and tricks, ASSA (Annual Scientific Session of Asian Society of Cardiology) 2017, 15-17 December 2017, China

19. Forty years of angioplasty, TNIC 2018, 6-7 January 2018, Tamil Nadu
20. Case presentation, Asia PCR/Sing Live 2018, 25-27 January 2018, Singapore
21. Complete Revascularization during Primary PCI: Is it the new standard? India Live, 2018, 1-2 March 2018, Tamil Nadu
22. Top recent trials in cardiology that changed my practice, CSI, Delhi Branch, 25 March 2018, India

Anita Saxena

1. Neonatal balloon valvotomy: Key issues, 4th Pediatric Cardiology Interventional Workshop, 8-9 April 2017, Hyderabad
2. Subclinical RHD, Cardiac Prevent 2017, 24-25 June 2017, Coimbatore, Tamil Nadu
3. Primary prevention (Strep treatment) does not hold best hope for eradication of Rheumatic Heart Disease (RHD), 7th WCPCCS 2017, 16-21 July 2017, Spain
4. Pediatric cardiac interventions—Indian perspective, ICCCON 2017, 15-17 September 2017, Bhubaneswar
5. Hemodynamics data analysis, ICCCON 2017, 15-17 September 2017, Bhubaneswar
6. Changing epidemiology of RF and RHDs Cyanotic CHD—When to intervene? ISC CON 2017, 22-24 September 2017, Jodhpur
7. Approach to cyanotic congenital heart disease in adults, WCC PCI, 30 September-1 October 2017, Amritsar
8. Chair a Symposium “CHD”, XXIII WCCEAIT, 5-8 October 2017, Jaipur
9. Rheumatic heart disease in Today’s Era, Annual Meeting of PCSI, 26-29 October 2017, Mumbai
10. Caring for all Indian kids with CHD—A status report, CSI 2017, 30 November-3 December 2017, Kolkata

S.S. Kothari

1. Approach to cyanotic heart disease, 24th Annual Conference of ICC 2017, 15-17 September 2017, Bhubaneswar
2. When is an intervention inappropriate, Interventional Workshop of Pediatric Cardiac Society of India, 26-28 October 2017, Mumbai

Sundeep Seth

1. Stem cell therapy in Cardiomyopathies, International Society for Heart Research, 16 February 2018, Delhi
2. Setting Up Heart Failure Clinics, Journal of Practice of Cardiovascular Sciences Workshop, 25 February 2018, Delhi

S. Ramakrishnan

1. Management of NSTEMI, Cardicon 2017, 8 April 2017, Patna
2. Targets of HTN, Cross Connect 2017, 5 May 2017, Trivandrum
3. Coronary flow reserve and contractile reserve in late presenters with TGA after ASO, World Congress of Pediatric Cardiology and Cardiac Surgery, 16 July 2017, Barcelona, Spain
4. Expanding indications for device therapy in CHD, WCCPCI 2017, September 2017, Amritsar
5. NSTEMI management, North India Medical Clinics 2017, 16-17 September 2017, Mussorie
6. How to avoid mistakes in Echo for complex CHD and RV function assessment by Echocardiography, ICC (Indian College of Cardiology), 15-17 September 2017, Bhubaneswar
7. Echocardiography in acute RF Cyanosis with normal initial echo, World Congress of Echocardiography and Allied Imaging, 5-8 October 2017, Jaipur
8. The key note address on Infective endocarditis: What is new? PCSI 2017, 26-29 October 2017, Mumbai
9. Clinical cardiology quiz, HTN Therapeutic Conclave 2017, 14-15 October 2017, Mumbai
10. Which diuretic for hypertension? And Oxymetry basics, CSI 2017, 30 November-3 December 2017, Kolkata
11. Anticoagulation in CTVS—A panel discussion, 64th IACTSCON 2018, 1-4 February 2018, Vishakapatnam
12. Recent advances in PAH, CSI (Cardiological Society of India)—UP Chapter, 3-4 February 2018, Varanasi
13. Recent advances in pediatric PAH, ISHR 2018, 16-18 February 2018, Chandigarh
14. When to intervene in CAD? RIMACON 2018, 17 March 2018, Rae Bareli, UP

Saurabh K Gupta

1. Unusual cause of PAH—Case scenarios in Pediatric Cardiology, Echocon 2017, 7 May 2017, New Delhi
2. Training in Pediatric Cardiology, ACT 2017, 11 November 2017, Chennai
3. An overview of management of TOF like conditions, CSI 2017, 30 November 2017, Kolkata
4. Preoperative evaluation of functionally Univentricular Hearts, IACTSCON 2018, 3 February 2018, Vizag

Neeraj Parakh

1. Catering challenges in cardiac emergencies, EMINDIA, 15 July 2017, New Delhi
2. Management of atrial fibrillation: Drugs/Ablation and Indian perspective, Cardiovascular Research Convergence, 20 August 2017, New Delhi
3. Rhythm is going to get you: EP issues in cardiac transplantation, 5th Annual Conference of Society for Heart Failure and Transplantation, 24 September 2017, Kerala
4. EP traces for fellows, Annual Meeting of CSI Delhi Branch, 24 March 2018, New Delhi

Oral papers/posters presented

1. Gupta SK, Kothari SS, Saxena A, Juneja R, Gulati GS, Sharma S, Ramakrishnan S, Jagia P, Kumar S. CT Virtual Cardiac Dissection—Enhanced 3D visualization of Internal Cardiac Anatomy, PCSI 2017, 29 October 2017, Mumbai
2. Gupta SK, Kothari SS, Saxena A, Juneja R, Gulati GS, Sharma S, Ramakrishnan S, Jagia P, Kumar S, Airan B, Talwar S, Gupta N. Morphoanatomy of common arterial trunk—A CT based study, PCSI 2017, 29 October 2017, Mumbai
3. Gupta SK, Kothari SS, Saxena A, Juneja R, Ramakrishnan S, Patel C. Myocardial perfusion scan in patients with Eisenmenger syndrome, PCSI 2017, 29 October 2017, Mumbai
4. Gupta SK, Gupta A, Patel C, Airan B. RPA from ascending aorta—Solving the hemodynamic puzzle, PCSI 2017, 29 October 2017, Mumbai
5. Saxena A, Ramakrishnan S, Kant S, Roy A. Echocardiographic screening for Rheumatic Heart Disease (RHD) among asymptomatic adults: Study from a region with high prevalence of echocardiographic RHD in asymptomatic school children, BCCA 2017, 9-10 November 2017, London, UK
6. Saxena A, Bohra V, Gupta SK, Ramakrishnan S, Juneja R, Kothari SS. Spectrum of pericardial diseases in pediatric population presenting to a tertiary care centre in India, BCCA 2017, 9-10 November 2017, London, UK
7. Preetam, Seth S. Study of teaching focus ultrasound to intensivists, ISHR 2018, PGI, February 2018, PGI, Chandigarh

Cardiothoracic and Vascular Surgery

CMEs/Workshops/Symposia/National and International Conferences

1. Workshop on Bentall's Procedure, 23 August 2017, AIIMS, New Delhi
2. Wet-lab on Bentall's procedure in Workshop on Bentall's Procedure, 23 August 2017, AIIMS, New Delhi
3. Workshop on Aortic Injuries, Dissections and Aneurysm—Hybrid and Endovascular Management, 24 August 2017, AIIMS, New Delhi
4. Workshop on techniques in vascular anastomosis on 15 October 2017, AIIMS, New Delhi
5. Wet-lab on techniques in vascular anastomosis in "Workshop on techniques in vascular anastomosis" on 15 October 2017, AIIMS, New Delhi
6. Workshop on techniques in vascular anastomosis on 22 October 2017, AIIMS, New Delhi
7. Wet-lab on techniques in vascular anastomosis in "Workshop on techniques in vascular anastomosis" on 22 October 2017, AIIMS, New Delhi
8. "ECMO Cannulation workshop" at 5th Annual Conference of the South and West Asia Chapter of Extracorporeal Life Support Organization (SWAC ELSO), 19 January 2018, India Habitat Centre, New Delhi
9. "Workshop on Troubleshooting in ECMO for Perfusionists" at 5th Annual Conference of the South and West Asia Chapter of Extracorporeal Life Support Organization (SWAC ELSO), 19 January 2018, India Habitat Centre, New Delhi
10. "Cardiac Morphology Workshop by Dr Robert Anderson", 10-11 February 2018
11. Workshop on Basic Airway and Percutaneous Tracheostomy, 18 February 2018, AIIMS, New Delhi
12. Workshop on Basic Airway and Percutaneous Tracheostomy, 25 February 2018, AIIMS, New Delhi
13. "ECMO Workshop" in AIIMS PULMOCRIT 2018, 29-30 March 2018 at All India Institute of Medical Sciences, New Delhi

Lectures delivered

Balram Airan

1. Indications, timing and choice of prosthesis for pulmonary valve replacement in Tetralogy of Fallot, IACTS CME, 20-21 May 2017, Mumbai

2. Right ventricular outflow tract reconstruction, 64th Annual Conference of IACTS, 1-4 February 2018, Vishakhapatnam
3. Difficult fontan, 64th Annual Conference of IACTS, 1-4 February 2018, Vishakhapatnam

Shiv Kumar Choudhary

1. Common carotid artery cannulation for arterial inflow and antegrade cerebral perfusion during acute Type A dissection repair, Multidisciplinary Aortic Symposium, 23-24 June 2017, Portland, Oregon, USA
2. Anatomy of the aortic valve, The Eighth Cardiac Morphology, 8-9 July 2017, Chennai
3. Physician assistants in India: Current scenario, 14th National Conference of the Indian Association of Physician Assistants, 12-13 August 2017, Hyderabad
4. How to start a specialty program, Special Invited Guest Lecture, 17 August 2017, AIIMS Jodhpur
5. Anatomy of aortic root, Workshop on Bentall's Procedure, 23 August 2017, AIIMS, New Delhi
6. Natural history, development of guidelines, decision making, timing and choice of procedure, Workshop on Bentall's Procedure, 23 August 2017, AIIMS, New Delhi
7. Decision making in Bentall Procedure, Workshop on Bentall's Procedure, 23 August 2017, AIIMS, New Delhi
8. Preoperative evaluation and work-up in Bentall Procedure, Workshop on Bentall's Procedure, 23 August 2017, AIIMS, New Delhi
9. Techniques and tricks in Bentall Procedure, Workshop on Bentall's Procedure, 23 August 2017, AIIMS, New Delhi
10. What should be done for moderately dilated aorta? Workshop on Bentall's Procedure, 23 August 2017, AIIMS, New Delhi
11. Video lecture Bentall's Procedure, Workshop on Bentall's Procedure, 23 August 2017, AIIMS, New Delhi
12. Live surgical demonstration of Bentall's Procedure, Workshop on Bentall's Procedure, 23 August 2017, AIIMS, New Delhi
13. CPB management in Bentall's Procedure, Workshop on Bentall's Procedure, 23 August 2017, AIIMS, New Delhi
14. Perioperative management in Bentall's Procedure, Workshop on Bentall's Procedure, 23 August 2017, AIIMS, New Delhi
15. Prevention of bleeding in Bentall's Procedure, Workshop on Bentall's Procedure, 23 August 2017, AIIMS, New Delhi
16. Bentall Procedure with hand-made biological conduit, Workshop on Bentall's Procedure, 23 August 2017, AIIMS, New Delhi
17. Follow up management after Bentall's Procedure, Workshop on Bentall's Procedure, 23 August 2017, AIIMS, New Delhi
18. Basic principles and techniques (including AIIMS protocol) of cerebral protection, Workshop on Bentall's Procedure, 23 August 2017, AIIMS, New Delhi
19. Video lecture carotid cannulation, Workshop on Bentall's Procedure, 23 August 2017, AIIMS, New Delhi
20. Video lecture axillary cannulation, Workshop on Bentall's Procedure, 23 August 2017, AIIMS, New Delhi
21. Video lecture femoral cannulation, Workshop on Bentall's Procedure, 23 August 2017, AIIMS, New Delhi
22. Video lecture Hemiarch replacement, Workshop on Bentall's Procedure, 23 August 2017, AIIMS, New Delhi
23. Wet Lab on Bentall's Procedure (Demonstrator), Workshop on Bentall's Procedure, 23 August 2017, AIIMS, New Delhi
24. Hybrid and surgical approaches in treatment of thoracic aortic injuries, Workshop on Aortic Injuries, Dissections and Aneurysm—Hybrid and Endovascular Management, 24 August 2017, AIIMS, New Delhi
25. Creating a team for management of thoracic aortic injuries and dissections: The workflow management, Workshop on Aortic Injuries, Dissections and Aneurysm—Hybrid and Endovascular Management, 24 August 2017, AIIMS, New Delhi
26. Current indication of surgery in management of Type B aortic dissection, Workshop on Aortic Injuries, Dissections and Aneurysm—Hybrid and Endovascular Management, 24 August 2017, AIIMS, New Delhi
27. Workshop on Endovascular Repair of Thoracic Aortic Pathologies (Moderator), Joint Sessions of 5th Asia-Pacific Congress of Interventional Oncology, Annual Aorta and Endovascular Course and 4th Annual Meeting of the Society for Emergency Radiology, 25-27 August 2017, New Delhi
28. Endovascular interventions in Asia and Arabia (Moderator), Joint Sessions of 5th Asia-Pacific Congress of Interventional Oncology, Annual Aorta and Endovascular Course and 4th Annual Meeting of the Society for Emergency Radiology, 25-27 August 2017, New Delhi

29. Selecting the optimal endovascular strategies for management of below knee critical limb ischemia (Moderator), Joint Sessions of 5th Asia-Pacific Congress of Interventional Oncology, Annual Aorta and Endovascular Course and 4th Annual Meeting of the Society for Emergency Radiology, 25-27 August 2017, New Delhi
30. Hardware requirements for vascular anastomosis, Workshop on Techniques in Vascular Anastomosis, 15 October 2017, AIIMS, New Delhi
31. Techniques of vascular anastomosis, Workshop on Techniques in Vascular Anastomosis, 15 October 2017, AIIMS, New Delhi
32. Wet lab on Vascular Anastomosis (Demonstrator), Workshop on Techniques in Vascular Anastomosis, 15 October 2017, AIIMS, New Delhi
33. Bentall's Procedure, 8th CME cum Live Workshop of Association of North Zone Cardiothoracic and Vascular Surgeons, 14-15 October 2017, PGIMS, Rohtak
34. Hardware requirements for vascular anastomosis, Workshop on techniques in vascular anastomosis, 22 October 2017, AIIMS, New Delhi
35. Techniques of vascular anastomosis, Workshop on Techniques in Vascular Anastomosis, 22 October 2017, AIIMS, New Delhi
36. Cardiac anatomy as relevant to the general surgeon, Contemporary Practices in Surgery: Symposium on Thoracic Surgery 2018, 19-21 January 2018, AIIMS, New Delhi
37. Cannulation strategy in Acute Type A Dissection, 64th Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, 1-4 February 2018, Vishakhapatnam
38. Tricks and techniques Supravalvular AS, 64th Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, 1-4 February 2018, Vishakhapatnam
39. Vascular Symposium (Moderator), 64th Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, 1-4 February 2018, Vishakhapatnam
40. Aortic Valve Symposium (Moderator), 64th Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, 1-4 February 2018, Vishakhapatnam
41. Aortic root surgery: A fresh take (Moderator), 64th Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, 1-4 February 2018, Vishakhapatnam
42. Basics of Cardiac Morphology (Panellist), AIIMS Cardiac Morphology Workshop, 10-11 February 2018, AIIMS, New Delhi
43. AIIMS Cardiac Morphology Workshop (Panellist), AIIMS Cardiac Morphology Workshop, 10-11 February 2018, AIIMS, New Delhi

V Devagourou

1. Mitral valve repair in Kathmandu, Live Workshop, 17-20 June 2017, Kathmandu, Nepal
2. Mitral valve anatomy, Annual Conference on Cardiac Morphology, 8-9 July 2017, Chennai
3. Appropriate Valve Replacement Strategy (Mechanical), 15th International Conference of Cardiac Society of Nepal, 4-5 November 2017, Kathmandu
4. Strategies for management of CCTGA, 15th International Conference of Cardiac Society of Nepal, 4-5 November 2017, Kathmandu
5. Cardiac needs of the many, courage and innovation, 50th Year of 1st Heart Transplant, 2-4 December 2017, Cape Town
6. South-North dialogue, courage and innovation, 50th Year of 1st Heart Transplant, 2-4 December 2017, Cape Town
7. Integrated ECMO in TGA IVS with regressed LV: Hardware, 5th SWAC-ELSO Conference, 18-21 January 2018, New Delhi
8. Ebstein's anomaly, Live Workshop, 7-8 March 2018, Bengaluru, India

Milind Padmakar Hote

1. Heart valves—Banking, donation and transplant, 4th Fort-Mohan Training on Transplant Coordination, 14 April 2017, Gurgaon
2. Let's talk clot, 64th Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, 1-4 February 2018, Vishakhapatnam
3. Video session, 64th Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, 1-4 February 2018, Vishakhapatnam

Sachin Talwar

1. Repair of AV regurgitation in patients with single ventricle, CME of the Indian Association of Cardiovascular and Thoracic Surgeons, 20-21 May 2017, Mumbai
2. Aortic root dilatation in Conotruncal Anomalies, CME of the Indian Association of Cardiovascular and Thoracic Surgeons, 20-21 May 2017, Mumbai
3. The arterial switch operation, CME of the North Zone Chapter of the Indian Association of Cardiovascular and Thoracic Surgeons, 15 October 2017, Rohtak
4. TGA with intact ventricular septum: When is it too late, 18th Annual Meeting of the Pediatric Cardiac Society of India, 26-29 October 2017, Mumbai
5. Surgical closure of Perimembranous VSD, 69th Annual Conference of the Cardiological Society of India, 1 December 2017, Kolkata
6. Integrated ECMO in TGA IVS with regressed LV: Practice, 5th SWAC-ELSO Conference, 18-21 January 2018, New Delhi
7. Autologous and Off-Pump Fontan, 64th Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, 1-4 February 2018, Vishakhapatnam
8. Single stage correction of ventricular septal defect and Co-arcuation of Aorta, 64th Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, 1-4 February 2018, Vishakhapatnam
9. Video Session (Panelist), 64th Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, 1-4 February 2018, Vishakhapatnam
10. AIIMS Cardiac Morphology Workshop (Panelist), AIIMS Cardiac Morphology Workshop, 10-11 February 2018, AIIMS, New Delhi
11. Glenn-indications, techniques and results, CME of the North Zone Chapter of the Indian Association of Cardiovascular and Thoracic Surgeons, 3 March 2018, Chandigarh
12. Single ventricle palliation: Evaluation and management, CME at UN Mehta Institute of Cardiology, 31 March 2018, Ahmedabad

Manoj Kumar Sahu

1. Extracorporeal Membrane Oxygenation (ECMO) for heart failure, Cardiovascular Convergence-2017, 20 August 2017, AIIMS, New Delhi
2. Participated, Capacity Building and Strengthening of Hospital Infection Control to Detect and Prevent Antimicrobial Resistance in India, 7 and 8 September 2017, New Delhi
3. Participated and chaired in three of the scientific sessions, South-West Asia Chapter of Extracorporeal Life Support Organization (SWAC-ELSO)-2018, 18-21 January 2018, New Delhi

Sarvesh Pal Singh

1. Management of heart transplant, Cardiovascular Research Convergence 2017 (CRC 2017), 12 August 2017, Faridabad, Haryana
2. Enhancing patient safety: Monitoring the on-table patient in the IGT Suite, Joint Sessions of 5th Asia-Pacific Congress of Interventional Oncology, New Delhi, 25-27 August 2017, New Delhi
3. Complications of ECMO, Hands on Training Course on ECMO, 1 and 2 September 2017, Bengaluru
4. Cannulation in ECMO—Current prospects and challenges, 5th South West Asian Chapter of Extracorporeal Life Support Organization (SWAC-ELSO) Conference, New Delhi, 19-21 January 2018, New Delhi
5. Intra-aortic balloon pump, AIIMS Annual Nursing Update, 10 March 2018, New Delhi
6. The problem and its solution, Infection Control Workshop, 4 April 2018, New Delhi

Oral papers/posters presented

1. Sahu MK, Singal, Mohan A, Singh SP, Menon RP, Talwar S, Choudhary SK. Early enteral nutrition therapy in congenital cardiac repair postoperatively: A randomized controlled pilot study, 23rd Annual Conference of Indian Society of Critical Care Medicine, 3-5 February 2017, Kochi
2. Sahu MK, Siddharth B, Devagouru V, Das A, Talwar S, Choudhary SK, Airan B. Nosocomial infection: Relevance and outcome in infants undergoing open heart surgery in the present era, 7th World Congress of Pediatric Cardiology and Cardiac Surgery (WCPCCS-2017), 16-21 July 2017, Barcelona
3. Talwar S, Alam A, Choudhary SK, Airan B. Arterial switch operation beyond the 1st month of life, 7th World Congress of Pediatric Cardiology and Cardiac Surgery (WCPCCS-2017), 16-21 July, 2017, Barcelona

4. Talwar S, Das A, Sreenivas V, Choudhary SK, Airan B. Serum cortisol; levels and pleural effusions following total cavopulmonary connections, 7th World Congress of Pediatric Cardiology and Cardiac Surgery (WCPCCS-2017), 16-21 July 2017, Barcelona
5. Talwar S, Choudhary SK, Airan B. Radionuclide imaging and the Fontan operation, Annual Meeting of the Congenital Heart Surgeons Society, 22-23 October 2017, Chicago
6. Talwar S, Sankhyan L, Patel C, Choudhary SK, Airan B. Evaluation of differential pulmonary perfusion using Tc99m Macroaggregated Albumin (MAA) after Fontan procedure, 18th Annual Meeting of the Pediatric Cardiac Society of India, 26-29 October 2017, Mumbai
7. Talwar S, Anand A, Ramakrishnan S, Choudhary SK, Airan B. Early right ventricular function following pure trans-atrial versus trans-atrial-transventricular repair of tetralogy of fallot: Results of a prospective randomized study, 18th Annual Meeting of the Pediatric Cardiac Society of India, 26-29 October 2017, Mumbai
8. Talwar S, Anand A, Saxena A, Kothari SS, Juneja R, Choudhary SK, Airan B. Resection of sub-aortic membrane for discrete sub-aortic stenosis, 18th Annual Meeting of the Pediatric Cardiac Society of India, 26-29 October 2017, Mumbai
9. Talwar S, Bansal N, Saxena A, Kothari SS, Juneja R, Choudhary SK, Airan B. Results of surgical excision of supramitral ring, 18th Annual Meeting of the Pediatric Cardiac Society of India, 26-29 October 2017, Mumbai
10. Talwar S, Arora Y, Saxena A, Kothari SS, Juneja R, Choudhary SK, Airan B. Results of repair of isolated total anomalous pulmonary venous connection beyond 1st decade of life, 18th Annual Meeting of the Pediatric Cardiac Society of India, 26-29 October 2017, Mumbai
11. Talwar S, Das A, Sreenivas V, Choudhary SK, Airan B. Risk factors for persistent pleural effusions following total cavopulmonary connections, 18th Annual Meeting of the Pediatric Cardiac Society of India, 26-29 October 2017, Mumbai
12. Talwar S, Yadav M, Sahu M, Singh SP, Choudhary SK, Airan B. Vasoactive inotropic score and outcome assessment in cyanotic infants after cardiovascular surgery, 18th Annual Meeting of the Pediatric Cardiac Society of India, 26-29 October 2017, Mumbai
13. Talwar S, Sankhyan L, Patel C, Choudhary SK, Airan B. Differential pulmonary perfusion scans following total cavopulmonary connection, 64th Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, 1-4 February 2018, Vishakhapatnam
14. Talwar S, Yadav M, Choudhary SK, Airan B. Risk factors for conduit replacement following right ventricular outflow tract reconstruction, 64th Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, 1-4 February 2018, Vishakhapatnam
15. Talwar S, Mathew A, Bhoje A, Mathija N, Choudhary SK, Airan B. A complete autologous extra cardiac Fontan with a direct main pulmonary artery to inferior vena cava connection without cardiopulmonary bypass, 64th Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, 1-4 February 2018, Vishakhapatnam
16. Talwar S, Yadav M, Sreenivas V, Choudhary SK, Airan B. Pleural effusions and cortisol following total cavopulmonary connections, 64th Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, 1-4 February 2018, Vishakhapatnam
17. Talwar S, Sankhyan L, Patel C, Choudhary SK, Airan B. Evaluation of differential pulmonary perfusion using Tc99m Macroaggregated Albumin (MAA) after Fontan procedure, 64th Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, 1-4 February 2018, Vishakhapatnam
18. Talwar S, Siddarth B, Ramakrishnan S, Choudhary SK, Airan B. Trans-atrial versus trans-atrial-transventricular repair of Tetralogy of Fallot: Results of a prospective randomized study, 64th Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, 1-4 February 2018, Vishakhapatnam
19. Talwar S, Siddarth B, Gupta SK, Choudhary SK, Airan B. Results of atrial switch with pulmonary artery banding in late presenting transposition of great arteries with intact ventricular septum, 64th Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, 1-4 February 2018, Vishakhapatnam
20. Talwar S, Siddarth B, Gupta SK, Juneja R, Saxena A, Kothari SS, Choudhary SK, Kumar AS. The use of an autologous free right atrial wall as a patch for closure of atrial septal defects, 64th Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, 1-4 February 2018, Vishakhapatnam
21. Talwar S, Anand A, Saxena A, Kothari SS, Juneja R, Choudhary SK, Airan B. Resection of sub-aortic membrane, 64th Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, 1-4 February 2018, Vishakhapatnam
22. Talwar S, Bansal N, Saxena A, Kothari SS, Juneja R, Choudhary SK, Airan B. Results of surgical excision of supramitral ring, 64th Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, 1-4 February 2018, Vishakhapatnam

23. Talwar S, Arora Y, Saxena A, Kothari SS, Juneja R, Choudhary SK, Airan B. Results of repair of isolated total anomalous pulmonary venous connection beyond infancy, 64th Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, 1-4 February 2018, Vishakhapatnam
24. Talwar S, Yadav M, Sahu M, Singh SP, Choudhary SK, Airan B. Vasoactive inotropic score and outcome assessment in cyanotic infants after cardiovascular surgery, 64th Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, 1-4 February 2018, Vishakhapatnam
25. Sahu MK, Das A, Talwar S, Abraham A, Choudhary SK, Airan B. Incidence and risk factors for early post operative arrhythmias following pediatric cardiac surgery, 24th Annual Conference of Indian Society of Critical Care Medicine and 3rd Biannual Conference of Association of SAARC Critical Care, 7-9 March 2018, Varanasi

Cardiac Anaesthesiology

- 9 DM candidates including 1 sponsored and 6 other MD-Junior resident doctors from Main Anesthesia Department have undergone super specialty training in Cardiac-Thoracic-Anesthesia
- 6 MD candidates from Lady Harding Medical College and two from Kolkata were imparted short term training in the specialty of Cardiac-Anesthesia
- Short term training imparted to 4 DM candidates from Shree Chitra Tirunal Institute, Trivandrum
- 3 candidates including 2 faculties are doing PhD in the department

CMEs/Workshops/Symposia/National and International Conferences

1. 12th Quarterly Scientific Meeting Post Graduate Assembly on Sepsis in Cardiac ICU along with Dr V.A. Punnoose Young Scientist Award—7 May 2017 and General Body Meeting, Dr Ramalingaswami Board Room, AIIMS, New Delhi, India
2. SWACELSO 2018 International Conference, organized by The Simulation Society (TSS) (Theme: Bridging Excellence in ECMO+ held at India Habitat Centre, New Delhi from 18-21 January 2018
3. Women Cardiac Care (WCC) 2018, organized by SCA-Delhi and NCR Branch (Theme: Women Mental Health and Cardiac Care) held at Ramalingaswami Boardroom on 8 March, AIIMS, New Delhi

Lectures delivered

Sandeep Chauhan

1. Neonatal Perfusion Strategies, Pediatric Cardiac Society of India, 27-29 October 2017, Mumbai
2. Chaired session on Neuro Protective Strategies, Pediatric Cardiac Society of India, 27-29 October 2017, Mumbai
3. Neuro Protective Strategies during CPB, Pediatric Cardiac Society of India, 27-29 October 2017, Mumbai
4. Ventilation during CPB, Pediatric Cardiac Society of India, 27-29 October 2017, Mumbai
5. Neonatal perfusion strategies, Pediatric Cardiac Society of India, 27-29 October 2017, Mumbai
6. Pharmacology in Anaesthesia recent advances, Pediatric Cardiac Society of India, 27-29 October 2017, Mumbai
7. Blood Conservation Strategies, Pediatric Cardiac Society of India, 27-29 October 2017, Mumbai
8. Anaesthesia for pediatric heart transplant, Pediatric Cardiac Society of India, 27-29 October 2017, Mumbai
9. CPR guidelines in PCICU, Pediatric Cardiac Society of India, 27-29 October 2017, Mumbai
10. Role of TEE in the OT, Pediatric Cardiac Society of India, 27-29 October 2017, Mumbai
11. Use of autologous umbilical cord blood transfusion in neonates undergoing Cardiac Surgery, Cardiology 2018, 21-25 February 2018, Scottsdale, Arizona, USA

Neeti Makhija

1. Celite based viscometer sonoclot analysis in infants with D Transposition of great arteries undergoing arterial switch operation, 32nd Annual Congress of the European Association of Cardiovascular Anaesthesiologists (EACTS-2017), 19-24 April 2017, Berlin, Germany
2. Anesthetic concerns in valvular heart disease patients undergoing cardiac surgeries, ISA-North Zone, PG Assembly, 21 August 2017, Delhi
3. Monitoring of intravascular volume in ICU, 27th National Annual Conference of Research Society of Anesthesiology and Clinical Pharmacology 2017 (RSACPCON 2017), Organized by the Department of Anesthesiology, Critical Care and Pain Medicine, 14-17 September 2017, Kanpur, Uttar Pradesh
4. Panelist in discussion on “Prophylactic Non Invasive Ventilation (NIV), Pediatric Cardiac Society of India (PCSI) Conference 2017, 26-29 October 2017, Mumbai, Maharashtra
5. Cardiopulmonary Bypass (CPB) in Pregnancy, 21st Annual National Conference of Indian Association of Cardiovascular Thoracic Anesthesiologists, 1-4 , Hyderabad

6. Pericardial Pathologies: Is there a role for TEE?, 12th Annual Perioperative and Critical Care Transesophageal Echocardiography Workshop, 24-25 February 2018, Chandigarh
7. Aortic diseases—The underdogs of cardiovascular diseases, 12th Annual Perioperative and Critical Care Transesophageal Echocardiography Workshop, 24-25 February 2018, Chandigarh

Poonam Malhotra Kapoor

1. What is available to the anesthesiologist—The virtual world of resources, 56th Annual Conference of Indian Society of Anesthesiologists (ISACON), 8-9 April 2017, New Delhi
2. Indian scenario: Bridge for the transplantation, ECMO Conference, May 2017, Doha
3. Anaesthesia management for heart transplant, 4th FIACTA Refresher Course, 13-15 May 2017, Gujarat
4. Role of Thromboelastogram in ECMO, Annual ECMO society of India conference, 1-4 June 2017, Mumbai
5. Role of echo in ECMO, Annual ECMO Society of India Conference, 1-4 June 2017, Mumbai
6. Role of SVO2 and ScvO2 in Critical Care, National Hemodynamic (includes LVAD) workshop under the banner of Bengaluru City Branch of Indian Society of Anaesthesiologists, Indian College of Anaesthesiologists and Bengaluru Chapter of Indian Society of Critical Care Medicine in collaboration with University of Minnesota and The Simulation Society, 1 and 2 July 2017, Bengaluru
7. Simulation in Echocardiography, 12th National and 3rd International TEE Workshop, 24-26 August 2017, Bengaluru
8. ECMO simulation different scenario, 12 World Congress on Clinical Preventive Cardiology and Imaging, 30 September-1 October 2017, Amritsar
9. Should we or should we not adopt new technologies like ECMO, Goal Directed Therapy, 12 World Congress on Clinical Preventive Cardiology and Imaging, 30 September-1 October 2017, Amritsar
10. What is ECMO, 12 World Congress on Clinical Preventive Cardiology and Imaging, 30 September-1 October 2017, Amritsar
11. Hypotension on ECMO, 12 World Congress on Clinical Preventive Cardiology and Imaging, 30 September-1 October 2017, Amritsar
12. Moderated a panel discussion on “Cardiac biomarkers—Translation into clinical reality”. 12th Chennai Cardiac Anesthesia Update, 17-19 November 2017, Chennai
13. Monitoring on VA and VV ECMO patient, 5th South and West Asia Chapter of Extracorporeal Life Support Organization (SWAC ELSO), 18-21 January 2018, New Delhi
14. Anticoagulation in ECMO, 5th South and West Asia Chapter of Extracorporeal Life Support Organization (SWAC ELSO), 18-21 January 2018, New Delhi
15. Chief Moderator of “Symposium—Hematological management on ECMO with Platelet Aggregometry for bleeding management” in a workshop on “Extracorporeal therapies and ECMO”, 5th South and West Asia Chapter of Extracorporeal Life Support Organization (SWAC ELSO), 18-21 January 2018, New Delhi
16. Ambulatory cardiothoracic procedures in India, 21st Annual IACTA Conference, 1-4 February 2018, Hyderabad
17. Central venous monitoring in Cyanotics Cardiac Surgery, 21st Annual IACTA Conference, 1-4 February 2018, Hyderabad
18. When is it time to stop inotropes and start the ECMO, 21st Annual IACTA Conference, 1-4 February 2018, Hyderabad
19. Point of care testing, 21st Annual IACTA Conference, 1-4 February 2018, Hyderabad
20. Trends and comparison of female first authorship in high impact medical journal, Women Cardiac Care (WCC 2018), 8 March 2018, New Delhi
21. Moderator: Point of care biomarkers in Cardiac Intensive Care and Cath Lab Live Demonstration on POC testing machines, Women Cardiac Care (WCC 2018), 8 March 2018, New Delhi

Minati Choudhury

1. Decision making: Dealing with tricuspid valve, 2nd International and 11th National Transesophageal Echocardiography Workshop-cum-CME, 25-27 August 2017, Bengaluru
2. Mass in right atrium, dealing with renal cell carcinoma, 2nd International and 11th National Transesophageal Echocardiography Workshop-cum-CME, 25-27 August 2017, Bengaluru
3. New Intracardiac Mass in Right Atrium, 2nd International and 11th National Transesophageal Echocardiography Workshop-cum-CME, 25-27 August 2017, Bengaluru
4. Iatrogenic Aortic Dissection, 2nd International and 11th National Transesophageal Echocardiography Workshop-cum-CME, 25-27 August 2017, Bengaluru

5. PA catheter insertion technique and interpretation, Annual Conference of Indian College of Anesthesiologist, 27-29 October 2017, Varanasi
6. Echo and hemodynamic interpretation, case based discussion, Annual Conference of Indian College of Anesthesiologist, 27-29 October 2017, Varanasi
7. CPB during pregnancy, Annual Conference of Indian College of Anesthesiologist, 27-29 October 2017, Varanasi
8. Extended CPB, when ECMO is not available, IACTACON, 2017, 1-4 February 2018, Hyderabad
9. Echo for chronic pulmonary thromboembolism, 12th Annual Perioperative and Critical Care Transesophageal Echocardiography Workshop, 23-25 February 2018, Chandigarh
10. Delirium in post cardiac surgical patients, 10th SCA and WCC Annual Conference, 8 March 2018, AIIMS, New Delhi

Sambhunath Das

1. Anaesthetic implications for on pump and off pump CABG, Indian Society of Anaesthesiologists—PG Assembly 2017—North Zone ISA, 21-27 September 2017, New Delhi
2. OPCAB: High risk patient *Anesthetic Challenges*, 21st Annual Conference of IACTA, 1-4 February, 2018, Hyderabad
3. Echocardiography for aortic valve and aorta, 12th Annual Perioperative and Critical Care Echocardiography Workshop, 23-25 February 2018, Chandigarh

Vishwas Malik

1. Hybrid Procedures, 21st Annual Conference of IACTA, 1-4 February 2018, Hyderabad
2. Minimally Invasive Cardiac Surgery, 12th Chennai Cardiac Anesthesia Update, 17-19 November 2017, Chennai

Suruchi Hasija

1. Device associated infections, World Hand Hygiene Day Celebration, 5 April 2017, New Delhi

Arindam Choudhury

1. Bradycardia and Tachyarrhythmia management, AED and defibrillators, AHA Accredited BLS/ACLS Provider Course under AIIMS-ITC, 24-25 April 2017, New Delhi
2. Tachycardia management, AED and defibrillators, AHA accredited BLS/ACLS Provider Course under AIIMS-ITC, 24-25 July 2017, New Delhi
3. Arterial cannulations and haemodynamic monitoring, ICACON 2017 Pre-Conference Workshop, 25 October 2017, Varanasi
4. Airway maintenance and ventilation in ECMO, SWAC-ELSO 5th Annual Conference, 20 January 2018, New Delhi

Oral papers/posters presented

1. Magoon R, Kapoor PM, Malik V, Taneja S, Das S, Kumar U, et al. Effect of goal directed therapy on postoperative neutrophil gelatinase-associated lipocalin profile in patients undergoing on pump coronary artery surgery, CME in Cardiac Anesthesia, 7 May 2017, New Delhi (**Best Paper Award**)
2. Hasija S, Talwar S, Makhija N, Chauhan S, Malhotra P, Bhardwaj V, et al. Safety and efficacy trial of bivalirudin anticoagulation in acyanotic children undergoing open heart surgery, 12th Quarterly Scientific Meeting of the Society of Cardiac Anaesthesiologists-Delhi and NCR Branch, 7 May 2017, AIIMS, New Delhi
3. Hasija S, Talwar S, Makhija N, Chauhan S, Malhotra P, Bhardwaj V, et al. Safety and efficacy trial of bivalirudin anticoagulation in acyanotic children undergoing open heart surgery, Euroanaesthesia 2017, 3-5 June 2017, Geneva, Switzerland
4. Choudhury M, Singh U, Hote M. Comparison of the effect of Etomidate and Thiopentone on left ventricular strain and strain rate at the time of anesthesia induction in patients undergoing elective coronary artery bypass grafting: A randomized double blind controlled trial comparison of the effect of Etomidate and Thiopentone on left ventricular strain and strain rate at the time of anaesthesia induction in patients undergoing elective coronary artery bypass grafting, ASA-NSC, Perth, 6-19 October 2017, Perth
5. Choudhury M, Aggarwal S, Devagourou V, Sahu MK. Effect of intraoperative diuretic therapy affect the thoracic fluid content and clinical outcome in patients undergoing Double Valve Replacement Surgery? A Randomized Double Blind Study, ICACON 2017, 27-29 October 2017, Varanasi
6. Choudhury M, Sreedhar N, Seth S. Anesthesia concerns in a post cardiac transplant patient undergoing Non Cardiac Surgery, ICACON 2017, 27-29 October 2017, Varanasi
7. Singh U, Choudhury M, Rajasekhar P, Choudhury A, Makhija N. Role of dexmedetomidine in postoperative arrhythmia prevention in patients with rheumatic heart disease undergoing valve replacement surgery: A randomized double blind controlled study, ICACON 2017, 27-29 October 2017, Varanasi

8. Hasija S, Iprachi K, Choudhury UK. Severe aortic stenosis in a young male: An unusual case, Clinical Combined Round, 23 January 2018, New Delhi
9. Dhawan I, Ladha S, Choudhury M, Devagourou V. Submitral aneurysm—What Echo can suggest? 12th Annual Perioperative and Critical Care Transesophageal Echocardiography Workshop, 23-25 February 2018, Chandigarh

Cardiac Biochemistry

Guided 3 PhD students as chief guide and 5 as co-guide; Chief guide for one MD student; Co-guide for 10 MD thesis projects; MD biochemistry students posted in the department for 10 days; Took guest lecture for students of MSc (Forensic Science) of LNJNI National Institute of Criminology and Forensic Science, New Delhi; Took a class on markers of ischemic heart disease for undergraduate students.

Lectures delivered

R. Lakshmy

1. Oxidative stress, telomere shortening and cardiovascular diseases, 16th Annual Meeting of Society of Free Radical Research in India, 20 February 2018, Delhi

Oral papers/posters presented

1. Tembhre MK, Parihar AS, Sharma VK. Interleukin-33 exacerbates inflammation in psoriasis by inducing Neutrophil Extracellular Trap (NET) formation in psoriasis, DERMACON-2018, 18-21 January 2018, Kochi, Kerala (**Best Paper award and honored with 'Book Award' of the session**)

Cardiac Nuclear Medicine

Thirty-eight postgraduate students: 38 (20 MD Nuclear Medicine students and 18 MSc Nuclear Medicine Technology students on rotational basis in Nuclear Cardiology); 'On site' teaching of MD students while reporting clinical studies.

Lectures delivered

1. Debate: Ideal imaging technique to assess myocardial viability: Nuclear or MRI? 15th Annual Association of Nuclear Medicine Physicians of India National Conference, 10-11 November 2017, Bengaluru
2. Presentation of data of research project titled "Value of intraventricular synchronism assessment by gated-SPECT MPI in the management of HF patients submitted to CRT", 3rd Research Co-ordination Meeting, 13-17 November 2017, Vienna, Austria
3. FDG PET-CT for assessing myocardial viability: How does it fare against other options? CME on Nuclear Cardiology in Clinical Practice, 4 February 2018, Kolkata

Oral papers/poster presented

1. Patel C, Mukherjee A, Roy A, Naik N, Sharma G. Correlation between Tc-99m MIBI MPS and Equilibrium Radionuclide Angiography in assessment of LV dyssynchrony, 12th Asia Oceania Congress of Nuclear Medicine and Biology, 5-7 October 2017, Yokohama, Japan
2. Talwar S, Sankhyana L, Patel C, Sreenivas V, Choudhary SK, Airan B. Evaluation of differential pulmonary perfusion using Tc99m-MAA after Fontan Procedure, 18th Annual Conference of Pediatric Cardiac Society of India, 27-28 October 2017, Mumbai
3. Dheer P, Gupta P, Passah A, Taywade S, Pandey AK, Patel CD. Optimization of reconstruction parameters in OSEM and comparison with FBP reconstructed images in Tc-99m MIBI MPS in Indian population, 49th Annual Conference of Society of Nuclear Medicine, 14-17 December 2017, New Delhi
4. Goyal H, Tripathi M, Goyal V, Sharma A, Patel CD, Bal C. Semi-quantitative striatal-to-occipital ratios on L-3,4-dihydroxy-6-F-18 fluorophenylalanine brain positron emission tomography in idiopathic Parkinson's Disease, 49th Annual Conference of Society of Nuclear Medicine, 14-17 December 2017, New Delhi
5. Sharma A, Pandey AK, Mohan A, Bhalla AS, Sreenivas V, Sharma MC, et al. Role of texture parameters evaluated from baseline 18F-fluorodeoxyglucose positron emission tomography/computed tomography images in prediction of treatment response of non-small cell lung cancer, 49th Annual Conference of Society of Nuclear Medicine, 14-17 December 2017, New Delhi
6. Bisht CS, Pandey AK, Sharma A, Patel C, Bal CS, Kumar R. Role of two-dimensional Gaussian filter in image noise removal, 49th Annual Conference of Society of Nuclear Medicine, 14-17 December 2017, New Delhi
7. Yadav U, Pandey AK, Kumar R, Patel CD. Single photon emission computed tomography image reconstruction by development and validation of filtered back projection algorithm for research purposes, 49th Annual Conference of Society of Nuclear Medicine, 14-17 December 2017, New Delhi

Cardiac Pathology

Lectures delivered

Sudheer Kumar

1. CPC case discussion, AIIMS. PULMOCRIT, 15-16 April 2017, New Delhi
2. Poster presentation, International Conference of Renal and Pulmonary Pathology, 24-26 August 2017, Sri Lanka
3. CAV, Annual Conference of ISOT, 13-15 October 2017, Madhya Pradesh
4. Interesting case discussion, DSI Annual Conference, 1-3 December 2017, Pondicherry
5. Case based discussion, ISHR 2018, 16-18 February 2018, Chandigarh
6. EMB, Cardiovascular Pathology Update 2018, 10-12 March 2018, Trivandrum, Kerala

Ruma Ray

1. Moderator, Interesting case based discussion of cardiac cases, ISHR 2018, 16-18 February 2018, Chandigarh

Cardiac Radiology

Teaching

Extra-departmental

1. **Undergraduates:** Lectures on basics of cardiovascular imaging and vascular interventions
2. **Postgraduates:** Cardiac Radiology quiz, moderating seminars in departments of allied specialties viz. Medicine, Surgery, Gastroenterology, Cardiology and Cardiothoracic Surgery
3. Clinico-Radiology Meetings with Department of Cardiology and CTVS
4. Participation in Clinical Combined Rounds and Clinical Grand Rounds with Allied specialties

Intra-departmental

1. Daily case presentations
2. Weekly journal clubs and seminars

Training

Training of junior and senior radiology residents, senior residents in Cardiology, CTVS and Cardiac Anaesthesia, and external observers in techniques of cardiovascular imaging and vascular interventions.

CMEs/Workshops/Symposia/National and International Conferences

Organized by the department

1. International conference: 5th Asia-Pacific Congress of Interventional Oncology, 25-27 August 2017, Delhi.
2. CME: Non-Invasive Imaging in Acute Chest Pain, Followed by Case-Scenario Based Discussions, 20 January 2018, Delhi

Lectures delivered

Sanjiv Sharma

1. Endovascular management of visceral aneurysms and GI bleeding, Annual Meeting of Mongolia Society of Interventional Forum 2017, 19-20 May 2017, Mongolia
2. Endovascular repair of Type B dissection, Cell based therapies in PVD, Annual Meeting of Chinese Society of Interventional Radiology, 15-18 June 2017, China
3. Renovascular hypertension: From diagnosis to management, Midterm CME, 14 October 2017, Guwahati
4. Radiographic evaluation, Congenital Heart Diseases in Midterm CME, 14 October 2017, Guwahati
5. Cardiac imaging, 7th Training Seminar Imaging Diagnosis of Cardiovascular Pathologies, 3-4 November 2017, Mongolia
6. Acute Aortic Syndrome—Current concepts of management, Society for Emergency Radiology CME 2017, 11 November 2017, Hyderabad
7. Establishing interventional radiology in emerging world countries—Issues, challenges and successes, Asia Pacific Congress of Cardiovascular and Interventional Radiology, 8-11 March 2018, New Zealand

Gurpreet Singh Gulati

1. ICMR in heart failure, Cardiovascular Research Convergence, 20 August 2017, Delhi
2. Techniques in Cardiovascular Imaging, 7th AIIMS-MAMC-PGI Course, 3 November 2017, Delhi

3. Imaging in ischemic heart disease, 7th AIIMS-MAMC-PGI Course, 3 November 2017, Delhi
4. Imaging in ischemic heart disease, CME by our department under auspices of the Society for Image Guided Therapies, 20 January 2018, Delhi
5. Update on cardiac MRI, Annual Meeting of IRIA and AOCR, 27 January 2018, Delhi
6. Anatomy of the normal heart on CT/MRI, AIIMS Cardiac Morphology Workshop, 10 February 2018, Delhi

Priya Jagia

1. Diagnosis and management of Type B dissection, APCIO 2017 Asia Pacific Congress of Interventional Oncology, 24-27 August 2017, Delhi
2. Current evidence based clinical practice guidelines for treatment of non-atherosclerotic renal artery stenosis and occlusion, APCIO 2017 Asia Pacific Congress of Interventional Oncology, 24-27 August 2017, Delhi
3. Merits and demerits of triple rule-out CTA in Acute Chest Pain, APCIO 2017 Asia Pacific Congress of Interventional Oncology, 24-27 August 2017, Delhi
4. Setting up and laying foundation Emergency Radiology Practice, APCIO 2017 Asia Pacific Congress of Interventional Oncology, 24-27 August 2017, Delhi
5. When to do Coronary CTA, 12th WCCPCI (World Congress on Clinical, Preventive Cardiology and Imaging), 30 September-1 October 2017, Amritsar
6. Imaging in HF, CVT Carotid India Course, September 2017, Delhi
7. Chest x-ray in cardiac disease, Resident CME, 28 October 2017, Jodhpur
8. Imaging in cardiomyopathy, AIIMS MAMC PGI Course, 3 November 2017, Delhi
9. Ideal candidates for coronary CT angiography, Annual Meeting of Cardiology Society of India CSI, 30 November 2017 Kolkata
10. Acute aortic imaging on CT—Diagnosis and case selection for intervention, Resident CME by Society of Image Guided Therapy, 20 January 2018, Delhi
11. Acute aortic imaging on CT—Diagnosis and case selection for intervention, Delhi Imaging Update, 24 February 2018, Delhi

Sanjeev Kumar

1. Treatment strategies in acute thoracic aortic injuries, Pre Congress Workshop-APCIO 2017, 24 August 2017, Colombo, Sri Lanka
2. Workshop on thoracic endovascular aortic repair, Joint Sessions-2017 Annual Aorta and Endovascular Course, 26 August 2017, Colombo, Sri Lanka
3. Evolving trends in endovascular management of osteoarthritis, Joint Sessions-2017 Annual Aorta and Endovascular Course, 27 August 2017, Colombo, Sri Lanka
4. MRI IN heart failure, 1st Arrhythmia and Atrial Fibrillation Symposium, 3 September 2017, New Delhi
5. Imaging in aortic dissection, Telerad Sol-Radguru Webinar, 27 October 17, New Delhi
6. Imaging approach in congenital heart diseases, AIIMS-MAMC-PGI Series, 3 November 2017, New Delhi
7. Diagnosis and endovascular management in PE, AIIMS Symposium on Acute Chest Pain, 20 January 2018, New Delhi
8. Demonstration of cases in thoracic aortic aneurysm endovascular repair, 20th Annual Conference of ISVIR, 13 February 2018, New Delhi
9. Follow up imaging after TEVAR, 20th Annual Conference of ISVIR, 13 February 2018, New Delhi
10. Moderated session on endovascular repair of thoracic aortic diseases-advances, 20th Annual Conference of ISVIR, 13 February 2018, New Delhi
11. Chest radiograph and CT in congenital heart disease, RICON-UK—IRIA, 24 March 2018, Uttarakhand
12. Pulmonary vascularity on chest radiograph, RICON-UK—IRIA, 25 March 2018, Uttarakhand

Oral papers/posters presented

1. Aggarwal A, Gupta SK, Gulati G, Ramakrishnan S, Saxena A, Kothari SS, et al. Morphoanatomy of Common Arterial Trunk—A computed tomographic study, 7th World Congress of Pediatric Cardiology and Cardiac Surgery, 16-21 July 2017, Barcelona
2. Gupta SK, Ramakrishnan S, Joseph J, Gulati G, Saxena A, Jagia P, et al. Hemoptysis in Eisenmenger Syndrome—A computed tomography angiographic study, 7th World Congress of Pediatric Cardiology and Cardiac Surgery, 16-21 July 2017, Barcelona

3. Jagia P, Sharma S, et al. Use of amplatzer vascular plugs in patients with Congenital Heart Disease (CHD), Cardiovascular and Interventional Radiological Society of Europe CIRSE 2017, 17 September 2017, Copenhagen
4. Jagia P. Carotid occlusion during thoracic aortic stentgraft placement, Cardiovascular and Interventional Radiological Society of Europe CIRSE 2017, 16-20 September 2017, Copenhagen
5. Sharma S. Therapeutic angiogenesis in critical limb ischemia, Annual Meeting of Society of Interventional Radiology, 17-22 March 2018, Los Angeles, USA (**Abstract of the year award**)

Stem Cell Facility

The department participates in PhD (16 students), DM and MD (7 students) programs. Two students each were given short and long term training.

CMEs/Workshops/Symposia/National and International Conferences

Workshop: In vivo Imaging for Preclinical Research jointly organized by Stem Cell Facility (DBT-Centre of Excellence for Stem Cell Research and Perkin Elmer India Pvt. Ltd. at Central Animal Facility, AIIMS, New Delhi on 5 September 2017.

Lectures delivered

1. Stem cells and eye disorder: Vision for the future, 24th Annual Meeting of Indian Eye Research Group ARVO-India, 30 July 2017, Tamil Nadu
2. How to start up car-T cells facility, Symposia on CAR T Cells and Their Therapeutic Potential, 26 August 2017, AIIMS, New Delhi
3. Stem cells: Role in immune regulation, CME in Immunology-Clinician-Scientist Interaction Flow Cytometry Workshop on Stem Cells, 11 September 2017, Chandigarh
4. Tutorial on isolation, Characterization and Culture of Hematopoietic Stem Cells (HSC) from Bone Marrow, CME in Immunology-Clinician-Scientist Interaction Flow Cytometry Workshop on Stem Cells, 12 September 2017, Chandigarh
5. Wet workshop on HSC, CME in Immunology-Clinician-Scientist Interaction Flow Cytometry Workshop on Stem Cells, 12 September 2017, Chandigarh
6. Scope of Stem Cell Therapy and Gene Therapy, A Discussion Meeting on Gene Therapy for Curing Rare Genetic Disorders, 16 September 2017, New Delhi
7. Stem cell in human health: Present scenario and future prospects, Society of Biological Chemist of India, 16 November 2017, JNU, New Delhi
8. Stem Cell Research, 86th Conference of Society of Biological Chemists Emerging Discoveries in Health and Agricultural Sciences, 18 November 2017, New Delhi
9. Lecture series, Lecture for DM students (Cardiac), 27 November 2017, AIIMS, New Delhi
10. Stem cell and regenerative medicine: Present scenario and future prospects, 44th Annual Conference of the Indian Immunology Society (IIS), 14 December 2017, Ahmedabad
11. Stem cell and hypoxia: Current concepts, Current Trends in Hypoxia Research, 29 January 2018, IIT, New Delhi
12. Stem cell and GNE myopathy: Current prospects, Perspectives in GNE Myopathy: Research, Clinical Management and Patient Care, 16 February 2018, INSA, New Delhi

Oral Papers/Posters Presented

1. Rawat S, Gupta S, Sharma R, Kanga U, Mohanty S, Airan B. In search of potential immunomodulatory biomarker: Comparison of tissue specific MSCs, 44th Annual Conference of IIS, Immunocon 2017, 14-16 December 2017, Ahmedabad
2. Gupta S, Rawat S, Sharma R, Nayak B, Mohanty S. Optimization of culture condition for exosome isolation from tissue specific mesenchymal stem cells, 44th Annual Conference of IIS, Immunocon 2017, 14-16 December 2017, Ahmedabad
3. Singh M, Rawat S, Balendran S, Dinda AK, Vaishnav PK, Mohanty S. Activation of liver X receptors α and β by 22(R)-hydroxycholesterol leads to generation of dopaminergic neuronal cells from human mesenchymal stem cells, 27th Annual Conference of Asian Pacific Association for the Study of Liver (APASL), 14-18 March 2018, Delhi
4. Dalela M, Jain KG, Debnath D, Kalluri A, Patra PK, Chatterjee K, et al. Insight into the different forms of graphene in PCL scaffolds: A physiochemical study, 27th Annual Conference of Asian Pacific Association for the Study of Liver (APASL), 14-18 March 2018, Delhi
5. Rawat S, Gupta S, Vig S, Sharma R, Lakshmi PV, Mohanty S. Mesenchymal stem cell dependent modulation of induced oxidative damaged hepatocytes, 27th Annual Conference of APASL Annual Meeting 2018, 14-18 March 2018, Delhi

- Gupta S, Rawat S, Vig S, Mohanty S. Exosome derived from human mesenchymal stem cells alleviate liver injury through proliferation of damaged hepatocytes, Annual Conference of APASL Annual Meeting 2018, 14-18 March 2018, Delhi
- Midha S, Kaur A, Kaushik N, Mohanty S. 3D Bioprinted liver tissue constructs for patient-specific implants and drug testing, 27th Annual Conference of APASL Annual Meeting 2018, 14-18 March 2018, Delhi

Blood Transfusion Services

Lectures delivered

Anjali Hazarika

- Equipment maintenance and use, Ongoing Programme of Training of Trainers in Strengthening of Blood Services by NIB and NHM, GOI, 20-27 July 2017, 13 October 2017-24 March 2018, NIB, NOIDA
- Blood management in transfusion services of a cardiothoracic centre, Transmedcon 2017 by ISTM (Indian Society of Transfusion Medicine), 2 November 2017, Lucknow
- Infection control strategies in blood bank, Workshop on Quality Care and Infection Prevention Strategies, under Swachhta Action Plan, by Department of Neurosciences, AIIMS, 14 March 2018, AIIMS, New Delhi

Oral papers/Posters presented

- Khan AK, Patidar G, Hazarika A. Donor notification-improve response rate by new method of registration, Transmedcon 2017, 3 November 2017, Lucknow
- Khan AK, Patidar G, Hazarika A. Management of blood products for heart transplant recipients at a tertiary care hospital, Transmedcon 2017, 3 November 2017, Lucknow

RESEARCH

Cardiology

Funded projects

Ongoing

- To study the prevalence of rheumatic heart disease among adults 18-25 years age group in Ballabgarh block of Haryana using echocardiography with doppler, Anita Saxena, DHR, 3 years, 2016-2019, Rs 38.85 lakhs
- Study of biomarkers in acute heart failure, S Seth, DHR, 3 years, 2017-2020, Rs 80 lakhs
- TEXTMEDS—TEXT Messages to Improve MEDication Adherence and Secondary prevention—An international randomized trial, G Karthikeyan, National Health and Medical Research Council (NHMRC), Australia, 2 years, 2015-2017, AUD 30,000
- INVICTUS (*IN*vestigation of rheumatiC AF Treatment Using vitamin K antagonists, rivaroxaban or aspirin Studies), G Karthikeyan, Population Health Research Institute, Canada, 4 years, 2016-2020, Rs 16.7 crores
- Surgery compared to fibrinolytic therapy for left-sided valve thrombosis (SAFE-PVT), G Karthikeyan, Indian Council of Medical Research, 2 years, 2017-2019, Rs 69 lakhs
- Endothelial function in acute rheumatic fever, S Ramakrishnan, ICMR, 3 years, 2014-2018, Rs 55 lakhs

Departmental projects

Ongoing

- Fibrillin gene mutation and markers of inflammation in RSOV
- Streptococcal PCR in valve tissues of RHD
- Determining Qp in infants with TGA
- Determinants of delay in STEMI presentation—A qualitative analysis
- Worsening of PAH with lung infection in infants with VSD

Completed

- Does high dose statin therapy cause memory impairment?
- Pericardial diseases in children: An observational study
- FOCUS ultrasound: Development of protocol to teach FOCUS ultrasound to intensivists.
- Incidence and predictors of left ventricular dysfunction in patients with right ventricular pacing
- Efficacy of Flecainide for management of rheumatic atrial fibrillation
- Prevalence of cardiac involvement in patients of known Primary Sarcoidosis

7. Use of lung ultrasound in congenital heart disease
8. Clinical and angiographic profile and six months outcomes of smoker's patients of ST elevation myocardial infarction patients undergoing primary PCI
9. Clinical and morpho-anatomic study of common arterial trunk

Collaborative projects

Ongoing

1. Ischemia trial, NIH
2. Stanford India Biodesign (SIB) Programme and the SIB Centre, Department of Bio-Technology, Government of India, and Stanford University, USA
3. G-CHF (Global Congestive Heart Failure) Registry, A large multinational registry of heart failure patients
4. IVVE Trial (Influenza Vaccine to Prevent Adverse Vascular Events), A trial to study role of influenza vaccine in preventing cardiovascular events in patients of heart failure
5. Population prevalence of Vitamin D deficiency in Urban and Rural Delhi and its Association with cardiovascular disease risk factors, Department of Health Research, Government of India
6. Assessment of HDL quality in healthy adult Indians and impact of high altitude, Defense Institute of Physiology and Allied Sciences
7. Yoga-CaRe trial, Effects of a yoga-based cardiac rehabilitation programme (Yoga-CaRe) on cardiovascular health: A clinical trial (India) and mechanistic study (UK), A ICMR-MRC (UK) funded trial
8. Childhood and young adult predictors of myocardial structure and function at age 45 years in the New Delhi and Vellore Birth Cohorts, India, A British heart foundation funded study

Cardiothoracic and Vascular Surgery

Funded projects

Ongoing

1. Evaluation of safety and efficacy of BACE (Basal Annuloplasty of Cardia Externally) Device in the treatment of functional Mitral Valve Regurgitation (FMR), SK Choudhary, Phoenix Cardiac Devices Pvt Ltd, 3 years, 2015-2018, Rs 30 lakhs
2. Effect of Vitamin D supplementation on post operative surgical outcomes in children with cyanotic congenital heart disease undergoing open heart surgery: A randomized control trial, Manoj Kumar Sahu, AIIMS, 1.5 years, 2018-2019, Rs 2.25 lakhs

Departmental projects

1. Outcome of cardiac ECMO in children undergoing corrective cardiac surgery
2. Outcomes of heart transplantation in India: A single centre study
3. Delayed sternal closure in pediatric cardiac surgical patients
4. A prospective comparison of pulmonary functions before and after surgery in mitral stenosis
5. Arterial switch in patients beyond neonatal period
6. 2-Long term outcomes of patients with discrete subaortic stenosis
7. 3-Risk factors for prolonged pleural drainage after Fontan
8. Pathological changes in aorta and pulmonary artery in patients with dextro transposition of great arteries undergoing arterial switch operation: A prospective study
9. Vasoactive inotropic score and outcome assessment in cyanotic infants after cardiovascular surgery
10. Off pump versus on pump Glenn
11. Determining risk factors for early outcomes following bidirectional Glenn
12. Pericardial patch versus PTFE patch for RVOT reconstruction
13. Trans RA versus Trans RA-RV repair of TOF
14. Repair of AP window beyond infancy
15. Perfusion scans in various types of TCPC
16. Randomized trial of Custadiol versus del Nido cardioplegia
17. Outcomes of patients undergoing primary fontan operation after first decade of life
18. Bidirectional Superior Cavopulmonary anastomosis with or without cardiopulmonary bypass: A randomized study

19. Outcomes of patients undergoing primary Fontan operation beyond first decade of life
20. Arterial switch operation in patients with transposition and left-sided aorta
21. Mid-term results of correction of tetralogy of fallot with absent pulmonary valve
22. Comparison of pleural effusion between fenestrated and non-fenestrated Fontan—A prospective randomized study
23. Total anomalous pulmonary venous connection beyond 1st decade of life
24. Non-invasive assessment of hepatic fibrosis using Fibroscan in children undergoing Fontan Procedure
25. The impact of modified ultrafiltration on post-operative course in patients undergoing surgery for congenital heart defects: Double blinded randomized controlled trial
26. Atrial septal defect closure using the autologous right atrial wall patch: Two decades of experience
27. Predictors of IABP insertion in different spectrum of patients undergoing coronary artery bypass grafting—A prospective observational study
28. Comparison of plasmalyte—A based Delnido cardioplegia solution with Ringer lactate based Delnido cardioplegia solution in pediatric patients undergoing open heart surgeries: A prospective randomized controlled trial
29. Oral sildenafil administration in patients undergoing extracardiac fontan Procedure—A double blind randomized study
30. *Long term results of Supra-mitral ring excision: A retrospective study*
31. Study of plaque biology in CAD patients, Collaborative project with Cardiology and Institute of Genomics and Integrated Biology
32. Study of proteomics in rheumatic mitral valve tissue in patients undergoing mitral valve replacement
33. Study in patients with severe LV dysfunction undergoing CABG
34. Effect of extract of Terminalia Arjuna in experimental hypertension
35. Evaluation of incidence, risk factors and management protocols for early postoperative arrhythmias after pediatric cardiac surgery: An observatory cross sectional study

Cardiac Anaesthesiology

Funded projects

Ongoing

1. A single blind randomized controlled study to evaluate the effect of Rajyoga Meditation on biochemical and cognitive co-relates of cardiac rehabilitation in patients of surgical repair of congenital heart disease, Usha Kiran, DST, 2 years, 2017-2019, Rs 23,37,926/-
2. Effect of induction with etomidate, thiopentone or ketamine on hemodynamic responses in patients with left ventricular dysfunction due to coronary artery disease undergoing coronary artery bypass graft surgery, Arindam Choudhury, AIIMS, 3 years, 2014-2017, Rs 4.5 lakhs

Completed

1. Comparison of the effects of desflurane-fentanyl and midazolam-fentanyl anaesthesia on cardiac and neurological biomarkers after valvular heart surgery, Poonam Malhotra Kapoor, ICMR, 3 years, 2014-2017, Rs 18 lakhs
2. Comparison of bivalirudin to heparin with protamine reversal in acyanotic children undergoing open heart surgery, Suruchi Hasija, AIIMS, 3 years, 2014-2017, Rs 2.5 lakhs (for 2016-2017)
3. Clinical efficacy and safety of Perioperative Dexmedetomidine therapy in patients undergoing valvular heart surgeries—A randomized control trial, Sambhunath Das, AIIMS, 2 years, 2016-2018, Rs 5 lakhs
4. Correlation of TEE derived diastolic strain and tissue doppler indices with PA catheter measured LV filling pressures in patients with preserved ejection fraction undergoing cabg, Vishwas Malik, AIIMS, 2 years, 2016-2018, Rs 5 lakhs

Departmental projects

Ongoing

1. Comparison of Tricuspid Annular Plane Systolic Excursion (TAPSE) with modified TAPSE in coronary artery bypass patients
2. Osteoponin, RV function and clinical outcome in tetralogy of Fallots
3. Dexmedetomidine induction and Ventricular function by speckle tracking echocardiography
4. Correlation between thoracic fluid content, total leukocyte count and C-reactive protein in pediatric cardiac surgery
5. Induction effects of anesthetic agents on ventricular function of congenital heart disease children by speckle tracking echocardiography

6. Effect of intraoperative red cell volume reduction on cardiopulmonary bypass in cyanotic heart disease patients with high hematocrit
7. Anxiety and stress in children and parents undergoing congenital heart surgery
8. Comparison of Tricuspid Annular Plane Systolic Excursion (TAPSE) with modified TAPSE in coronary artery bypass patients
9. Comparison of RVOT gradient in different echocardiographic views in patients with Tetralogy of Fallot undergoing surgery
10. Role of echocardiography derived right ventricular function parameters as compared to PRV/LV ratio for evaluation of perioperative right ventricular function in children undergoing intracardiac repair for Tetralogy of Fallot
11. Point of care testing in Cyanotic Cardiac Surgery
12. The role of noninvasive cerebral oximetry with NIRS in predicting neuro-cognitive outcomes after open heart surgery in infant

Completed

1. Comparative evaluation of the three point-of-care testing devices; Thromboelastograph (TEG), Rotational Thromboelastometer (ROTEM) and Sonoclot analyzer in cyanotic congenital cardiac surgery: A correlation with routine laboratory tests and postoperative bleeding
2. Retrograde autologous priming of cardiopulmonary bypass circuit in adults: Comparison of venous and arterial routes
3. Changes in Bispectral Index (BIS) value during cardiopulmonary bypass—An observational study
4. Effect of variation in arterial carbon dioxide levels on cerebral-somatic oxygenation in children with cyanotic heart disease
5. Comparison of grading of aortic stenosis between pre-induction trans-thoracic and post-induction trans-esophageal echocardiography in adult patients posted for elective aortic valve replacement surgeries—A prospective observational study

Collaborative projects

Ongoing

1. Comparison of Delnido versus custodial cardioplegia solution in patients undergoing intracardiac repair, CTVS

Cardiac Biochemistry

Funded projects

Ongoing

1. Proposal for engagement of All India Institute for Medical Sciences to serve as QC lab for comprehensive national nutrition survey, R. Lakshmy, UNICEF, 2 years, 2016-2018, Rs 98 lakhs
2. To study the association of tetrahydrobiopterin (BH4) levels in Endothelial Progenitor Cell (EPC) with the functional activity of EPC in Coronary Artery Disease (CAD) patients, R. Lakshmy, ICMR, 2 years, 2017-2019, Rs 39 lakhs
3. Health survey of tribal population in Kashmir Valley with special reference to magnitude and risk factors of non communicable diseases, R. Lakshmy, DBT, 2 years, 2016-2018, Rs 171 lakhs
4. Double blind randomized control trial to study the effects of probiotic supplement, bacillus coagulans unique is 2 and bacillus clausii on protein absorption, body composition, muscular strength, and immunity in resistance trained adult males, R. Lakshmy, Unique Biotech, 20 months, 2016-2018, Rs 37 lakhs
5. Childhood and young adult predictors of myocardial structure and function at age 45 in the New Delhi birth cohort and Vellore birth cohorts, India: Biochemical component Delhi, R Lakshmy (Biochemical Investigator), BHF, 3 years, 2016-2019, Rs 20 lakhs
6. Deciphering the mechanism of alarmin induced necroptosis and its role in immune homeostasis and inflammation in atherosclerosis, Manoj K. Tembhre, DST-SERB (Early career research grant award), 3 years, 2017-2020, Rs 50 lakhs
7. Defining the role of Neutrophil Extracellular Traps (NETs) in immune regulation and inflammation, Manoj K. Tembhre, AIIMS, 2 years, 2017-2019, Rs 8.5 lakhs

Completed

1. Piloting of the national survey for monitoring the national non communicable disease targets, R. Lakshmy, WHO, 6 months, 2016, Rs 15.60 lakhs
2. Study of association of tetrahydrobiopterin (BH4) levels in Endothelial Progenitor Cell (EPC) with EPC number in CAD patients, R. Lakshmy, AIIMS, 2 years, 2015-2017, Rs 10 lakhs

Departmental projects

Ongoing

1. Study of Endothelial Progenitor Cell (EPC) tetrahydrobiopterin (BH4) levels and its association with EPC number and function in Coronary Artery Disease (CAD) patients
2. Optimizing blood inventory in a blood bank at a super-speciality centre in India
3. Outcome of leuco-reduced and non leuco-reduced blood components transfused in patients undergoing cardiac surgery

Collaborative projects

Ongoing

1. Prevalence of Non-Alcoholic Fatty Liver Disease (NAFLD) and its association with cardio-metabolic disease risk factors in North India, Endocrinology
2. Population prevalence of Vitamin-D deficiency in urban and rural Delhi and its association with cardiovascular disease risk factor, Cardiology
3. A single blinded randomized control study to evaluate the effect of Rajyoga Meditation on biochemical and cognitive correlates of cardiac rehabilitation in patients of surgical repair for congenital heart disease, Cardiac Anesthesia
4. The modulation of insulin resistance and HDL quality by adipose tissue ABCA1 and metabolic status, Biochemistry
5. Impact of supplementation of package of Iron and Folic Acid (IFA) with Vitamin B12 on Hemoglobin Levels amongst Adolescent Gills (12-19 years), Human Nutrition Unit
6. Study of prevalence of overweight, obesity and pediatric metabolic syndrome and associated risk factors in children in the age group of 10-16 years belonging to HIG in district Shimla, Himachal Pradesh, Human Nutrition Unit
7. Assessment of nutritional, morbidity status and utilization of health care facilities in the elderly population aged 60 years and above, ICMR funded, Human Nutrition Unit
8. Assessment of prevalence of Vitamin D deficiency and associated factors amongst children in the age group of 6-18 years from three high altitude regions (1000 meters and above) of Himachal Pradesh, India, Human Nutrition Unit
9. Association of Vitamin D and Calcium with development of breast cancer: A case control study, Human Nutrition Unit
10. National NCD's Monitoring Survey, CCM
11. Association of common mental disorders with diabetes mellitus—A community based case-control study in North India, CCM
12. Intraoperative lung protective ventilation in peritonitis patients undergoing emergency laparotomy: A randomized controlled trial, Intramural, Anesthesiologist
13. Effect of Vitamin D supplementation on outcome in children undergoing open heart surgery: A randomized controlled, CTVS
14. Cellular and molecular heterogeneity of normal superior and inferior parathyroid glands at different ages, Pathology
15. Randomized control trial to assess the effectiveness of Nurse-Led Structured Telephonic Heart Failure Management Programme on selected health related outcome variables at 3 months, College of Nursing, AIIMS

Completed

1. Role of cardiac biomarkers in risk stratification of patients with Acute Coronary Syndrome (ACS) in the Emergency Department, Emergency Medicine
2. Validation of spot urine sample against 24 hr urine sample for estimation of dietary sodium intake at population level, CCM
3. Relations of Leucocyte membrane complement regulatory proteins, MBL and MASP2 with the pathophysiology and severity of coronary artery disease, Biochemistry

Cardiac Nuclear Medicine

Funded projects

Ongoing

1. Value of intraventricular synchronism assessment by Gated SPECT Myocardial Perfusion Imaging (MPI) in the management of heart failure patients submitted to cardiac resynchronization therapy, Chetan D. Patel, International Atomic Energy Agency, Vienna, 4 years, 2013–ongoing, Rs 18 lakhs

Department projects

Ongoing

1. Evaluation of F-18 FDOPA in detection of myocardial sympathetic denervation in patients with advanced Parkinson's Disease
2. Role of Ga68-DOTANOC PET/CT in Cardiac Sarcoidosis; Comparison with Cardiac MRI
3. To study the role of vascular function and pain sensitivity in Microvascular Angina
4. Study of cardiac sympathetic denervation by F-18 FDOPA PET-CT imaging in patients with early Parkinson's Disease and Atypical Parkinsonism
5. Comparison of Left Ventricular Ejection Fraction (LVEF) derived on OSEM and FBP reconstructed images in Tc99m-MIBI myocardial perfusion SPECT: Validation with LVEF derived on Equilibrium Gated Radionuclide Ventriculography (ERNA)
6. Role of cardiac MRI in diagnosis and prognosis in patients of cardiac sarcoidosis using T1 mapping, T2 mapping and late gadolinium enhancement
7. DE-CMR compared with FDG PET for assessment of viability and prediction of functional improvement in patients with CAD and LV dysfunction
8. Image segmentation using adaptive thresholding
9. Role of Diuretic 18F-FDG PET/CT in patient of renal cell carcinoma and correlation of PET parameter with histopathological subtype
10. Image compression using principal component analysis
11. Image enhancement using stochastic resonance
12. Comparison of 68Ga PSMA PET/CT and 18F Fluoride PET/CT in high risk prostate cancer
13. PET-CT imaging of choromas in pediatric acute myeloid leukemia: A prospective study
14. Role of F-18 FDG PET-CT in staging and early treatment response evaluation in patients of soft tissue sarcoma

Completed

1. Optimization of reconstruction parameters in Ordered Subset Expectation Maximization (OSEM) and comparison with images reconstructed using Filtered Back Projection in 99mTc-SESTAMIBI myocardial perfusion imaging
2. Comparison of pulmonary perfusion after Fontan procedure using Tc99m MAA lung perfusion scan: Extracardiac TCPC vs. lateral tunnel TCPC
3. Normalized mutual information based methods and its influence on PET and CT image registration
4. Role of Gaussian and Butterworth filter in noise removal from Nuclear Medicine images
5. Interim treatment response evaluation of non-small cell lung cancer after four cycles of chemotherapy using texture analysis on F18-FDG PET/CT study
6. Role of texture analysis of baseline F18-FDG PET/CT as predictor of survival in non-small cell lung cancer

Collaborative projects

Ongoing

1. International study of comparative health effectiveness with medical and invasive approaches, (ISCHEMIA TRIAL), Cardiology
2. Prevalence of symptomatic and asymptomatic coronary artery disease in patients with ischemic stroke and TIA, Neurology and Cardiology
3. Value of Gated-SPECT MPI for Ischemia-Guided PCI of non-culprit vessels in STEMI patients with Multivessel Disease after primary PCI, Cardiology

Cardiac Pathology

Funded projects

Ongoing

1. Role of Fibrillin 1 gene mutation and TGF beta in thoracic aortic aneurysms of non marfanoid individuals, Sudheer, AIIMS, 2 years, 2016-2017, Rs 5 lakhs

Departmental projects

Ongoing

1. Electron microscopic study of ciliary abnormality in clinically suspected cases of primary Ciliary Dyskinesia
2. Fibrillin 1 gene mutation and TGF beta in TAAA of non marfanoid individuals
3. Detection of streptococcal bacterial DNA with polymerase chain reaction in excised valvular tissue of RHD patients

Completed

1. Expression of Matrix Metalloproteinase-2, Matrix Metalloproteinase-9, Tissue Inhibitor Metalloproteinase-1, Tissue Inhibitor Metalloproteinase-2, Collagen I and IV Expression in Thoracic Aortic Aneurysms
2. A comparative study of efficacy and composition of various cell populations of extracted hair follicle outer root sheath cell suspension prepared using a single enzyme (trypsin) and multiple enzymes (trypsin, collagenase and dispase) for transplantation in vitiligo

Collaborative projects

Ongoing

1. Detection of streptococcal bacterial DNA with polymerase chain reaction in excised valvular tissue of RHD patients, Cardiology
2. Finding the correlation of Toll Like Receptors (TLRs) with inflammation in patients with chronic heart failure, Cardiology, Safdarjung Hospital
3. Study of cardiac markers, gross findings and histopathological changes in heart in cases of suspected cardiac death, Forensic Medicine
4. Comparative evaluation of MicroRNA profiling and cytokine profiling analysis in patients with Pulmonary Sarcoidosis and Mediastinal Tuberculosis, Pulmonary Medicine
5. Development of a new formulation and packaging for reducing adverse effects and injection pain of Mycobacterium vaccine and its clinical trial in recalcitrant anogenital and extra-genital (common) warts, Dermatology
6. Autologous non cultured dermal cell suspension transplantation in treatment of facial volume loss, Dermatology
7. Study of Sesamol in Bleomycin induced pulmonary toxicity in rat, Pharmacology
8. Exploring the phenotypic and functional role of $\gamma\delta$ T cell subsets along with Pattern Recognition Receptors (PRRs) in the immunopathogenesis of Pemphigus Vulgaris, Pharmacology

Cardiac Radiology

Funded projects

Ongoing

1. Safety and efficacy of autologous bone marrow derived mononuclear cells in patients of spinal injury, P Jagia, AIIMS, 2 years, 2016-2018, Rs 5 lakhs

Departmental projects

1. Role of dual energy CT in tissue iron identification quantification in iron overload syndrome
2. Role of CEUS in activity in NSAA
3. Comparison of non-contrast MRA to contrast enhanced MRA in patient of PVD
4. Role of cardiac magnetic resonance imaging in identification of myocardial fibrosis and wall morphology in patients of non-ischemic dilated cardiomyopathy
5. Role of cardiac MRI in patients of nonspecific Aorto-arteritis and its value in prognostication and assessment of treatment response
6. Comparative evaluation of drug eluting balloon angioplasty versus noncoated balloon angioplasty for endovascular interventions in patients of Nonspecific aorto-arteritis: Prospective study
7. Role of dual energy CT pulmonary perfusion in evaluation of chronic obstructive pulmonary artery disease and its value in assessing treatment outcome
8. Role of MDCT in the evaluation of systemic and pulmonary venous anomalies in heterotaxy syndrome
9. Role of cardiac MRI in diagnosis, prognosis and treatment response in patients of cardiac sarcoidosis using T1 mapping, T2 mapping and Late Gadolinium Enhancement (LGE)
10. Derivation of nomograms for aortic and iliofemoral dimensions using multidetector computed tomography in the Indian population

Collaborative projects

Ongoing

1. Impact of bariatric surgery in reduction of cardiovascular risk in morbid obesity 2017, Surgery
2. Preparation and study of radiochromic film as radiation dosimeter for medical applications, Radiation Physics
3. DE-CMR compared with FDG-PET for assessment of viability and prediction of functional improvement in patients with CAD and LV dysfunction, Cardiology
4. Role of ^{68}Ga -DOTANOC PET/CT in cardiac sarcoidosis; comparison with cardiac MR, Nuclear Medicine

Completed

1. Morphonatomic description of common arterial trunks and its clinical implications, Cardiology
2. Left Atrial Appendage (LAA) morphology as predictor of LAA clot formation in patients with rheumatic heart disease, Cardiology

Stem Cell Facility

Funded projects

Ongoing

1. DBT-Centre of Excellence for Stem Cell Research: Basic and Translational (Phase-II), Sujata Mohanty, DBT, 3 years, 2017-2020, Rs 298 lakhs
2. Targeting Telomerase Reverse Transcriptase (TERT) gene to immortalize peripheral blood mononuclear cells of patients with coronary artery disease, Sujata Mohanty, ICMR, 3 years, 2014-2017, Rs 56 lakhs
3. Development of a carrier dressing capable of supporting the transfer of melanocytes and keratinocytes onto an in vitro Wound Bed Model, Sujata Mohanty, DBT, 3 years, 2017-2020, Rs 59.37 lakhs
4. Generation of induced pluripotent stem cells for understanding pathophysiology of Hereditary Inclusion-Body Myopathy, Sujata Mohanty, DBT, 2 years, 2017-2019, Rs 8 lakhs
5. SOPs to Study Very Small Embryonic-Like Stem Cells (VSELs) in various adult tissues, Sujata Mohanty, ICMR, 1 year, 2017-2018, Rs 4 lakhs
6. Understanding the therapeutic role of adult stem cell derived exosome in combating virus induced neurodegenerative disease, Sujata Mohanty, DBT, 3 years, 2018-2021, Rs 22 lakhs
7. Comparing the vascularization potential of MSCs and MAPCs in monoculture and coculture systems with human OECs under normoxia and hypoxia, Sujata Mohanty, DBT, 3 years, 2018-2021, Rs 46.26 lakhs

Completed

1. A comparative study to evaluate the role of tissue specific MSCs in cellular repair and regeneration through mitochondrial transfer, Sujata Mohanty, DBT, 3 years, 2016-2019, Rs 16 lakhs
2. Sculpturing corneal constructs using micropatterned surface and decellularized cornea, Sujata Mohanty, DBT, 3 years, 2014-2017, Rs 26 lakhs

Departmental projects

Ongoing

1. Autologous non-cultured dermal cell suspension transplantation for correction of volume loss
2. Immunomodulatory potential of tissue specific human MSC through HLA-G and other soluble factors
3. To evaluate the role of tissue specific MSC derived exosomes in drug induced liver injury model
4. In-vitro studies to explore strategies for extended utilization of donor corneal tissues by harnessing their full clinical potential
5. Imaging and molecular characterization of differentiated thyroid cancer
6. Role of micro RNA as biomarker in hepato cellular carcinoma
7. Comparative evaluation of cellular responses and osteogenic potential of Undifferentiated mesenchymal stem cells induced by calcium-silicate based cements- a histochemical study
8. Optical characterization of breast cancer
9. In vitro and in vivo stabilization of endothelial tubes from HUVEC micro tissues using human bone marrow derived hMSCs and its application in bone tissue engineering
10. Detection and quantification of circulating tumour cells in oral cavity squamous cell carcinoma
11. Study of Association of Tetrahydrobiopterin (BH4) levels in Endothelial Progenitor Cell (EPC) number and functionality in Coronary Artery Disease (CAD) patients
12. To understand the differentiation of adipose derived mesenchymal stem cells in the given matrix to enhance the healing power of diabetic wounds
13. To ascertain the anaesthetic technique associated with minimal metastasis and tumour recurrence following breast cancer surgery
14. Rare disease modelling and gene correction using induced pluripotent stem cells
15. Biofabrication of 3D printed skin graft substitute using functionalised materials for tissue regeneration
16. Evaluation of the rescue potential of melatonin in human mesenchymal stem cell differentiated dopaminergic neurons and astrocytes
17. Are construction of post traumatic facial defects using adipose tissue derived mesenchymal stem cells seeded on 3D printed hydroxyapatite scaffold guided by CAD Models in Zygomatico-orbitomaxillary complex fractures

18. Evaluation of outcomes of end to end nerve repair with or without amniotic membrane—A comparative study
19. A comparative study for evaluation of outcomes of end to end tendon repair with or without amniotic membrane
20. Development of replicon based assay to study the effect of genetic variation on Hepatitis B Virus replication and its genome targeting by CRISPR

Completed

1. To explore differentiation potential of bone marrow derived Mesenchymal stem cells into functional cardiomyocytes
2. Role of stem cell therapy to decrease pacing requirements in complete heart block
3. A comparative study to assess the efficacy, viability and composition of various cell populations of Extracted Hair Follicle Outer Root Sheath Cell Suspensions (EHF ORS CS) prepared using a single enzyme (trypsin) and multiple enzymes (trypsin, collagenase and dispase) for transplantation in vitiligo
4. Isolation and characterization of Mesenchymal stem cells derived from amniotic fluid
5. To study the role of recombinant human erythropoietin in trauma victims with hemorrhagic shock: An in-vitro approach through stem cell differentiation
6. T cells subsets and their functions in aplastic anemia
7. Study of functional dopaminergic neurons from human mesenchymal stem cells
8. Molecular characterization of Steve Johnson Syndrome and its ocular sequelae
9. Effects of administration of human bone marrow derived mesenchymal stem cell on the expression level and promoter's methylation pattern of stroke related genes in middle cerebral artery occlusion model of stroke in rats
10. A combined top-down and bottom-up approach in engineering bone and vascular tissue

Collaborative projects

Ongoing

1. Comparative evaluation of efficacy of conjunctival stem cell transplantation with cultivated oral mucosal epithelial transplantation in patients with bilateral cicatrizing ocular surface diseases (i.e. Stevens Johnson syndrome and Chemical burns), Ophthalmology
2. Assessment of the effect of various storage media on viability, proliferative ability and differentiation potential of human periodontal ligament stem cells (hpdlsCs): An in-vitro study, CDER
3. Study of paracrine mechanism of autologous stem cell transplantation in stroke using bifunctional markers, Neurology
4. A double-blind randomized trial of transplantation of cultured melanocytes from outer root sheath of plucked hair follicles vs. cultured melanocytes from epidermis, Dermatology
5. Utilization of intra arterial injections of autologous bone- marrow derived mononuclear cells for treatment of spinal injury, Cardiac Radiology

Completed

1. Evaluation of autologous bone marrow derived stem cells in dry age related macular degeneration, Dr RPC
2. Comparison of autologous cultured limbal stem cells on amniotic membrane transplant versus limbal lenticule transplantation alone in the management total limbal stem cell deficiency due to ocular burns: A randomized controlled clinical trial, Dr RPC

Blood Transfusion Services

Departmental projects

Ongoing

1. Optimizing blood inventory management at a super-specialty blood centre in India—A Case Study
2. The outcomes of Leukoreduced and Non Leukoreduced Blood Component Transfusion in patients undergoing Cardiac Surgery
3. A randomised trial for evaluation of transfusion related immunomodulation in patients undergoing Neurosurgery

Collaborative projects

Ongoing

1. Effect of hyperglycaemia on macrophage function in pathophysiology of pulmonary TB, Biochemistry
2. Comparing the vascularising potential of MSCs and MAPCs in monoculture and coculture systems with human OECs under normoxia and hypoxia, Stem Cells, CNC
3. Generation and characterization of molecularly cloned HIV-1 Env Pseudoviruses from Indian HIV-1 infected children, Biochemistry

4. Study the potential role of HLA-G mediated Immunomodulation by tissue specific human Mesenchymal stem cells, Stem Cells, CNC
5. Regulation of HIV reservoirs through autophagy, Biochemistry
6. Targeting Telomerase Reverse Transcriptase (TERT) gene to immortalize peripheral blood mononuclear cells of patients with coronary artery disease, Stem Cell, CNC

Completed

1. Use of autologous umbilical cord blood transfusion in neonates undergoing surgical correction of congenital cardiac defects—A pilot study, Cardiothoracic Centre, CNC
2. Establishing normal reference range of serum free light chains in healthy Indian adults, Lab Oncology, BRA, IRCH, AIIMS

PUBLICATIONS

Cardiology

Journals: 75 Chapters in Books: 1 Books: 1

Cardiothoracic and Vascular Surgery

Journals: 30

Cardiac Anaesthesiology

Journals: 41 Abstracts: 2 Chapters in Books: 21 Books: 1

Cardiac Biochemistry

Journals: 13 Abstracts: 1

Cardiac Nuclear Medicine

Journals: 3 Abstracts: 5 Chapters in Books: 1

Cardiac Pathology

Journals: 26

Cardiac Radiology

Journals: 8 Chapters in Books: 5

Stem Cell Facility

Journals: 10 Chapters in Books: 1

PATIENT CARE

Cardiology

Total numbers

New OPD cases	41,028	Old Cardiology Cases	1,09,521
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Patient Services

TMT	2827	Holter	3000
Echocardiography	35,433	ECG	37,296
ABP	122	TEE	48
HUTT	160		

Cath Lab Services

CART	2647	Cath	689
Balloon Dilatation	108	PTMC	287
PDA	115	ASD Device	69
VSD Device	9	PTCA	1315
Pacemakers	375	ICD	55
CRT	67	RFA	134
CARTO	26	DSA	120
Coil embolization	233		

Cardiothoracic and Vascular Surgery

Workload

Department of CTVS performed one of the maximum number of adult, aortic and paediatric cardiac surgery for congenital heart defects in the country. Last year 4120 operations were conducted in the department. Along with Department of Cardiology, 41,028 new cases and 1,63,948 old cases were seen in the OPD.

The facilities and infrastructure

- a. **Operating Rooms (OR's):** There are 8 operating rooms in the Department of CTVS. Each operating room is equipped with all the necessary equipment required for adult, aortic and paediatric cardiac surgery. These include state of the art monitoring system and anesthesia station, NIRS, BIS, EEG, 3-D echocardiography, cell saver, CPB machines, vacuum assisted venous drainage, centrifugal pump, bronchoscope, and intra-operative neuromonitoring
- b. **ICU beds:** The department has 4 ICUs (54 beds) fully equipped with all advanced facilities for postoperative cardiovascular surgical care.
 - i. ICU-A: 16 Beds
 - ii. ICU –B: 18 Beds
 - iii. Neonatal ICU: 8 Beds
 - iv. CT-5 ICU: 12 BedsHowever, the HDU also has 12 additional beds. Out of these, 20 beds are specifically earmarked for children. Besides this, the main ICU and HDU comprising of the remaining 46 beds ($54 + 12 - 20 = 46$) are fully equipped and all facilities for cardiac intensive care are available
- c. **General Beds:** The department has 80 general beds:
- d. **CN Tower (Private Ward):** Thirty-two (32) beds in private/paying ward, shared with Department of Cardiology
- e. **Homograft Valve Bank:** The department runs the most successful valve bank of the country. This ensures adequate supply of homografts to manage complex paediatric cardiac surgical problems
- f. **Supportive services:** Five cardiac catheterization labs including, advanced CT scan, MRI, nuclear medicine, ultrasound, and echocardiography lab, state of the art blood bank, and laboratory services

Cardiac Anaesthesiology

1. Advanced monitoring facilities (TEE, TTE, NIRS, NICO monitoring) for management of routine, emergency and high risk cardiac surgical patients belongs to all spectrum
2. Specialized cognitive rehabilitation programme for heart failure, heart transplant and LVAD patients
3. Routine stress management programme both for pre and post operative patients
4. Different community programme by the faculties
5. Special involvement with anesthesia for complex congenital heart surgery
6. Team member of heart failure treatment like heart transplant and LVAD
7. Transesophageal echocardiography
8. Community service—Charitable health camps and health education

Cardiac Biochemistry

The cardiac biochemistry laboratory caters to outpatients and inpatients of cardiothoracic center and for some of the diagnostic tests to patients from other departments as well as from other hospitals. This year we introduced the testing of iron, UIBC and Tacrolimus. The list of tests being carried out and their annual load in the laboratory is as follows:

Annual Statement of tests done in Centralised Lab CNC

S. No.	Description	No. of Tests (Ward)	No. of Tests (OPD)
Clinical Chemistry			
1	Glucose	54,800	52,500
2	Urea	63,500	52,800
3	Creatinine	63,500	50,200
4	Calcium	54,800	48,500
5	Phosphorous	54,800	56,450

S. No.	Description	No. of Tests (Ward)	No. of Tests (OPD)
6	Uric acid	54,800	48,300
7	Sodium	67,300	55,000
8	Potassium	67,300	55,000
9	Bilirubin	60,300	53,200
10	Direct bilirubin	59,400	48,400
11	Total protein	59,500	52,200
12	Albumin	59,400	53,400
13	AST	62,500	58,500
14	ALT	62,500	58,500
15	ALP	60,000	62,300
16	Cholesterol	52,000	6834
17	Amylase	46,000	6916
18	Cyclosporin	653	NA

Haematology and coagulation

1	Hb/TLC/DLC/Platelets/ESR	49340	36120
2	PT	14,000	54092
3	APTT	1850	400

Hormones and others

1	T3	12700	6000
2	T4	12700	6000
3	TSH	13,600	7000
4	Prolactin	1560	1100
6	Cortisol	1890	1000
7	Vit B12	10200	4000
8	Folate	2300	2000
9	Homocysteine	1700	1200
10	Ferritin	350	200
11	Iron	50	25
12	UIBC	50	25
13	Adrenaline/Nor adrenaline	390	200
14	VMA	235	211

PTH/Vitamin D

1	Vitamin D	2700	1279
2	PTH	50	0

Lipids/Cardiac Enzymes/HbA1c

1	Lipid profile	42,300	55,000
2	CK-NAC	10,000	3100
3	CK-MB	3200	1480
4	LDH	9200	8640
5	ASLO	1560	3300
6	CRP	20,300	15,000
7	Digoxin	430	332

Cardiac Nuclear Medicine

Nuclear Cardiology Unit in CNC is equipped with a dual head SPECT-CT Gamma Camera. The nuclear cardiology unit caters to patients referred for cardiac studies from CN center and other departments of the hospital.

The department performs myocardial perfusion study which is an integral investigation in the diagnosis and management of patients with coronary artery disease. The department also performs radionuclide ventriculography for assessment of left ventricular function in CAD patients referred from the center and from IRCH for cardiac evaluation in patients receiving chemotherapy. We also perform cardiac PET imaging with PET perfusion tracer N-13 NH₃ and metabolic tracer F-18 FDG for assessment of myocardial viability and other non CAD indications. We have also started the use of other PET radiotracer like Gallium-68 DOTANOC for cardiac sarcoidosis and F-18 FDOPA for evaluation of cardiac sympathetic innervations.

Myocardial perfusion study: 1566 RNV study: 586 Cardiac PET: 215
Misc (V/Q scan, 1st pass): 81
Total number of studies done: 2448

Cardiac Pathology

Specimens

Routine: 453 Nos. of cases Research: 285 Nos. of cases

Others work

Immunohistochemistry: 76 slides H & E stain: 435 slides
Manual processing of post-transplant biopsies: 20 cases
Cutting of blocks (unstained sections): 354 slides
Special stains: 189 slides

Cardiac Radiology

Facility	Number of procedures
MRI	589
CT	4028
DSA	2015
Doppler and Ultrasound	7500
Catheter angiographies	7021

Stem Cell Facility

Recently, we have extended the amniotic membrane distribution services from RPC, AIIMS to other departments of AIIMS (Pediatric Surgery, Trauma Center, AIIMS) and to outside Hospitals (ESI Hospital, Safdarjung Hospital, Dr Ram Manohar Lohia Hospital, etc). This service will be on charged basis, for which a proposal was sent to the Standing Finance Committee.

Service Provided

Number of samples processed

Stem Cell Isolation from Bone Marrow	51
Cryopreservation of Apheresis sample	15
Umbilical cord blood cryopreservation	03
Cultured Oral Mucosa Epithelial Transplantation	37
Culture Limbal Epithelial Transplant	06
Amniotic Membrane preparation for grafting	32 batches (for 900 patients)
Hair Follicle stem cells	02
Viability of stem cells (pre and post transplantation/infusion)	51
Stem Cell Enumeration (CD34+ count)	51

Blood Transfusion Services

Blood Units Collected

Replacement donors	9793	<i>Blood received from</i>	
Voluntary donors	1518	IRCS	58
Voluntary through blood mobile	94	Main Blood Bank, AIIMS	223
Family Voluntary Donors	9589	Other hospitals	299
Total units of blood collected	21,574		

Blood Units Issued to

CTVS/NS	27,525	Other hospitals	553
Main Blood Bank, AIIMS	1360	HIV/HBsAg/HCV reactive	543
JPNATC	352	units discarded	
Total No. of blood units issued	30,333		

Lab Procedures

Blood grouping (ABO)	89,807	Blood grouping (RH)	63,919
Cross matching done	1,36,002		

Infectious Markers

HIV Testing	21,186	VDRL Testing	21,186
HBV Testing	21,186	MP testing	21,186
HCV Testing	21,186	NAT Testing	21,186
Total	1,27,116		

Blood Components Issued

Fresh Frozen Plasma (FFP)	20,584	Packed Red Cells	22,107
Platelet Concentrate	15,827	Single Donor Plateletpheresis	37
Cryoprecipitate	1484		
Total	60039		

AWARDS, HONOURS AND SIGNIFICANT EVENTS**Cardiology**

Professor V.K. Bahl awarded “Gruntzig Oration” by WCCP on “Forty years of angioplasty” (2017); “Legends of Cardiology” Award by Times Group (2017); “Pioneer of Intervention Cardiology” by Delhi Intervention Council (2017); “PL Wahi Oration” by International Society of Heart Research (2018); Course Director, India Live.

Professor Anita Saxena was visiting professor of Pediatric Cardiology, Variety Children’s Heart Centre Winnipeg; President of National Rheumatic Heart Consortium.

Professor S.S. Kothari participated in Medical Camp, 1-9 October 2017, Leh Ladakh; External examiner for DM Cardiology, King George’s Medical University, 22-24 July 2017, Lucknow; External examiner for DM (Cardiology) Supplementary Examination at King George’s Medical University, 17 November 2017, Lucknow.

Professor Balram Bhargava continues as editor, BMJ Innovations and President, SLIM (Society for Less Investigative Medicine).

Professor KC Goswami is President Elect of Cardiological Society of India.

Professor Sandeep Seth was Editor in Chief, JPCS.

Professor Sundeep Mishra was Secretary CSI Delhi Branch; Board of Trustees SCAI; Course Director of TCT India.

Professor Rakesh Yadav was Treasurer, CSI Delhi Branch.

Professor G. Karthikeyan was Editor-in-Chief of *Heart Asia* which is one of the three heart journals published by the BMJ Group; Member of the Rheumatic Heart Disease (RHD); Expert Group of the Global Burden of Disease Study co-ordinated by the Institute of Health Metrics and Evaluation (IHME).

Professor S. Ramakrishnan was assistant editor of Annals of Pediatric Cardiology; Secretary of Pediatric Cardiac Society of India; Treasurer of National Rheumatic Heart Consortium; Associate editor of JPCS; Secretary, SLIM; Edited book Cardiology Clinical Methods.

Dr Saurabh Gupta was Treasurer, PCSI; Won Best imaging abstract of PCSI 2017 (‘CT Virtual Cardiac Dissection—Enhanced 3D visualization of internal cardiac anatomy’); Sujoy B Roy Award for best paper CSI Delhi Branch 2018.

Dr Neeraj Parakh was Editor of book—Mitral Stenosis.

Cardiothoracic and Vascular Surgery

Professor Balram Airan was faculty at “International Symposium on Dengue, Zike and Chikanguniya: Control and Prevention: Expectations and Challenges”, AIIMS, New Delhi, 28-29 April 2017; 64th Annual Conference of IACTS, 1-4 February 2018, Vishakhapatnam: Felicitated as past president of IACTS; Felicitated by MGM Institute of Health Science, Navi Mumbai on 20 July 2017 for outstanding achievements in the field of CTVS; Subject report and selection of faculty in the Department of CTVS, at AIIMS, Bhubaneswar and Rishikesh; Faculty at 2nd Annual Conference of the SMICTSI, 9-10 September 2017, Jaipur and conferred life time achievement award of the outstanding contribution in the field of CTVS; Faculty and Speaker on Topic “Long term Complications after Heart Transplant at Indian Society of Organ

Transplant Conference, Indore, 13-15 October 2017; Member of the expert group for Heart/Lung ex. NOTTO; Member of expert group for Heart Valve Tissue Bank, heart transplant at NOTTO; Member of expert group for Heart Transplant.

Professor SK Choudhary received fellowship of National Medical Academy in the “57th Convocation of National Medical Sciences” on 28-29 October 2017, Amritsar; Section editor (Aorta and vascular) of Indian Journal of Thoracic and Cardiovascular Surgery; Delivered XXVIth Krishna Bhardwaj Memorial Oration, 8 March 2017, Jawaharlal Nehru University, New Delhi; President, Aortic Society of India; Appointed as mentor for Department of CTVS, AIIMS, Jodhpur; Organized, coordinated, and supervised the first open heart surgery at AIIMS Jodhpur; Task force member, National Curriculum Standardization of Physician Assistant Education.

Professor A.K. Bisoi received Dr B. C. Roy National Award for the year 2015 in recognition of services as an Eminent Medical Teacher; ICMR Chaturvedi Kalawati Jagmohan Das Memorial Award for the research work on “Arterial Switch Operation in Transposition of Great Arteries with Intact Ventricular Septum—Going beyond boundary”. This work has redefined the concept of regression. Use of integrated—ECMO has expanded the safety and the scope of cardiac surgery for sick children with a weak heart.

Professor Sachin Talwar delivered PK Sen Memorial Oration at IACTSCON, Vizag, 1-4 February 2018; Was conferred the membership of American Association for Thoracic Surgery, Boston, May 2017; DNM examiner at Hyderabad, 4-6 June 2017; Performed the first heart surgery in Kargil in a surgical camp organized by the Ashoka Mission in June 2017; Assisted the selection committee of PGI Chandigarh for selection of Assistant Professors and Professors, December 2017.

Cardiac Anaesthesiology

Professor Usha Kiran continued as vice president in the Society of “PRAN”.

Professor Neeti Makhija chaired two sessions at Workshop-cum-CME, 25-27 August 2017 at Bengaluru in the 2nd International and 11th National Transesophageal Echocardiography (TEE) Workshop-cum-CME under the banner of Indian Association of Cardiovascular Thoracic Anaesthesiologists (IACTA) and the University of Minnesota, USA; Participated in the quiz which was very interactive at Bengaluru in the 2nd International and 11th National Transesophageal Echocardiography (TEE) Workshop-cum-CME under the banner of Indian Association of Cardiovascular Thoracic Anaesthesiologists (IACTA); Chaired a two breakaway sessions on 1) “Preoperative Assessment—How to improve outcomes, 2) “Anesthesia Management of Neonatal shunt” at the Pediatric Cardiac Society of India (PCSI) Conference 2017 at Mumbai, Maharashtra (organized by Sir H N Reliance Foundation) from 26-29 October 2017; Chaired a session on “Assessment of Ventricles” in the 6th Comprehensive Perioperative Echo Workshop on 4 November 2017 at Gurgaon; Chaired a session on echocardiography assessment for valvular repair vs replacement on 25 February 2018 at the 12th Annual Perioperative and Critical Care Transophageal Echocardiography Workshop on 24-25 February 2018 at PGIMER, Chandigarh; Chaired a session on: Expanding the scope of nursing practice in caring for patients supporting on Extracorporeal Membrane Oxygenation (ECMO) in the SWAC-ELSO 2018 Conference at India Habitat Centre, New Delhi from 18-21 January 2018; Chaired a scientific session and Judged competitive abstracts and case oral presentations in WCC 10th Annual Conference under banner of Society of Cardiac Anaesthesiology, Delhi and NCR Branch at Ramalingaswami Board Room, AIIMS, New Delhi.

Professor Poonam Malhotra Kapoor was Senior Vice President of IACTA (non elected); President of SCA, Delhi and NCR Branch (non elected); President of ECMO Society of India (non elected); Editor-in-Chief, Journal of Cardiac Critical Care, 2nd Issue October December 2018; Organizing Secretary of an international Conference SWACELSO 2018, held at India Habitat Centre, New Delhi; More than 100 national and international faculties were involved, More than 650 delegates from all over the world have participated; National conferences organized as PG Assembly and Editors Meet and CME; Examiner, For FIACTA, FTEE examination conducted by IACTA at Bengaluru; Content provider for Fellowship in Cardiac Critical Care (FICCC), Fellowship in Advanced Echocardiography (FIAE) and Fellowship in Basic Echocardiography (FIBE) online examination, conducted by The Simulation Society (TSS); The Exams were online conducted by Tata Consultancy Services; Received prestigious “Award of Excellence in Cardiology in the World” by Hon’ble Union Health Minister, Government of India in WCCPCI 2017 on 30 September-1 October 2017 at Amritsar, Punjab, India; Editor-in-Chief of Journal of Cardiac Critical Care (JCCC); Released 2nd issue at SWACELSO 2018 International Conference at IHC, New Delhi from 18-21 January 2018; Chaired a scientific session, 9th Asia Pacific Vascular Society Conference, 16-18 June 2017, New Delhi; Chaired a pro-con on “NIRS monitoring is the standard of care”, 12th Chennai Cardiac Anesthesia Update, 17-19 November 2017, Chennai; Chaired a session on “promotion of mental health and well-being among nurses: AIIMS experience”, Women Cardiac Care (WCC 2018), 8 March 2018, New Delhi.

Professor Minati Choudhury won Best Poster Award for the presentation “anaesthesia management of a post cardiac transplant patient for appendectomy” ICACON 2018, 27-29 October 2018, Varanasi.

Dr Suruchi Hasija was member of Editorial Board of IACTA (Indian Association of Cardiovascular Thoracic Anaesthesiologists) Echo library from January 2017.

Dr Arindam Choudhury was elected as the North Zone representative of National Executive Committee of All India Difficult Airway Association (AIDAA).

Cardiac Biochemistry

Professor R. Lakshmy was member of Technical Advisory Group constituted by Ministry of Health and Family Welfare for conducting Comprehensive National Nutrition Survey (CNNS); Expert member of Project Review Committee of Indian Council of Medical Research in the area of Obesity and Metabolic Syndrome; Also an expert member of ICMR in the area of Non Communicable Diseases; Expert member for the Task Force Project on “ICMR-India Diabetes [INDIAB] study for estimating prevalence of Diabetes and Pre-Diabetes in different states of India; Member of CKD project monitoring technical advisory committee constituted by Health and Family welfare ministry, Government of AP; Advisor for center of advanced research of ICMR on “mechanism leading to preeclampsia” in IRSHA, Pune; Member of Selection Committee for Selection of Scientist C in ICMR; National editor, Journal of Practice of Cardiovascular Sciences; Reviewed articles for Journal of Functional Foods, Annals of Human Genetics and IJMR; Co-chaired a session, 16th Annual Meeting of Society of Free Radical Research in India, 20 February 2018, Delhi.

Manoj Kumar Tembhre received Early Career Research (ECR) Grant Award by SERB (DST) to carry out research in Atherosclerosis and Best Paper Award (Book Award) in Dermacon 2018, Kochi, Kerala.

Cardiac Nuclear Medicine

External expert in Technical Specification Committee for purchase of solid state detector SPECT camera at PGIMER, Chandigarh; Reviewer for national and international academic journals; Member of Executive Committee, Society of Nuclear Medicine India; Member, Executive Committee, Association of Nuclear Medicine Physicians of India; Member, Executive Committee, Nuclear Cardiological Society of India; Reviewed thesis of MD Nuclear Medicine students, Homi Bhabha Institute, Tata Memorial Hospital, Mumbai and Amrita Institute of Medical Sciences; Supervisor for Professional Theory Examination for PG/UG students, AIIMS December 2017; Internal Examiner for MSc Nuclear Medicine Technology Practical Examinations held in May 2017; Member, Store Purchase Committee of Center for Integrative Medicine and Research (CIMR); Chairman, Selection Committee for recruitments in research projects at CIMR; Member, Selection Committee for recruitment of core staff at CIMR under COE Scheme, AYUSH; DM cardiology students: Dr Tony Ete and Dr Chandra Kumar Das, NEIGRIHMS, Shillong—One month experience in Nuclear Cardiology, AIIMS.

Cardiac Radiology

Professor Sanjiv Sharma elected as the President of the Society of Emergency for the period 2017-2019; External expert for selection to the post of Assistant Professor in the Department of Radiodiagnosis and Imaging in PGIMER, April 2017, Chandigarh; External Expert for the purchase of PACS and RIS system for Department of Radiodiagnosis, PGIMER, Chandigarh, August 2017; External Expert for Senior Staff Selection meeting of Sree Chitra Tirunal Institute for Medical Sciences and Technology, May 2017, Trivandrum; External examiner for MD (Radio-Diagnosis) Practical, May 2017, Chandigarh; External Examiner for MSc, Tech (Radiodiagnosis) practical examination, December 2017, Chandigarh; External Examiner for MD (Radiodiagnosis) practical examination, December 2017, Chandigarh; Reviewer for many national and international radiology and cardiology journals.

Gurpreet S Gulati was reviewer for many national and international radiology and cardiology journals.

Priya Jagia was reviewer for many national and international radiology and cardiology journals.

Sanjeev Kumar was reviewer for many national and international radiology and cardiology journals.

Stem Cell Facility

Member of Institute Committee for Stem Cell Research, National Institute of Immunology, New Delhi, Institute of Liver and Biliary Sciences, New Delhi, DBT Representative at Apollo Hospital, Sri Ganga Ram Hospital, New Delhi, V. P. Chest Institute, New Delhi, National Brain Research Centre, Manesar, THSTI, Faridabad and IIT, Indore; Member, International Society for Cellular Therapy (ISCT), International Society for Stem Cell Research (ISSCR) and Society of Biological Chemists (SBC); Member, Indian Immunology Society, Indian Society of Nanomedicine, Indian Science Congress Association, Stem Cell Research Foundation of India and Cytometry Society of India; Member of Advisory Bodies—Core Committee for Stem Cell Donor Registry for Bone Marrow Transplant in India, Stem Cell Donor Registry, Ministry of Science and Family Welfare, Government of India, High Powered Committee by Ministry of Health and Family Welfare, Government of India, Brainstorming meeting on Biofabrication and 3D Bioprinting, Expert Group Committee—Limbal Stem Cell Transplantation—ICMR, Centre for induced pluripotent Stem Cell Research and Application (CiRA)—For collaboration, Investigating team of CDSO-Dendritic Cell Vaccine Scandal, Department of Biotechnology Task Force on Bioengineering and DBT Expert Committee for Indo-Australian Career Boosting Gold Fellowships (IACBG-Fellowships); Member, Research Grant Review Committee—Project Monitoring Committee (BIRAC), DBT, Biotechnology Career Advancement

and Reorientation Program for Women Scientists (Bio-Care), DBT, Biotechnology Industry Research Assistance Council (BIRAC), Indian Council of Medical Research, New Delhi, Department of Science and Technology, New Delhi, Council of Scientific and Industrial Research, New Delhi and Peer Review Committee- DRDO—Apollo Hospital, Hyderabad; Member, Journal Review Committee—Stem Cell Research Open library (SCROL), Life Science, Journal of Biosciences, Biomedical Research Journal, Insights in Stem Cells, World Journal of Stem Cells, CEINCIA publishing group, Translational Surgery and Molecular and Cellular Biochemistry; Member, Editorial Committee- Journal—Current Trends in Stem cells and Regenerative Medicine (CTSR), Jacobs Journal of Bone Marrow and Stem Cell Research Scientific Reports, Nature publishing house and Stroke Research and Treatment; Member, Sexual Harassment Cell, National Institute of Immunology, New Delhi

Blood Transfusion Services

Chaired 2 scientific sessions on Leukoreduction and Recent Trends in Transfusion Medicine during Transmedcon 2017, in Lucknow under aegis of ISTM, on 3 and 4 November 2017; Felicitated as member of Craniopagus Team, AIIMS, New Delhi, 19 December 2017; Member of Advisory committee of Haemovigilance Programme of India, NIB, under MoFHW, GOI, attended related meetings and workshops; Member of National Blood Cell, NHM, participated in Restructuring of Guidelines of Blood Storage Centres in India; External Technical Expert in Committee for Technical Evaluation of Equipments for Bloodbank in Safdarjung Hospital; Member State Blood Transfusion Council, Delhi; Member of Core Committee, National Blood Cell, NHM, GOI; External Technical Expert in procurement team of CMSS, participated in technical evaluation of Blood bags for NACO.

VISITING SCIENTIST

Cardiothoracic Vascular Surgery

1. Dr Roberto Di Bartolomeo, Professor, Chief of the Cardiac Department, Università di Bologna
2. Dr Paul Sergeant, Gasthuisberg University Hospital, Cardiac Surgery Department Reigersweide 16 Sint Joris Winge 3390, Belgium
3. Dr Robert Anderson, retired *Professor* of paediatric cardiac morphology, Institute of Child Health, University College, London, London, England,
4. Dr Tim Pennel, Cardiothoracic surgeon, Groote Schuur Hospital, Cape Town
5. Dr Abdul Majeed, Sher-E KAsmir Institute of Medical Sciences, Srinagar, Jammu and Kashmir
6. Dr MS Valihatan, Manipal Heart Foundation, Manipal

Cardiac Radiology

1. Dr Sourav Krishna Malla from Grande International Hospital, Dhapasi, Nepal
2. Dr Dinesh Chataut from Tribhuvan University, Dhapasi, Nepal
3. Dr S.Maniharan from National Hospital of Sri Lanka, Colombo, Sri Lanka
4. Dr ADP Athukorala from National Hospital of Sri Lanka, Colombo, Sri Lanka
5. Dr Harish Babu from Tirupati, India
6. Dr Venkat Choudhary from Tirupati, Tirupati, India
7. Dr Bararmangai from Medipas Hospital, Province, Mongolia
8. Munkhtsetseg from Ullanbaatar, Mongolia
9. Dr Batnasan from Ullanbaatar, Mongolia
10. Dr Tsogiavkhlan from Ullanbaatar, Mongolia
11. Dr Delgermaa from Ullanbaatar, Mongolia
12. Dr Zaw Win Thant from Military Hospital, Myanmar
13. Dr Subaj Bhattarai from Dhapasi, Nepal
14. Dr Anil K Rai from Safdarjung Hospital, Delhi, India
15. Dr Kyaw Min Naing from Defence Service, Myanmar

Stem Cell Facility

1. Dr Ricardo Frausto, Cornea Genetics Laboratory, University of California, Los Angeles, USA
2. Dr Dean Brenner, Department of Pharmacology, University of Michigan, USA
3. Dr Prabir Patra, School of Engineering, University of Bridgeport, USA
4. Dr Anthony J. Aldave, Ophthalmology, UCLA Stein Eye Institute, USA.

10.2. Centre for Dental Education and Research

Chief

O.P. Kharbanda
(Orthodontics and Dentofacial Deformities)

Professors

Ritu Duggal
Orthodontics and Dentofacial Deformities
Veena Jain
Prosthodontics

Ajoy Roychoudhury
Oral and Maxillofacial Surgery
Ongkila Bhutia
Oral and Maxillofacial Surgery

Additional Professors

Vijay Prakash Mathur
Pedodontics and Preventive Dentistry

Ajay Logani
Endodontics and Conservative Dentistry

Associate Professors

Dalim Kumar Baidya
Anaesthesia

Devlina Goswami
Anaesthesia

Assistant Professors

Amrita Chawla
Endodontics and Conservative Dentistry
Rahul Yadav
Oral and Maxillofacial Surgery
Prabhat Kumar Chaudhari
Orthodontics and Dentofacial Deformities
Nitesh Tewari
Pedodontics and Preventive Dentistry
Dheeraj Kumar Koli
Prosthodontics
Vikender Singh
Periodontics

Vijay Kumar
Endodontics and Conservative Dentistry
Vilas Samrit
Orthodontics and Dentofacial Deformities
Kunaal Dhingra
Periodontics
Kalpana Bansal
Pedodontics and Preventive Dentistry
Shalini Gupta
Oral Medicine
Deepika Mishra
Oral Pathology and Microbiology

Harsh Priya
Public Health Dentistry

HIGHLIGHTS

Orthodontics

It has provided quality orthodontic care to patients with malocclusion, dentofacial deformities and cleft lip and palate. It has provided leadership in the field at national and international level. Dr Kharbanda was an invited speaker to sixteen national and five international events in the reporting year. In addition, the professional and academic expertise was also extended to various government/research organizations such as ICMR and Ministry of Health and Family Welfare and other institutions. Faculty gave significant inputs to important international journals in the field of Orthodontics in the capacity of International Editorial Board/Peer Review Board. The division organized "World Conference on Preventive Dentistry Conference" in collaboration with International Association of Dental Research and supported by World Health Organization.

Oral and Maxillofacial Surgery

It is involved in providing high quality surgical care in Trauma, Facial esthetics, temporomandibular joint, craniosynostosis, etc. The division has the distinction of being in the forefront of maxillofacial trauma treatment. A one-day workshop on systematic approach to maxillofacial trauma was conducted, which involved lectures and hands-on skill training on 3D printed facial models with real-life fractures of jaws. This was attended by delegates from all over India.

Pedodontics and Preventive Dentistry

It has shown leadership in the profession by organizing ten academic events in the reporting year and has received best papers and academic honors along with professional designation in various national and international professional associations. The postgraduate course in the subject was started in January 2017 and the best of the students are being trained in the department. The faculty as members of the Academic Council of Indian Society of Pedodontics and Preventive Dentistry, organized meeting to frame policies and guidelines for society.

Periodontics

It provides optimum care to huge number of patients visiting daily for seek periodontal treatment and those referred from other departments. Various types of treatment procedures such as conventional non-surgical and surgical periodontal therapy, periodontal plastic surgery, soft and hard tissue regenerative procedures, diode laser assisted soft tissue excision and adjunctive pocket debridement procedures are being carried out in the department.

Oral Pathology and Microbiology

Professors Randeep Guleria and O.P. Kharbanda inaugurated the Oral Histopathology Lab, CDER on 17 January 2018. The Oral Histopathology Laboratory at Room No. 503, Fifth Floor, CDER, AIIMS is now functional and is well-equipped to process and provide Histopathology and Cytopathology reporting on various hard and soft tissue pathologies of oral and maxillofacial region. Histopathology reporting on various hard and soft tissue pathologies of oral and maxillofacial region. This includes the reporting of oral potentially malignant disorders, benign and malignant lesions of oral cavity, odontogenic and maxillofacial cysts and bone tumors, tumors of oral cavity, tongue and salivary glands and other pathologies affecting oral and maxillofacial region.

Public Health Dentistry

Ministry of Health and Family Welfare has designated Centre for Dental Education and Research as the National Centre of Excellence for the Implementation of National Oral Health Programme. The division works for the execution of NOHP.

EDUCATION

Orthodontics

At present centre is conducting MDS full-time postgraduate programs in Orthodontics and the first PhD candidate in Orthodontics is awaiting the defense of thesis.

Oral and Maxillofacial Surgery

We are imparting postgraduate training in Oral and Maxillofacial surgery education for the past 10 years. The teaching includes postgraduate seminars, journal clubs, bed-side case discussions and surgical training.

- Problem-based learning
- “Tell-show-do-review” model in teaching
- Log-book and record keeping
- What went right? What could have been better? Model in seminars

Prosthodontics

Undergraduates: Clinical teaching of 7th semester MBBS students.

Postgraduates: Organized and conducted Seminars, journal club, clinical case discussion for MDS Prosthodontics students.

Pedodontics and Preventive Dentistry

The postgraduate course in Pedodontics and Preventive Dentistry was started in January 2017 (Master in Dental Surgery). We also participated in interdisciplinary training within CDER.

Periodontics

It is involved in conducting classes for MBBS students and seminars for non-academic junior residents and joint academic sessions.

Oral Pathology and Microbiology

It is involved in conducting classes for undergraduate MBBS students and conducting seminars for non-academic junior residents and has been conducting joint academic sessions.

CMEs/Workshops/Symposia/National and International Conferences

1. 6th Indian Lingual Orthodontic Conference, 29 August-2 September 2017, AIIMS, New Delhi
2. Indian Society of Dental Research Conference (ISDR), 30 September-2 October 2017, AIIMS, New Delhi

3. World Preventive Dentistry Conference (WPDC), 3-6 October 2017, New Delhi
4. Systematic approach to maxillofacial trauma hands-on workshop, 25 March 2018, New Delhi
5. AOCMF course—Management of facial trauma, 24-25 February 2018, New Delhi
6. CME on Full Month Rehabilitation during 19th Convention, 16-18 June 2017, Rishikesh
7. 30th Indian Society for Dental Research Annual Conference, 30 September-2 October 2017, New Delhi
8. Training of Dental Professionals on Tobacco Cessation in collaboration with Indian Dental Association, 7 May 2017, New Delhi
9. 2nd Academic Council Meeting of Indian Society of Pedodontics and Preventive Dentistry, 21 April, 2017, New Delhi
10. Revised American Academy of Endodontics Trauma Guidelines, 10 September 2017, New Delhi
11. 30th Annual Conference of Indian Society for Dental Research—IADR Indian Division, 30 September-2 October 2017, New Delhi
12. CDER CDE-14 Pediatric Dentistry Update—ECC Risk Assessment Based Management and Soft Tissue Laser Applications, 14 November 2017, New Delhi
13. National Dissemination Workshop for National Ethical Guidelines for Biomedical and Health Research involving Human Participants, 16 November 2017, New Delhi
14. Training of Dental Professionals on Tobacco Cessation in collaboration with Indian Dental Association (CDER CDE-15), 21 January 2018, New Delhi
15. 1st National Symposium of Indian Society of Dental Traumatology (CDER CDE-16), 13 February 2018, New Delhi
16. Training Programme for reviewers of Indian Journal for Dental Research (CDER CDE-17), 17 and 18 March 2018, New Delhi
17. Workshop on ‘Developing Protocol for Cochrane Systematic Review for Dental Professionals’, 26-28 April 2017, New Delhi
18. Preconference workshop on ‘Randomized Controlled Trials in Dentistry’ in 30th Annual Conference of Indian Society for Dental Research (IADR India Division) 2017, 30 September 2017, New Delhi
19. Workshop on developing protocol for Cochrane Systematic Review for Dental Professionals, 26-28 April 2017, AIIMS, New Delhi
20. Randomized Controlled Trials in Dentistry to be held in Dr O.P. Kharbanda Hall, Board Room, 30 September 2017, CDER, New Delhi
21. Screening and early detection of cervical, breast and oral cancer in the Dibrugarh, Assam: A demonstration project in TATA Tea gardens, 7-9 November 2017, Dibrugarh, Assam
22. Basic Life Support, 1 December 2017, Ghaziabad
23. Workshop on Forensic Facial Approximation, 29 September 2017, CDER, AIIMS, New Delhi
24. Hands-on Training Programme on Pit and Fissure Sealants Application for Dentists under School Health Programme, 12 January 2018, New Delhi
25. Systematic approach to maxillofacial trauma-hands on workshop, 25 March 2018, AIIMS, New Delhi

Lectures delivered

O.P. Kharbanda

1. Interdisciplinary Management of Cleft Lip and Palate, Evidence Based Dental Update, 7 May 2017, Indira Gandhi Institute of Medical Sciences, Patna
2. Digital Orthodontics: Clinical and Research Applications, 2nd South Asia International Orthodontic Congress and 7th Annual ODOAN Orthodontic Conference, 15-17 May 2017, Kathmandu, Nepal
3. Guest of Honor, Inaugural Function of IOS PG Orientation Programme 2017, 21 July 2017, Panjab University, Chandigarh
4. Advanced Technology of Automation in 3D Hardware Tissue and Airway Evaluation, Amrita IOS Orthodontic Convention, 3-5 August 2017, Amrita School of Dentistry, Cochin
5. Intraoral Molar distalization: Yesterday, Today and Tomorrow, 52nd Indian Orthodontic Conference, 16-19 November 2017, Birla Auditorium, Jaipur
6. Oral cancer, Technical Experts Workshop (WHO), 27-30 November 2017, Paro, Bhutan
7. Panel discussion, NANOBIOTECK-2017 Annual Conference, 6-7 December 2017, Trivandrum

8. Evidence based functional orthopaedics, Journal of Indian Orthodontic Society Symposium, 22-23 December 2017, Bharati Vidyapeeth University Dental College and Hospital, Pune
9. Dr R. Ahmed Oration: “Transforming Faces: Transforming Lives” decades of Excellence in Orthodontics, 71st Indian Dental Conference, 9-11 February 2017, Bhubaneswar
10. Interdisciplinary Cleft Care, 22nd IOS PG Students Convention, 15-18 February 2018, Dr DY Patil University, Mumbai
11. Surgical orthodontics: AIIMS experience, Live Orthognathic Surgical Workshop, 17-18 March 2018, AIIMS, Jodhpur
12. Biological phenomenon on MSI BONE and gingival interface for the stability and clinical success, 9th World Implant Orthodontic Conference, 2-4 July 2017, Kobe, Japan
13. Lectures to postgraduates at University of Western Australia, Perth and University of Sydney, Sydney, Australia; Research Discussions at La Trobe University, Bendigo, Australia, 21-23 August 2017 (Perth), 24-25 August 2017 (Sydney), 28-29 August 2017 (Bendigo), University of Western Australia, Perth, University of Sydney, and La Trobe University, Bendigo, Australia
 - a. Functional Jaw Orthopedics
 - b. Advance applications of miniscrew related orthodontics
 - c. Holistic approach in the management of cleft lip and palate
 - d. Holistic approach in the management of cleft lip and palate
 - e. Non extraction treatment
 - f. Miniscrew applications in orthodontics
14. Oral health and general health—The epidemiological issues and disease burden, 9th ADCOM Meeting 2017, 17-20 September 2017, China
15. Orthodontic aspects for malocclusion in Cleft Lip and palate patients, Sri Lanka Orthodontic Conference 2018, 19-22 January 2018, Colombo, Sri Lanka
16. Revalence of Cervical Vertebrae anomalies in patients with Cleft Lip and Palate 2; Influence of tongue volume, oral cavity volume and on upper airway: A cone beam computed tomography study, 26th Australian Orthodontic Conference, 7-12 March 2018, International Convention Centre, Sydney, Australia

Ritu Duggal

1. Laser therapy to accelerate rate of tooth movement, Is it really effective? Guest Speaker at 52nd Indian Orthodontic Conference, 17-19 November 2017, Jaipur

Ajoy Roychoudhury

1. Contemporary management of TMJ ankylosis, AOCMF Advanced Seminar, 27 October 2017, Wuxi Conference Center, Wuxi (China)
2. Paediatric mandibular fractures, Indian Society of Dental Trauma, 13 February 2018, AIIMS, New Delhi
3. Orthognathic surgery, 25th National Triple ‘O’ Symposium, 17 March 2018, BBD Dental College, Lucknow
4. Biomechanics of mandible and principles of osteosynthesis, Systematic Approach to Maxillofacial Trauma—Hands on Workshop, 25 March 2018, AIIMS, New Delhi
5. Treatment of symphysis and parasymphysis mandibular fractures, Systematic Approach to Maxillofacial Trauma—Hands on Workshop, 25 March 2018, AIIMS, New Delhi
6. Principles of buttress fixation, Systematic Approach to Maxillofacial Trauma—Hands on Workshop, 25 March 2018, AIIMS, New Delhi
7. Panfacial fractures and bone transplantation, Systematic Approach to Maxillofacial Trauma—Hands on Workshop, 25 March 2018, AIIMS, New Delhi

Veena Jain

1. Full mouth rehabilitation, Preconvention workshop, 19th Indian Prosthodontics Society PG Convention, 16th June 2018, Seema Dental College and Hospital, Rishikesh
2. Full mouth rehabilitation of mutilated dentition, 71st Indian Dental Conference, 9-11 February 2018, Bhubaneswar, Odisha
3. Soft tissue management in Fixed Prosthodontics, “Fixed Prosthodontics—Revisited”, 12 February 2018, ESIC Dental College and Hospital, Delhi
4. Rehabilitation of maxillary and mandibular defects, Master Class in Prosthodontics, 17-18 February 2018, Mahatama Gandhi Dental College and Hospital, Jaipur

Ongkila Bhutia

1. Pediatric mandibular condylar fractures, Systematic Approach to Maxillofacial Trauma—Hands on Workshop, 25 March 2018, AIIMS, New Delhi

Vijay Prakash Mathur

1. Lasers in Pediatric Dentistry, 'Pedotrends'—CME conducted by IDA Temple City Branch, 12 April 2017, Bhubaneswar
2. Clinical demonstration of Pit and Fissure Sealant, Workshop on Pit and fissure project-2017, National Oral Health Program, Ministry of Health and Family Welfare, Government of India, 1 May 2017, New Delhi, India
3. Essentials of bio medical ethics in research, Symposium on Faculty Development for RIMS Dental Institute, Ranchi, 13 May 2017, Ranchi
4. Adult teaching learning principles: An over sight into newer methods in training clinical disciplines, Symposium on Faculty Development for RIMS Dental Institute, 13 May 2017, Ranchi
5. Make in India and start up India with relevance to the pediatric dentistry, 39th ISPPD Conference, 14-16 September 2017, Chennai
6. Tips for clinicians for effective tobacco cessation counseling, Continuing Medical Education Programme for Railway Hospital, 14 August 2017, New Delhi
7. Brief intervention in dental operatory, Tobacco Intervention Initiative Training Programme for Dental Professionals, 24 September 2017, New Delhi
8. History of National Oral Health Programme, World NCD Congress, 4 November 2017, Chandigarh
9. Laser Symposium, 71st Indian Dental Conference, 9-11 February 2018, Bhubaneswar
10. Workshop on TII, 71st Indian Dental Conference, 9-11 February 2018, Bhubaneswar
11. Assessment of dental caries for health care workers and dental professionals, Dental Council of India MOHFW Workshop, 17-18 February 2018, Mumbai
12. Dental research, innovations and funding: A birds eye view, Ignite: The programme to promote research in youth. Organized by Bhartiya Vidyapeeth University, 21 February 2018, Pune
13. Publication ethics and authorship, Training Programme for Reviewers of Indian Journal for Dental Research (CDER CDE-17), 17-18 March 2018, New Delhi

Ajay Logani

1. Association between radiographic size of a periapical lesion and bacterial invasion of apical dentine in teeth with asymptomatic apical periodontitis, 18th Biennial ESE Congress, 14-16 September 2017, Brussels, Belgium
2. Cracked tooth: An enigma, 1st National Symposium on Cracked Tooth, 4-5 January 2017, Mumbai
3. Advancements in root canal disinfection, 71st Indian Dental Conference, 9-11 February 2017, Bhubaneswar, Odisha
4. Management of non vital immature permanent teeth—The CDER AIIMS experience, 1st Indian Society for Dental Traumatology National Symposium, 13 February 2017, AIIMS, New Delhi
5. Laser assisted root canal disinfection in primary teeth, ECC and Soft Tissue Lasers in Pediatric Dentistry, 14 November 2017, AIIMS, New Delhi

Prabhat Kumar Choudhari

1. Application of 3Dimensional Printing Technology in Orthodontics, 2nd South Asia International Orthodontic Congress, 16-17 May 2017, Kathmandu, Nepal (3rd Prize in Young Research Award—Undergraduate by Springer Publishing)
2. Novel intra-oral trans-mucosal drug delivery carrier with control release of Parathyroid Hormone (PTH) to accelerate orthodontic tooth movement: An innovative idea, EGHD-2017, 22-25 August 2017, Bharathiar University, Coimbatore (2nd Prize)

Nitesh Tewari

1. Intricacies in management of complex crown and crown root fractures in young permanent teeth, Managing Dental Trauma in Young Permanent Tooth—CDE Program, 15 April 2017, Jabalpur
2. Biomimetic apical plug placement in immature permanent teeth, Managing Dental Trauma in Young Permanent Tooth—CDE Program, 15 April 2017, Jabalpur
3. Pit and fissure sealant: Overview, Workshop on Pit and Fissure Project-2017, National Oral Health Program, Ministry of Health and Family Welfare, Government of India, 1 May 2017, New Delhi

4. Predictable success in dental trauma management: An insight into guidelines and regenerative approach, Dental Trauma Management—CDE Program of Indian Dental Association, 6 August 2017, Baroda
5. Avulsion of tooth: A treatise of evidence based guidelines and futuristic research, 39th Annual National Conference of Indian Society of Pedodontics and Preventive Dentistry—Pedosphere-2017, 15 September 2017, Chennai
6. Laser safety, CDER CDE-14: Pediatric Dentistry Update—ECC Risk Assessment Based Management and Soft Tissue Laser Applications, 14 November 2017, New Delhi
7. Diode laser applications in Dental Traumatology, CDER CDE-14: Pediatric Dentistry Update—ECC Risk Assessment Based Management and Soft Tissue Laser Applications, 14 November 2017, New Delhi
8. Stem Cell Applications in Dental Traumatology: The regenerative approach, 8th Asian International Association of Dental Traumatology, 20 November 2017, Bangkok, Thailand
9. Laser Biostimulation: Newer paradigms in regenerative dentistry and dental traumatology, 22nd UAE International Dental Conference and Arab Dental Exhibition, 6 February 2018, Dubai, UAE
10. Management of tooth avulsion: Guidelines and beyond, 22nd UAE International Dental Conference and Arab Dental Exhibition, 8 February 2018, Dubai, UAE
11. Pediatric dental trauma: How to manage its trauma in MDS examination, Pedovista: Rapid Revision by Indian Society of Pedodontics and Preventive Dentistry, 8 March 2018, Mumbai

Kalpana Bansal

1. Oral health issues during pregnancy, International Mid-wives Day Celebration by Society of Mid-wives of India, 5 May 2017, New Delhi
2. Early childhood caries—Recent concepts in etiology and caries risk assessment, CDER-CDE-14 Pediatric Dentistry Update, 14 November 2017, New Delhi
3. Changing concepts in caries microbiology—Guest lecture, ISPPD PG Convention, 9 February 2018, Vadodara, Gujarat

Dheeraj Kumar Koli

1. Full mouth rehabilitation, Preconvention workshop, 19th Indian Prosthodontic Society PG Convention, 16 June 2018, Seema Dental College and Hospital, Rishikesh

Shalini Gupta

1. Screening of oral cancer and precancers, Training of Trainers for ASHA workers organized by NHSRC, 12 May 2017, PFI, New Delhi
2. Screening of oral cancer and precancers, National Level Training of Trainers for Medical Officers on Population based screening under NPCDCS, 23 May 2017, Vardhman Mahavir Medical College, New Delhi
3. Screening of oral cancer and precancers, Training of Trainers for STAFF NURSEs organized by NHSRC, 24 May 2017, CDER, New Delhi
4. Screening of oral cancer and precancers, National Level Training of Trainers for Medical Officers on Population based screening under NPCDCS, 26 and 30 May 2017, New Delhi
5. Oral health and tobacco use, Workshop: World No Tobacco Day Theme: Capacity Building for Tobacco Cessation, 30 May 2017, AIIMS, New Delhi
6. Screening of oral cancer and precancers, Training of Trainers for ASHA workers organized by NHSRC, 31 May 2017, CDER, New Delhi
7. Screening of oral cancer and precancers, World Head and Neck Cancer Day Colloquium, 27 July 2017, NICPR, NOIDA
8. Screening of oral cancer and precancers, “Screening and early detection of cervical, breast and oral cancer in the Dibrugarh, Assam: A demonstration project in TATA Tea gardens”, 7-9 November 2017, Regional Cancer Hospital, Dibrugarh, Assam
9. Modalities of oral cancer screening, ECHO Session conducted by NICPR, 14 December 2017, NICPR, NOIDA

Kunal Dhingra

1. Effect of systematic review on quality of reporting of randomized controlled trials assessing probiotics for periodontal treatment, 4th Biennial Conference of PAi and International Symposium on Probiotic Therapy: Translating to Health and Clinical Practice, 16-17 February 2018, AIIMS, New Delhi

Vikender Singh

1. Surgical crown lengthening in Restorative Dentistry, Perio-Restorative Inter-relationship-CDE Program of Dental Surgeons Association of India, 11 March 2018, Gurgaon, Haryana, India

Deepika Mishra

1. The extent of the tobacco problem and effects of tobacco on general health and economy, Tobacco Intervention Initiative Training, 7 May 2017, CDER, AIIMS, New Delhi
2. Emerging role of oral microbiology in oral cancer, CME “Oral Microbiology”, 8 September 2017, AIIMS, Patna
3. Simplifying pathology of oral lesions, Tobacco Intervention Initiative Training, 21 January 2018, CDER, AIIMS, New Delhi
4. Oral cancer, Cancer Awareness Programme and Public Lecture on World Cancer Day, 4 February 2018, AIIMS, New Delhi

Harsh Priya

1. Infection control, Pit and Fissure Sealant Training Workshop for Dental Professionals under National Oral Health Programme, 1 May 2017, CDER, AIIMS, New Delhi
2. The Addiction Process and Behavioural Therapy, Tobacco Intervention Initiative Training Joint Collaboration of CDER and South Delhi DA Branch, 7 May 2017, CDER, AIIMS, New Delhi
3. Panel discussion—Let us cook—Implementation of National Oral Health Programme (NOHP), 11th National PG Convention of Indian Association of Public Health Dentistry on the theme Oral Health Programs: Reaching the Unreached, 12 May 2017, IGIDS, Puducherry
4. Tobacco cessation, Colloquium, Head and Neck Cancer Day, 27 July 2017, National Institute of Cancer Prevention and Research, NOIDA
5. Oral hygiene in paediatric oncology patients, Capsule on Infection Control, 12 August 2017, AIIMS, New Delhi
6. Prevalence of tobacco and its burden in India, Workshop on Tobacco Intervention Initiative Tobacco Cessation for Health Care Professionals, 24 September 2017, Maulana Azad Institute of Dental Sciences, New Delhi
7. Assessment of Oral Health Status and Treatment Needs: Findings from a Workplace Survey, 30th Annual Conference, Indian Society for Dental Research, (IADR Indian Division), 1 October 2017, New Delhi
8. Recent contributions of CDER, AIIMS, New Delhi towards NOHP, 22nd Annual Conference, Indian Association of Public Health Dentistry, 3 November 2017, Jawahar Medical Foundation’s A.C.P.M Dental College, Dhule
9. Potentially malignant and malignant lesions of the oral cavity: What next? NICPR-ECHO (Extension for Community Health Outcomes) Session, 21 December 2017, NICPR, NOIDA
10. The Addiction Process and Behavioural Therapy, Tobacco Intervention Initiative Training Joint Collaboration of CDER and South Delhi IDA Branch, 21 January 2018, CDER, New Delhi
11. NRT and Pharmacotherapy for Tobacco de Addiction, 71st Indian Dental Conference 2018, 11 February 2018, Bhubaneswar, Odisha

Oral papers/posters presented

1. Rajiv B, Kharbanda OP. Orientation of Cone Beam Computed Tomography image: Comparison of repeatability and reproducibility of difference orientation methods, 30th Annual ISDR Conference, 30 September-2 October 2017, New Delhi
2. Nitika M, Kharbanda OP, Neelapu B. A De Novo Method of 3D estimation of palatal volume in digital study models, 30th Annual ISDR Conference, 30 September-2 October 2017, AIIMS, New Delhi
3. Tabsuum, Kharbanda OP. Clinical relevance of biomarkers and (NA as Biomarker around miniscrew implant during orthodontic tooth movement, 30th Annual ISDR Conference, 30 September-2 October 2017, AIIMS, New Delhi
4. Sara AL, Kharbanda OP. Accelerated tooth movement—PRP a neoteric tool, 30th Annual ISDR Conference, 30 September-2 October 2017, AIIMS, New Delhi
5. Jitender, Kharbanda OP. Evaluation of pentraxin 3 in Peri miniscrew implant, crevicular fluid before and after orthodontic post application, 30th Annual ISDR Conference, 30 September-2 October 2017, AIIMS, New Delhi
6. Prakash, Kharbanda OP, Duggal R. A comparison of cephalometric superimposition measurement betn conventional and computerized cephalometric analysis software, 30th Annual ISDR Conference, 30 September-2 October 2017, AIIMS, New Delhi

7. Tabassum, Kharbada OP, Duggal R. Application of 3D printing Aligner Therapy: Contemporary application and future prospect, 52nd Indian Orthodontic Conference, 16-19 November 2017, Jaipur
8. Sara AL, Kharbada OP. Accelerated tooth movement—PRP a neoteric tool, Sri Lanka Orthodontic Conference 2018, 19-22 January 2018, Sri Lanka
9. Jitender, Kharbada OP. Evaluation of pentraxin 3 in Peri miniscrew implant, crevicular fluid before and after orthodontic post application, Sri Lanka Orthodontic Conference 2018, 19-22 January 2018, Colombo, Sri Lanka **(2nd Best poster presentation)**
10. Kaur K, Roychoudhury A, Bhutia O, Seith A, Pandey RM, Bhatt K, Yadav R, Goswami D. Clinical evaluation of Kaban's protocol for the treatment of TMJ ankylosis, AAOMS 99th Annual Meeting, Scientific Sessions and Exhibition, 9-14 October 2017, San Francisco
11. Roychoudhury A, Acharya S, Bhutia O, Seith Bhalla A, Manchanda S, Pandey P. A cluster randomized controlled clinical trial to evaluate fate and volumetric shrinkage of interposed pedicled buccal pad of fat and abdominal fat in the treatment of TMJ ankylosis, AAOMS 99th Annual Meeting, Scientific Sessions and Exhibition, 9-14 October 2017, San Francisco **(2nd Best poster presentation)**
12. Dhankar R, Koli D, Jain V. Clinical consideration in mandibular posterior immediate implant, Preconvention workshop, 19th Indian Prosthodontic Society PG Convention, 16-18 June 2018, Rishikesh
13. Subin, Koli D, Jain V. Prosthodontics management of ectodermal dysplasia case series, Preconvention workshop, 19th Indian Prosthodontic Society PG Convention, 16-18 June 2018, Rishikesh
14. Zeel N, Koli D, Jain V. Prosthodontics rehabilitation of hemimandibulectomy—Case series, Preconvention workshop, 19th Indian Prosthodontic Society PG Convention, 16-18 June 2018, Rishikesh
15. Singh P, Koli D, Jain V (Paper). Management of case multiple worn out single piece ball attachment—Case report, Preconvention workshop, 19th Indian Prosthodontic Society PG Convention, 16-18 June 2018, Rishikesh
16. Raaz R, Shahbaz, Koli D, Jain V. Innovative prosthodontics technique for rehabilitation of midfacial defect—A case report, 30th Annual Conference ISDR, New Delhi, 30 September-2 October, New Delhi
17. Dhankar R, Subin, Koli D, Jain V. Prosthetic rehabilitation of a patient with mandibulectomy—Case series, 30th Annual Conference ISDR, New Delhi, 30 September-2 October 2017, New Delhi
18. Zalavadia J, Kumar N, Koli D, Jain V. "Retentive aids in orbital prosthesis", 30th Annual Conference ISDR, New Delhi, 30 September-2 October 2017, New Delhi
19. Bharati V, Uvashri, Koli D, Jain V. Ectodermal dysplasia: Clinical consideration and prosthodontic options, 30th Annual Conference ISDR, New Delhi, 30 September-2 October 2017, New Delhi
20. Koli D, Jain V (paper). Prosthodontic treatment outcome in Mandibulectomy patients with or without reconstruction—A 2 year retrospective study, Joint Meeting of ISMR, 28-31 October 2017, San Francisco, CA, USA
21. Krunal T. Effect of intracanal cryotherapy on pain after single-visit root canal treatment, 18th IACDE and IES PG Convention, 5-8 April, 2017, Gurgaon
22. Ramnanai H, Logani A. A proposed sandwich technique for managing traumatized teeth, 18th IACDE and IES PG Convention, 5-8 April, 2017, Gurgaon
23. Paulose P, Kumar V, Logani A. How large a canal apical diameter should I instrument to? 18th IACDE and IES PG Convention, 5-8 April 2017, Gurgaon
24. Gill S, Chawla A, Kumar V, Logani A. Minamata convention, 18th IACDE and IES PG Convention, 5-8 April 2017, Gurgaon
25. Kaur A. Use of Low Intensity Pulsed Ultrasound (LIPUS) as an adjunct for non surgical management of large periapical lesions of endodontic origin: A case report, 32nd IACDE and 25th IES National Conference, 24-26 November 2017, Ahmedabad
26. Sahu M, Chawla A, Loagni A. Strategies to enhance microtensile bond strength of composite resin restorition in a cavity previously restored with amalgam: An ex vivo study, 32nd IACDE and 25th IES National Conference, 24-26 November 2017, Ahmedabad
27. Gupta S, Kumar V, Logani A. A rodent model study to quantify the acceptable levels of inoculated dentinal debris in context to periapical extrusion during non—Surgical endodontic therapy, 32nd IACDE and 25th IES National Conference, 24-26 November 2017, Ahmedabad
28. Gunadhar K, Kumar V, Logani A. Odontogenic sinus tract associated with lesions of endodontic origin: A case series, 32nd IACDE and 25th IES National Conference, 24-26 November 2017, Ahmedabad
29. Sahu M. Mangement of external cervical resorption by using advanced diagnostic aids and material, 19th IACDE-IES PG Convention, 15-18 February 2018, Gulbargh

30. Gill S, Krunal T, Logani A. Influence of apical extent of Mineral Trioxide Aggregate (Mta) plug on periapical healing of non-vital immature teeth—A 18 months follow up study, 19th IACDE-IES PG Convention, 15-18 February 2018, Gulbargh
31. Kumar A, Saini A, Chawla A, Logani A. July phenomenon, 19th IACDE-IES PG Convention, 15-18 February 2018, Gulbargh
32. Mohd A. Long-term sequelae of anti-cancer therapy (act) in children: An oral health perspective, 30th Annual Conference of Indian Society for Dental Research—IADR Indian Division, 30 September-2 October 2017, New Delhi
33. Mohd A. Photobiomodulation: Mechanism and Clinical Application in Millennial Pediatric Dentistry, 39th ISPPD Conference, 14-16 September 2017
34. Bansal K. Assessment of Peri-natal Oral Health and Implementation of Oral Health Promotion Program in Indian Pregnant, 39th ISPPD Conference, 14 September 2017, Chennai
35. Bansal K. Effects of an oral health promotion program for Indian pregnant women—An AIIMS experience, 30th Annual Conference of Indian Society for Dental Research— IADR Indian Division, 1 October 2017, New Delhi
36. Madhubala A. Recent advances of pulpotomy in primary dentition: A literature review, 30th Annual Conference of Indian Society for Dental Research—IADR Indian Division, 30 September-2 October 2017, New Delhi
37. Madhubala A. Comparative evaluation of color change in esthetic restorative material due to coloring agents consumed by Indian children: An in-vitro study, 39th ISPPD Conference, 14-16 September 2017 (**Best Poster Post graduate category**)
38. Tewari N. Long term sequelae of primary tooth trauma, 30th Annual Conference of Indian Society for Dental Research—IADR Indian Division, 30 September-2 October 2017, New Delhi
39. Chawla A. Endodontics in the Era of Implants, 19th Scientific Congress of Asian Pacific Endodontic Confederation and 18th ACDE and IES PG Convention, 5-8 April 2017, Gurgaon
40. Chawla A. Ergonomically designed patient drape, 30th ISDR National Conference 2017, 30 September, 1 and 2 October 2017, New Delhi
41. Gill S, Chawla A, Kumar V, Logani A. Minamata Convention, 18th IACDE and IES PG Convention, 5-8 April 2017, Gurgaon
42. Sahu M, Chawla A, Logani A (Paper). Strategies to enhance microtensile bond strength of composite resin restorations in a cavity previously restored with amalgam: An ex vivo study, 32nd IACDE and 25th IES National Conference, 24-26 November 2017, Ahmedabad
43. Kumar A, Saini A, Chawla A, Logani A. July phenomenon, 19th IACDE—IES PG Convention, 15-18 February 2018, Gulbargh
44. Kumar V. Use of Dental Operating Microscope in endodontic practice and training at Indian dental institutes: A questionnaire-based study, The 19th Scientific Congress of Asian Pacific Endodontic Confederation and 18th IACDE and IES PG Convention, 5-8 April 2017, Gurgaon
45. Kumar V. Effects of Photo activated disinfection on the stability of Dentin Collagen and micro leakage in composite restoration, 30th ISDR National Conference - 2017, 30 September, 1 and 2 October 2017, New Delhi
46. Paulose P, Kumar V, Logani A. How large a canal apical diameter should I instrument to? The 19th Scientific Congress of Asian Pacific Endodontic Confederation and 18th IACDE and IES PG Convention, 5-8 April, 2017, Gurgaon
47. Gill S Chawla A, Kuma V, Logani A. Minamata Convention, The 19th Scientific Congress of. Asian Pacific Endodontic Confederation and 18th IACDE and IES PG Convention, 24-26 November, 2017, Gurgaon
48. Gupta S, Kumar V, Logani A. A rodent model study to quantify the acceptable levels of inoculated dentinal debris in context to periapical extrusion during non-surgical endodontic therapy, 32nd IACDE and 25th IES National Conference, 24-26 November 2017, Ahmedabad
49. Gunadhar, Kumar K, Logani V. A odontogenic sinus tract associated with lesions of endodontic origin: A case series, 32nd IACDE and 25th IES National Conference, 24-26 November 2017, Ahmedabad
50. Chaudhari PK. Role of orthodontists in cleft care, IMSACON-2017, 11-12 November 2017, Shimla
51. Athar S, Usmani AR, Khan AA, Chaudhari PK, Tariq M. Demonstration of physical effects on the assembly of modeled teeth and mandible through finite element analysis, 15th International Conference on Humanizing Work and Work Environment, 18-20 December 2017, Aligarh Muslim University, Aligarh
52. Tabbasum Q, Kharbanda OP, Chaudhari PK. Applications of 3D Printing in Aligner therapy: Contemporary applications and future prospects, 52th Indian Orthodontic Society Conference, 17-19 November 2017, Jaipur

53. Chaudhari PK, Dhingra K. Current Application of 3D Printing in Dentistry, 30th Indian Society for Dental Research (ISDR) Conference, 1-2 October 2017, New Delhi
54. Gupta S. Osteonecrosis of the Jaws after cancer therapy: An Oral Physician's perspective for Prevention Diagnosis and Management, International Academy of Oral Oncology 2017, 19 May 2017, Bengaluru
55. Gupta S. Association of High risk HPV infection in oral verrucous leukoplakia—A pilot study, Indian Society for Dental Research 2017, 1 October 2017, New Delhi
56. Gupta S. To study the correlation between serological levels of HIF-1 α and VEGF-A in Oral Submucous Fibrosis—A pilot study, World Congress on Preventive Dentistry IADR 2017, 4 October 2017, New Delhi
57. Gupta S. Pterygoid hamulus bursitis: An unusual cause of orofacial pain, Indian Academy of Oral Medicine and Radiology 2017, 2 December 2017, ITS Dental College and Hospital, Ghaziabad
58. Chaudhari PK, Dhingra K. Current Applications of 3D Printing in Dentistry, 30th Annual Conference of Indian Society for Dental Research (IADR India Division) 2017, 30 September-2 October 2017, New Delhi
59. Dhingra K, Vandana KL. The Effectiveness of Low Cost Turmeric (*Curcuma longa*) Mouthrinse in Plaque and Gingivitis Control: A Systematic Review, 11th IADR World Congress on Preventive Dentistry 2017, 3-6 October 2017, New Delhi
60. Dhingra K. Oral health and Non-communicable diseases, 36th IMSACON 2017, 11-12 November 2017, Shimla
61. Dhingra K, Chaudhari PK. Oral health and Non-communicable diseases, 36th IMSACON 2017, 11-12 November 2017, Shimla
62. Singh V. Treatment considerations for the management of gingival recession associated with non-carious cervical lesions, 42nd National Conference of Indian Society of Periodontology, 26 October 2017, Kolkata
63. Singh V. Principles and Applications of Periodontal Microsurgery: An Update, 30th Annual Conference of Indian Society for Dental Research (IADR- Indian Division), 1 October 2017, New Delhi
64. Bhatia A, Singh V. Single visit multiple recession coverage procedure in full arch: A case series, 30th Annual Conference of Indian Society for Dental Research (IADR- Indian Division), 1 October 2017, New Delhi
65. Singh V. Keratinized Tissue around implants: An insight into evidence-based recent methodologies, 9th International Congress of Academy of Oral Implantology, 4 June 2017, New Delhi
66. Mishra D, Kharbanda OP, Gupta, SS, Chauhan, Shrivastava A, Dutta S, Gupta S, Deo SVS, Ralhan R. Etiology of Oral Cancer in Indian population younger than 40 years, 6th World Congress International Academy of Oral Oncology (IAOO), 17 May 2017, Bengaluru
67. Mishra D, Kharbanda OP, Shrivastava A, Deo SVS, Qaiser D, Yadav R, Bhatt K, Gupta S. Detection of oral potentially malignant disorders and oral cancer with fluorescein dye, 6th World Congress International Academy of Oral Oncology (IAOO), 1 October 2017, Delhi
68. Mishra D. Comparison of oral Cytology grading systems (PAP and Bethesda) in evaluating oral lesions: A prospective and blinded pilot study, 26th National Conference Indian Association of Oral and Maxillofacial Pathologists, 17 November 2017, Bhubaneshwar

RESEARCH

Funded projects

Ongoing

1. A prospective pilot study to evaluate the clinical success of a tooth colored metal free Self-Curing Resin-based material as an alternate to silver amalgam for Class-II Posterior Restoration, Amrita Chawla, AIIMS, 2 years, 2017-2019, Rs 3.7 lakhs
2. Assessment of microflora of severe dental caries in Indian children using anaerobic culture and molecular techniques, Kalpana Bansal, AIIMS, 2 years, 2016-2018, Rs 4.65 lakhs per year
3. Association between serological levels and genetic polymorphisms of VEGF A and C with clinicopathological characteristics in oral squamous cell carcinoma and oral submucous fibrosis—A pilot study, Shalini Gupta, AIIMS, 2 years, 2016-2018, Rs 9.9 lakhs
4. Building research capacity in India: Identifying barriers and enablers to oral health research, O.P. Kharbanda, IADR-RDP, 2 years, 2016-2018, Rs 25.97 lakhs
5. Cleft Lip and Palate Anomaly in India: Clinical profile, risk factors and current status of treatment: A hospital based study-Main Phase, O.P. Kharbanda, ICMR, 3 years, 2017-2020, Rs 50.07 lakhs (for one year)
6. Cluster randomized controlled superiority trial to evaluate the growth outcomes and jaw functions after interposition arthroplasty with constochondral graft versus gap arthroplasty in the management of temporomandibular ankylosis, Ajoy Roychoudhury, ICMR, 2 years, 2016-2018, Rs 15.46 lakhs

7. Cone Beam Computed Tomographic evaluation of two novel techniques as adjuncts for non surgical management of large periapical lesions of endodontic origin—Prospective randomized double blind controlled trial, Ajay Logani, ICMR, 2 years, 2016-2018, Rs 30 lakhs
8. Effect of nonsurgical periodontal therapy on metallothionein expression and levels in serum, saliva and gingival crevicular fluid: An interventional study, Vikender Singh, AIIMS, 1 year, 2017-ongoing, Rs 4.5 lakhs
9. Effect of systemic and local antibiotic therapies on clinical and patient reported outcomes in healthy, partially dentate patients undergoing dental implant placement- a preliminary study, Veena Jain, AIIMS, 2 years, 2016-2018, Rs 3.98 lakhs
10. Effect of various tooth storage media on viability, proliferative ability and differentiation of human periodontal ligament stem cells-an in-vitro preliminary study, Nitesh Tewari, AIIMS, 1 year, 2017-2018, Rs 4 lakhs
11. Evaluation of inflammatory markers metalloproteinase-8 (MMP-8) and cathepsin-k (CTSK) levels in immediate loaded and delayed loaded dental implants: A randomized controlled trial and pilot study, Dheeraj Kumar Koli, AIIMS, 2 years, 2017-2019, Rs 4 lakhs
12. Evaluation of the effects of miniplate anchored hybrid fixed functional appliance in post adolescent and young adults with Class II malocclusion, Vilas Samrit, AIIMS, 2 years, 2016-2018, Rs 3.67 lakhs
13. In-vitro efficacy and safety evaluation of novel mucoadhesive silver nanoparticle based local drug, Kunaal Dhingra, AIIMS, 1 year, 2016-2017, Rs 5 lakhs
14. Maxillofacial Planning and simulation system, Ajoy Roychoudhury, Ministry of Electronics and Information technology, 2 years, 2016-2018, Rs 131.93 lakhs
15. Oral Health Mobile Application and Website, Harsh Priya, MoHFW, 2 years, 2018-2020, Rs 35.50 lakhs
16. Pilot Project on School Based Sealant Programme under NOHP, Harsh Priya, MoHFW, 1 year, 2017-2018, Rs 3.6 lakhs

Completed

1. Study of cellular responses secondary to biochemical surface modification of medical Grade V titanium alloy for orthodontic miniscrews, OP Kharbanda, AIIMS, 1 year, 2016- 2017, Rs 5 lakhs

Departmental projects

Ongoing

1. A 3D study of treatment changes following maxillary protraction protocol in growing class III patients using digital models
2. A prospective study to observe the influence of co-existing traumatic overbite on the outcome of Non-Surgical Endodontic Therapy (NSET) performed on anterior teeth with periapical pathosis
3. A prospective study to observe the influence of immediate functional Vs. non functional loading of full coverage prosthesis in the outcome of non surgical endodontic therapy performed in posterior teeth with periapical pathology
4. Ambsperspective study to evaluate the fate of Costochondral Graft in TMJ ankylosis patients from January 2014 to April 2018
5. An ex-vivo study to explore the strategies for enhancing the micro-tensile bond strength of composite resin in cavity previously restored with amalgam
6. An observational analytical study to evaluate the effects of Anti-cancer therapy on developing dentition in long term survivors of childhood cancers
7. Analysing the long term effects of primary tooth trauma on permanent dentition
8. Assessment of single versus subsequent Micro osteoperforation stimulated expression of IL-1 β levels during Orthodontic Tooth Movement—A pilot study
9. Comparative evaluation of different root surface bio-modification methods in teeth with extra oral dry times more than 60 minutes
10. Comparative evaluation of Diode Lasers and conventional surgical technique in soft tissue procedures
11. Comparative evaluation of directly placed composites and direct composites inlays in primary teeth
12. Comparative evaluation of Simvastatin Gel and Diode Laser for pulpotomy in primary molars: Single blind phase 2 randomized trial
13. Comparative Evaluation of Success of Silver Modified Atraumatic Restorative technique with Conventional Restorative technique on Carious Primary molars—A randomized controlled trial

14. Comparative evaluation of success rate of modified nasolabial flap vs buccal fat pad transfer in reconstruction of intraoral defects after fibrotomy in patients with oral sub mucous fibrosis
15. Comparative evaluation of the wear of glazed zirconia crown, polished zirconia crown and opposing natural enamel: An in vivo study
16. Comparison of efficacy of Mitek mini anchor suture technique with conventional technique for TMJ disc placcation procedure in Wilkes class III patients: A randomized controlled trial
17. Comparison of post extraction bleeding complication in patients taking oral anticoagulants, with and without bridging therapy: A pilot study
18. Comparison of treatment outcomes subcondyle fracture of mandible, managed using one trapezoidal plate vs two nonparallel straight miniplate
19. Cone beam computed tomographic characterization of periapical lesions that are evident on intraoral periapical radiographs: A retrospective analysis
20. Effect of prosthodontic rehabilitation on functional and esthetic outcomes in non-reconstructed mandibulectomy patient—A preliminary study
21. Effect of prosthodontic rehabilitation on the nutritional status of maxillectomy patients using blood biochemistry, bca and pg-sga—A preliminary study
22. Effect of two time micro-osteperforations on rate of orthodontic tooth movement—A pilot study
23. Effects of locally injected platelet rich plasma on the rate of tooth movement during maxillary canine retraction: A pilot study
24. Evaluation of change in airway volume and quality of life of OSA patient with TMJ ankylosia before and after distraction osteogenesis
25. Evaluation of rank1 in gcf and rate of tooth movement during canine retraction assisted with low level laser therapy—A randomized control trial
26. Evaluation of the effect of prosthodontic rehabilitation on quality of life and psychological distress in maxillectomy patients: A preliminary study
27. Feasibility of the International Caries Classification and Management System protocol in a hospital based setting
28. Prospective study to evaluate the stability after zygomatic osteotomy in patients with post traumatic residual deformity of Zygomatico Maxillary Complex
29. Randomized controlled trial to evaluate the treatment outcomes of transparotid and transmasseteric anterior parotid approached to treat mandibular subcondylar fractures
30. Reliability and validity of cephalometric superimposition measurements: A comparison of conventional and computerized cephalometric softwares—Using Rickett's Superimposition Methods
31. Stress distribution pattern in two different types of removable partial dentures on the supporting structures—A 3d finite element analysis and a clinical study
32. The effect of locally injected platelet rich plasma on the rate of tooth movement during maxillary canine retraction—A pilot study
33. The effect of mandibular single implant supported overdenture on residual ridge resorption
34. The effect of prosthodontic rehabilitation of completely edentulous geriatric patients with mild cognitive impairment on their memory process—A functional mri based pilot study
35. The influence of the severity of periodontal disease on periapical healing after non-surgical endodontic therapy in teeth with concomitant endodontic periodontal lesions without communication—A prospective study
36. To compare the effect of l-prf or alloplastic graft material on crestal bone levels around immediate implant placed in mandibular molar region

Completed

1. A cross-sectional pathfinder study to assess the serum vitamin d level in patients undergoing non surgical endodontic therapy and observe its potential association with periapical healing
2. A preliminary clinical study to evaluate the effect of minimal invasive endodontic treatment protocol on apical augmentation of non-vital immature permanent anterior teeth
3. A randomized controlled trial for comparison of success rate between costochondral graft interpositional arthroplasty and transport distraction ostogenesis in treatment of temporomandibular joint ankylosis
4. A randomized controlled trial to determine the optimal apical size for non-surgical endodontic retreatment

5. An established rodent model study to quantify the acceptable levels of inoculated dentinal debris in context to periapical extrusion during non –surgical endodontic therapy
6. An evaluation of effect of shortened dental arch on the thickness of masseter muscle and bite force: A preliminary study
7. Circulating cell-free nucleic acids as biomarker around miniscrew site during orthodontic tooth movement—A quantitative analysis
8. Comparative evaluation of crestal bone level and implant stability around immediate implant using PRF and autoplast as graft material
9. Evaluation of white spot lesions post fixed orthodontic treatment using visual examination, laser fluorescence and operating microscope: A comparative clinical study
10. Genetic profiling of non syndromic Pierre Robin Sequence patients by whole exome sequencing and microarray,
11. Quantitative evaluation of high mobility group box 1 protein level around miniscrew site during orthodontic tooth movement
12. Quantitative evaluation of human macrophage colony stimulating factor levels in peri-miniscrew implant fluid before and after force application
13. Quantitative evaluation of Pentraxin-3 levels in peri-miniscrew implant crevicular fluid before and after orthodontic force application
14. Reliability and validity of cephalometric superimposition measurements: A comparison of conventional and computerized cephalometric analysis softwares using ricketts superimposition method
15. To evaluate the effect of low level laser therapy on rate of orthodontic tooth movement

Collaborative projects

Ongoing

1. Pilot Implementation of Collaborative Digital Diagnosis System (Collards) using Medical Imaging, National Informatics Centre (NIC), New Delhi, Central Scientific Instruments Organisation, Chandigarh; Indian Institute of Technology, Mumbai; Radiodiagnosis, AIIMS, New Delhi
2. Design and testing of orthodontic miniscrew embedded with sensors to detect inflammation—Phase I, Biomedical Engineering, Indian Institute of Technology, New Delhi
3. Functional collagen nanoparticle impregnated silk nano-ceramic composite 3D matrices for flat bone regeneration, IIT Guwahati
4. Assessment of microflora of severe dental caries in Indian children using anaerobic culture and molecular techniques, Microbiology
5. Effect of various tooth storage media on viability, proliferative ability and differentiation of human periodontal ligament stem cells—An in-vitro preliminary study, Stem Cell Facility
6. An exploratory study to assess the association between Nicotine Metabolite Ratio (NMR) and Smokeless Tobacco Use parameters, Psychiatry and NDDTC
7. Effect of repetitive Transcranial Magnetic Stimulation on pain status, thermal sensitivity and motor activity in Myofascial Pain Dysfunction Syndrome, Physiology
8. A Population based prospective cohort study to unravel the causes of stroke and cognitive decline: A cross cultural perspective, Neurology and Clinical Epidemiology
9. Estimate the oral cancer conversion risk with long term follow up (10-15 years) of patients with precancerous lesions-leukoplakia, submucous fibrosis, lichen planus among patients included in a ICMR tobacco task force project, General Surgery and NICPR, Noida
10. Cleft Lip and Palate anomaly in India: Clinical profile Risk factors and current status of treatment: A hospital based study-Main Phase, Genetics and CSIR-IGIB
11. To assess the potential ability of Cathepsin L and Cathepsin B as universal biomarkers of cancer, Biochemistry
12. To compare the effectiveness of an Oral Health Toolkit for Paediatric Oncology Patients against Standard of Care in the improvement of oral health status., Paediatric Oncology, Psychiatry and Community Medicine

Completed

1. Automatic segmentation of upper airway using CBCT scans data, Central Scientific Instruments Organisation (CSIO), Chandigarh
2. Assessment of peri-natal oral health and Implementation of oral health promotion program in Indian pregnant women, Gynecology and Obstetrics

3. Association between serological levels and genetic polymorphisms of VEGF A and C with clinicopathological characteristics in oral squamous cell carcinoma and oral submucous fibrosis—A pilot study, Biochemistry
4. Interdisciplinary variations in spectrum of oral mucosal lesions, Dermatology

PUBLICATIONS

Journals: 35

Abstracts: 2

PATIENT CARE

Speciality Clinic Data

S. No.	Clinics	New	Old	Total
1.	Trigeminal Neuralgia	143	182	325
2.	Combine Cleft Palate	251	1713	1964
3.	Oral Prophylaxis	12,075	5232	17,307
4.	Orthodontics	4124	18224	22348
5.	Prosthodontics	7681	11875	19556
6.	Restorative-cum-Endodontic	10,413	18,820	29,233
7.	Oral and Maxillofacial Surgery	15,275	22,099	37,374
8.	Pedodontics	5444	14,938	20,382
9.	Periodontics (Minor Surgery)			701
10.	OPD Patients	46,788	13,768	60,556
11.	Operation	Major	Minor + Extraction	Total
		740	1379 + 20,890	23,009
12.	Radiology (X-rays)			60,634

Orthodontics and Dentofacial Deformities: During the year under review we have provided greater emphasis on Interdisciplinary treatment of patients with Cleft Lip and Palate.

Oral and Maxillofacial Surgery: The following have been our focus

1. Exodontia, simple and complicated
2. Temporomandibular Joint Surgery
3. Cranio-facial trauma
4. Orthognathic and Aesthetic Surgery of face
5. Oral and Maxillofacial Pathology
6. Maxillofacial Infections
7. Surgery for Obstructive sleep apnea
8. Trigeminal neuralgia Clinic
9. Osteodontokeratoplasty

Prosthodontics: We provide diagnostic and treatment facilities to the patients requiring dental rehabilitation of complete and partially edentulous jaws. The division is also running specialty clinic on Oral and Maxillofacial Prosthodontics, implant dentistry and temporomandibular disorders. Different types of prosthesis which are providing to the patients are Complete denture, Removable Partial Denture, Crown and Bridge work, Laminates, Occlusal splints, Implant supported Prosthesis (Removable and Fixed), and Maxillofacial Prosthesis (Extra oral/ Facial and Intra oral). Two laboratory facilities are available for fabrication of removable and fixed Prosthodontic appliances.

Pedodontics and Preventive Dentistry: In addition to the routine procedures, we excel as one of the best centres for Pediatric Soft tissue Laser dentistry in India with a dedicated Minor OT for the same. Special Care Dentistry is an integral part of our work spectrum with large number of referrals from pediatric nephrology, oncology, gastroenterology, neurology, cardio-thoracic surgery and hematology. Dental caries preventive protocol is strictly followed as per the international guidelines with ultra modern strategies. Traumatic Dental injuries reporting in primary and permanent dentition are all managed on emergent.

Conservative Dentistry and Endodontic: The specialty clinic of Conservative Dentistry and Endodontics is held twice a week. A non surgical and surgical endodontic Retreatment clinic has been initiated and is held once a week.

Oral Medicine: Speciality Clinic: Oral Ulcers Clinic (Wednesday 2.00 PM); Cone Beam Computed Tomography facility in Oral Medicine and radiology CDER.

Periodontics

Various treatment procedures carried out are:

- Conventional non-surgical and surgical periodontal therapy
- Periodontal plastic surgery
- Soft and hard tissue regenerative procedures
- Diode laser assisted soft tissue excision and adjunctive pocket debridement procedures

Public Health Dentistry

- Community Service—Implementation of School Based Pit and Fissure Sealant Application Program in SDMC schools in the months of October, November, December, January and February
- Monthly Oral Health Awareness at the Children Day Celebration at the Paediatric OPD and the D5 Wards
- Organised an in-house lecture on “Improving Proficiency among Oral-health Para-professionals in Early Detection of Oral Cancer” on 19 December 2017 at fourth floor seminar room, CDER, AIIMS, New Delhi
- Hands-on Training Programme on Pit and Fissure Sealants Application for Dentists under School Health Programme in South Delhi Municipal Corporation on 12 January 2018
- Oral Health Promotion Drive on the occasion of International Childhood Cancer Day on 26 February 2017 at the Jawaharlal Nehru Auditorium at AIIMS, New Delhi
- Participated in the Video Conferencing on “Efforts of Dental Surgeon towards NOHP” as a Resource Person for all dental surgeons in various districts of Puducherry through State Nodal Officer, Puducherry on 28 February 2018
- Organized a week long Oral Health Awareness Exhibition at CDER, AIIMS, New Delhi on the occasion of the World Oral Health Day from 20-24 March 2018
- Contributing and participating at the Oral Health Promotion Manuals for School Teachers and Health Workers launch developed under National Oral Health Programme on 20 March 2018 at Room 249 A, Nirman Bhawan, MoHFW

Oral Pathology and Microbiology

1. Oral Cytopathology reporting at CDER
2. Started Oral Histopathology laboratory at CDER

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor O.P. Kharbanda was unanimously nominated as President of International College of Dentists, India, Sri Lanka and Nepal Section; Invited to deliver the Dr R. Ahmed Oration during “71st Indian Dental Conference” titled “Transforming Faces: Transforming Lives” decades of Excellence in Orthodontics at Bhubaneswar; Made contribution to Australian Orthodontic Journal and continues on international Editorial Board; Continues on the International Editorial Board of British Journal of Orthodontics; Organized “World Conference on Preventive Dentistry Conference” in collaboration with International Association of Dental Research, supported by WHO; The conference was held for the first time in India. CDER celebrated World Oral Health Day and Dental Exhibition on 20 March 2018 at AIIMS; Expert member of Faculty Selection at AIIMS Bhubaneswar; PG Examiner at Tribhuvan University Nepal and Swami Vivekanand Subharti University, Meerut; Chief Resource Faculty at “7th Insight Into Orthodontic Postgraduate Examination” at Jamia Millia Islamia, New Delhi; Attended meeting of Board of Research Study of the Dr DY Patil Vidyapeeth University, Pune; Appointed Expert Committee Member of UGC for assessment of Infrastructural and other facilities of West Bengal university of Health Sciences, Kolkata; Expert to ICMR to review the research projects in the field of Oral Health and Postgraduate Research Grants; Invited by Lok Sabha Television to participate in “Health Show” programme; made significant contribution to WHO, National Oral Health Program and as advisor to government of India on National Oral Health Policy; Two training manuals were developed and released on 20 March 2018 on the occasion of World Oral Health Day. 1. Manual on Oral Health for School Teachers and 2. Manual on Oral Health for Health Care Workers. Monitored and Supervised the entire process of bringing out guidelines and a regional guidance template on Early Detection of Oral Cancer in SEAR Countries. Presented the regional template on oral cancer at the WHO NCD Meet at Paro, Bhutan 22-28 November 2017; invited to Orthodontic Departments at the University of Sydney, University of Western Australia Perth and La Trobe University at Melbourne to give course to postgraduates in orthodontic discipline; *Under National Oral Health Programme, undertook the following activities:* Led organising committee for Training Workshop on School Based Pit and Fissure Sealant Project for Dental Surgeons held on 1 May 2017; Led team for training ASHA, ANM, Staff Nurse and Medical Officers in Early Detection of Oral Cancer and Potentially Malignant Oral Lesions as part of Population Based Screening Programme for Common Cancers and NCDs May 2017; Led team as chairman of committee for development of a mobile app and a website under NOHP called the e-dantseva, July 2017 Onwards; led team of technical experts for development of training

manuals on Oral health Promotion for School Teachers and Health Workers March 2017-March 2018; Is chairman of Task force to bring out operational Guidelines for Dental Care as a part of Comprehensive Primary Health Care, draft guidelines have been developed. December 2017-March 2018; An Oral Health Exhibition has been created at CDER.

Professor Ritu Duggal is expert for Recruitment of Faculty at Government Institute of Medical Sciences, Village Kasna, Greater Noida, Gautam Budh Nagar; Invited as a member of the Expert Committee for Selection of Senior Research Associates (Pool Scientists) CSIR Pusa, New Delhi; Guest Speaker at 52nd Indian Orthodontic Conference held at Jaipur; Expert Member for Recruitment/Promotion of Faculty in the Faculty of Dental Science, Institute of Medical Sciences of the University, Banaras Hindu University, Varanasi. Affiliation of MDS seats in the Department of Orthodontics and Dentofacial Orthopedics in ITS Centre for Studies and Research, Moradnagar, Ghaziabad by Ch. Charan Singh University, Meerut; Expert Committee Member for hearing to Dental Colleges for starting/increase of seats/renewal of MDS/PG Courses for the Academic Session 2017-18 at Ministry of Health and Family Welfare, Department of Health and Family Welfare; Panelist for CME in Orthodontics entitled “An Insight into Orthodontic Post Graduate Examination-2018” held at Jamia Millia Islamia, New Delhi; Subject expert to carry out inspection for extension of affiliation in MDS Course at Ch. Charan Singh University; Examiner to conduct Oral and Practical Examination in Orthodontics at Faculty of Dental Sciences, K.G’s Medical University Lucknow, Maulana Azad Institute of Dental Sciences, New Delhi, M.M. College of Dental Sciences and Research, Mullana-Ambala.

Professor Ajoy Roychoudhury was awarded Fellowship of Dental Surgery Royal College of Physician and Surgeons Glasgow, UK; Reviewer for the journals: British Journal of Oral and Maxillofacial Surgery, National Medical Journal of India, Dental Traumatology and National Journal of Oral and Maxillofacial Surgery; Was Dental Council Inspector to verify the teaching, infrastructure facility of various dental college in India providing Post graduate education; In the committee of MOH&FW to review the decisions of Dental Council of India pertaining to recognition to various Dental Colleges in India; Expert at selection committee at Public service commission Himachal Pradesh, King Georges University Lucknow, ESI hospitals and Six AIIMS across country; Post Graduate examiner to King Georges University, Lucknow, PGIMER, Chandigarh.

Professor Ongkila Bhutia was nominated as expert member to the Grant of hearing to Dental Colleges for renewal/fresh BDS Scheme for Academic Session 2017-2018 at MoH&FW on 2 November 2017; Member of Organizing Committee at workshop organized by Department of Oral and Maxillofacial Surgery, CDER, AIIMS on 25 March 2018; Nominated as Chairperson of HICC, CDER, AIIMS; Was nominated as Faculty in-charge of the pre-conference course during 30th Annual ISDR Conference on 30 September 2017 at AIIMS.

Dr Vijay Prakash Mathur was Member Secretary, Institute Ethics Sub-Committee for Monitoring of Adverse Events in Clinical Trials; Professor J G Kannapan Award for Maximum Citations in one calendar year of an article published; Member for Journal CE Committee, American Academy of Pediatric Dentistry; Expert developing countries, Section of Public Health International Dental Federation; Nominated as convener of Academic Council of Indian Society of Pedodontics and Preventive Dentistry; Expert for capacity building in the states for Rashtriya Bal Swasthya Karyakram (RBSK); Elected as Vice President of Indian Society for Dental Research during the Annual Conference in October, 2017; Elected as Founder Vice President of Indian Society of Dental Traumatology during the Ist Symposium in February 2018; Nominated as Founder Editor in Chief for the Journal of South Asian Association of Pediatric Dentistry; Nominated as Chairman Scientific for the Ist Biennial Conference of South Asian Association of Pediatric Dentistry; Expert for Validation of Question Bank for National Board of Examinations, New Delhi; Inspector on behalf of Chaudhary Charan Singh University for dental colleges; Subject Expert on Child hood Caries for Dental Council of India; Expert for Faculty Selection, Dr Ram Manohar Lohia Awadh University, Faizabad; Expert for Promotion Committee Meeting for Promotion of Teaching Staff of Kalinga Institute of Dental Sciences, KIIT University, Bhubaneswar, Odisha.

Dr Ajay Logani became President of the Indian Society of Traumatology (2017-2020).

Dr Vijay Kumar invited as a panelist on the programme “Total Health” telecast at national television channel “DD-News” on 26 November 2017.

Dr Prabhat Kumar Chaudhari had his concept proposal selected for the proposal development workshop for Northern Region (2018) by Indian Council of Medical Research; Awarded Young Investigator Award in EGHD-2017 on 22-25 August 2017 by Bharathiar University, Coimbatore, India; Was one of the scientific coordinators for the preconference workshop on Randomized Controlled Trials in Dentistry on 30 September 2017 and for the JL William Hall (Mail Scientific Hall) for the 30th Annual ISDR Conference 2017 from 1-2 October 2017; Member of IADR Membership and Recruitment Committee for a three-year term (2018-2021) by IADR Board Operations Committee, International and American Associations

for Dental Research, USA; Assistant Editor of Journal Pierre Fauchard Academy-India Section Published Elsevier India; Member of International Association of Dental Research (IADR); Fellow-Member World Federation of Orthodontists; International member of American Cleft Palate and Craniofacial Association.

Dr Kalpana Bansal was nominated as the domain-specific expert for capacity building in the states for Rashtriya Bal Swasthya Karyakram (RBSK).

Dr Nitesh Tewari elected as Joint Secretary of Indian Society of Dental Traumatology during the Ist Symposium in February 2018.

Dr Shalini Gupta was member Project Advisory Committee of the ICMR Task Force study titled Screening and early detection of cervical, breast and Oral cancer in the Dibrugarh, Assam: A demonstration project in TATA Tea gardens by ICMR New Delhi; Technical expert “Oral cancer Screening at Secondary Level” by Ministry of Health and Family Welfare (MoHFW) a Non-Communicable Disease Technical Advisory Group (NCD TAG).

Dr Kunal Dhingra awarded membership of prestigious Constitution Committee of American/International Association for Dental Research (USA); Awarded Fellowship of prestigious International Medical Sciences Academy (IMSA), New Delhi (official Indian partner of Royal College of Physicians and Surgeons of Glasgow, UK).

Dr Vikender Singh was appointed Secretary of Dental Surgeons Association of India, Gurgaon Branch, April 2017; Chaired Scientific Session on 26 November 2017 in 42nd National Conference of Indian Society of Periodontology—Perio Utkarsh, 2017 at Kolkata, West Bengal, India.

Dr Harsh Priya contributed as technical expert in the regional guidance document on oral cancer prevention and control in primary health care settings in SEAR for the WHO; Submitted the final document to WHO on 13 December 2017; Contributed as technical expert in Monitoring at the Regional Review Meeting for State Nodal Officers of North East States for National Oral Health Programme and Monitoring of School Based Pit and Fissure Sealant Programme, an initiative of MoHFW at RIMS Imphal on 15-16 January 2018. Contributed as Technical Expert in the Task force on Comprehensive Primary Health Care for Dental Care for preparation and final submission of the draft of the guidelines on 28 February 2018; Contributed as the technical expert in the two manuals on Oral Health Promotion for School Teachers and Health Workers which was released on 20 March 2018 on the occasion of the World Oral Health Day 2018 at the MoHFW, by Honorable MoS, Health Shri Ashwini Kumar Choubey.

Dr Deepika Mishra: Memberships (2017-2018): International Association of Oral and Maxillofacial Pathologists, Indian Association of Oral and Maxillofacial Pathologists, American Academy of Oral and Maxillofacial Pathology, International Association of Dental Research, Indian Society of Dental Research and American Cleft Palate-Craniofacial Association; Reviewer in Journal of Oral Pathology and Medicine and Tumour Biology; Invited as panelist in panel discussion in Cancer awareness programme and public lecture on World Cancer Day on 4 February 2018; Chaired scientific session and judged poster presentations in 26th National conference of IAOMP at Bhubaneswar on 17 November 2017 and 18 November 2017; External examiner for undergraduates (1st Year BDS and 3rd Year BDS) for Government Dental College, Shimla on 18-19 September 2017; Member of Medical Board of AIIMS for medical examination (Age estimation) as an expert in forensic odontology on 7, 29 September 2017 and 28 March 2018.

VISITING SCIENTIST

1. Dr Alex Moule, Immediate Past President, International Association of Dental Traumatology, USA
2. Dr Nestor Cohenca, President, International Association of Dental Traumatology, USA
3. Dr Puneet Wadhwa, Pediatric Dentist, Ohio, USA
4. Dr Rajeev Agarwal, Pediatrics Consultant, Arizona, USA Lecture: Tongue Tie-Untied, 26 March 2018, New Delhi
5. Dr Kishore Chaudhary, Roseman University, USA.

10.3. Dr B.R. Ambedkar Institute Rotary Cancer Hospital

Professor and Chief

G.K. Rath
(Radiation Oncology)

Professors

Subhash Chander (Radiation Oncology)	Lalit Kumar (Medical Oncology)	Sidhartha Satpathy (Hospital Administration)	S.V.S. Deo (Surgical Oncology)
Sanjay Thulkar (Radiodiagnosis)	Sushma Bhatnagar (Anaesthesiology)	Atul Sharma (Medical Oncology)	Sameer Bakshi (Medical Oncology)
Seema Mishra (Anaesthesiology)	D.N. Sharma (Radiation Oncology)	Suman Bhaskar (Radiation Oncology)	Pratik Kumar (Medical Physics)
Sushmita Pathy (Radiation Oncology)	Ritu Gupta (Laboratory Oncology)		

Associate Professors

Haresh K.P. (Radiation Oncology)	Subhash Gupta (Radiation Oncology)	Anita Chopra (Laboratory Oncology)	Pranay Tanwar (Laboratory Oncology)
Sanjeev Kumar Gupta (Laboratory Oncology)	Rakesh Garg (Anaesthesiology)	Nishkarsh Gupta (Anaesthesiology)	Vinod Kumar (Anaesthesiology)
Sachidanand Jee Bharti (Anaesthesiology)	Chandershekhara S.H. (Radiodiagnosis)	Sunil Kumar (Surgical Oncology)	Maj M.D. Ray (retd.) (Surgical Oncology)

Assistant Professors

Amar Ranjan Singh (Laboratory Oncology)	Ajay Kumar Gogia (Medical Oncology)	Ranjit Kumar Sahoo (Medical Oncology)	Prabhat Singh Malik (Medical Oncology)
Sameer Rastogi (Medical Oncology)	Raja Pramanik (Medical Oncology)	Atul Batra (Medical Oncology)	Ahitagni Biswas (Radiation Oncology)
Ritesh Kumar (Radiation Oncology)	Rambha Pandey (Radiation Oncology)	Mayank Singh (Medical Oncology)	Mukesh Yadav (Radiodiagnosis)
Ekta Dhamija (Radiodiagnosis)	Thoudam Debraj Singh (Medical Oncology)	Chandra Prakash Kumar (Medical Oncology)	Sachin Khurana (Medical Oncology)
	Sandeep Kumar (Surgical Oncology)		

Administrative Officer

Satish Kumar Singh

Accounts Officer

Meera Gupta

Stores Officer

Arvind Kumar Sharma

Faculty Member	49
Group A staff	32
Group C staff	136
Outsourced House Keeping Staff	145
Outsourced Security Staff	79
Resident Doctor	93
Group B staff	386
Part Time Social Guide	6
Outsourced Data Entry Operators	30
Outsourced Sanitation Staff	77

HIGHLIGHTS

Onco-Anesthesia and Palliative Medicine

The mission of the department is to provide state-of-art and comprehensive care for patients with cancer with both curative and palliative intent. It includes services for various diagnostic interventions, surgical procedures, pain and palliative procedures. The department provides round the clock services for acute and chronic pain management. The department has a 6-bed Intensive Care Unit that provides care for critically ill patients and a 6-bed Palliative Care Ward. The department has its regular academic activities and also pursuing various research activities in the fields of Cancer Pain, Palliative Care and Perioperative Medicine for proposed benefits for the patient. The department has developed protocol and has structured SOPs for better patient management. The department organizes CMEs, conferences and workshops on regular basis.

Delhi Cancer Registry

It is a population-based registry that collects cancer patient's data from more than 170 government or private hospitals/centers and 250 nursing homes and vital statistics division of MCD and NDMC and reports the incidence of various cancers among Delhi Urban residents. When the registry was established in 1988 it has registered 5854 new cancer cases and over the years the new cancer incidence has been increasing and in 2012 the registered incidence was 19746 cases. The common sites of cancer among Delhi males are lung, tongue, prostate, mouth and larynx and in females the common sites of cancer are breast, cervix, ovary, gallbladder and cervix uteri. The reports prepared by registry are being widely used by researchers, Government organization etc.

Medical Oncology

The department is actively involved in the patients care, research and teaching. In the past year clinical services provided by the department are as follows

- Patients treated as in-patient: 9194
- Patients treated in day care facility: 29,801
- Medical procedures: 5972
- Outpatient chemotherapy: 14,574
- Outpatient IV antibiotics: 25,303
- Hematopoietic Stem Cell Transplantation (Autologous, Allogenic): 105 (86+19)
- Medical Oncology Lab
 1. Cytogenetics (Philadelphia Chromosome): 337
 2. RT-PCR for BCR-ABL (qualitative): 386
 3. CD 34 counts (FCM): 283
 4. CD 3 counts (FCM): 19
 5. MNC counts: 62
 6. Cryopreservation at -80°C : 96
 7. Stem cell storage at 4°C : 85
 8. Viability testing for stem cells: 128
 9. ELISA for galactomanan (aspergillosis): 1720
- Aphaeresis lab
 1. PBSC harvests: 206
 2. SDP apheresis: 2261
 3. Granulocyte aphaeresis: 53
 4. Haemogram testing: 23,824

At present, 25 students are engaged in DM course and 7 students are pursuing their PhD course in the department. Department has also provided summer training to medical and non-medical students from various universities. Substantial numbers of papers were published in various international and national medical journals, and various invited lectures were delivered in international and national meetings. Medical oncology faculty was invited by a number of Universities in India as examiner for DM and PhD. Department has conducted a First National Meeting on Hematological Malignancies "AIIMS-HEMONC UPDATE" on 24-26 November 2017. Department has organized symposiums as well as invited talks on various aspect of cancer (A) Symposia on CAR-T cells and their therapeutic potential" held on 26 August 2018 (B) Symposium on Brain Metastases held on 18 November 2017. A number of visiting scientists from abroad and India gave lectures in the department and interacted with faculties, scientists and residents. Department is active on the research front as well; many research projects being run at present are funded by various international, national, Government and non Government agencies. There is a regular lab service for patients care, these include cytogenetics and PCR facilities for CML patients,

CD 34 enumeration and cryopreservation facilities for stem cell recipients. A new BMT fellowship program has been started from January 2017. All this was possible with hard work, and sincere efforts put up all the members of the department.

Medical Physics

Medical Physics Unit, IRCH looks after radiation safety licensing of x-ray equipment, routine quality assurance tests of x-ray imaging devices, and training in radiation protection at IRCH and other departments at AIIMS. Our work includes radiation related research and education to staff and students. We give services to many departments which use radioactivity for laboratory investigations, research and patient care by providing consultation regarding radiation safety of staff and public. We also provide our assessment for inadvertent exposure to pregnancy during x-ray investigations. During 2017-2018 we carried out 3973 measurements, tests, experiments and irradiation sterilization of blood bags for blood transfusion.

Radiodiagnosis

The department started new multidisciplinary discussions/tumor boards specifically addressing gastrointestinal malignancies, lung cancer and sarcoma on Saturday and Wednesday (forenoon and afternoon), respectively. In addition, there was active participation in organizing workshops with other departments of national and international conference during this year.

Surgical Oncology

All the faculty members of the department participated in the under graduate and post graduate teaching and structured training of 25 senior residents including 15 MCh student and 9 non academic senior resident and 1 short/long term trainees. The departmental faculty is involved in MCh teaching and training and guiding in their thesis work. The faculty acted as co-guide in thesis work of various department including Radiation Oncology, Medical Oncology, Biochemistry and Biotechnology Geriatric Medicine, etc. The department successfully organized a cadaver work shop and international conference on peritoneal surface malignancies in collaboration with European Society of Surgical Oncology and Indian Society of Peritoneal Surface Malignancies to train Indian surgeons in the complex field of CRS and HIPEC. The faculty participated in a number of national and international conferences by giving lecture, participating in panel discussion and presenting educational videos. The faculty and residents of the department have presented 26 papers in national and international conference. The department is involved in 9 funded research projects and 12 departmental projects and 11 collaborative research projects. A total of 14 original articles were published by the faculty and residents and a hand book on "Peritoneal surface malignancies" was published by the departmental faculty. The faculty and residents are participating in special cancer clinics for breast cancer, gastro intestinal cancer, head and neck cancer, gynecological cancer, bone and soft tissue tumors, thoracic cancer, Hepatobiliarypancreatic cancer and genitourinary cancer. The department is providing major and minor operation facilities to patients of cancer. A total of 1547 complex major operations and 8782 minor operation and various diagnostic and therapeutic endoscopy procedures were performed during the year. Faculty participated in community services by giving advice to ostomats, giving talk in All India Radio, television and participating in cancer awareness camps organized by NGO's. The faculty members were involved as members of editorial boards, reviewer of research papers and members of national and international bodies. The faculty members acted as examiner for MCh Surgical Oncology and MS Surgery examinations of various medical collages and institutions.

EDUCATION

Onco-Anesthesia and Palliative Medicine

The department is running two academic courses: DM and MD. First batch was admitted in January 2016. The department also organizes certificate course in Palliative Care twice a year in the month of June and November and foundation course on Palliative Care once in a year in the month of February.

IRCH Seminar	Every Thursday at 8.30-9.30 AM
Departmental Seminar	Every Monday and Friday at 8-9 AM
Tutorials	Every Tuesday 3-5 PM
Journal Club/Audit/Case discussion	Every Saturday at 10-12 Noon.
Radio Conference	Every Saturday at 9-10 AM

Laboratory Oncology

Laboratory Oncology provides morphology, myeloma and flow cytometry training to residents from Pathology, Hematology and Lab Medicine. In addition, residents from Medical Oncology, Pediatrics also receive training here. Short-term training is given to MSc students from various colleges all over India.

Medical Oncology

Undergraduates:

No. of lectures/seminars: Seminars 2, Lectures-2

Hours per week/year spent in clinical

6 hours per semester

Teaching, demonstrations/tutorials.

Postgraduates:

Hours per week spent in clinical teaching, 6 hours per week
Seminars, conferences, journal club, etc.

DM Programme:

There are 24 regular and 1 sponsored candidates.

PhD Training:

Seven PhD students are pursuing their work in various aspects of Medical Oncology.

BMT Fellowship:

A new program was initiated from January 2017. One fellow has already passed in January 2018.

Medical Physics

Medical Physics Unit imparted training and education regarding Physics of medical imaging, radiation protection, radiation dosimetry and quality assurance in medical imaging to the students of MD Radiology, MBBS, and BSc (Hons.) Radiography. At present department is providing training to 2 PhD students. We imparted elective training to Mr. Ashley Smith, Christie Medical Physics and Engineering, The Christie NHS Foundation Trust, Manchester, U.K. for one month during September 2017.

Radiodiagnosis

Faculty participated in undergraduate, postgraduate and super specialty teaching, radio-conferences, tumor board meeting, Clinical Combined Rounds, Clinical Grand Round. Faculty had also participated in the various symposiums and CMEs held in IRCH and institute.

Radiation Oncology

CME/Workshop/Symposia Organized:

- High Precision Radiation Oncology (HiPRO) 2018 Symposium. 24-25 March 2018, New Delhi

Surgical Oncology

Undergraduate teaching: The faculty was involved in undergraduate teaching by giving didactic lectures and by participating/moderating seminars on oncological topics. Post graduate teaching: The faculty was involved in teaching and training of 15 MCh surgical oncology students and 12 surgical oncology senior residents, DM medical oncology residents and MD radiotherapy junior residents by giving didactic lectures, moderating seminars, journal clubs etc. and clinical teaching during ward rounds and in special cancer clinics of IRCH. Dr Shukla and Dr Deo acted as chief guides and Co-guides in the thesis of MCh surgical oncology students. They also acted as Co-guide and Co-supervisors in DM Medical Oncology Thesis, MD Radio Diagnosis, MD Radiation Oncology Thesis and PhD students from different Department of BRA IRCH and AIIMS. The faculty was also involved in teaching and training of dental surgery residents and MCh students from RCC, Thiruvananthapuram who are posted on one month rotation.

- a. Para clinical teaching/training: The faculty was involved in the teaching of MSc nursing oncology students
- b. Long and short term training: Dr Suman Kharkwal, Consultant Surgery, ESI, Delhi—24 month from 1 April 2016-31 March 2018

CME/Workshop/Symposia/National and International Conference organized by departments**Onco-Anesthesia and Palliative Medicine**

1. Silver Jubilee 25th International Conference of “Indian Association of Palliative Care” (IAPCON 2018), 21-25 February 2018, AIIMS, New Delhi
2. 16th Foundation Course on Palliative Care, March 2018, AIIMS, New Delhi
3. IAPC certificate course in Palliative Care, June and November 2016, Dr BRA IRCH, AIIMS
4. Palliative Care Training Programme for Cancer Treatment Centers in India, 16-20 January 2018, Delhi Aerocity
5. World Hospice Day, 8 October 2017, Dr B.R.A IRCH, AIIMS
6. International Conference on Peri-Operative Care of Cancer Patients 2017, 14-15 October 2017, IRCH, AIIMS, New Delhi
7. Training Course on “IASP Advanced Certificate Programme in Evidence Based Pain Management, 10-11 March 2017, 2-3 May 2017 and 11-12 July 2017, AIIMS, New Delhi

Medical Oncology

1. Workshop for graduate students on “Translation Oncology and Role of Molecular Biology Application in Human Health and Disease” during “Updates in Management of Gynecological Cancer” organized by Indian Society of Clinical Oncology (ISCO), Department of Biochemistry, 4-5 August 2017, AIIMS
2. Hands-on workshop on Droplet-Digital PCR for PhD students, Medical Oncology Lab, 28-29 August 2017
3. Seminar on ‘Droplet-Digital PCR and its application in Oncology’ on 17 October 2017, Department of Medical Oncology (Lab), IRCH, AIIMS, New Delhi
4. In-house departmental workshop for DM students, ‘Cell Viability from Harvested Stem Cells’, 5 January 2018
5. Symposia on CAR-T cells and their therapeutic potential, Department of Medical Oncology, IRCH, 26 August 2018, AIIMS, New Delhi

Radiation Oncology

1. High Precision Radiation Oncology (HiPRO) 2018 Symposium, 24-25 March 2018, New Delhi

Radiodiagnosis

1. Workshop on ultrasound guided palliative care intervention (in collaboration with Department of Oco-anaesthesia and Palliative Care, BRAIRCH) during IAPCON 2018 (25th International Conference of the Indian Association of Palliative Care), 23-25 February 2018
2. Monthly meeting with one day CME of Delhi Chapter of Breast Imaging Society of India was conducted, 12 October 2017

Lectures delivered

Onco-Anesthesia and Palliative Medicine

Sushma Bhatnagar

1. Faculty, 5th Training of Trainers in Palliative Care Programme (APHN), 22-28 March 2017, Dhaka, Bangladesh
2. Plenary Speaker, 6th Biennial Scientific Meeting by (MASP), 17-18 March 2017, Putrajaya, Malaysia
3. Speaker, Global Conference on Perioperative Care of the Cancer Patient Meeting and Workshop MD Anderson Cancer Centre (MDACC), 29 November-3 December 2017, Houston, Texas
4. Speaker, IASP and ISSP Multidisciplinary Evidence Based Pain Management Program, 14-15 July 2017, Mumbai
5. Plenary Speaker, 11th International Symposium on Pediatric Pain, 6-9 July 2017, Kuala Lumpur, Malaysia
6. Guest Speaker, Symposium on Say no to Cancer Pain, 17 June 2017, West Bengal
7. Speaker, Global Academic Programs Conference (GAP 2017), 9-11 May 2017, Houston, Texas
8. Speaker, IASP and ISSP Multidisciplinary Evidence Based Pain Management Program, 5-6 May 2017

Seema Mishra

1. Ethics issues in oncology care, IAPC Certificate Course in Essential of Palliative Care, 11-12 June 2016, 10-11 June 2017, IRCH, AIIMS, New Delhi
2. Pediatric Palliative Care, IAPC Certificate Course in Essential of Palliative Care 11-12 June 2016, 10-11 June 2017, IRCH, AIIMS, New Delhi
3. Cultural/Religious/Ethnic Consideration: Special regional consideration barriers to effective pain management, IASP-ISSP Multidisciplinary Evidence-Based Pain Management Program: Evidence-Based Guidelines, Interventional Therapies and Multimodal Management Session, 11-12 July 2017, IRCH, AIIMS, New Delhi
4. Workshop: Palliative Care in Gynecological Cancer: EOL CARE, Updates in Management of Gynecological Cancer, 4 August 2017, IRCH, AIIMS, New Delhi
5. Challenges in Palliative Care for Gynaecological cancer, Updates in Management of Gynecological Cancer, 4-6 August 2017, IRCH, AIIMS, New Delhi
6. EOL and Palliative Sedation, Indo American Cancer Association Course, 14 September 2017, Cansupport, New Delhi
7. Panel: Prehabilitation and accelerated recovery, International Conference on Peri-Operative Care of Cancer Patients 2017, 14-15 October 2017, IRCH, AIIMS, New Delhi
8. Safe use of Opioids in Perioperative pain—What is the evidence, International Conference on Peri-Operative Care of Cancer Patients 2017, 14-15 October 2017, IRCH, AIIMS, New Delhi

9. USG Guided block (workshop) Lower Limb Block: Femoral, Sciatic and Popliteal Nerve Block, TAP Block and Rectus Sheath Block, International Conference on Peri-Operative Care of Cancer Patients 2017, 14-15 October 2017, IRCH, AIIMS, New Delhi
10. Workshop: Safe Opioid Use in Children, Paediatric Palliative Care, 5-6 November 2017, IRCH, AIIMS, New Delhi, Recent advances in Opioid routes of administration, 2nd Indian Cancer Congress, Bengaluru, 8-12 November 2017, Clarks Bengaluru, Bengaluru
11. Role of palliation in advanced gall bladder cancer, 1st Joint Symposium on Gall Bladder Cancer, 6 November 2017, AIIMS, New Delhi
12. End of life Care and Ethical Issues in Palliative Care, IAPC Certificate Course in Essential of Palliative Care, 18-19 November 2017, IRCH, AIIMS, New Delhi
13. Paediatric Palliative Care, IAPC Certificate Course in Essential of Palliative Care, 18-19 November 2017, IRCH, AIIMS, New Delhi
14. EOL and terminal sedation, IACA Palliative Course—6 Weeks Course, 16 November, Cansupport, New Delhi
15. Recent advances in treatment modalities of cancer—Role of Anaesthesiologist, ISACON 2017, 25-29 November 2017, Biswa Bangla Convention Center, Kolkata
16. Palliative care in respiratory diseases, IAPC Certificate Course in Essential of Palliative Care, 2-3 December 2017, SGPGI, Lucknow
17. Emergencies in palliative care, IAPC Certificate Course in Essential of Palliative Care, 2-3 December 2017, SGPGI, Lucknow
18. Care of elderly, IAPC Certificate Course in Essential of Palliative Care, 2-3 December 2017, SGPGI, Lucknow
19. Paediatric palliative care, IAPC Certificate Course in Essential of Palliative Care, 2-3 December 2017, SGPGI, Lucknow
20. Pediatric Cancer Pain Management: Current Trends, Cancer Pain Management CME Cum Workshop, 10 December 2017, RMS IMS, Bareilly
21. Cancer Pain Management, ISCO-Student Mentorship Programme, 18-19 December 2017, IRCH, AIIMS, New Delhi
22. Interventional pain management in cancer patients, ISSPCON 2018, 2-3 February 2018, Sir Ganga Ram Hospital, New Delhi
23. Public lecture—Cancer pain is treatable, No Need to Live in Pain, IAPCON 2018, 22 February 2018, IRCH, AIIMS, New Delhi
24. Ascites—When to Consider Continuous Catheter for Drainage? IAPCON 2018, 23-25 February 2018, IRCH, AIIMS, New Delhi
25. Session Coordinator: Safe use of opioids, IAPCON 2018, 23-25 February 2018, IRCH, AIIMS, New Delhi
26. Panel discussion: Moderator: Perioperative management: Anesthesia and critical care issues in CRS and HIPEC, International Conference on Peritoneal Malignancies, 3-4 March 2018, IRCH, AIIMS, New Delhi
27. EOL and terminal sedation, IACA course, 28 March 2018, Cansupport, New Delhi
28. Life Threatening Diseases/Terminal Illness and Family Experience of Traumatic Stress, 1st National Conclave on “Psychological Trauma, Child Protection and Mental Illness” from 27-28 March 2018 at AIIMS, New Delhi

Rakesh Garg

1. Workshop on Basic and Advanced Airway Management, AIIMS Pulmocrit, 29-30 March 2018, AIIMS, New Delhi
2. Anaesthesia for Airway Surgery, SANCON 2018, 17-19 March 2018, Kathmandu, Nepal
3. Nutrition in Cancer patients, 17th Annual Foundation Course in Palliative Care, 15 March, AIIMS, New Delhi
4. Palliative Aspects in Chronic Diseases, Palliative Care Course of the Indo American Cancer Association, 19 March, Cansupport, New Delhi
5. Perioperative concern in CRS and HIPEC, International Conference on Peritoneal Surface Malignancies, 3-4 March 2018, New Delhi
6. Future of Palliative Medicine as a Specialty, IAPCON 2018, 21-22 February 2018, AIIMS, New Delhi
7. How to write a good publication paper, ISSPCON 2018, 2-4 February 2018, SGRH, New Delhi
8. Airway workshop, 34th Annual Academic Congress of College of Anaesthesiologists and Intensivist of Sri Lanka, 24 January 2018, Colombo, Sri Lanka
9. Workshop on Research Methodology, ISACON 2017, 24-26 November 2018, Kolkata, India

10. Workshop of Hemodynamic Monitoring and Vascular Access, ICACON 2018, 27-29 October 2017, Varanasi, India
11. Peripheral Lines in Oncology Set Up, ICPCCP 2017, 14-15 October 2017, AIIMS, New Delh
12. Patient selection for ambulatory procedures: Can any patient be out patient?, ISACON Delhi 2017, 8-9 April 2017, New Delhi, India

Vinod Kumar

1. Workshop on High Flow Oxygen Devices, AIIMS Pulmocrit, 29-30 March 2018, AIIMS, New Delhi
2. Respiratory symptom management in Cancer patients, 17th Annual Foundation Course in Palliative Care, 15 March 2018, AIIMS, New Delhi
3. Interventional pain management in cancer patients, Palliative Care Course of the Indo American Cancer Association, 19 March 2018, Cansupport, New Delhi
4. Perioperative concern in CRS and HIPEC, International Conference on Peritoneal Surface Malignancies, 3-4 March 2018, New Delhi
5. Workshop on ultrasound guided palliative care intervention, IAPCON 2018, 22 February 2018, AIIMS, New Delhi
6. Workshop coordinator "Palliative care in sick children", IAPCON 2018, 21 February 2018, SGRH, New Delhi
7. Overview of quality of life tools in palliative care, IAPCON 2018, 21-22 February 2018, AIIMS, New Delhi
8. Cognitive therapy as part of Chronic Pain Management, ISSPCON 2018, 2-4 February 2018, SGRH, New Delhi
9. Workshop "Hands on Cadaveric Fluoroscopic Guided Interventional Chronic Pain Procedures", ISSPCON 2018, 2-4 February 2018, SGRH, New Delhi
10. Workshop on Ultrasound Guided Nerve Blocks for Pain management and Ultrasound for Airway and ICU management, ICPC2017, 14-15 October 2017, AIIMS, New Delhi
11. Anaesthesia for major thoracotomy, ICPC2017, 14-15 October 2017, AIIMS, New Delhi.

Nishkarsh Gupta

1. Core faculty for Basic and Advanced Cardiac Life Support Course (ACLS), AHA Accredited Basic Life Support (BLS) and Advanced Cardiac Life Support Course (ACLS), November 2016, January 2017, CMET, AIIMS, New Delhi
2. GI Symptoms in Palliative Care, Certificate course in Palliative Care programme of Indian Association of Palliative Care, 13-14 June 2017, IRCH, AIIMS, New Delhi
3. Chemotherapy and anesthesia. ISACON 2017, 24-29 November 2017, Kolkata
4. Panel discussion, Airway, ISACON 2017, 24-29 November 2017, Kolkata
5. Preconference workshop: Difficult Airway workshop, ISACON 2017, 24-29 November 2017, Kolkata
6. Workshop for airway management in ICU, Airway Seed Workshop Conference, September 2017, LHMC, Delhi
7. Moderated a panel on preanaesthesia check up in cancer patients, International Conference on Perioperative Care for Cancer Patients, October 2017, AIIMS, New Delhi
8. Faculty for USG guided workshop, International Conference on Perioperative Care for Cancer Patients, October 2017, AIIMS, New Delhi
9. Coordinator and faculty workshop on vascular access, Medical Oncology residents IRCH, November 2017, IRCH, AIIMS
10. Basic and Advanced Cardiac Life Support Course (ACLS), AHA Accredited Basic Life Support (BLS) and Advanced Cardiac Life Support Course (ACLS), 2017, JPNATC, AIIMS, New Delhi
11. Persistent postoperative pain, ISSPCON 2018, 3-4 February 2018, New Delhi
12. Workshop on airway management in oro-maxillofacial surgeries, Airway 2018, 10-11 February 2018, New Delhi
13. ABG analysis, North Zone PG Assembly, 22 February, New Delhi
14. Palliative care in heart failure patients, IPACON 2018, 23-25 February 2018, AIIMS, New Delhi
15. Faculty, Workshop on USG guided nerve blocks, C-AURA, 28 February-1 March 2018, AIIMS, New Delhi
16. Moderated a panel on Anesthesia for HIPEC surgeries, International Conference on Peritoneal Surface Malignancy, March 2018, New Delhi
17. GI Symptoms in Palliative Care, 16th Annual Foundation Course in Palliative Care, March 2018, AIIMS, New Delhi
18. Extubation in difficult Airway, SANCON 2018, 19 March 2018, Kathmandu, Nepal

19. Airway Workshop, SANCON 2018, 19 March 2018, Kathmandu, Nepal
20. Euthanasia and interventional pain management in Palliative Care, Palliative Care Course of the Indo American Cancer Association by Can Support, September and November 2017, AIIMS, New Delhi

Sachidanand Jee Bharati

1. Palliative and supportive care in breast cancer patients, Updates in Management of Breast Cancer, 6-7 May 2017, IRCH, AIIMS, New Delhi
2. Oncological emergencies, IAPC Certificate Course in Essential of Palliative Care 11-12 June 2016, 10-11 June, 18-19 November 2017, IRCH, AIIMS, New Delhi
3. Workshop: Cervical Epidural and Cervical Medial branch Block, Interventional Pain Management Workshop, 28 July 2017, CTRF Trauma Centre, New Delhi
4. Workshop: Palliative care in Gynecological cancer, Updates in Management of Gynecological Cancer, 4 August 2017, IRCH, AIIMS, New Delhi
5. Palliative and Supportive Care in Gynaecological cancer, Updates in Management of Gynecological Cancer, 4-6 August 2017, IRCH, AIIMS, New Delhi
6. Workshop: Truncal Blocks, International Conference on Image Guided Therapy, 25 August 2017, AIIMS-PGI, New Delhi
7. Opioid Rotation and Methadone, Indo American Cancer Association Course, 25 September and 28 November 2017, Cansupport, New Delhi
8. Moderated panel: Prehabilitation and accelerated recovery, International Conference on Peri-Operative Care of Cancer Patients 2017, 14-15 October 2017, IRCH, AIIMS, New Delhi
9. USG Guided Workshop: Paravertebral Block, International Conference on Peri-Operative Care of Cancer Patients 2017, 14-15 October 2017, IRCH, AIIMS, New Delhi
10. Workshop: Safe Opioid use in Children, Paediatric Palliative Care, 5-6 November 2017, IRCH, New Delhi
11. Introduction to Palliative Care, ISCO-Student Mentorship Programme, 18-19 December 2017, IRCH, AIIMS, New Delhi
12. Cadaveric workshop on Interventional Pain Management, ISSPCON 2018, 1 February 2018, CTRF Trauma Centre, New Delhi
13. Opioid in Chronic Non Cancer Pain, ISSPCON 2018, 2-3 February 2018, Sir Ganga Ram Hospital, New Delhi
14. Integration of Palliative Care in Alternative Medicine, Cancer Awareness Week at All India Institute of Ayurveda, 6 February 2018, AIIA, New Delhi
15. Workshop: Mindfulness and Cognitive Behavioral Therapy, IAPCON 2018, 22 February 2018, IRCH, AIIMS, New Delhi
16. TENS in Chronic Cancer Pain, IAPCON 2018, 23-25 February 2018, IRCH, AIIMS, New Delhi
17. Panelist: Perioperative management: Anesthesia and critical care issues in CRS and HIPEC, International Conference on Peritoneal Malignancies, 3-4 March 2018, IRCH, AIIMS, New Delhi
18. Palliative Care in Head and Neck Cancer and Oncological Emergencies, 17th Annual Foundation Course in Palliative Care Will, 15-16 March 2018, Cansupport, IRCH, AIIMS, New Delhi

Delhi Cancer Registry

N. Manoharan

1. Cancer Registry Working, NCI P20 Planning Grant for a Regional Centre for Research Excellence Meeting, 1-3 April 2017, Public Health Foundation of India, Gurgaon

Laboratory Oncology

Ritu Gupta

1. MRD in Multiple Myeloma-case based discussion, 22nd ISHBT-EHA Tutorial 2018, 17 February 2018, King George Medical University, Lucknow
2. Multiple Myeloma, 19th Indo-US Cytometry Workshop, 12-13 February 2018, Dehradun
3. Applications of Flow Cytometry in Medical Sciences, 13 February 2018, AIIMS, Rishikesh
4. Residents corner—Meet the professor, Indian Myeloma Congress, 10 February 2018, Manekshaw Convention Center, New Delhi
5. Flow cytometry in lymphoproliferative disorders and multiple myeloma, PATHCON and LAB EXPO 2017, 16-17 December 2017, New Delhi

6. MRD in multiple myeloma, AIIMS Hem-Onc Update 2017, 24-26 November 2017, New Delhi
7. Practical issues in Multiple Myeloma: Laboratory to Bedside. Monoclonal gammopathies—Case based panel discussion 2017, New Delhi
8. WHO 2016 clarification of hematolymphoid malignancies—A case study, 58th Annual Conference of the Indian Society of Haematology and Blood Transfusion (Haematocon 2017), 2-5 November 2017, Guwahati, Assam
9. What's new in acute leukemia Immunophenotyping, Interesting cases of Acute leukemia, Approach to B-chronic lympho-proliferative disorders CLPD—Interesting cases, 10th TCS Meeting cum Workshop, 28-31 October 2017, Trivandrum, Kerala
10. Diagnostics in multiple myeloma—Past, present and the future, National Update in Hematopathology, 6 August 2017, Mumbai
11. MRD in Multiple Myeloma (Pre-analytical factors) MRD Analysis in Multiple Myeloma and Case Studies, 8th Advanced TCS Workshop on Flow Cytometry, April 2017, Delhi-NCR

Sanjeev Kumar Gupta

1. Approach to diagnosis of CLPD, 58th Annual Conference of ISHBT, 3 November 2017, Guwahati
2. Interesting case presentation in 'Workshop on Hematolymphoid neoplasm', 58th Annual Conference of ISHBT, 5 November 2017, Guwahati
3. Challenging case in Leukemia immunophenotyping in workshop, 10th TCS Meeting cum Workshop on Applications of Cytometry in Health and Disease, 29 October 2017, SCTIMST, RCC, RGCB, Trivandrum
4. Role of flow cytometry in Acute Leukemias, 10th TCS Meeting cum Workshop on Applications of Cytometry in Health and Disease, 30 October 2017, SCTIMST, RCC, RGCB, Trivandrum
5. Ph like ALL—Moderated the panel discussion, AIIMS Hem-Onc Update, 24 November 2017, AIIMS, New Delhi
6. Diagnosis, risk stratification, and Response assessment in Multiple Myeloma—Panelist in panel discussion, Indian Myeloma Congress, 10 February 2018, Manekshaw Convention Centre, New Delhi
7. Molecular genetic changes in B-ALL, DSH Quarterly Meeting, 24 March 2018, Maulana Azad Medical College, New Delhi

Anita Chopra

1. Cancer Genomics, CME on "Genomics in Medicine", 15 November 2017, AIIMS, New Delhi
2. Peripheral blood picture in chronic myeloid leukemia: What standard texts do not say, Meeting on Acute Myeloid Leukemia and Chronic Myeloid Leukemia, 16-17 September 2017, TMC, Kolkata
3. Diagnosis of AML in elderly patients, Symposium on AML in Elderly Patients, 22 April 2017, Dr BRAIRCH, AIIMS, New Delhi

Pranay Tanwar

1. Early detection of cervical cancers, Benefits of Cancer Awareness and Early Detection, 28 October 2017, PHD House, August Kranti Marg, New Delhi
2. Prevention of Cervical Cancers, Cancer Awareness Seminar, 14 January 2018, Rotary Club, Sonapat
3. Standardization and application of flow cytometry-based quantification of E6/E7 mRNA for the detection of high-risk HPV infection in cervical cancer screening, 13th national Conference of Indian Society of colposcopy and cervical pathology, 10-11 Faculty, 5th Training of Trainers in Palliative Care Programme (APHN), 22-28 March 2017, Dhaka, Bangladesh
4. Plenary Speaker, 6th Biennial Scientific Meeting by (MASP), 17-18 March 2017, Putrajaya, Malaysia
5. Speaker, Global Conference on Peri-operative Care of the Cancer Patient Meeting and Workshop MD Anderson Cancer Centre (MDACC), 29 November-3 December 2017, Houston, Texas
6. Speaker, IASP and ISSP Multidisciplinary Evidence Based Pain Management Program, 14-15 July 2017, Mumbai
7. Plenary Speaker, 11th International Symposium on Pediatric Pain, 6-9 July 2017, Kuala Lumpur, Malaysia
8. Guest Speaker, Symposium on Say No to Cancer Pain, 17 June 2017, West Bengal
9. Speaker, Global Academic Programs Conference (GAP 2017), 9-11 May 2017, Houston, Texas
10. Speaker, IASP and ISSP Multidisciplinary Evidence Based Pain Management Program, 5-6 May 2017, March 2018, Bengaluru
11. High risk HPV infection among females: Experience from a tertiary referral center in North India (poster), Global Academic Program, MDACC, Houston, Texas, USA, 5-7 May 2017, MD Anderson Cancer Center, Houston

12. Paradigms for critical clinical challenges in Gynecological Cancers, World Congress on Cancer, 3-5 February 2018, Mahatma Gandhi Medical College, Jaipur

Amar Ranjan Singh

1. Prognostic evaluation of thrombopoietin following surgery in gastrointestinal cancer patients, SACH 2018, 19-21 January 2018, Ranchi
2. Flowcytometry: Principle and interpretation of result, BAPCON 2018, 6-7 January 2018, Deoghar, Jharkhand
3. Rise of circulating thrombopoietin following surgery in gastrointestinal cancer patients: Correlation with a preceding increase in levels Procalcitonin, 14th Asia-Pacific Oncologists Annual Meeting, 20-22 November 2017, Melbourne, Australia
4. The scope for undergraduate medical research in India, Narayan Medical College, 8 April 2017, Sasaram, Bihar

Medical Oncology

Lalit Kumar

1. Cancer: A global challenge, 83rd Annual Meeting of the Academy of Sciences, 5 November 2017, University Campus, Shillong

Atul Sharma

1. Phase III randomized trial comparing weekly versus three-weekly (W3W) cisplatin in patients receiving chemoradiation for locally advanced head and neck cancer, Best of ASCO, 14-16 July 2017, Chandigarh
2. Six days of radiotherapy in head and neck cancers is equivalent to chemoradiation—Debate, 5th Fortis Radiation Oncology Annual, FMRI, 16 September 2017, Gurgaon
3. Chemoradiation—Toxicity Management, Moderated panel discussion, Foundation for Head AND Neck Oncology (FHNO) Annual Meeting, 15 September 2017, Mumbai
4. Session chair: Peripheral T cell lymphoma, What's new? 1st Annual Update in Lymphoma, 27 October 2017, Mumbai
5. New insight in systemic treatments of head and neck cancer, Indian Society of Clinical Oncology, 5 November 2017, AIIMS, New Delhi
6. New insight into management of recurrent head and neck cancer, Indian Society of Clinical Oncology, 5 November 2017, AIIMS, New Delhi
7. Systemic Therapy: Current Paradigm, 1st Joint Symposium on Gall Bladder Cancer, AIIMS and MDACC, 6 November 2017, AIIMS, New Delhi
8. Case Capsules in Carcinoma Stomach, Indian Cancer Congress (ICC) and Indian Society of Medical and Paediatric Oncology (ISMPO), 9-10 November 2017, Bengaluru
9. Moderated panel discussion on head and neck cancer discussing role of neo-adjuvant chemotherapy, Indian Cancer Congress (ICC) and Indian Society of Medical and Paediatric Oncology (ISMPO), 9-10 November 2017, Bengaluru
10. Evaluating and planning continuum of care in mCRC, Tata Memorial Center, 17 December 2017, Mumbai
11. Emerging role of immune-oncology in mCRC, Tata Memorial Center, 17 December 2017, Mumbai
12. Adjuvant chemotherapy in gall bladder cancer session, VMCC and SJH NEW DELHI, 3 February 2018, Delhi
13. Panel discussion on complications of multiple myeloma, Indian Myeloma Congress by R&R Hospital, 9 February 2018, New Delhi
14. Panel discussion on Hepatocellular Carcinoma, RGCON by Rajiv Gandhi Cancer Institute and Research Center New Delhi, 10 February 2018, New Delhi
15. Immune-oncology Gastrointestinal Malignancies: Proportioning Beliefs to Evidence! TMH Evidence Based Management of Cancer in India—EBM 2018, 22-23 February 2018, Mumbai
16. Complications of concurrent targeted therapy and radiation in HN cancer, Evidence Based Management, 23-25 February 2018, Mumbai
17. Current Status of Chemotherapy in Metastatic CRC, Indian Society of Peritoneal Surface Malignancies, 3 March 2018, Delhi
18. Autologous stem cell transplantation in follicular lymphoma—Does it have role? 14th Indian Stem Cell Transplantation Group Meeting Christian Medical College, Vellore, 9-10 March 2018, Vellore
19. Moderated panel discussion on pancreatic cancer, 1st Annual Review in Gastrointestinal Cancer 2018, 1 March 2018, Mumbai
20. II Line Targeted Therapy and Sequencing in mRCC, Tata Medical Center, 17 March 2018, Kolkata

21. Adjuvant therapy in Rectal cancer: Is it for everyone? Association of Medical and Paediatric Oncologist of Kerala (AMPOK), 25 March 2018, Kochi

Sameer Bakhshi

1. Imaging in Oncology, MedIm: Workshop on Medical Imaging Techniques, Post Processing and Clinical Applications, 15 April 2017, New Delhi
2. How InPOG can help in mapping Pediatric Oncology services in India? Stakeholder Forum on Childhood Cancer Epidemiology in India, 28 April 2017, New Delhi
3. Grouping and staging—The strategy guide in retinoblastoma, 2nd Annual Paediatric Solid Tumour workshop, 29-30 April 2017, Mumbai
4. Chemotherapy in retinoblastoma—The different strategies, ADE vs AD induction: What's the gain, 4th Midterm CME, 2 July 2017, New Delhi
5. Targeted and immunotherapy in ALL. Best of ASCO Meeting, 15 July 2017, Chandigarh
6. Sarcoma diagnosis and treatment, Best of ASCO Meeting, 15 July 2017, Chandigarh
7. Minimal Residual Disease in the management of Acute Lymphoblastic Leukemia, 2nd Orientation Program for Young Haematologists, 5 August 2017, Lucknow
8. TYA PNET and OGS from AIIMS, The 6th National Conference of the Teenage and Young Adult Cancer Conference, 2 September 2017, Mumbai
9. Indian TYA Data-Observed data, outcomes, clinical trial participation, data management and sharing, The 6th National Conference of the Teenage and Young Adult Cancer Conference, 2 September 2017, Mumbai
10. Impact of MRD in treatment of ALL, 37th ICON Connecting Oncologists, 16 September 2017, New Delhi
11. Panel discussion on an illustrative case in paediatric AML, 37th ICON Connecting Oncologists, 16 September 2017, New Delhi
12. Dialogue with EC members-empowerment, training, current practices, Favorable Regulatory Momentum for Future Clinical Research Workshop, 3 November 2017, New Delhi
13. Is Metronomic Therapy the answer for pediatric progressive and refractory malignancies? Pediatric Palliative Care Conference 2017, 5 and 6 November 2017, New Delhi
14. Ethical review process in India. Underlying concepts in ethical review, Logistics and completing ethical review, AIIMS UM Research Methods Course, 15-18 November 2017, New Delhi
15. Metronomic therapy in pediatric progressive and refractory malignancies, Conference of Surgical Oncology Subsection (SOS) of Indian Association of Pediatric Surgeon, 24-26 November 2017, Kolkata
16. Introduction and updates from subcommittees of InPOG, Pediatric Hematology Oncology Section of IAP (PHOCON 2017), InPOG, AIIMS HEMONC Update 2017, 26 November 2017, New Delhi
17. Debate: Caregiver for AYA: Pediatric Oncologist or Adult Oncologist or AYA Oncologist? InPOG, AIIMS HEMONC Update 2017, 26 November 2017, New Delhi
18. Research, Birth and Growth of InPOG, AIIMS HEMONC Update 2017, 26 November 2017, New Delhi
19. Acute Lymphoblastic Leukemia in India: Journey from MCP-841 to ICICLE (Experience over Three Decades), Indo-UK oncology Summit, 15 December 2017, Chennai
20. The Role of Zinc in Acute Myeloid Leukaemia, 10th International SIOP PODC Workshop on Nutrition in Children with Cancer, 13 January 2018, Mumbai
21. Ethics in Academic Trials, 4th Biennial Conference of PAi and International Symposium on Probiotic Therapy: Translating to Health and Clinical Practice, 16 and 17 February 2018, New Delhi
22. Integrating Paediatric Palliative Care in Oncology, Silver Jubilee Conference of Indian Association of Palliative Care, 23 February 2018, New Delhi
23. Panelist for childhood malignancies, Childhood Cancer Day Celebrations, 26 February 2018, New Delhi
24. Role of stem cell therapy and immunotherapy in pediatric surgery, 11th Pediatric Surgery Update 2018, 25 March 2018, New Delhi
25. Evidence for prophylactic drugs and vaccines during and post treatment of childhood cancer, Best of ASCO Meeting, 15 July 2017, Chandigarh

Ranjit Kumar Sahoo

1. Testing for the Lynch syndrome and its treatment implications, Annual Conference of Oncology Forum, 3 September 2017, IHC, New Delhi

2. Multimodality management of gastric cancer, UCMS SURGICAL ONCOLOGY UPDATE 2017, 8 October 2017, IIC, New Delhi
3. Quality of life in RCC, Dilemmas in RCC, 7 October 2017, New Delhi
4. Allogeneic Stem Cell Transplantation in AML: AIIMS Experience, Leukaemia and BMT Meet, 16 September 2017, TMC, Kolkatta
5. Clinico-pathological Conference, CPC, 25 May 2017, ILBS, New Delhi
6. CAR T cells in clinic past present and future, CAR T Cell Symposium, 26 August 2017, AIIMS, New Delhi
7. T-Cell Lymphoma: A case based discussion, Clinicopathological Update on Lymphomas—Together We Treat Better, 28 October 2017, Mumbai
8. How do we reduce Induction Mortality in AML? AIIMS HemOnc Update, 24 November 2017, AIIMS, New Delhi
9. T-cell Lymphoma in 2017, AIIMS HemOnc Update, 25 November 2017, AIIMS, New Delhi
10. FLT3-Mutated AML, Department of Biotechnology, 22 February 2018, AIIMS, New Delhi
11. Management of Metastatic NET, AsAES 2018, 16 March 2018, New Delhi

Prabhat Singh Malik

1. Prognostic factors for lung cancer, ASCO-ISSLC Lung Multidisciplinary Cancer Management Course, 25 March 2018, PGIMER, Chandigarh
2. 1st line treatment of EGFR mutated advanced NSCLC, CME on lung cancer “Management of EGFR mutated advanced non small cell lung cancer”, 17 February 2018, Tata Medical Centre, Kolkata
3. Debate on immunotherapy in lung cancer, 3rd Concercon Conference 2018, 2 February 2018, Chennai
4. AIIMS data on molecular testing in NSCLC, 1st year end review in management and treatment of lung cancer, 15 December 2017, TMH, Mumbai
5. Screening for brain metastasis in asymptomatic patients with stage 4 NSCLC, 2nd Indian Cancer Congress 2017, 10 November 2017, Clark Inn Convention Centre, Bengaluru
6. Advances in Cancer management, 2nd J&K Medical Science Congress, 12 May 2017, Sher-e-Kashmir Convention Centre, Srinagar

Sameer Rastogi

1. Practical issues in the management of advanced soft tissue sarcoma, Sarcoma and GIST Symposium, Department of Medical Oncology, AIIMS, 24 June 2017, AIIMS, New Delhi
2. Panel discussion, Management of soft tissue sarcoma, ICON Conference, March 2018, 25 March 2017, Lucknow
3. Discordance of histopathological diagnosis of patients with soft tissue sarcoma referred to tertiary care centre, 14 July 2017, Chandigarh
4. Panel discussion, Management of Toxicities of Immunotherapies, ICON Conference, 23 March 2018, Kochi

Atul Batra

1. Optimal chemotherapy in locally advanced breast cancer, Updates in Management of Breast Cancer, 6-7 May 2017, New Delhi
2. Newer therapies in recurrent and metastatic cervical cancer: Where does Bevacizumab stand? Updates in Management of Gynecological Cancer, 4-6 August 2017, New Delhi
3. Stopping Imatinib in CML (Moderator in Panel Discussion), AIIMS Hem-Onc Update, 2017, 24-26 November 2018, New Delhi
4. Updates in management of Triple Negative Breast Cancer, BCFIcon 2018, 10-11 March 2018, Faridabad

Raja Pramanik

1. Panel discussant, The Landscape of Genetic Variants in Asian Founder Populations, 9-12 November 2018, Kochi
2. Panel discussant, AIIMS Hem-Onc Update, 2017, 24-26 November 2018, New Delhi
3. Panelist, Colorectal and Gynecology Oncology Update 2018, 3 February 2018, New Delhi
4. ESMO Preceptorship on Head and Neck Cancers, 16-17 March 2018, Hong Kong

Sachin Khurana

1. Outcome of PCNSL in India: Experience from tertiary centres, AIIMS Hem-Onc Update, 2017, 24-26 November 2018, New Delhi

2. Panel discussant: **1.** Adherence in CML treatment, **2.** Primary Refractory HL, AIIMS Hem-Onc Update, 2017, 24-26 November 2018, New Delhi
3. Approach to breast cancer patients on tamoxifen, Updates in Management of Gynecological Cancer, 4-6 August, 2018, New Delhi
4. Lung cancer, 2. Immuno Oncology, ESMO preceptorship lung cancer and immuno oncology, 15-20 November 2017, Singapore

Chandra Prakash Prasad

1. Basics in molecular Oncology and how to develop an experimental model to test hypothesis, Workshop on Translational Oncology and Role of Molecular Biology Application in Human Health and Disease, 4 August 2017, AIIMS, New Delhi
2. Insights into Head and Neck cancer by transcriptome analysis, Updates in the Management of Head and Neck Cancer, 4 November 2017, AIIMS, New Delhi
3. Foxy5 (a WNT5A mimicking peptide) inhibits Breast Cancer migration and metastasis, 1st National Conference 'Recent Trends in Cell and Molecular Biology Research', 28 October at School of Natural Sciences, Shiv Nadar University, Greater Noida

Thoudam Debraj Singh

1. Seminars in Molecular Medicine and Biotechnology for M. Biotech Students, AIIMS, New Delhi, on "Application of Biopolymer in Bio-medicine and targeted therapy" 8 March 2018
2. Patho-physiology of brain metastases, Symposium on Brain Metastases, Department of Medical Oncology, 18 November 2018, IRCH, AIIMS, New Delhi
3. Response assessment, Symposia on CAR-T cells and their therapeutic potential, Department of Medical Oncology, 26 August 2018, IRCH, AIIMS, New Delhi
4. Workshop on "Translation Oncology and Role of Molecular Biology Application in Human Health and Disease" during "Updates in Management of Gynecological Cancer" organized by Indian Society of Clinical Oncology (ISCO), in Department of Biochemistry, AIIMS from 4-5 August 2017
5. Panelist and coordinator in AIIMS HEMONC UPDATE 2017 organized by Department of Medical Oncology, IRCH, AIIMS from 24-26 November 2017

Mayank Singh

1. Molecular diagnosis in Gynecological Malignancies: Present and future, CME on Quality Control in Clinical and Molecular Biochemistry, 5 October 2017, Pt. BD Sharma PGIMS, Rohtak, Haryana
2. Tissue or liquid biopsies for diagnosis monitoring and early detection of resistance, ISCO Preceptorship Programme in Non-Small Lung Cancer, 24 December 2017, Delhi
3. Deubiquitinating Enzyme USP37 promote tolerance to Replication stress, SYSCON 2017-18 Bridging the Gap: Basic and Clinical Research from Bench to Bedside, 12 January 2018, JLN Auditorium, AIIMS, New Delhi
4. Natural products in treating cervical cancer, Their Preventive and Therapeutic Value, Cancer Awareness Week, 6 February 2018, All India Institute of Ayurveda (AIIA) Auditorium, Delhi
5. Ubiquitin and deubiquitin system as a target for cancer therapy, Seminars in Molecular Medicine and Biotechnology for MBIotech Students, 19 February 2018, Department of Biotechnology, AIIMS, New Delhi

Surender K. Sharawat

1. "Next Generation sequencing", 9th Annual Conference of IAMM Delhi Chapter, 7-9 December, India Habitat Center, New Delhi

Bharat Bhusan

1. Recent Techniques of Diagnosis in Oncology, Update session on "Recent Trends in Nursing: Care Compassion and Innovations" organized by College of Nursing, AIIMS on 9 March 2018
2. Cancer: An update on Recent Diagnostic Techniques, "Gen-ius" fest organized by Episteme Life Science Society, Kirorimal College, Delhi University on 24 March 2018

Medical Physics

Pratik Kumar

1. Measures of protection and monitoring for radiation workers, 5th Asia-Pacific Congress of Interventional Oncology and 4th Annual Meeting of Society of Emergency Radiology, 25-27 August 2017, New Delhi

2. Handling and maintenance of imaging equipments, 5th Asia-Pacific Congress of Interventional Oncology and 4th Annual Meeting of Society of Emergency Radiology, 25-27 August 2017, New Delhi
3. Nano KCl:Sm³⁺ as a new optically stimulated luminescent phosphor, 17th Asia Oceania Congress of Medical Physics (AOCMP) and 38th Annual Conference of Association of Medical Physicists of India, 4-7 November 2017, SMS Medical College, Jaipur

Radiodiagnosis

Sanjay Thulkar

1. Challenges in ovarian malignancies, Inaugural Conference of Society of Oncologic Imaging, India, 3-4 February 2018, Chennai
2. Introduction to the need of Ultrasound in Palliative Care, IAPCON 2018, 22 February 2018, AIIMS, New Delhi
3. Interventional Radiology in Palliative Care, Delhi Imaging Update, Annual Conference of IRIA, Delhi, 25 February 2018, Lady Hardinge Medical College, New Delhi

Mukesh Kumar

1. PICC—How I do it, 2nd AIIMS interventional radiology course combined Ultrasonography—Fluoroscopy guided interventions, 8 April 2017, AIIMS, New Delhi
2. Peripherally inserted central venous line (Workshop), 2nd AIIMS Interventional Radiology Course Combined Ultrasonography—Fluoroscopy guided interventions, 8 April 2017, AIIMS, New Delhi
3. Ultrasound guided nerve blocks: Stellate and brachial plexus block (Workshop), IASP-ISSP Multidisciplinary Pain Course, 2-3 May 2017, AIIMS, New Delhi
4. Work shop on Radio frequency ablation of tumors in body (Workshop), Synergy India: A multidisciplinary meeting on Interventional Oncology organized by Tata Memorial Centre, Mumbai, in collaboration with Synergy Miami, USA, 4 August 2017, Mumbai
5. Imaging in pain management (Workshop), 5th Annual Conference of Asia-Pacific Congress of Interventional Radiology (APCIO 2017), 24-27 August 2017, New Delhi
6. RFA for liver tumours, 5th Asia-Pacific Congress of Interventional Oncology APCIO-2017 on 25 August 2017, New Delhi
7. Radiation risk to sub-speciality health care professionals: Cataract and head and neck tumours, 5th Asia-Pacific Congress of Interventional Oncology APCIO-2017 on 26 August 2017, New Delhi
8. Assessment of airway by sonography (Workshop), International Conference on Perioperative Care of Cancer Patients 2017, 14-15 October 2017, AIIMS, New Delhi
9. Role of imaging in assessment of airway, International Conference on Perioperative Care of Cancer Patients 2017 at Dr BRAIRCH, AIIMS on 14 October 2017, AIIMS, New Delhi
10. Imaging in Carcinoma GB, First joint Gall Bladder Cancer Symposium, Dr BRA-IRCH and National Cancer Institute (NCI), AIIMS, New Delhi and the University of Texas M. D. Anderson Cancer Center (MDACC), 6 November 2017, AIIMS, New Delhi
11. Imaging in Oncological Emergencies, 4th Online lecture for Society of Emergency Radiology under e Lecture Series, 19 January 2018, AIIMS, New Delhi
12. Interventional Pain Management in cancer, National Conference of Indian Society of Vascular and Interventional Radiology, 14 February 2018, SGPGI, Lucknow
13. Ultrasound guided paravertebral and caudal block (Workshop), 25th Silver Jubilee Conference of Indian Association of Palliative Care (IAPCON), 22-25 February 2018, AIIMS, New Delhi
14. Ultrasound guided PICC line (Workshop), 25th Silver Jubilee Conference of Indian Association of Palliative Care (IAPCON), 22-25 February 2018, AIIMS, New Delhi
15. Lecture on percutaneous transhepatic biliary drainage, 25th Silver Jubilee Conference of Indian Association of Palliative Care (IAPCON 2018), organized by the Department of Onco-Anaesthesia and Palliative Medicine, Dr BRA IRCH, 23 February 2018, AIIMS, New Delhi
16. Imaging of upper oropharyngeal airway malignancies—AIIMS MAMC PGI, AIIMS MAMC PGI Imaging Course 2018, 31 March 2018, PGIMER, Chandigarh

Ekta Dhamija

1. Ultrasound guided nerve blocks: Paravertebral and Sacroiliac Joint Block (Workshop), IASP-ISSP Multidisciplinary Pain Course, 2-3 May 2017, AIIMS, New Delhi

2. Imaging in pain management (Workshop), 5th Annual Conference of Asia-Pacific Congress of Interventional Radiology (APCIO 2017), 24-27 August 2017, New Delhi
3. Breast intervention workshop, 5th Annual Conference of Breast Imaging Society of India (BISICON 2017), 22-24 September 2017, Goa
4. Breast Imaging Workshop, ASOMACON 2017 (Asian Society of Mastology), 7-9 October 2017, AIIMS, New Delhi
5. Ultrasound guided nerve blocks for Pain Management (Workshop), International Conference on Perioperative Care of Cancer Patients 2017, 14-15 October 2017, AIIMS, New Delhi
6. Radiological Anatomy of Head and Neck, Update in the Management of Head and Neck Cancer, 3-5 November 2017, AIIMS, New Delhi
7. Ultrasound for deep venous thrombosis (Workshop), 25th Silver Jubilee Conference of Indian Association of Palliative Care (IAPCON), 22-25 February 2018, AIIMS, New Delhi
8. Focussed palliative care ultrasound, 25th Silver Jubilee Conference of Indian Association of Palliative Care (IAPCON), 22-25 February 2018, AIIMS, New Delhi
9. Breast biopsy: Tips and tricks, Annual Conference of Haryana Chapter of IRIA, 18 March 2018, Sonapat, Haryana
10. 2D vs 3D mammography: Debate, Mid term CME of Breast Imaging Society of India, 30-31 March 2018, Gurgaon, Haryana

Radiation Oncology

G.K. Rath

1. Epidemiology of GI Cancers, Tiritiya CARB-E-CON 2017, 9-10 September 2017, Jammu
2. Translational research in India centric cancers, World Congress on Cancer, 3-5 February 2018, Mahatma Gandhi Medical College and Hospital, Jaipur
3. Panel discussion moderator: Role of radiotherapy and newer techniques in treatment of cancer, World Congress on Cancer, 3-5 February 2018, Mahatma Gandhi Medical College and Hospital, Jaipur
4. Role of research in Oncology, International Cancer Conference, 18-20 January 2018, Kathmandu, Nepal
5. Optimizing radiation oncology practices in India; Challemnges and solutions, AROI-NZ, 17 December 2017, Guru Jambheshwar University of Science and Technology, Hisar

D.N. Sharma

1. Role of radiation in early breast cancer: Accelerated partial breast irradiation, 22nd Annual Conference on Breast Cancer Foundation, 10-11 March 2018, Faridabad
2. Conventional X-ray/Fluoroscopic simulation, CT simulation in Cervix EBRT; 2. 2D and 3D delineation of OARs in Cervix Brachytherapy”, 2nd ESTRO AROI Gyn Teaching Course, 8-9 March 2018, Lucknow
3. Hyperthermic Intraperitoneal Chemotherapy in Ovarian Cancer—Dutch OVHIPEC Trial, International Conference on Peritoneal Surface Malignancies, 3-4 March 2018, AIIMS, New Delhi
4. Current status of systemic therapy in advanced ovarian cancer, International Conference on Peritoneal Surface Malignancies, 3-4 March 2018, AIIMS, New Delhi
5. Panel discussion “Role of HIPEC in carcinoma ovary”, International Conference on Peritoneal Surface Malignancies, 3-4 March 2018, AIIMS, New Delhi
6. Role of Brachytherapy in Liver Malignancies, 17th Annual Conference, RGCON, 9-11 February 2018, New Delhi
7. Role of Brachytherapy in Cancer Management, World Congress on Cancer 2018 (WCC), 3-5 February 2018, Jaipur
8. Introduction to YROC and theme of YROC 2018, Young Radiation Oncologists Conference 2018, 12-14 January 2018, New Delhi
9. Brachytherapy in Gynecological Malignancies, G.N. Agarwal Oration, 16 December 2017, Lucknow
10. Role of Intra-vaginal Brachytherapy for Stage III Endometrial Carcinoma, 103rd Scientific Assembly and Annual Meeting, 26 November-1 December 2017, Chicago, USA
11. Developments in Brachytherapy Applicators, 39th Association of Radiation Oncologist of India, 11 November 2017, Karnataka
12. Panel discussion: Has in modern RT improved the therapeutic outcome in Gynecological Malignancies, 39th Association of Radiation Oncologist of India, 11 November 2017, Karnataka
13. Discussion: Proton Beam Therapy: Clinical Efficacy and Need, AOCMP-AMPICON 2017, 4-7 November 2017, Jaipur

14. Discussion: “Locally Advanced Cervical Cancer”, Annual Conference of Women’s Cancer Initiative, 27-29 October 2017, Mumbai
15. Brachytherapy for Head and Neck Cancer, UP-AROICON 2017, 14-15 October 2017, Kanpur
16. Organs at risk delineation in pelvic tumors, ICRO Teaching Programme, 7-8 October 2017, Jaipur
17. Concept of accelerated partial breast irradiation, Workshop on Brachytherapy, 9-10 September 2017, Bengaluru
18. Other techniques of APBI, Workshop on Brachytherapy, 9-10 September 2017, Bengaluru
19. Role of Brachytherapy in re-irradiation, Conference on reirradiation in association with Association of Radiation Oncologists, 26 August 2017, Visakhapatnam
20. Adjuvant Treatment of Carcinoma Cervix, CME and Video Workshop on Cancer Cervix and Cancer Ovary, 25 June 2017, Jaipur
21. Role of Brachytherapy in Early and locally advanced carcinoma cervix, Association of Radiation Oncologists of India, 29-30 April 2017, Patna
22. Brachytherapy in Carcinoma Prostate, Indian College of Radiation Oncology—AROI Teaching Programme, 22-23 April 2017, Dehradun
23. Key Note Lecture, Gynecologic Oncology 2017—From Bench to Beside, 15-16 April 2017, Jalandhar, Punjab
24. SBRT in gynaecological malignancies, International Symposium on Physical, Biological and Clinical Aspects of Hypofractionation in Radiation, 2 April 2017, Jaipur

Sushmita Pathy

1. Controversies in radiotherapy of lung cancer, Big Debates in Radiation Oncology, 16 September 2017, Fortis Memorial Research Institute, Gurgaon
2. Panel discussion Lung cancer session, 2nd Indian Cancer Congress 2017, 8-12 November 2017, Clarks Convention Centre, Bengaluru
3. Brachytherapy for Ocular tumours, 33rd Annual Conference of Odisha State Ophthalmological Society, 11-12 November 2017, MKCG Medical College, Gopalpur, Berhampur, Odisha
4. Chairperson Management of Loco-regional Recurrences and Re-irradiation, VI Annual Conference of Young Radiation Oncology of India, 12-14 January 2018, Dwarka, New Delhi
5. Panel discussion Liver tumours primary and secondary dilemmas to decision, 17th Annual Conference organized by Rajiv Gandhi Cancer Institute and Research Centre, 9-11 February 2018, Rohini, Delhi
6. Optimal management of locally advanced cervical cancer, CME Improving Outcome for Cervical Cancer, 20 March 2018, Sikkim Manipal Institute of Medical Sciences, Gangtok
7. Panel discussion, 3rd ASCO-ISSLC Lung Multidisciplinary Cancer Management Course, 24-25 March 2018, PGIMER, Chandigarh

Subhash Gupta

1. Demography and treatment of Craniopharyngioma in a tertiary centre in India, SIOP 2017, 12-15 October 2017, Washington DC
2. Does temozolomide improve survival in paediatric Glioblastome? A single centre analysis, WFOS 2017, 4-7 May 2017, Kongresshauss, Zurich, Switzerland

Haresh KP

1. Adjuvant Temozolomide and radiation for Anaplastic Oligodendroglioma: A single center experience, WFOS 2017, 4-7 May 2017, Kongresshauss, Zurich, Switzerland
2. Panel discussion on ‘Discussion on Recurrent GI cancers’, YROC 2018, 12-14 January 2018, New Delhi
3. Prognostic factors and survival outcomes of intracranial ependymoma treated with multimodality approach, 14th Meeting of the Asian Society for Neuro-Oncology, 29-31 October 2017, Knowledge Capital Congress Convention Center, Osaka, Japan
4. Grand rounds in breast surgery, ASOMACON 2017, 8 October 2017, AIIMS, New Delhi
5. Hypofractionation in prostate cancers, ICRO Teaching Programme, 25 November 2017, Central University, Max Super Speciality Hospital, Vatinda
6. Role of RT in ca prostate, Urology CGR, 11 July 2017, AIIMS, New Delhi
7. Participated, ESMO Preceptorship on prostate cancer, 15-16 November 2017, Singapore

8. Cognitive Database for Neurooncology: Unearthing the Merits of Realtime Powerful Institutional Data, 2nd Indian Cancer Congress, 8-12 November 2017, Convention Centre, Bengaluru
9. Ablating Cancer Without Knife: Myth or Reality? Radiotherapy CGR, 7 November 2017, AIIMS, New Delhi
10. Real time (4D) Ultrasound Guided and Gated SBRT in prostate cancer, High Precision Radiation Oncology (HiPRO) 2018 Symposium, 24 March 2018, JLN Auditorium, AIIMS, New Delhi

Rambha Pandey

1. Panelist: Clinical decision making in advanced bladder cancer, First Annual Meeting of Oncology Forum, 2-3 September 2017, New Delhi
2. Multimodal management of esophageal cancer, UCMS Surgical Oncology Update 2017, 7 and 8 October 2017, India Islamic Culture Center, Lodhi Road, New Delhi
3. Panelist: Is TNBC an Asian Serotype, ASOMACON 2017, 8 October 2017, AIIMS, New Delhi
4. Panelist: Look into Future: What Are The Challenge Ahead in the Management of Pancreato-Hepatobiliary Malignancies Pertaining to Radiation, NZ-AROICON 2017, 16 December 2017, Hissar
5. Panelist: Consensus and controversies in the management of lung cancer on 21 January 2018, AIIMS Symposium on Thoracic surgery 2018, 19-21 January 2018, Dr Ramalingaswamy Board Room, AIIMS, New Delhi
6. Panelist: Multimodality Approach in Advanced Kidney Cancers, ISO CME, 9 March 2018, Faridabad

Ahitagni Biswas

1. Adjuvant systemic treatment in high risk endometrial cancer, Updates in Management of Gynecological Cancer (AIIMS/NCI/ISCO), 6 August 2017, JLN Auditorium, AIIMS, New Delhi
2. Accelerated fractionation radiotherapy (6 fractions per week) is equivalent to chemoradiation in locally advanced head and neck cancer, 5th Fortis Radiation Oncology Annual Big Debates in Radiation Oncology, 16 September 2017, Meditorium, FMRI, Gurgaon
3. Delineation guidelines in head and neck cancer and IMRT case capsules, Updates in Management of Head and Neck Cancer (AIIMS/NCI/ISCO)—Pre-conference Workshop on Radiotherapy Target Volume Delineation, 3 November 2017, CMET, AIIMS, New Delhi
4. IMRT and beyond for improving survival in Head and Neck Cancer, Updates in Management of Head and Neck Cancer (AIIMS/NCI/ISCO), 5 November 2017, JLN Auditorium, AIIMS, New Delhi
5. Guidelines for RT in young children with brain tumour late effects in young brain tumour survivors-second malignant neoplasm, Joint PHO-ISNO Paediatric Neuro-Oncology Workshop, 24 November 2017, Tata Medical Centre, Kolkata
6. Update on paediatric ependymoma: Focus on young children, PHOCON 2017 Brain Tumour Symposium, 26 November 2017, Kolkata
7. Clinical aspects of particle therapy, High Precision Radiation Oncology (HiPRO) 2018 Symposium, 24 March 2018, JLN Auditorium, AIIMS, New Delhi

Ritesh Kumar

1. Adjuvant radiation in 1-3 LN positive cases in Breast Cancer, Updates in Management of Breast Cancer, 6 May 2017, AIIMS, New Delhi
2. Dosimetric comparison of pencil beam, Collapsed Cone and Monte Carlo Algorithms in Radiotherapy Planning of Cancer Cervix, Global Academic Programs (GAP) 2017 Conference, 9-11 May 2017, MD Anderson Cancer Centre, USA
3. Adjuvant radiotherapy in Vulvar Cancers—Indications and techniques, Updates in Management of Gynaecological Cancer, 6 August 2017, AIIMS, New Delhi
4. Role of radiation in Gall Bladder Cancer, Ist Joint Symposium on Gall Bladder Cancer (NCI-INDIA, AIIMS Delhi and MDACC, USA), 6 November 2017, AIIMS, New Delhi
5. Panel discussion on challenges in management of Ca cervix; Pertaing to MRI, PET CT, AROI-NZ (Annual Conference North Zone of “Association of Radiation Oncologists of India), 17 December 2017, Guru Jambheshwar University of Science and Technology, Hisar, Haryana
6. Panel discussion on common issues faced in Hepatobilliary Brachytherapy, 17th Annual International Conference organized by the Rajiv Gandhi Cancer Institute and Research Centre, 9 February 2018, Rohini, New Delhi

Surgical Oncology

S. V. Suryanarayan Deo

1. Role of Surgery in LABC, Breast Cancer CME, 1-2 April 2017, Rishikesh
2. Resource Based Management Guidelines for Breast Cancer, South East Asia Breast Cancer Symposium 2017 SEABCS), 14-17 July 2017, Myanmar
3. Management of differentiated thyroid cancer, UCMS- Surgical Oncology Update, 7 October 2017, New Delhi
4. Breast cancer case capsules, Indian Cancer Congress, 8-12 November 2017, Bengaluru
5. Management approach for Thyroid cancer, ISCO Head and Neck Cancer Update, 5-6 August 2017, New Delhi
6. Panel discussion on oncoplasty, Asian Society of Mastology Conference (ASOMA), 7-9 October 2017, Delhi
7. Palliative Surgery—Are we doing enough, International Conference on Peri-operative Care, 14-15 October 2017, Delhi
8. Challenges in the Management of Breast Cancer in LMIC, 47th World Congress of Surgery 2017, 13-17 August 2017, Basel, Switzerland
9. Breast cancer screening and prevention, ISCO-Student Mentorship Program, 12-18 December 2017, New Delhi
10. Role of Surgeon in solid tumor management—Changing paradigm, Update on Hepatobiliary and Pancreatic Cancers, 3 February 2018, New Delhi
11. Basic requirements for CRS+HIPEC, Cadaver Workshop—Peritonectomy and HIPEC, 2-3 March 2018, New Delhi
12. Management of chest wall tumors, Thoracic Surgery Update, 19-21 January 2018, New Delhi

Sunil Kumar

1. Lymphadenectomy in middle third squamous cell cancer of Esophagus, Max Hospital, Saket, January 2018, New Delhi
2. Live demonstration of low anterior resection for advanced rectal cancer, Live workshop, Bhopal Surgical Association, February 2018, Bhopal
3. Demonstration of vascular access procedures for cancer patients, IAPCON 2018, February 2018, New Delhi
4. Management of small cell Lung cancers, 3rd Master Course in Lung Cancer, March 2018, Chandigarh

M.D. Ray

1. Updates in management of Gynecological Cancer—An initiative of NCI-India, AIIMS, New Delhi, From 5-6 August 2017, New Delhi
2. Workshop, UCMS Surgical Oncology Update 2017 National Symposium on Recent Advances in Oncology and Master Video Workshop organized by Department of Surgery, University College of Medical Sciences and Guru Teg Bahadur Hospital, University of Delhi, from 7-8 October 2017, New Delhi
3. 25th Annual Conference of Association of Gynecologic Oncologists of India (AGOI) and 15th Annual Conference of Women's Cancer Initiative at Tata Memorial Hospital, Mumbai, from 27-29 October 2017, Mumbai
4. Workshop, Cadaveric workshop, CadGo 2018, AIIMS, from 6-7 January 2018, New Delhi
5. Conference, Kolkata Gynaecological Oncology Trials and Translational Research Group (KolGO Trg) Meeting: Current Research Overview, 31 January 2018-1 February 2018, Kolkata
6. Video on Optimal CRS in ca. ovary, European Society of Surgical Oncology (ESSO) and Indian Society of Peritoneal Surface Malignancies (ISPSM), Cadaver Course and Workshop on CRS and HIPEC, 3-4 March 2018, New Delhi
7. Newer Techniques in Surgical Oncology, "Recent Trends in Nursing: Care, Compassion and Innovations" 2018 at CMET, AIIMS, New Delhi, 9 March 2018, New Delhi

Sandeep Kumar Bhorwal

1. Pre operative evaluation of gall bladder cancer, Surgical Oncology Update, 8 October 2017, New Delhi
2. Obstructive jaundice case presentation, Surgical Oncology Update, 3 February 2018, New Delhi

Oral papers/posters presented

1. Mittal A, Sharma R, Saini P, Kotnala RK, Kumar P. Indigenous preparation and study of radiochromic film as radiation dosimeter for medical applications: A preliminary work, 17th Asia Oceania congress of Medical Physics (AOCMP) and 38th Annual Conference of Association of Medical Physicists of India, 4-7 November 2017, SMS Medical College, Jaipur

2. A review of morbidity in cytoreductive surgery and hyperthermic intraperitoneal chemotherapy in a tertiary care centre—A retrospective study, International Conference on Peritoneal Malignancies, 4 March 2018, AIIMS, New Delhi
3. Adhikari N, Biswas A, Gogia A, Sahoo RK, Garg A, Nehra A, et al. A prospective phase II trial of response adapted whole brain radiotherapy after high dose Methotrexate based chemotherapy in patients with newly diagnosed primary central nervous system lymphoma, 2nd Indian Cancer Congress (ICC), November 2017, Clarks Convention Centre, Bengaluru, India
4. Agarwala S, Bakhshi S, Dhua A, Sirmivas M, Thulkar S, Jana M, Devasenathipathy K, Bisoi AK, Bhatnagar V. Incidence, Treatment and Outcome of Recurrent (REC) Malignant Germ Cell Tumors (MGCT): A Single Institution Experience 49th Congress of the International Society of Paediatric Oncology (SIOP), October 2017, Washington DC, USA
5. Agarwala S, Varshney A, Chopra A, Kumar R, Bakhshi S, Iyer VK, Bhatnagar V. CTNNB1 Gene-Encoding B—Catenin Deletions or Mutations in Hepatoblastoma in India, 49th Congress of the International Society of Paediatric Oncology (SIOP), October 2017, Washington DC, USA
6. Airway Management Choices in Head and Neck Cancer Patients: A Retrospective Analysis, IARS 2017, May 2017, Washington
7. Airway management choices in head and neck cancer patients: A retrospective analysis, ICCPCP 2017, October 2017, New Delhi
8. Airway management of tracheal tear during dilatation of tracheal stenosis: An emergency. International Conference on Perioperative Care of Cancer Patients (ICPCCP) 2017, AIIMS, New Delhi, October 2017
9. Kumar A, Tyagi A, Pramanik R, Batra A, Chopra A, Bakhshi S*. Characteristics and outcome of myeloid sarcoma in children at a tertiary care centre from India, 49th Congress of the International Society of Paediatric Oncology at Washington, 12-15 October 2017
10. Baby A, Paul SB, Hari S, Dhamija E. Chronic mastitis: An uncommon benign entity mimicking breast carcinoma, 17th Asian Oceanic Congress of Radiology and 71st Annual Conference of Indian Radiology and Imaging Association (AOCR-IRIA 2018), 25-28 January 2018, Powai, Mumbai
11. Baby A, Hari S, Paul SB, Dhamija E. Vacuum Assisted breast biopsy: When and How? **SECOND PRIZE**, 17th Asian Oceanic Congress of Radiology and 71st Annual Conference of Indian Radiology and Imaging Association (AOCR-IRIA 2018), 25-28 January 2018, Powai, Mumbai
12. Analgesic efficacy of intrathecal morphine for post-operative pain in patients undergoing thoracotomy for oncosurgeries—A case series, International Conference on Perioperative Care of Cancer Patients (ICPCCP) 2017, AIIMS, New Delhi, October 2017
13. Mookerjee A, Gupta R, Jasrotia S, Sahoo R, Kumar R, Thulkar S, Dutt Sharma O, Kumar L*. Bortezomib, Lenalidomide and Low-Dose Dexamethasone (VRD) Versus Lenalidomide and Low-Dose Dexamethasone (LD) for Newly-Diagnosed Multiple Myeloma—A Randomized Phase III Study, 59th Annual Meeting of the American Society of Hematology (9-11 December 2017) at Atlanta, United States
14. Barua A, Ray MD, Deo SVS. Patterns of recurrence in peritoneal carcinomatosis after Cytoreductive Surgery (CRS) and HIPEC) from a tertiary care center experience, ESSO-ISPSM International Conference 2018, 3-4 March 2018, New Delhi
15. Mishra A, MD Ray MD, Deo SVS. Clinical profiles, Peritoneal Cancer Index (PCI), Extent of Resection and Completeness of Cytoreduction (CC) rates in Peritoneal Carcinomatosis (PC) after CRS and HIPEC, ESSO-ISPSM International Conference 2018, 3-4 March 2018, New Delhi
16. Mishra A, Deo SVS, Ray MD. Technical Challenges while Performing HIPEC in Patients With Large Full Thickness Parietal Wall Resections, ESSO-ISPSM International Conference 2018, 3-4 March 2018, New Delhi
17. Mishra A, Deo SVS, Shukla NK. Impact of Routine Cavity Shave During Breast Conservation Surgery on Margin Positivity, Re-excision and Local Recurrence Rates: Results of a Prospective Study From an Indian Tertiary Care Cancer Centre, 47th World Congress of Surgery 2017, 13-17 August 2017, Basel, Switzerland
18. Mishra A, Deo SVS, Shukla NK. Bilateral Breast Cancer—Incidence, clinical spectrum and Challenges in the Management, 2nd Indian Cancer Congress 2017, 7-12 November 2017, Bengaluru
19. Assessment of Incidence of Postoperative Pulmonary Complications in Major Oncological Surgeries at a tertiary care centre: A Prospective Observational Study. International Conference on Perioperative Care of Cancer Patients (ICPCCP) 2017, AIIMS, New Delhi, October 2017
20. Assessment of Quality of life in Head and Neck cancer patients visiting Palliative Care outpatient department, IAPCON 2018, February 2018, New Delhi

21. Avin, Hari S, Paul SB, Dhamija E, Thulkar S, Vyas S, Gogia A, Deo SVS, Seenu V, Mathur S, Sreenivas V. Role of MRI in preoperative evaluation of breast carcinoma in patients eligible for Breast conservation therapy, 4th Annual Conference of Breast Imaging Society of India (BISICON 2017), 22-24 September 2017, Goa
22. Bansal B, Ray MD, Deo SVS. Morbidity and Mortality after CRS and HIPEC—An experience from tertiary care centre in North India—CW-ICPSM 2018, ESSO-ISPSM International Conference 2018, 3-4 March 2018, New Delhi
23. Bansal B, Deo SVS, Shukla NK, Sunil K. Patterns of systemic relapse in curatively treated soft tissue sarcoma: Long term results from a tertiary care centre—ICC 2017, Indian Cancer Congress 2017, 8-12 November 2017, Bengaluru
24. Batra A, Dhawan D, Paul R, Kumari M, Bakhshi S. Improvement in Compliance of Patients with Non-Metastatic Retinoblastoma with Low-Cost Prospective Database and Patient Tracking System: A Study from Tertiary Care Centre in India, 49th Congress of the International Society of Paediatric Oncology (SIOP), October 2017, Washington DC, USA
25. Behan J, Tsimicalis A, Carnevale F, Bakhshi S, Bhattacharjee B, Arora RS. Children's Participation in Decisions, Discussions, and Actions in a Pediatric Oncology Setting in New Delhi, India: A Focused Ethnography 49th Congress of the International Society of Paediatric Oncology (SIOP), October 2017, Washington DC, USA
26. Biswas A, Adhikari N, Bakhshi S, Mohanti BK. Treatment outcome in patients with orbital rhabdomyosarcoma-clinical experience from a regional cancer centre in North India, 11th SIOP Asia Congress, May 2017, Bangkok, Thailand
27. Biswas A, Adhikari N, Bakhshi S, Sen S, Kashyap S, Meel R, et al. Treatment outcome in patients with orbital Rhabdomyosarcoma-clinical experience from a regional cancer centre in North India, 49th Congress of the International Society of Paediatric Oncology (SIOP), October 2017, Washington DC, USA
28. Biswas A, Gupta S, Haresh KP, Mallick S, Chaudhari PB, Kakkar A, et al. Intracranial haemangiopericytoma clinical experience from a tertiary care centre in North India, 5th Quadrennial Meeting of the World Federation of Neuro-Oncology, May 2017, Kongresshaus Zürich, Zurich, Switzerland
29. Biswas A, Julka PK, Bakhshi S, Rath GK. Clinical outcome in patients with primary central nervous system germ cell tumor: Updated results from a regional cancer centre in North India, The 11th SIOP Asia Congress (SIOP Asia 2017), May 2017, Bangkok, Thailand
30. Bobby E, Sharma G, Jain A, Mudassir M, Chattopadhyay P, Chopra A, Bakhshi S, Palanichamy JK. Novel biomarker to diagnose ETV6-RUNX1 translocation in B-cell Acute Lymphoblastic Leukemia, ESMO (European Society for Medical Oncology)—Asia 2017 Congress, November 2017, Singapore
31. Prasad CP. Foxy5 (a WNT5A mimicking peptide) inhibits Breast Cancer migration and metastasis, Recent Trends in Cell and Molecular Biology Research, 27-28 October 2017, Department of Life Sciences, Greater Noida, India
32. Comparative evaluation of forced air warming and infusion of amino Acid enriched solution on intraoperative hypothermia in patients undergoing major oncological surgeries under general anesthesia: A prospective randomized study, IARS 2017, May 2017, Washington
33. Comparative evaluation of Intravenous infusion of Dexmedetomidine vs Morphine for postoperative analgesia and sedation in Commando surgeries, ICCPCP 2017, 14-15 October 2017, AIIMS, New Delhi
34. Comparison of two techniques of postoperative analgesia: Lignocaine fentanyl intravenous infusion and ropivacaine fentanyl epidural infusion in patients undergoing major abdominal surgery—A prospective randomized control study, International Conference on Perioperative Care of Cancer Patients (ICPCCP) 2017, AIIMS, New Delhi, October 2017—Awarded 1st Prize
35. Correlation of levels of Thrombopoietin and Procalcitonin postoperatively in gastrointestinal cancer patients, Oncology Forum, Annual Symposium, 3 September 2017, New Delhi
36. Nichat V, Chahal A, Yadav M, Thulkar S. Percutaneous radiological gastrostomy for pharyngeal malignancies, 17th Asian Oceanic Congress of Radiology and 71st Annual Conference of Indian Radiology and Imaging Association (AOCR-IRIA 2018), 25-28 January 2018, Powai, Mumbai
37. Effect of Palliative Bronchoscopic Interventions on quality of life of patients with Central Airway narrowing: A Retrospective Review, IAPCON 2018, February 2018, New Delhi
38. Dhamija E, Rastogi S, Ranjan A, Barwad A, Pandey R, Deo SVS. Head and Neck Sarcoma—Retrospective analysis from dedicated Sarcoma Medical Oncology Clinic from a tertiary care center in North India
39. Dhamija E, Nichat V, Thulkar S. Pattern of metastases in Thyroid Cancers, 17th Asian Oceanic Congress of Radiology and 71st Annual Conference of Indian Radiology and Imaging Association (AOCR-IRIA 2018), 25-28 January 2018, Powai, Mumbai

40. Dhamija E, Nichat V, Thulkar S. Pattern of metastases in Thyroid Cancers, Inaugural Conference of Society of Oncologic Imaging, India, 3-4 February 2018, Egmore, Chennai
41. Dhamija E, Nichat V, Thulkar S. Radiation Induced Changes in Face and neck Cancer patients, 17th Asian Oceanic Congress of Radiology and 71st Annual Conference of Indian Radiology and Imaging Association (AOCR-IRIA 2018), 25-28 January 2018, Powai, Mumbai
42. Dhamija E, Nichat V, Thulkar S. Radiation Induced Changes in Face and neck Cancer patients **SECOND PRIZE**, Inaugural Conference of Society of Oncologic Imaging, India, 3-4 February 2018, Chennai
43. Detection of Epigenetic alterations in circulating DNA/RNA as biomarkers in lung cancer, Kolkata Health Summit/ World Cancer Congress, Science City, Kolkata from 20-22 September 2017.
44. Financial burden in palliative care patients attending a tertiary care centre, IAPCON 2018, February 2018, New Delhi
45. Gaur V, Bakhshi S, Sharma P, Kumar S. Small RNA sequencing reveals deregulated microRNA expression in the bone marrow of pediatric cytogenetically normal acute myeloid leukemia patients, Poster presented by JRF Vikas Gaur in 37th IACR Convention 2018 organized at Bose Institute, Salt Lake, Kolkata from 23-25 February 2018
46. Gupta S, Bakhshi S, Chopra A, Kumar R. Molecular Genetic Profile in BCR-ABL1 Negative Pediatric B-Cell Acute Lymphoblastic Leukemia Can Further Refine Outcome Prediction in Addition to That by End-Induction Minimal Residual Disease, 49th Congress of the International Society of Paediatric Oncology (SIOP), October 2017, Washington DC, USA
47. Gupta S, Haresh KP, Malik S, Rath GK. Demography and treatment of Craniopharyngioma in a tertiary centre in India, SIOP 2017, 12-15 October 2017, Washington DC
48. Gupta S, Haresh KP, Malik S, Rath GK. Does temozolomide improve survival in paediatric Glioblastome? A single centre analysis, WFNOS 2017, 4-7 May 2017, Kongresshauss, Zurich, Switzerland
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54. Impact of nutritional status on length of hospital stay in adult patients undergoing cancer surgeries—A prospective observational study, International Conference on Perioperative Care of Cancer Patients (ICPCCP) 2017, AIIMS, New Delhi, October 2017
55. Incidence and risk factors for post-operative nausea vomiting in cancer surgeries in a tertiary care center—A prospective observational study, International Conference on Perioperative Care of Cancer Patients (ICPCCP) 2017, AIIMS, New Delhi, October, 2017
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71. Ray MD. Newer technique in Surgical Oncology, Recent Trends in Nursing: Care, Compassion and Innovations 2018, 9 March 2018, New Delhi
72. Ray MD. Presentation of CRS and HIPEC, Cadaveric workshop, CadGo 2018, From 6-7 January 2018, New Delhi
73. Ray MD. Recent advance in treatment of Ca Ovary-HIPEC/PIPEC, Updates in management of Gynecological Cancer—An initiative of NCI-India, from 6-7 May 2017, New Delhi
74. Ray MD. Role of HIPEC in colorectal cancer, Apollo International Colorectal Symposium 2018, 24-25 March 2018, Chennai
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84. Kumar N, Deo SVS, Shukla NK, Sunil K, Sandeep K. Analysis of anatomical sub-site distribution with limb salvage surgery in extremity Sarcomas: An experience of department of surgical oncology, AIIMS, New Delhi, Indian Cancer Congress 2017, 14 April 2017, Ahmedabad
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92. Palanichamy JK, Sharma G, Boby E, Jain A, Chattopadhyay P, Chopra A, Bakhshi S. Deciphering the role of IGF2BP1 in ETV6-RUNX1 positive leukemia, EMBO/EMBL Symposium: From Single to Multiomics: Applications and Challenges in Data Integration, November 2017, Heidelberg, Germany
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99. Paul S, Vidyasagar R, Dhamija E, Gamanagatti S, Shalimar S, Acharya S. Utility of Lipiodol CT for Treating Small Hepatocellular Carcinoma, Annual Scientific meeting of Indian National Association for Study of Liver (INASL), 3-6 August 2017, New Delhi
100. Placement of Self-Expandable Metallic Stents for Tracheal Stenosis secondary to Thyroid Cancer: Case Report, ISA Delhi Clinical Meeting 2017
101. Plasam Cell Leukemia, a series of eight cases, UPPATHOCON, 23-24 October 2017, Lucknow
102. Pain and Palliative Care: 15th World Conference of the European Association for Palliative Care (EAPC), 18-20 May 2017, Madrid, Spain
103. Pramanik R, Bakhshi S, Sreeniwass V, Batra A, Gupta YK. Metronomic Chemotherapy versus best supportive care in progressive pediatric solid tumours, 37th ICON (Indian Cooperative Oncology Network), 15-17 September 2017, New Delhi

104. Prevalance and risk factors of cognitive dysfunction in advanced cancer patients admitted in Palliative Care Unit, IAPCON 2018, February 2018, New Delhi
105. Prevalence of neuropathic cancer pain and its impact on quality of life in palliative care setup at tertiary care centre: An observational study, IAPCON 2018, February 2018, New Delhi
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108. Raj A, Batra A, Bakhshi S, Biswas B. Langerhans Cell Histiocytosis: A Single Center Experience of 92 Cases, 49th Congress of the International Society of Paediatric Oncology (SIOP), October 2017, Washington DC, USA
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110. Gupta R, Rani L, Mathur N, Singh K, Sundar D, Gogia A, Kumar L, Sharma A. Elucidation of miRNAs associated with Disease Progression and Response in Chronic Lymphocytic Leukemia. Poster No. 215, XVIIth International Workshop on Chronic Lymphocytic Leukemia, 13-15 May 2017, New York, USA
111. Role of Pre-operative pictorial and multimedia video information for explaining anaesthetic plan and educating about Neuraxial block (Spinal, Epidural and CSE) on patients cooperation and overall satisfaction. International Conference on Perioperative Care of Cancer Patients (ICPCCP) 2017, AIIMS, New Delhi, October 2017—Awarded 3rd Prize
112. Sharma S, Subramani V, Kumar P, Gopishankar N, Bhaskar S, Pathy S, Thulkar S, Chander S. Influence of Statistical Uncertainty On Monaco MonteCarlo Dose Calculation, AAPM 59th Annual Meeting, 30 July-3 August 2017, Denver, USA
113. Sharma S, Subramani V, Kumar P, Bhaskar S, Pathy S, Thulkar S, Gopishankar N, Chander S. Validation of 3D Patient Specific Quality Assurance Software (COMPASS) Using AAPM TG119, AAPM 59th Annual Meeting, 30 July-3 August 2017,, Denver, USA
114. Sharma S, Subramani V, Kumar P, Bhaskar S, Pathy S, Thulkar S, Sairem M, Binjola A, Agarwal P, Dhayanethi N, Chnder S. IMRT and VMAT commissioning for Versa HD linear accelerator using AAPM TG-119, ESTRO 36 Annual Meeting, 5-9 May 2017, Vienna, Austria
115. Ghose S, Biswas S (2018). Therapeutic Intervention against extracellular matrix deposition for regression of liver injuries and hepatocellular carcinoma (Oral presentation) at 37th IACR (Indian Association for Cancer Research) Convention at Bose Institute, Kolkata on 23-25 February 2018
116. Sharma S, Ghufran SM, Ghose S, Biswas S (2018). Survivin inhibition limits TGF- β -induced fibrogenic responses of hepatic stellate cells (Poster) at International Conference on Cell death in Cancer And Toxicology, CSIR-Indian Institute of Toxicology Research, Lucknow, 20-22 February 2018
117. Sharma S, Ghufran SM, Ghose S, Biswas S (2018). Strategies of antagonizing anti-apoptotic proteins to target detrimental cells for regression of liver injuries and carcinogenesis (Oral presentation) at International Conference on Cell death in Cancer and Toxicology, CSIR-Indian Institute of Toxicology Research Lucknow on 20-22 February 2018; Published in Cancer Medicine Vol 7, Supple 1, page 24 IF: 3.8
118. Deo SVS, Manoharan N, Rath GK. HBCR, Dr BRAIRCH, XXXIIIrd Annual Review Meeting of National Cancer Registry Programme, 30 November 2017, Do
119. Vijaya S, Yi A, Lee BH, Singh TD. Rang-Woon Park, Non-invasive imaging of therapeutic effect induced by IL-4 receptor targeting AP1-ELP-KLAK in glioblastoma tumor model, 23rd Asia Pacific Cancer Conference, 22-24 June 2017, The COEX, Seoul, South Korea
120. Singh S, Ray MD, Deo SVS*. Comparative analysis between Interval CRS and HIPEC and secondary CRS and HIPEC, ESSO-ISPSM International Conference-2018, 3-4 March 2018, New Delhi
121. Singh S, Deo SVS, Shukla NK*. Optimizing morbidity in high risk thyroid cancer after Re-do surgery; quality and quantity matters, Indian Cancer Congress 2017, 9-10 November 2017, Bengaluru
122. Sharma A, Tilak T, Bakhshi S, Raina V, Kumar L, Chaudhary SP, Sahoo RK, Gupta R, Thulkar S. Lactobacillus brevis CD2 lozenges prevent oral mucositis in patients undergoing high dose chemotherapy followed by haematopoietic stem cell transplantation, ESMO Open, September 2017, Madrid, Spain
123. Sharma G, Boby E, Jain A, Chattopadhyay P, Chopra A, Bakhshi S, Palanichamy JK. Investigating the link between C-MYC levels with IGF2BP1 expression in B-Acute Lymphoblastic Leukemia, Wellcome Trust-DBT India Alliance Student Research Symposium, November 2017, Chennai

124. Sharma G, Boby E, Jain A, Chattopadhyay P, Chopra A, Bakhshi S, Palanichamy JK. The nexus between C-MYC and IGF2BP1 in B-Acute Lymphoblastic Leukemia, ACBICON 2017 (Association of Clinical Biochemists Conference), December 2017, Lucknow
125. Sharma G, Boby E, Jain A, Chattopadhyay P, Chopra A, Bakhshi S, Palanichamy JK. ETV6 as a regulator of the IGF2BP family of RNA binding proteins in Acute Lymphoblastic Leukemia, IACR 2018 Annual Conference (Indian Association for Cancer Research), February 2018, Kolkata
126. Sharma, Aggarwal A, Vanidassane I, Sharma A, Mridha A, Deo S, Rastogi S, et al. Pazopanib toxicity in a metastatic sarcoma cohort: Are Indian patients different? European Society of Medical Oncology, Asia, 18 November 2017, Singapore
127. Paul SB, Vidyasagar R, Dhamija E, Gamanagatti SR, Shalimar, Acharya SK, Lipiodol CT: A technique for treating small hepatocellular carcinomas, 27th Asian Pacific Association for the Study of the Liver (APASL 2018, 14-18 March 2018, New Delhi
128. Paul SB, Hari S, Vidyasagar R, Adarsh AD, Dhamija E, Thulkar S, et al. Adjunct Role Of Shear Wave Elastography To B-Mode Ultrasound In Characterizing Breast Masses, 4th Annual Conference of Breast Imaging Society of India (BISICON 2017), 22-24 September 2017, Goa
129. Paul SB, Vidyasagar R, Dhamija E, Singh S, Gamanagatti SR, Acharya SK. Evaluation of Focal Liver lesions by Contrast enhanced ultrasound, 17th Annual International Conference organized by Rajiv Gandhi Cancer Institute and Research Centre (RGCON), 9-11 February 2018, Delhi
130. Paul SB, Dhamija E, Vidyasagar R, Gamanagatti SR, Shalimar, Acharya SK. Hepatocellular carcinoma associated with Hepatic venous outflow tract obstruction: A complex entity to treat, 17th Annual International Conference organized by Rajiv Gandhi Cancer Institute and Research Centre (RGCON), 9-11 February 2018, Delhi
131. Singh J, Rajpoot N, Verma D, Kumar R, Bakhshi S, Seth R, Kumar J, Sharma A, Sahoo RK, Chopra A. Absence of biallelic deletion of TCR γ chains as a predictor of induction failure and poor outcome in T-ALL, Indian Association for Cancer Research, February 2018, Kolkata
132. Singh J, Verma D, Rajpoot N, Bakhshi S, Sharma A, Gogia A, Kumar R, Chopra A. Correlation of common genetic alterations in acute myeloid leukemia with immune-phenotypic features: A report from a tertiary care cancer centre in northern India, Society of Yung Scientist Conference, January 2018, New Delhi
133. Hari S, Paul SB, Vidyasagar R, Adarsh AD, Dhamija E, Thulkar S, Sharma S, Srivastava A. Characteristics Of Benign And Malignant Breast Masses On Shear Wave Elastography, 4th Annual Conference of Breast Imaging Society of India (BISICON 2017), 22-24 September 2017, Goa
134. Sethi S, Dhamija E, Kumar M, Thulkar S. *Comparison of synthesized mammogram with standard full field digital mammography in combination with digital breast tomosynthesis in a diagnostic setting-preliminary Indian experience*. Abstract no 3927, Electronic presentation online system, European congress of Radiology, 28 February-4 March 2018, Vienna, Austria
135. Bhasker S, Meena R, Madan R. Evaluation of acute toxicity and quality of life in breast cancer patients undergoing radiation treatment by conventional versus hypofractionation regimes at a tertiary care centre in India”, 2017 Canadian Cancer Research Conference, 5-7 November 2017, Vancouver, Canada.
136. Kumar S, Deo SVS, Shukla NK. is conservative surgery for axilla in locally advanced breast cancer patients appropriate? Analysis of 1293 patients from a tertiary care cancer in India, 24th Asia Pacific Cancer Conference, June 2017, Seoul (South Korea)
137. Kumar S, Kumar V, Deo SVS, Shukla NK. surgical resection of large anterior mediastinal masses: Results of median sternotomy approach, 24th Asia Pacific Cancer Conference, June 2017, Seoul (South Korea)
138. Singh TD, Ji HD, Lee SW, Jeong SY, Ahn BC, Lee J, Jeon YH. A novel orally active inverse agonist of estrogen-related receptor gamma (ERR γ), DN434, increase the susceptibility of radioiodine therapy against anaplastic thyroid cancer through upregulation of sodium iodide symporter function, Society of Nuclear Medicine (SNM) - Society of Nuclear Medicine Annual Meeting, 10-14 June 2017, Colorado Convention Center, Denver, United States
139. To evaluate the role of thrombopoietin as a marker of infection in cancer patients” in Oncology Forum, Annual Symposium (Research Presentation), Oncology Forum, Annual Symposium, 3 September 2017, New Delhi
140. Vanidassane I, Sharma A, Mrdha A, Dhamija E, Rastogi S (corresponding author). Multimodality treatment of Head and neck soft tissue sarcomas (STS) and short term outcomes: A retrospective analysis from sarcoma medical oncology clinic, Indian Cancer Congress 2017, 11 November 2017, Bengaluru
141. Verma D, Kapoor S, Singh J, Bakhshi S, Rajpoot N, Seth R, Pati HR, Sivasubbu S, Scaria V, Sharma A, Kumar R, Chopra A. Comprehensive analysis of protein coding and non-coding RNA in T-cell acute lymphoblastic leukemia in India, HAEMATOCAN, November 2017, Guwahati

142. Vidyasagar R, Dhamija E, Paul S, Gamanagatti S. Role of Diffusion Weighted Imaging in Assessment of Tumor Response After Loco-regional Therapy in Patients of Hepato-Cellular Carcinoma, Annual Scientific meeting of Indian National Association for study of Liver (INASL), 3-6 August 2017, New Delhi

RESEARCH

Onco-Anesthesia and Palliative Medicine

Funded projects

Ongoing

1. Spiritual problems and concerns faced by Indian palliative care patients, Shushma Bhatnagar, ICMR, 2 years, 2017-2019, Rs 13 lakhs
2. Prevalence and factors associated with cancer related neuropathic pain in India: A cross sectional study, Shushma Bhatnagar, ICMR, 2 years, Rs 10 lakhs
3. Effectiveness of forced air warming and infusion of high dose of amino acid solution on intraoperative hypothermia and coagulation dysfunction in patients undergoing head and neck cancer surgeries: A prospective randomized non-inferiority study, Nishkarsh Gupta, AIIMS, 1 year, 2017-2018, Rs 3.4 lakhs (approx)

Completed

1. Molecular Determinates of Response to opioids in cancer patients: Indian Scenario, Shushma Bhatnagar, ICMR, 3 years, 28 lakhs
2. Comparative evaluation of forced air warming and infusion of amino Acid enriched solution on intraoperative hypothermia in patients undergoing head and neck cancer surgeries: A prospective randomized study, Nishkarsh Gupta, AIIMS, 1 year, 2014-2015, Rs 4 lakhs

Departmental projects

Ongoing

1. A comparison of two techniques of postoperative analgesia: Lignocaine-fentanyl intravenous infusion and ropivacaine-fentanyl epidural infusion in patients undergoing major abdominal oncosurgery—A randomized control trial
2. A cross-sectional survey of medical professionals in India to assess their prescription practices, knowledge, attitude, and barriers towards opioid analgesic prescriptions
3. A double blind, double-dummy, randomized, prospective, two arm, parallel, multicenter, phase iv clinical trial to evaluate efficacy and safety of Gaba-NT (fixed-dose combination of gabapentin and nortriptyline) in comparison with gabapentin in patients with neuropathic pain
4. A Pilot Randomized Clinical Trial Comparing Desflurane Anaesthesia vs Total Intravenous Anaesthesia, for changes in Hemodynamic, Inflammatory and Coagulation Parameters in patients undergoing Hyperthermic Intraperitoneal Chemotherapy
5. A prospective randomized study to assess the analgesic efficacy of Serratus anterior plane block for modified radical mastectomy with axillary dissection under general anaesthesia
6. A prospective, randomized, double blinded comparison of intranasal Dexmedetomidine vs intranasal ketamine for efficacy of sedation in preschool children undergoing radiotherapy procedures.
7. A randomized control trial to evaluate the efficacy of scrambler therapy in the management of pain due to cancers of head, neck and thoracic origin
8. A survey of medical professionals in an apex tertiary care hospital to assess awareness, interest, practices and knowledge in palliative care: A descriptive cross-sectional study
9. An assessment of need for palliative care in patients with rheumatoid arthritis using SF36, DAS28, DASS and HAQ-DI questionnaires
10. An exploratory cross sectional study to identify the social contents of pain in cancer patients
11. An observational study to elucidate the reasons for non-compliance to home treatment for breast cancer related lymphedema in a tertiary care hospital
12. Asian patient's perspective regarding oncology awareness, care and health (APPROACH)
13. Assessment of care Giver Burden in palliative care
14. Assessment of palliative care outcome in patients of multiple myeloma attending the palliative care clinic of a tertiary care centre: A prospective observational study
15. Assessment of palliative care outcomes in patients of gastro intestinal malignancies attending the palliative care clinic of a tertiary care centre: A prospective observational study

16. Assessment of quality of life in head and neck cancer patients visiting palliative care outpatient department
17. Cardiopulmonary exercise testing as a predictor of outcomes after major oncological abdominal surgeries: A prospective observational study
18. Cardiopulmonary exercise testing as an early predictor of chemotherapy induced cardiac dysfunction in carcinoma breast patients receiving neo-adjuvant chemotherapy and to compare their early post-operative recovery with the carcinoma breast patients posted for upfront surgery: A prospective observational study
19. Comparative evaluation of Intravenous infusion of dexmedetomidine V/S Morphine for postoperative analgesia and sedation in Commando surgeries
20. Comparative evaluation of Nasotracheal intubation with Glidescope Videolaryngoscope and conventional Macintosh laryngoscope using cuff inflation technique in patients undergoing head and neck cancer surgeries: A prospective randomized study
21. Comparison of analgesic efficacy of Ultrasound guided thoracic Paravertebral block versus surgeon guided Serratus Anterior Plane block for acute postoperative pain in patients undergoing thoracotomy for lung surgery-A prospective randomized study
22. Comparison of efficacy of ultrasound guided paravertebral block versus erector spinae plane block for postoperative analgesia in modified radical mastectomy: A Randomized Controlled Trial
23. Comparison of intervention with analgesics versus analgesics alone in patients with upper abdominal malignancy in terms of pain relief and quality of life at 3 months follow up: A Prospective randomized study
24. Comparison of two different doses of hyperbaric bupivacaine for intracavitary radiotherapy in patients with carcinoma cervix: A randomized control trial
25. Comparison of WHO step 2 analgesic drug versus step 3 analgesic drug in stage 4 opioid-naive lung cancer patients presenting to pain clinic with moderate to severe pain in terms of pain relief and quality of life at 3 weeks follow up: A randomized prospective study
26. Development of tool to assess total pain in cancer patients
27. Effect of Patient Controlled Epidural Analgesia (PCEA) and Intravenous Patient Controlled Analgesia (IVPCA) on postoperative inflammatory response and cancer recurrence in patients undergoing abdominal oncosurgery—A prospective randomized controlled trial
28. Effect of perioperative pregabalin on incidence of chronic post mastectomy pain syndrome—A prospective randomized placebo controlled pilot study
29. Effectiveness of the certificate course in Essentials of Palliative Care Programme on the knowledge in palliative care among the participants: A cross-sectional interventional study
30. Effects of physiotherapy on neck and shoulder movements and mouth opening in patients operated for oral cancer and their quality of life, A pilot study
31. Incidence and risk factors for post operative nausea vomiting in cancer surgeries: A prospective observational study
32. Intraoperative celiac plexus neurolysis for pain relief in unresectable pancreatic, gastric and gall bladder cancer
33. Palliative Care: Promoting Access and International Cancer Experience in India Collaborative (PC-PAICE India Collaborative)
34. Pattern of presentation of breast cancer related lymphedema and its impact on quality of life of breast cancer patients attending pain and palliative care clinic
35. Predicting difficult laryngoscopy in oral cancer patients by clinical and radiological parameters- a prospective, observational study
36. Prevalence and factors affecting anxiety and depression in cancer patients in palliative care setup at tertiary care center
37. Prevalence and factors associated with cancer related neuropathic pain in India: A cross sectional study
38. Prevalence and risk factors of cognitive dysfunction in advanced cancer patients admitted in Palliative Care Unit
39. Prevalence of breakthrough cancer pain and its impact on quality of life in cancer patients at regional cancer centre, India: A cross-sectional study
40. Prevalence of chemotherapy induced peripheral neuropathy in a palliative care setup and its impact on the quality of life of cancer patients
41. Prevalence of postoperative morbidity in patients undergoing elective major thoraco-abdominal oncosurgery and their correlation with anaesthetic technique

42. To compare clinical versus ultrasound assessment of correct placement of Proseal Laryngeal Mask Airway: A prospective randomized study
43. To determine the financial burden in palliative care patients attending a tertiary care centre: A prospective observational study
44. To evaluate the comparative efficacy and safety of Gabapentin, Duloxetine and Pregabalin in patients with Chemotherapy Induced Painful Neuropathy (CIPN): A randomized controlled pilot trial
45. To study and analyze the pattern of symptoms of patients presenting in palliative care ward at regional cancer center of India
46. Trans-cricoid block as an adjunct to General Anesthesia during cryo-Trans bronchial lung biopsy via rigid bronchoscopy: A prospective RCT
47. Validation of an Indian Palliative Care Spiritual Distress Scale
48. Validation of the Hindi version of the EORTC QLQ-C15-PAL questionnaire for the evaluation of quality of life of advanced cancer patients at tertiary care center, India
49. Validity and reliability of the Hindi version of the Patient Assessment of Constipation Quality of Life questionnaire in cancer patients on opioids for pain management at tertiary care center, India

Collaborative projects

1. A prospective randomized control trial comparing intracostal with pericostal thoracotomy closure to evaluate post thoracotomy pain syndromes (paint), Surgical Oncology
2. Prediction of infection in postoperative cases of gastrointestinal malignancy by analysis of thrombopoetin, Laboratory Oncology
3. Safety and efficacy of neoadjuvant chemotherapy in stage IIB and IIIA NSCLC: Single arm phase II study, Medical Oncology

Delhi Cancer Registry

Funded projects

Ongoing

1. Establishment of hospital based cancer registries and patterns of care and survival studies on cancer breast, Cancer Cervix and Head and Neck Cancers, S.V.S. Deo, National Cancer Registry Programme, National Centre for Disease Informatics and Research, Indian Council of Medical Research, Bengaluru, 3 years, 2014-2017, Rs 31 lakhs per annum (approx)
2. Patterns of Care and Survival Studies on childhood, lymphoid and hematopoietic malignancies, other gynaecological malignancies, S.V.S. Deo, National Cancer Registry Programme, National Centre for Disease Informatics and Research, Indian Council of Medical Research, Bengaluru, 3 years, 2017-2020, Rs 1 lakh per annum (approx.)
3. Population Based Survival Studies on Cancer Breast, Cervix and Head and Neck Cancers, S.V.S. Deo, National Cancer Registry Programme, National Centre for Disease Informatics and Research, Indian Council of Medical Research, Bengaluru, 5 years, 2017-2022, Rs 6.8 lakhs

Laboratory Oncology

Funded projects

Ongoing

1. Unit of Excellence on Cancer Research on Multiple Myeloma, Ritu Gupta, DBT, 5 years, 2016-2021, Rs 314 lakhs
2. Elucidation of pathologically relevant miRNAs responsible for disease progression and resistance to chemotherapy in CLL, Ritu Gupta, DBT, 3 years, 2015-2018, Rs 105 lakhs
3. Resistance to tyrosine kinase inhibitors in Indian patients with chronic myeloid leukemia—A mechanistic view, Ritu Gupta, ICMR, 3 years, 2015-2018, Rs 21.24 lakhs
4. Prevalence of intrachromosomal amplification of chromosome 21 (iAMP21) in B-ALL, Sanjeev Kumar Gupta, AIIMS, New Delhi, 2 years, 2016-2018, Rs 10 lakhs
5. Early immature T-lymphoblastic leukemia (ALL): Evaluation of early thymic precursor T-ALL immunophenotype, Absence of Biallelic Deletion of TCR γ chains (ABD) and expression of MEF2C as predictors of treatment response as assessed by minimal residual disease determination, Anita Chopra, DST, 3 years, 2015-2018, Rs 20.16 lakhs
6. Molecular determinants of prednisolone sensitivity in pediatric acute lymphoblastic leukemia, Anita Chopra, AIIMS, 2 years, 2016-2018, Rs 8 lakhs

7. Identification of novel driving tyrosine kinases in Indian pediatric Ph-like ALL, Anita Chopra, DHR, 3 years, 2017-2020, Rs 30 lakhs
8. Molecular biology of cytogenetically normal acute myeloid leukemia, Anita Chopra, DBT, 3 years, 2015-2018, Rs 55 lakhs
9. Comparative study of Genetic, Clinical and Epidemiological Factors of Breast Cancer in Indian Population as ICMR Task Force, Pranay Tanwar, ICMR Task Force, 1 year, 2017-2018, Rs 122 lakhs
10. A prospective study to evaluate WT1 gene expression as predictive molecular marker of disease progression in de novo cases of Acute Myeloid Leukemia, Pranay Tanwar, DST, 1 year, 2017-2018, Rs 52.5 lakhs
11. A prospective study to evaluate Wilm's tumor 1 (*WT1*) mutation in de novo cases of Acute myeloid Leukemia and correlating their outcome with treatment response, Pranay Tanwar, AIIMS, 2 years, 2016-2018, Rs 4 lakhs
12. Evaluation of Thrombopoietin as a marker of sepsis in post operative cases of gastrointestinal malignancy, Amar Ranjan, AIIMS, 1 year, 2016-till date, Rs 4 lakhs
13. Evaluation of HE4 level in epithelial ovarian cancer for diagnosis and monitoring of therapy, Amar Ranjan, ICMR, New Delhi, 3 years, 2017-2020, Rs 25 lakhs
14. Prognostic evaluation of thrombopoietin following surgery in gastrointestinal cancer patients, Anita Chopra, Oncology Forum, New Delhi, 1 year, 2018, Rs 1.5 lakhs

Completed

1. Interrogating the myeloma genome with reference to microRNAs modulated gene expression, Ritu Gupta, DBT, 3 years, 2014-2017, Rs 69.74 lakhs
2. Design and Development of Leukoanalyzer, an Automated Computer Assisted Tool, for Minimal Residual Disease Estimation (MRD) in B-Lineage Acute Lymphoblastic Leukemia (ALL) using Image Processing Techniques, Ritu Gupta, DEITY, 3 years, 2014- 2017, Rs 46.67 lakhs
3. Development of laboratory algorithm for molecular classification of Multiple Myeloma in Clinical Practice, Ritu Gupta, AIIMS, 2 years, 2016-2018, Rs 10 lakhs
4. IKZF1 (Ikaros) mutations in B cell acute lymphoblastic leukemia, Sanjeev Kumar Gupta, AIIMS, New Delhi, 2 years 3 months, 2013-2015, Rs 9 lakhs
5. Evaluation of expression of FGFR1, FGFR2, Cyclin D1 and PIK3CA *PIK3CA* mutations in of Hormone Receptor (Estrogen and Progesterone) positive and HER2 receptor negative cases of primary breast cancer, Pranay Tanwar, DST, 2.5 years, 2014-2017, Rs 20 lakhs

Departmental projects

Ongoing

1. To evaluate the safety and feasibility of hematopoietic stem cell micro transplantation in relapsed and refractory Acute Myeloid Leukemia (AML) patients who do not have a matched sibling donor
2. Clinicopathologic features and outcome of patients with Diffuse Large B-cell Lymphoma—An ambispective study
3. Minimal residual disease in Multiple Myeloma
4. Identification of novel circulating procoagulant microparticles in traumatic brain injury patients and their involvement in Pathophysiology of Early Trauma Induced Acute Coagulopathy

Collaborative projects

Ongoing

1. Study of molecular genetics in Multiple Myeloma, Medical Oncology
2. Minimal residual disease estimation in Multiple Myeloma using image processing: Design and development of myelomaimager—An automated computer assisted tool, IIIT, Delhi
3. ICiCLE B-lineage ALL project, Medical Oncology, AIIMS

Completed

1. Pre and post-transplant evaluation of natural killer cell subsets and natural killer T cells in Multiple myeloma, Medical Oncology

Medical Oncology

Funded projects

Ongoing

1. Risk of cancer in mobile phone users, Lalit Kumar, ICMR, 4 years, 2018-2022, Rs 11.74 lakhs

2. Weekly paclitaxel in combination with carboplatin every 3 weeks for advanced epithelial ovarian cancer, Lalit Kumar, DBT, 7 years, 2010-2017, Rs 17.95 lakhs
3. Study of molecular genetics in Multiple Myeloma, Lalit Kumar, DBT, 3 years, 2015- 2018, Rs 45 lakhs
4. Pre and post-transplant evaluation of natural killer T cells in multiple myeloma, Lalit Kumar, AIIMS, 1 year, 2017-2018, Rs 5 lakhs
5. Aspirin for Dukes C and High, Risk Dukes B Colorectal Cancers—An International, Multi-centre, Double Blind, Randomised Placebo Controlled Phase III Trial, Atul Sharma, Singapore Clinical Research Institute, Singapore, 5 years, 2013-2018, 500 USD per patient
6. Investigating the efficacy of microRNAs as molecular marker in pediatric acute myeloid leukemia, Sameer Bakhshi, DBT, 3 years, 2015-2018, Rs 26.85 lakhs
7. Improving Refusal, Non-Compliance, Abandonment and Outpatient Infection Treatment in Pediatric and Adolescent Cancers, Sameer Bakhshi, Lebara Foundation, 3 years, 2015-2018, Rs 93.33 lakhs
8. Establishing a nutritional counseling program and developing a nutritional database in pediatric patients with cancer, Sameer Bakhshi, Cuddle Foundation, 3 years, 2016-2019, Rs 13.37 lakhs
9. Role of mitochondrial complex encoding genes in Pediatric AML, Sameer Bakhshi, AIIMS, 2 years, 2016-2018, Rs 10 lakhs
10. National Multicentre Childhood Leukemia Programme, Sameer Bakhshi, ICMR, 2 years, 2017-2019, Rs 32 lakhs
11. Role of mitochondrial heterogeneity in the progression and prognosis of Acute Myeloid Leukemia (AML), Sameer Bakhshi, DST, 3 years, 2017-2020, Rs 50.7 lakhs
12. Indian childhood collaborative leukaemia group multicentre national standardisation study for newly diagnosed Acute Lymphoblastic Leukemia (ALL), Sameer Bakhshi, National Cancer Grid, 3 years, 2016-2019, Rs 35 lakhs
13. SADAL: A Phase 2b Open Label Study of Selinexor (KPT-330) in Patients with Relapsed/Refractory Diffuse Large B-Cell Lymphoma (DLBCL), Sameer Bakhshi, Excel Life Sciences, 5 years, 2018-2023, Rs 11 lakhs
14. A Phase 2, Open-Label Trial Evaluating the Efficacy and Safety of Two Dosages of Once Daily Oral CA-170 in Patients with Selected Relapsed Advanced Tumors (ASIAD), Sameer Bakhshi, Veeda Clinical Research Pvt. Ltd., 5 years, 2018-2023, Rs 3.8 lakhs per patient
15. A multi-center, randomized, double-blind, vehicle-controlled, phase-2 trial to evaluate the efficacy and safety of two concentrations of topical povidone-iodine nail solution (VBP-926) for the treatment of chemotherapy—Associated paronychia in cancer patients, Prabhat Singh Malik, 1 year, 2018-2019, Rs 5.5 lakhs
16. Prospective study of assessment of ckit mutation in advanced malignant melanoma, Sameer Rastogi, AIIMS, 2 years, 2016-2018, Rs 4.38 lakhs
17. Expression of Sirt1 in Osteosarcoma, Atul Batra, AIIMS, 1 year, 2017-2018, Rs 5 lakhs
18. Expression of NOTCH1,2,3, HES-1 and p21 in esophageal squamous cell carcinoma, Raja Pramanik, AIIMS, 1 year, 2017-2018, Rs 5 lakhs
19. To study the role of Estrogen-Related Receptor Gamma (ERR γ) as a potential biomarker in thyroid cancer, Thoudam Debraj Singh, AIIMS, 2 years, 2017-2019, Rs 4.10 lakhs
20. Validation of USP37 (Ubiquitin specific peptidase 37) as a prognostic and diagnostic marker in osteosarcoma, Mayank Singh, AIIMS, 2 years, 2017-2019, Rs 10 lakhs
21. Study of PKC (iota) signaling in Ovarian Serous Carcinoma, AIIMS, 2 years, 2017-2019, Rs 9 lakhs

Completed

1. A phase II / III, randomized, double-blind, placebo controlled study to investigate the efficacy of a probiotic VSL#3®, on Chemotherapy-induced diarrhea in cancer patients receiving Fluoropyrimidines and or Irinotecan, Atul Sharma, CD Pharma India, 7 years, 2010-2017, About Rs 18.00 lakhs
2. To study clinical and biological significance of mutations in mitochondrial DNA regulatory region in acute myeloid leukemia, Sameer Bakhshi, DBT, 4 years, 2013-2017, Rs 45.75 lakhs
3. Expression of Androgen receptor in Triple negative Breast cancer, AIIMS, Rs 3.25 lakhs
4. Role of RRM1, RRM2, hENT1 and ERCC1 expression in Advanced Carcinoma of Gall Bladder treated with Gemcitabine-Platinum Doublet, Nag Foundation, Pune, 2 years, 2016-2018, Rs 5 lakhs
5. A Prospective, Randomized, Multicenter Study to Compare the Safety, Tolerability and efficacy of Bevacizumab (Zudus Cadila) with Bevacizumab (Avastin) in Non Small Cell Lung Cancer, Prabhat Singh Malik, Cadila Health Care Ltd, 2.6 years, 2015-2018, Rs 13.64 lakhs
6. Validation of Thymidylate Synthetase and Folate Receptor alpha expression as predictive biomarkers for efficacy of Pemetrexed based chemotherapy in advanced non squamous NSCLC, Prabhat Singh Malik, AIIMS, 2 years, 2016-2018, Rs 9 lakhs

7. Identification of a dysregulated circulating miRNA signature in non-small cell lung cancer, Science and Engineering Research Board (SERB-DST), 3 years, 2014-2017, Rs 23 lakhs
8. Investigating the efficacy of microRNAs as molecular marker in cytogenetically normal pediatric acute myeloid leukemia, DBT, 3 years, 2015-2018, Rs 65.51 lakhs
9. Elucidating the mechanism of regulation of PD-L1 expression in lung cancer—Role of epigenetics and copy number alterations, AIIMS, 2 years, 2017-2019, Rs 10 lakhs
10. Studies of the therapeutic potential of endothelial cells and angiogenic properties in hepatocellular carcinoma, Sampa Ghose, DST, 3 years, 2016-2019, Rs 30.26 lakhs
11. The clinical significance of HOTAIR and HOTAIRM1 long non-coding RNAs in pediatric acute myeloid leukemia, Surender K. Sharawat, Rs 4 lakhs, AIIMS

Departmental projects

1. 15 years outcome analysis of metastatic colo-rectal cancer—Retrospective study
2. A phase III open label randomized study to compare the efficacy of Lenalidomide—Rituximab vs Bendamustine—Rituximab in treatment naïve follicular lymphoma
3. A prospective study to evaluate Wilm's tumor 1 (*WT1*) mutation in denovo cases of Acute myeloid Leukemia and correlating their outcome with treatment response
4. A prospective, Interventional study assessing response to Cytarabine, Daunorubicin and Etoposide (ADE) for first relapse of Paediatric Acute Myeloid Leukemia
5. A study to determine the association of trace elements and heavy metals with lung cancer and their correlation with smoking
6. ADE as salvage chemotherapy for pediatric AML patients at first relapse
7. An ambispective cohort study of clinico-pathological characteristics in the patients of locally advanced breast cancer
8. An ambispective cohort study of clinic-pathological characteristics in the patients of metastatic breast cancer
9. AOT trial: Olanzapine for the prevention of CINV in children and adolescent receiving highly emetic chemotherapy
10. Assesment of brain metastasis (incidence, clinicopathological, molecular correlation and outcome) in Non Small Cell Lung Cancer (NSCLC) patients: A single arm prospective observational study
11. Bortezomib, lenalidomide and dexamethasone based consolidation therapy after Autologous Hematopoietic Stem Cell Transplantation in multiple myeloma: A single arm prospective study
12. Bortezomib, lenalidomide and dexamethasone versus bortezomib, cyclophosphamide and dexamethasone as induction therapy in untreated multiple myeloma: A phase III randomized study
13. Clinico-pathologic variations and treatment outcome of pediatric Non-Hodgkin's Lymphoma patients treated at IRCH, AIIMS
14. Clinicopathological features and outcome of DLBCL patients treated in a tertiary health care setting—An ambispective study
15. Clinicopathological features and outcome of patients with nasopharyngeal carcinoma—A retrospective study from a tertiary care centre
16. Early immature T-lymphoblastic leukemia (ALL): Evaluation of early thymic precursor T-ALL immunophenotype, Absence of Biallelic Deletion of TCR γ chains (ABD) and expression of MEF2C as predictors of treatment response as assessed by minimal residual disease determination
17. Early stoppage versus continuation of antimicrobial therapy in low risk pediatric cancer patients with febrile neutropenia, before recovery of counts: A randomized controlled study-DALFEN study
18. Epidemiology, clinicopathological, molecular correlation and outcome in NSCLC with brain metastasis
19. Evaluation of absolute lymphocyte count as surrogate marker for minimal residual disease in B precursor ALL
20. Evaluation of expression of FGFR1, FGFR2, Cyclin D1 and PIK3CA and PIK3CA mutations in hormone receptor(estrogen and progesterone) positive and HER2 receptor negative cases of primary breast cancer
21. Evaluation of pathologically relevant miRNAs responsible for disease progression in CLL
22. Gene expression profile and its correlation with mitochondrial energy metabolism in pediatric AML
23. Impact of serum galactomannan assay on diagnosis and outcome of invasive fungal infections in high risk febrile neutropenia
24. Minimal Residual Disease in Multiple Myeloma
25. Olanzapine for prevention of nausea and vomiting in children and adolescents receiving Highly Emetogenic Chemotherapy (HEC): An investigator initiated, randomized, open-label trial

26. Open label randomized control trial to compare efficacy and safety of Pemetrexed—Carboplatin versus Paclitaxel—Carboplatin as induction regimen in advanced Non Squamous Non Small Cell Lung Cancer
27. Pazopanib based oral metronomic therapy in Platinum relapsed, Platinum Refractory and Advanced ovarian cancer: A randomized phase 2 study
28. Phase II/III RCT comparing erlotinib + BSC vs BSC alone in unresectable/metastatic Ca GB patients with ECOG PS 0-3
29. Prognostic relevance of DNA methylation profiling in CLL
30. Retrospective analysis of male testicular germ cell tumor treated between January 2016 to December 2016 and health related quality of life analysis of survivors
31. Role of Bone Marrow Microenvironment in Multiple Myeloma
32. Role of PARP1 and γ -Glutamyl Systeine Synthetase (GCS) Inhibitors on cisplatin sensitivity and DNA Methylation in ovarian cancer
33. Safety and feasibility of microtransplantation in relapsed in relapsed/refractory AML patients who do not have a matched sibling donor
34. Study of efficacy and safety of neoadjuvant chemotherapy in patients with stage 2B and 3 NSCLC: A pilot study “A Phase III Open label Randomized control study to compare efficacy and safety of Pemetrexed-Carboplatin versus Paclitaxel-Carboplatin as induction regimen in advanced Non-squamous Non-Small-Cell lung cancer”
35. Study of PKC- ι signaling in ovarian serous carcinoma
36. Study to evaluate the emetic effect of aprepitant as an add on therapy in children and adolescents receiving AML remission induction chemotherapy: An investigator initiated randomized open label trail
37. The role of the PARP – 1 and B-Catenin in cisplatin resistance in cervical cancer
38. To evaluate role of CMYC, BCL2, BCL6 and EBV on survival in patients with relapsed and refractory DLBCL
39. To evaluate the association between IHC expression of cell cycle regulatory molecule and epigenetic regulator in primary DLBCL
40. To study clinical and biological significance of mutations in mitochondrial DNA regulatory region in acute myeloid leukemia
41. To study the effect of Baseline Serum Zinc level on overall survival in paediatric AML patients
42. To study the WNT signaling molecules and their correlation with common mutation (FLT3, CEBPa) in Acute myeloid leukemia

Medical Physics

Funded projects

Ongoing

1. Development of tissue equivalent optically stimulated luminescent materials for radiation dosimetric applications in low and high doses of medical radiation, Pratik Kumar, Department of Health Research, 3 years, 2017-2020, Rs 15.53 lakhs

Departmental projects

Ongoing

1. Development of protocol for quality assurance of medical image laser printer
2. Development of new luminescence material for dosimetry purpose
3. Calibration and use of optically stimulated luminescence dosimeter
4. Development of protocol for quality assurance of fluoroscopy
5. Development of protocol for quality assurance of lead apron and thyroid collar
6. Development of radiochromic film dosimeter

Radiodiagnosis

Funded projects

Ongoing

1. Metallic tumour marker clip for breast cancer: Design, development and clinical implications, Sanjay Thulkar, SERB-DST, 3 years, 2014-2017, Rs 23.27 lakhs
2. Comparative evaluation of Nasoenteric feeding and Percutaneous Radiologic Gastrostomy for enteric support in patients with moderate and severe dysphagia due to neoplasms of oropharynx or esophagus: A Pilot Randomized controlled trial, Mukesh Kumar, AIIMS, 1 year, 2018-2019, Rs 5 lakhs

Collaborative projects

Ongoing

1. Development of tissue equivalent optically stimulated luminescent materials for measurement of low doses of medical radiation, Department of Health Physics, Inter University Accelerator Centre, New Delhi
2. Predicting difficult laryngoscopy in oral cancer patients by clinical and radiological parameters—A prospective observational study, Onco-anesthesia and palliative medicine
3. Multimodality Imaging Evaluation of Chronic mass forming mastitis and role of ultrasound guided vacuum assisted biopsy in determining its etiology, Radiodiagnosis
4. Role of MRI in assessing residual mass after neoadjuvant chemotherapy in breast cancer, Radiodiagnosis
5. A pilot study to compare Interstitial Multicatheter Brachytherapy (IMB) versus Volumetric modulated ARC therapy for APBI in early breast cancer: An adaptation, toxicity and cosmesis comparison, Radiation Oncology
6. Assessment of early treatment response and dosimetric evaluation in locally advanced cervical cancer treated with 3D conformal radiation therapy along with concurrent cisplatin and image guided high dose rate brachytherapy, Radiation Oncology
7. Prospective study of assessment of breast anthropometry and tumor vs breast ratio calculation using clinical and radiological methods in Indian breast cancer patients, Surgical Oncology
8. Prospective Study to evaluate the accuracy of axillary staging using ultrasound guided FNAC in early breast cancer patients, Surgical Oncology
9. Evaluation of Peritoneal Cancer Index (PCI) in primary advanced ovarian epithelial carcinoma amongst Indian population, Surgical Oncology
10. Correlation of Barrel Index determined by MRI in early cervical cancer with operability, lymph node status and local extension of the disease, Obstetrics and Gynaecology
11. Role of MR guided biopsy in detecting prostate cancer, Nuclear Magnetic Resonance
12. A phase III Open label randomized control study to compare efficacy and safety of pemetrexed-carboplatin versus paclitaxel-carboplatin as induction regimen in advanced non-squamous non-small-cell lung cancer, Medical Oncology
13. Prospective assessment of Radiation Induced Lung Injury (RILI) in breast cancer patients undergoing adjuvant post-operative Three Dimensional Conformal Radiotherapy (3DCRT), Radiation Oncology
14. Comparison of CT vs PET CT in Ca ovary for accuracy of staging, disease burden and prediction of resectability and determination of PCI, A prospective study, Surgical Oncology
15. A pilot study to assess the efficacy and safety of intralesional radio frequency ablation in treatment of subcutaneous lipomas, Dermatology
16. A Prospective study to determine the efficacy of Positron Emission Tomography/ Computed Tomography (PET/CT) in detecting residual disease in Locally Advanced Head & Neck Squamous Cell Carcinoma managed with primary Chemo-Radiation Therapy, Nuclear Medicine
17. Three arm phase II/III RCT comparing erlotinib plus Best Supportive Care (BSC), capecitabim plus BSC and BSC only in unresectable/metastatic CAGB patients with poor performance status (ECOG PS-III), Medical Oncology

Completed

1. A randomized controlled study comparing efficacy, quality of life and cost effectiveness following ultrasound guided foam sclerotherapy in comparison to conventional surgery in varicose veins of lower limbs, Surgical Disciplines

Radiation Oncology

Funded projects

Ongoing

1. Mycidac C in lung cancer, Subhash Gupta, Cadila, 3 years, 2017-2020
2. A study of Palbociclib in combination with Letrozole as treatment of postmenopausal women with hormone receptor positive, Her 2 new negative advanced breast cancer for whom Letrozole therapy is deemed appropriate, Haresh K.P, Pfizer India, 3 years, 2017-2020, Rs 10 lakhs
3. Prospective assessment of Radiation Induced Lung Injury (RILI) in Breast cancer patients undergoing adjuvant post-operative Three Dimensional Conformal Radiotherapy (3DCRT), Ritesh Kumar, AIIMS, 2 years, 2017-2019, Rs 4 lakhs

Departmental projects

Ongoing

1. Hypofractionated radiotherapy with concurrent chemotherapy vs. Conventional concurrent chemo-radiotherapy in locally advanced non-small-cell carcinoma of lung—Randomised controlled trial MRI guided ICRT for cervical carcinoma
2. To study and compare acute toxicity and quality of life in hypofractionation versus conventional fractionation radiotherapy after breast conservation surgery in early breast cancer
3. Evaluation of patient specific pretreatment verification methods for Intensity Modulated Radiotherapy Techniques
4. A Study of Dosimetric Effect of ITV (Internal Target Volume) In External Beam Radiotherapy
5. A study evaluating the patient positioning accuracy using Electronic Portal Imaging Device (EPID) and Cone Beam Computed Tomography (CBCT) for Image Guided Radiotherapy (IGRT) in the treatment of cancers.
6. A pilot study to compare interstitial multi catheter brachytherapy versus volumetric modulated arc therapy for accelerated partial breast irradiation in early breast cancer: An adaptation, toxicity and cosmeses comparison
7. Acute pulmonary toxicity and quality of life assessment in post-menopausal hormone receptor positive carcinoma breast patients treated with concurrent versus sequential letrozole with hypofractionated radiotherapy
8. International Evaluation of Radiotherapy Technology Effectiveness in Cervical Cancer (INTERTECC) phase II/ III clinical trial of Intensity Modulated Radiation Therapy (IMRT) with concurrent Cisplatin for stage I-IV, A cervical carcinoma.
9. A randomized multicenter trial of accelerated hypoversus normo-fractionated radiotherapy for head and neck squamous cell carcinoma
10. Assessment of early treatment response and dosimetric evaluation in locally advanced cervical cancer treated with 3D conformal radiation therapy along with concurrent cisplatin and image guided high dose rate brachytherapy
11. A phase II study to assess the feasibility of involved site radiotherapy for consolidation after chemo-immunotherapy in newly diagnosed patients of stage I-II nodal diffuse large B-cell lymphoma

Collaborative projects

Ongoing

1. Study of efficacy and safety of neo adjuvant chemotherapy in patients with Stage 2 B and 3 NSCLC: A pilot study
2. Expression and significance of notch signaling-associated proteins, Notch 1, Notch 2, Notch 3, Hes 1 and p21 in oesophageal squamous cell carcinoma: A retrospective study
3. Comparative evaluation of Vasoenteric feeding and Percutaneous Radiologic Gastrostomy for enteric support in patients with moderate and severe dysphagia due to neoplasms of oropharynx or esophagus: A pilot study
4. MRI vs CT based Intracavitary Brachytherapy in Cervical cancer, A randomized clinical study
5. Adjuvant Chemotherapy or Chemoradiation in Gall Bladder Cancer: Phase III Randomized Controlled study (ACCeleRate)
6. A Phase III Open labeled Randomized control study to compare efficacy and safety of Pemetrexed- Carboplatin versus Paclitaxel-Carboplatin as induction regimen in advanced Non squamous Non Small Cell Lung Cancer.
7. MGMT promoter methylation in primary CNS lymphoma, Medical Oncology, Pathology and Radiation Oncology
8. Radiolabelling of trastuzumab with Lutetium-177: Its evaluation as a potential agent for radioimmunotherapy in breast cancer, Nuclear Medicine and Radiation Oncology
9. Evaluation of patient specific pretreatment verification methods for Intensity Modulated Radiotherapy Techniques
10. Analysis of a prospective computerized clinical database of rectal cancer patients presenting to IRCH AIIMS
11. Open label randomized control trial to compare efficacy and safety of Pemetrexed plus Carboplatin followed by maintenance Pemetrexed versus Paclitaxel plus Carboplatin followed by maintenance pemetrexed in patients with stage IIIB or IV Non-squamous Non-Small-Cell lung cancer
12. Efficacy of Neoadjuvant chemotherapy in carcinoma esophagus- A pilot study comparing Cisplatin+5-FU with Paclitaxel+ Carboplatin-Fifteen years outcome of metastatic colorectal cancer from an Indian tertiary cancer centre: A retrospective study
13. Assessment of brain metastasis (incidence, clinicopathological, molecular correlation and outcome) in Non Small Cell Lung Cancer (NSCLC) patients: A Single arm prospective observational study,

Completed

1. Role of Multi-parametric MRI in Evaluation of Locally Advanced Rectal Cancer
2. Analysis of a Prospective Computerized Surgical database of Hepatopancreaticobiliary (HPB) Malignancies presenting to IRCH AIIMS

Surgical Oncology

Funded projects

Ongoing

1. HBCR and Pattern of care and survival studies in breast, head and neck and cervical cancer. SVS Deo, ICMR, 4 years, 2014-2018, Rs 35 lakhs per year
2. Diversity of Oral microbiome of smokeless tobacco induced oral cancer patients as compared to tobacco chewers and non tobacco chewer healthy individuals—A metagenomic approach, DST-SERB, 3 years, 2015-2018, Rs 50 lakhs
3. Patterns of care and survival studies on cancer in childhood, lymphoid and hematopoietic malignancies, other gynaecological malignancies, SVS Deo, ICMR, 4 years, 2017-2021, Rs 5 lakhs
4. Immuno-phenotypic profile of tumour infiltrating cells of the immune system and expression of PDL1 in triple negative/Her-2 neu positive breast cancer patients and their correlation with response to neoadjuvant chemotherapy. SVS Deo, DST, 3 years, 2017-2020, Rs 28.74 lakhs
5. Comparative Sphingolipid profiling of breast cancer cell and tissue types for identification of Potential Metastatic Biomarkers, SVS Deo, DST, 2 years, 2016-2018, Rs 47.15 lakhs
6. Population based cancer survival study on cancer of the breast cervix Head and Neck, ICMR, 5 years, 2017-2022, Rs 6.8 lakhs
7. Evaluation of Diffusion Weighted Magnetic Resonance Imaging for assessment of response to Neo Adjuvant Chemotherapy in advanced Squamous cell carcinoma of oral cavity, Sunil Kumar, AIIMS, 2 years, 2016-2017, Rs 1 lakh
8. Development of Standard Operating Procedures (SOP) of Hyperthermic Intraperitoneal Chemotherapy (HIPEC) in peritoneal surface malignancies for Government set up in India, MD Ray, DST, 3 years, 2018-2021, Rs 48.52 lakhs

Completed

1. A prospective randomized trial comparing Peri costal vs Intercostal stich for thoracotomy closure, Sunil Kumar, AIIMS, 2 years, 2016-2018
2. Role of Fibrin sealant in Ilio Inguinal Block Dissection to reduce the rate of lymphatic drainage and thereby seroma formation, MD Ray, AIIMS, 2 years, 2015-2017, Rs 0.6 lakh
3. River Flow Incision Technique (Two Parallel Incision) for Ilio-Inguinal Dissection to minimize Flap Necrosis, MD Ray, AIIMS, 3 years, 2015-2018

Departmental projects

Ongoing

1. Efficacy of Neoadjuvant chemotherapy in carcinoma esophagus- A pilot study comparing Cisplatin+5-FU with Paclitaxel+Carboplatin
2. Clinical significance of cell-free DNA in intraoperative pleural lavage fluid and plasma in patients with Non small cell Lung cancer: A pilot study
3. Role of T-Regulatory cells (Tregs) and their clinical correlation in epithelial ovarian cancer.
4. Evaluation of Peritoneal Cancer Index (PCI) in primary advanced ovarian epithelial carcinoma amongst Indian population
5. A prospective observational study comparing CT scan vs PET CT scan in carcinoma ovary for determining the pre-operative disease burden and resectability
6. Efficacy of Neoadjuvant chemotherapy protocol in locally advanced, carcinoma oral cavity—A randomized, pilot study comparing Cisplatin+5-FU with Paclitaxel+Carboplatin
7. A prospective study of assessment of breast anthropometry and tumor vs Breast ration calculation using clinical and radiological methods in Indian Breast Cancer Patients
8. A study of young colo-rectal cancer patients—Clinical profile, treatment and relapse patterns, learning basic laboratory techniques of molecular biology for miRNA extraction in colon cancer patients
9. Clinical Utility of cell-free DNA in intraoperative pleural lavage fluid and plasma for patients with resectable primary pulmonary malignancies—A pilot study

10. Awareness and Knowledge of Indian Breast Cancer patients pertaining to genetic aspect of Breast cancer
11. Prospective study to evaluate the accuracy of axillary staging using Ultrasound guided FNAC in early breast cancer

Completed

1. A prospective study to validate the role of PET CT and EBUS in the staging of resectable Non Small Cell Lung Cancer
2. Assessment and management of peri-operative morbidity in Complete cyto reduction and HIPEC (Hyper Thermic Intra Peritoneal Chemotherapy)
3. Clinical profile, treatment patterns, outcome and molecular profiling of differentiated thyroid cancer
4. Postoperative complications after CRS and HIPEC and their management
5. Standardizing Surgico-Pathological evaluation of oral squamous cell carcinomas specimens—A prospective study

Collaborative projects

Ongoing

1. A comprehensive analysis of mammalian Target of Rapamycin (mTOR) and Mitogen Activated Protein (MAP) Kinase signaling pathways in non-small cell lung carcinoma, Pathology
2. Differentiating inflammatory and metastatic mediastinal lymphadenopathy on 18-FDG- PET/CT in lung cancer: Role of steroid suppression, Nuclear Medicine
3. Evaluation of HE4 level in epithelial ovarian cancer for diagnosis and monitoring of therapy, Lab Oncology
4. An economic analysis of alternative treatment methods of ovarian cancer in India: An appraisal of economic burden, quality of life and mortality risk, Obstetrics and Gynaecology
5. Evaluation of Human Epididymis Protein 4 (HE4) level in the diagnosis of ovarian cancer, Lab Oncology
6. Bio-Statistical Models for Evaluation of Lymph Node involvement among oral cancer patients, Biostatistics
7. Role of Real Time Ultrasonography fused with PET-CT for image guidance and intervention: A nodal approach in management of Thyroid cancer, Nuclear Medicine
8. Evaluation of the effect of Prothodontic Rehabilitation on quality of Life and Psychological distress in Maxillectomy patients—A preliminary study, Centre for Dental Education and Research
9. To evaluate whether a predictive microRNA signature from TCGA acts as a biomarker in Indian Colorectal Cancer (CRC) patients, Surgical Oncology, Pathology and National Institute of Immunology, New Delhi
10. Dosimetric study in children and young adults with differentiated Thyroid cancer undergoing radioiodine (¹³¹I-Na) therapy, Nuclear Medicine
11. Isolation identification and characterization of cancer stem cells from different histopathological grades of colorectal carcinoma, Biochemistry

Completed

1. A study to assess the level of fatigue and presence of functional deficit in adult patients undergoing upfront surgery for solid tumors in pre and post surgical phase in AIIMS, College of Nursing
2. Role of Multiparametric MRI in Evaluation of Locally Advanced Rectal Cancer, Radiology

PUBLICATIONS

Onco-Anesthesia and Palliative Medicine

Journals: 22 Chapters in Books: 15 Book: 1

Delhi Cancer Registry

Journals: 4 Book: 1

Laboratory Oncology

Journals: 8 Abstracts: 3

Medical Oncology

Journals: 33 Abstracts: 24

Medical Physics

Journals: 2

Radiodiagnosis**Journals: 5 Abstracts: 4 Chapters in Books: 4****Radiation Oncology****Journals: 34 Abstracts: 6 Chapters in Books: 3****Surgical Oncology****Journals: 11 Abstracts: 10 Chapters in Books: 4 Book: 1****PATIENT CARE****Community services/camps****Dr Sushmita Pathy:** Public lecture on Childhood Cancer Day, February 2018**Dr Subhash Gupta:** Associated with the cancer screening activities of ICPO, Noida; Actively involved in medical camps organized by Ashoka mission to attend cancer patients**Dr K.P Haresh:** Associated with the cancer screening activities of ICPO, Noida; Actively involved in medical camps organized by Ashoka mission to attend cancer patients

Total Bed Strength	182		
Medical Oncology	78	Radiation Oncology	37
Surgical Oncology	61	Palliative Care Unit	6

Total OPD Attendance	1,71,778	
New Patient's Registered =	13,261	Revisits = 1,58,517

Admissions

Regular	10,133	Short/Day Care	32,554
Total		42687	

Discharges

Regular	9808	Short/Day Care	32,206
Total		42,014	

Deaths: 320

Operation theatres

Major	1547	Minor	8782
Total		10329	

OPD procedures (Treatment Room No. 15): 6509 Electrocardiogram: 4261

OPD Chemotherapy Services (Treatment Room No. 15)

Male adult	5395	Female adult	2358
Male child	6433	Female child	2171
Total Cases		16,357	

OPD Attendance

Month	New Patients Registered			Revisits		
	Male	Female	Total	Male	Female	Total
April 2017	583	458	1041	5896	6179	12,075
May 2017	644	501	1145	6772	6903	13,675
June 2017	590	469	1059	6115	6025	12,140
July 2017	654	555	1209	6954	7074	14,028

Month	New Patients Registered			Revisits		
	Male	Female	Total	Male	Female	Total
August 2017	679	552	1231	7368	6544	13,912
September 2017	614	553	1167	6944	6103	13,047
October 2017	560	529	1089	6479	5594	12,073
November 2017	597	506	1103	6987	7773	14,760
December 2017	523	466	989	6664	6865	13,529
January 2018	562	486	1048	6441	6717	13,158
February 2018	583	480	1063	6226	6621	12,847
March 2018	641	476	1117	6499	6774	13,273
Total	7230	6031	13,261	79,345	79,172	1,58,517

Geographical Distribution

State	Total	State	Total
Andhra Pradesh	2	Andaman Nicobar	3
Assam	37	Arunachal Pradesh	9
Bihar	1914	Chandigarh	5
Chhattisgarh	23	Dadra and Nagar Haveli	1
Daman and Diu	1	Delhi	4100
Gujarat	3	Haryana	1389
Himachal Pradesh	44	Jammu and Kashmir	119
Jharkhand	142	Kerala	19
Karnataka	4	Lakshadweep	1
Madhya Pradesh	248	Maharashtra	17
Meghalaya	4	Manipur	34
Mizoram	3	Nagaland	5
Orissa	52	Pondicherry	3
Punjab	59	Rajasthan	290
Sikkim	35	Tamilnadu	3
Telangana	4	Tripura	7
Uttar Pradesh	4125	Uttarakhand	385
West Bengal	115		
TOTAL	13,205		

Other Countries

Afghanistan	5	Bangladesh	3
Kenya	1	Maldives	1
Mangolia	1	Nepal	43
Tazakhstan	1	Turkmenistan	1
TOTAL	56		

Grand Total = 13,205 + 56 = 13,261

Laboratory Oncology Services

Haemogram: Hb, TLC, Platelets	52,948	CSF	768
Peripheral Blood Smear	7223	ESR	531
Bone Marrow Aspiration	4470	Molecular Biology	3400
Cyto-Chemistry	830	Serum Freelight Chain	3147

Serum Protein Electrophoresis	4021	Cytopathology	55
Immunofixation	2563	Beta 2 Microglobulin	289
Urine Electrophoresis	1578	Cytology	513
Tumor Marker	3149	HPB DNA	1546
Flowcytometry	24,800		
Total	1,11,831		

Apheresis

Single Donor Platelets	2484	Plasma	3
Peripheral Blood Stem Cell Harvest	206	No. of Granulocytes	65
Hemogram	23,824	Plasma Exchange	3
Total	26,460		

Medical Oncology

- Patients treated as in-patient: 9194
- Patients treated in daycare: 29,801
- Medical procedures: 5972
- Hematopoietic stem cell transplantation (Autologous, Allogenic): 105 (86+19)
- Outpatient chemotherapy: 14,574
- Outpatient IV antibiotics: 25,303

Laboratory Services

1.	Cytogenetics for detection of Philadelphia Chromosome	372
2.	Cytogenetics for chimerism	1
3.	RT-PCR for detection of P210 and P190 translocation in CML (Qualitative)	430
5.	CD 34 counts by flow cytometry	309
6.	CD 3 counts by flow cytometry	22
8.	MNC counts	73
9.	Cryopreservation of stem cells at -80 °C	107
10.	Storage of stem cells at 4 °C	91
11.	Bone marrow transplant	1
12.	Infusion of stem cells	149
13.	Viability of stem cell	143
14.	ELISA for aspergillosis detection	1862
	Total	3560

Medical Physics Services

1.	No. of blood bags irradiated	1340
2.	Quality Assurance test done on X-Ray machines	1877
3.	Quality Assurance test done on film processor at Dr BRAIRCH, AIIMS	9
4.	Quality Assurance test on film processor at Radiology (Main)	108
5.	Radiation output measurements in X-Ray units	394
6.	Quality Assurance test done on film processor at AIIMS	108
7.	Radiation protection survey measurements	5
8.	Advise in inadvertent exposure to pregnancy	9
9.	Q.C. test fluoroscopy done at AIIMS	-
10.	Q.A. test done on Lead apron	123
	Total	3973

Radiotherapy Services

1.	Cases on Radiotherapy	62,582
2.	Cases on Brachytherapy	789
3.	Treatment Planning and Simulations	3748
4.	Two and Three Dimensional Dose Distributions	592
5.	Compensators	455
6.	Shielding Blocks Immobilization Devices and Orifits	2232
7.	Radiation Review Clinic	1785
8.	Planning C.T.	1705
9.	Number on chemotherapy	7257
	Total	73,888

Radiodiagnosis

1.	CT Scan	7787
2.	Ultrasound	6955
3.	Mammography	1774
4.	X-Rays (Routine)	20,370
5.	Doppler	309
6.	Intervention	1633
7.	Special Investigation (Ba, I)	403
8.	Intervention MA	8
	Total	39239

Onco-Anaesthesia and Palliative Medicine

1. Upgraded Unit of Anesthesia to Department of Onco-Anesthesia and Palliative Medicine
2. Started 'Pain Policy' at IRCH, AIIMS, The aim of the policy is; IRCH is committed to treat pain of all registered patients
3. Started two new course at AIIMS; MD, Palliative Medicine and DM, Onco-Anesthesia at Department of Onco-Anesthesia and Palliative Medicine
4. Started Six bedded Pain and Palliative care ward. Structured Pain and Palliative care Program for whole of the hospital
5. Started Pain and Palliative care clinics all six days in a week at IRCH, AIIMS
6. Planning and commissioning of manifold system at IRCH, AIIMS
7. Advance Interventional Pain Management techniques like PNFS (Peripheral Nerve Field Stimulator) and Programmable Intrathecal Implant
8. USG guided nerve blocks in supine position for Gastro intestinal and Gynecological Malignancy
9. Ultrasound guided line central venous line placements
10. Radiofrequency ablation for Cancer Pain Patients
11. Scrambler Therapy in Cancer Pain Patients
12. Indian Association of Palliative Care's Certificate Course in Palliative Care Unit of Anesthesiology, Dr BRA, IRCH is Nodal Center for conducting Indian Association of Palliative Care's Certificate Course in Palliative Care twice in a year
13. Research on psychosocial and spiritual aspect of pain in Cancer patients
14. International collaborative research started in area of Pain and Palliative Care
15. Started Cardio Pulmonary Exercise Testing (CPET) for assessment of patients scheduled for major oncological surgery

Surgical Oncology

Total no. of Minor Operations and Endoscopic procedures performed: 8782

Total no. of Major Cancer Operations performed: 1547

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Onco-Anesthesia and Palliative Medicine

Professor Sushma Bhatnagar is 'Council member' International Association of Study of Pain (IASP) Council till 2023; Member, Scientific Committee of World Congress on Pain to be held at Boston, 12-16 September 2018; Member of Implementation Group—Lancet Commission Global Access to Pain Control and Palliative Care, 2018; Recipient of 2018 International Innovation Grant from Conquer Cancer Foundation by American Society of Clinical Oncology; Chief Editor, Indian Journal of Palliative Care since 2009; Board of Directors of International Association of Hospice and Palliative Care (IAHPC), 2014-2017; Deputy Team Leader of Training-of-Trainers in Palliative Care Programme by Asia Pacific Hospice Palliative Care Network, 2012-2018; 'Master mentor' of Palliative care program in India; reviewer of articles for Lancet Oncology and British Journal of Anaesthesia; Faculty, Lung Cancer Consortium Asia Annual Meeting, 15-17 December 2017, Mumbai; Faculty, 5th Training of Trainers in Palliative Care Programme (APHN), 15-21 September 2017, Dhaka, Bangladesh; Faculty, Project aimed at building up palliative care capacity at cancer treatment centre in India (APHN), 29 August-1 September 2017, Patna; Faculty, 6th ECAP Conference, 19-20 August 2017, Mumbai; Faculty, International Conference on recent advances in pain, 11-12 August 2017, Pune; Faculty, 12th Asia Pacific Hospice Conference (APHN), 26-29 July 2017, Singapore; Member, IASP Meeting, International Association for the Study of Pain Meeting (IASP), 25-27 February 2018, Lisbon, Portugal; Chairperson, 22nd International Conference on Frontiers in Yoga Research and Its Application (INCOFYRA) at Vivekananda Yoga Anusandhana Sanstha (VYASA) (IAPC), 5-8 January 2018, Bengaluru.

Professor Seema Mishra was Chairperson, Palliative and supportive care in cancer patients, Updates in Management of Breast Cancer, 6-7 May 2017, IRCH AIIMS, New Delhi; Chairperson, Intractable Symptom Management, IAPCON 2018, 23-25 February 2018, IRCH, AIIMS, New Delhi.

Dr Rakesh Garg received letter of Appreciation as Reviewer for British Medical Journal Open 2017; Certificate of Recognition as a Reviewer for 2017 from Editorial Board of Journal of Neuroanaesthesiology and Critical Care; Letter of Appreciation and Certificate of Merit for Associate Editor in 2017 in Indian Journal of Anaesthesia; awarded First Prize In Poster Competition in the Bio-medical Waste Management category Organized by Dr BRAIRCH in January 2018 as a part of clean and Green AIIMS Initiative and also First Prize In Poster Competition in the Infection Control category Organized by Dr BRAIRCH in January 2018 as a part of clean and Green AIIMS Initiative; selected for Singapore Medical Journal Reviewer Recognition Awards 2017; President's Appreciation Award 2017 for service rendered to ISA in making ISA CPR guidelines a reality, ISACON 2017 Kolkata on 25 November 2017; Conferred Fellowship by the Indian College of Anaesthesiologists (FICA, Fellows of the College) on 27 October 2017 and nominated as Academic spokespersons of ICA; Goodwill Ambassadors of ICA by Indian College of Anesthesiologists; awarded Fellowship of International Medical Sciences Academy (FIMSA); Associate Member, Council for International Organizations of Medical Sciences (CIOMS), Geneva; Memorandum of Understanding partners: International Medical Sciences Academy and Royal College Of Physicians and Surgeons, Glasgow, UK; Associate Editor, Indian Journal of Anaesthesia, Journal of Anesthesiology and Clinical Pharmacology, Journal of Medical Case Reports and Central Journal of ISA.

Dr Vinod Kumar was Chairperson, Perioperative Management for Head and Neck Oncological Surgery, ISACON 2017, 24-26 November 2017, Kolkata, India; Chairperson, Diagnosis and Management in Paediatric Palliative Care, Paediatric Palliative Care Conference, 5-6 November 2017, AIIMS, New Delhi.

Dr Sachidanand Jee Bharti was Coordinator for USG guided workshop for Palliative Care Procedures, IPACON 2018, 23-25 February 2018, AIIMS, New Delhi.

Laboratory Oncology

Dr Ritu Gupta received AIIMS Research Excellence Award 2017.

Dr Sanjeev Kumar Gupta received AIIMS Excellence Research Award 2017, Third Prize for outstanding publication (Clinical Research) titled, "Gene copy number alteration profile and its clinical correlation in B-ALL, at AIIMS, New Delhi on 25 September 2017; Received PODC Scholarship award by International Society of the Paediatric Oncology (SIOP) to present research paper at the 49th Congress of the SIOP 2017 at Washington DC, USA, 12-15 October 2017.

Dr Anita Chopra received DBT-Wellcome trust India alliance intermediate career fellowship for clinicians, 2017.

Dr Pranay Tanwar received ICMR Travel Grant to Present paper at Global Academic Program, 2017 at Houston, Texas, USA; National Travel Grant Award to present poster entitled "A Pilot study to evaluate prevalence of Wilm's tumor-1 (WT1) gene mutation in cases of acute myeloid leukaemia" at 37th ICON, 15-17 September 2017, New Delhi; International Travel Grant Award to presented poster titled "Study to evaluate prevalence of Wilm's tumor-1 (WT1) gene mutation in Acute Myeloid Leukaemia (AML) patients" at 22nd APBMT, 28-30 October 2017, Tehran, Iran and National Travel Grant award to present poster titled "PIK3CA mutation analysis in tumor tissue of breast cancer cases: Its correlation with

hormone receptor positive and HER2 receptor negative status” at IBCC, 7 and 8 October 2017, Jaipur Rajasthan; Member, International Association for the Study of Pain Meeting (IASP), 25-27 February 2018, Lisbon, Portugal; Chairman, 22nd International Conference on Frontiers in Yoga Research and Its Application (INCOFYRA) at Vivekananda Yoga Anusandhana Sansthana (VYASA) (IAPC), 5-8 January 2018, Bengaluru; Faculty, Lung Cancer Consortium Asia Annual Meeting, 15-17 December 2017, Mumbai; Faculty, 5th Training of Trainers in Palliative Care Programme (APHN), 15-21 September 2017, Dhaka, Bangladesh; Faculty, Project aimed at building up palliative care capacity at cancer treatment centre in India (APHN), 29 August-1 September 2017, Patna; Faculty, 6th ECAP Conference, 19-20 August 2017, Mumbai; Faculty, International Conference on recent advances in pain, 11-12 August 2017, Pune; Faculty, 12th Asia Pacific Hospice Conference (APHN), 26-29 July 2017, Singapore.

Dr Amar Ranjan was reviewer for Indian Journal of Dermatology.

Medical Oncology

Professor Lalit Kumar is member Scientific Council, IARC (International Agency for Research on Cancer), Lyon, France. He delivered Sher-e-Kashmir Sheikh Mohd Abdulla oration on 29 August 2017 at SMS Medical College, Jaipur; ISMPO Oration (Indian Society of Medical and Paediatric Oncology oration delivered in the annual meeting on 10 November 2017 at Bengaluru; He was Elected Fellow of the National Academy of Sciences (NASI), Allahabad; He is Council Member, Indian Academy of Sciences, Bengaluru (2016-2018), Member, Editorial Board, ONCOLOGY, an International journal (Karger); He is Associate Editor (Asia), Current Problems in Cancer (Elsevier); He is member, Governing Council of Sun Pharma Science foundation; Member, National Apex Committee for stem cell Research and Therapy (NAC-SCRT) ICMR; He is examiner for MD Medicine thesis at PGIMER, Chandigarh, DM Medical Oncology, Rajeev Gandhi University for Health Sciences, Bengaluru; PhD, Guru Gobind Singh Indraprastha University, Delhi, MGR University, Chennai, University of Delhi (North campus) Dr BR Ambedkar Centre for Biomedical Research (ACBR); He is Member, Technical Evaluation committee, Department of Health research, Government of India (2017-2022); Member, Scientific Advisory Committee, AIIMS Endowment Fund and Member, Scientific Advisory Committee, Cancer Institute (WIA), Chennai-India; Chair, Ethics committee, Stem Cell Research Group, University of Delhi, 22 November 2017, South Campus, New Delhi; Member, Research Committee Meeting, Tata Memorial Hospital, Mumbai, 16 December 2017, TMH Mumbai; Chaired a session of Indian Myeloma Congress, Indian Myeloma Academic Group (IMAGE), 10 February 2018, Manekshaw Convention Center, New Delhi.

Professor Sameer Bakhshi received AIIMS Excellence Research Award 2017 for outstanding published research work during 2016-2017; Awarded ‘The Melissa Ann Memorial Oration Award’ at Children’s Hospital of Michigan, Detroit, USA in 2017.

Dr Ranjit Kumar Sahoo conducted a national meeting on Hematological Malignancies, 24-26 November 2017.

Dr Atul Batra received Young Investigator Award in SIOP 2017 at Washington DC, USA, 11-14 October 2017 and International CML Foundation Preceptorship Award at MSKCC, New York, USA, November 2017.

Dr Raja Pramanik was awarded Mrs. Shakuntala Jolly Memorial Gold Medal for the best outgoing DM student in the academic year 2016 given on Institute Day Celebration on 25 September 2017.

Dr Thoudam Debraj Singh was session coordinator in “Updates in Management of Breast Cancer” in Session: Early Breast Cancer, organized by Indian Society of Clinical Oncology (ISCO), AIIMS, New Delhi, 6 May 2017.

Medical Physics

Professor Pratik Kumar was awarded AIIMS Excellence Research Award 2017—Certificate of Commendation; Invited by AERB, Mumbai to attend a meeting at TMH for implementation of patient dose recording and monitoring system linked with patient’s Aadhar; Appointed PhD thesis examiner for Mr. Vinod Tiwari, Department of Chemistry, University of Delhi, Mr. Ankit Kajaria, School of Biomedical Engineering, IIT-BHU and Mr. Chandra Kumar Singh, Dr APJ Abdul Kalam Technical University, Lucknow; Referee for manuscripts submitted to J of Luminescence, Applied Radiation and Isotopes, Elsevier, Current Medical Imaging Reviews, Indian Journal of radiology and Imaging and J of Medical Physics; was member, Departmental Research Committee for PhD in Radiological Physics at Rajasthan University of Health Sciences, Jaipur and Dr B. Barooah Cancer Institute (BBCI), Guwahati; Convener, Exposure Investigation Committee for Radiation Facilities of Northern Region by Atomic Energy Regulatory Board (AERB), Mumbai; Examiner for BSc Radiation Technology, SN Medical College, Jodhpur, UCMS, Delhi and PGIMER, Chandigarh; invited to attend 35th Meeting of Committee for Investigations and Review of Exposure in Nuclear Fuel Cycle and Radiation Facilities, AERB, Mumbai; External expert for selection of faculty, Department of Radiological Physics and Biomedical Engineering, SKIMS, Srinagar; Chaired session on “Modern Imaging” at 17th Asia Oceania Congress of Medical Physics and 38th Annual Conference of AMPI, Jaipur; External Expert for Technology Development Board, DST, Government of India for x-ray imaging units;

Member, Area Review Panel for evaluation of proposals to National Biopharma Mission, DBT, Ministry of Science and Technology; Editor, Medical Physics Gazette, newsletter of Association of Medical Physicists of India (AMPI); Member, Editorial Board, Journal of Medical Physics, Electro-medical Equipment Sectional Committee, BIS, New Delhi and Board of College of Medical Physics of India (CMPI).

Radiodiagnosis

Professor Sanjay Thulkar was nominated as member of Academic Committee of BP Koirala Institute of Health Sciences, Dharan, Nepal for the period of 3 years from 14 January 2018.

Dr Mukesh Kumar was reappointed as treasurer for society for emergency radiology India for 2018-2019; Appointed as executive council member in Indian Society of Vascular and Interventional Radiology (ISVIR) for 2018-2019; Received First prize for poster presented in 17th Asian Oceanic Congress of Radiology titled—Ground glass opacity in Immunocomprised Cancer patients; Second Prize for poster presented in 17th Asian Oceanic Congress of Radiology titled ‘Vacuum assisted breast biopsy-When and How?’; Second prize for e-poster in Inaugural Conference of Society of Onco-Imaging in India titled ‘Radiation induced changes in head and neck cancers’.

Radiation Oncology

Professor GK Rath is Head of National Cancer Institute (AIIMS 2 campus) at Jhajjar; awarded the DSc Honoris Causa by the KGMU, Lucknow, 2017; Conferred Doctorate (Honoris Causa) Degree at 5th Convocation of the Siksha O Anusandhan University, Bhubaneswar, 2017; Delivered the Shitala Sahai Oration ‘Cancer scenario in India and its future’ on Foundation Day of Jan Vikas Nyas Cancer Hospital and Research Institute Gwalior, 2017; delivered Inaugural Professor MC Pant Oration, UP AROICON, Lucknow; delivered NECHRI Oration ‘Programmed and facilities available in the country for cancer control in India’ at the NECHRI 8th Head and neck cancer Update, 2017, Guwahati; Delivered the Ganni Subbalakshmi Memorial Oration at the 12th annual academic and cultural day celebrations of the GSL Medical College and General Hospital, Rajahmundry, 2017; Guest of Honour at academic inaugural function, 12th Annual Academic and Cultural Day Celebrations, GSL Medical College and General Hospital, Rajahmundry, 2017; Chief Guest, 7th Convocation Ceremony of Yenepoya University, Mangalore 2017; Chief Guest Valedictory function at the AROI-NZ at Hisar 2017; Chairman Standing Selection Committee for Faculty Selection, AIIMS, Bhopal; Chairman, High Power Committee Regarding Strengthening of Radiotherapy Services of Super Speciality Cancer Institute at the KGMU, Lucknow; Scientific Advisory Committee (SAC) of National Centre for Disease Informatics and Research (NCDIR), ICMR, Bengaluru; Committee to ascertain the reasonability of price of 6MV linear accelerator at CNCI, Kolkata on 2018; PRSG of the DIT for the projects entitled “Development of computer aided detection system for mammograms (CAD for mammograms) submitted by CDAC and RCC, Thiruvananthapuram and Calcutta University; Chairman of the committee to identify the director for the Cochin cancer centre, Kerala; Co-chairman of the Governing Board for the International Cancer Genome Project of DBT; Chairman, National Steering Committee for the project entitled ‘Research and development of high energy electron linear accelerator technology for medical and other applications’ being implemented by SAMEER, Mumbai and INMAS, DRDO, New Delhi; Chairman for the committee for the grant of financial assistance from Prime Ministers National Relief Fund to partially defray the expenses for medical treatment; Chairman of the Committee for Procurement of Radiotherapy Equipment for AIIMS, Rishikesh on 2017; Member of expert Committees/Bodies Atomic Energy Regulatory Board (AERB), GOI; Member, Advisory Committee for MSc in Cancer Biology Programme at Dr B Barooah Cancer Institute, Guwahati; Member, Scientific committee of Regional Cancer Center, Thiruvananthapuram; Member, Scientific Advisory Committee (SAC) of Savitribai Phule Pune University, Pune; subject Expert for Faculty Selection Interview (Radiotherapy) in standing selection committee for AIIMS, Patna 2017; Subject expert for the Selection of faculties in the Department of Radiotherapy, AIIMS, Bhubaneswar on 2017; Invited by the Director, DGHS(NCD) Orissa to participate in the core committee meeting for setting of Radiotherapy Unit 2017; Member Governing Body of AIIMS Bhopal; External expert for the selection of Professor and Assistant Professor in the Department of Radiation Oncology at RCC Thiruvananthapuram on 2017; Expert faculty to establish a comprehensive cancer hospital in Gauhati Medical College 2017; Member of the advisory committee for MSc in Cancer Biology Course at the Dr B Barooah Cancer Institute, Guwahati.

Professor Subhash Chander attended the conference, 2017 Canadian Cancer Research Conference, 5-7 November 2017, Vancouver, Canada; Attended the conference, 34th Annual Sc Congress of College of Anaesth. an Intens. of Sri Lanka, 26-28 January 2018, Colombo, Sri Lanka; Attended the conference, International Cancer Conference, 18-20 January 2018, Kathmandu, Nepal; Attended the conference, International CME in Path, Hist, Cytopath, 2-4 February 2018, Goa; Attended the conference, 73rd Annual Conference of the Association of Physicians of India, 23-25 February 2018, Bengaluru.

Professor D.N. Sharma received ICMR Prize for Biomedical Research for Scientist; Awarded Dr G N Agarwal Oration for the year 2017 by King George’s Medical University, Lucknow; Awarded the ICRO Fellow Award by Indian College of Radiation Oncology (Association of Radiation Oncologists of India); Dr DN Sharma has been invited as a visiting professor by Loyola University, Chicago, USA; Chairperson, 25th International Conference of The Indian Association for Palliative Care, 23-25 February 2018, AIIMS, New Delhi.

Professor Sushmita Pathy reviewer for various scientific journals; Chairperson, International Conference on Peritoneal Surface Malignancies, 3-4 March 2018, AIIMS, New Delhi.

Dr Subhash Gupta is associate editor of International Journal of Oncology Science; Chairperson for the Session ISNOCON 2017, 5-8 April 2017, Convention center, Bengaluru; Chaired a session 'Brain tumors', NZAROICON 2017, 16-17 December 2017, Guru Jambheshwar University of Science and technology, Hisar; Chaired a session 'Recurrent Gliomas', YROC 2018, 12-14 January 2018, Vivanta by Taj, New Delhi; Chairperson for the session: 16th Annual EBM on Head and Neck Cancers 2018, 23-25 February 2018, Tata Memorial Hospital, Mumbai; Chairperson for the session 3rd NCHCON Update in Breast Cancer 2018, 9-10 March 2018, Radisson, Nepal; Chairperson for the session, Updates in Management of Gynaecological Cancer, 6 August 2017, AIIMS, New Delhi.

Dr K.P. Haresh is Editor in Chief of International Journal of Oncology Science; Chairman for the walk in interview for the selection of UDC for the project entitled 'Comparative analysis of genetic, clinical and epidemiological factors of breast cancer in Indian population' at ICMR Headquarters; Member of the Tobacco free education institute committee at AIIMS, New Delhi; Member of the committee for selection of Radiographers at the walk in interview on 17 October 2017 at AIIMS, New Delhi; Chairperson for the session, Updates in management of Gynaecological cancer, 6 August 2017, AIIMS, New Delhi; Chaired a session 'Brain tumors', NZAROICON 2017, 16-17 December 2017, Guru Jambheshwar University of Science and technology, Hisar; Chaired a lecture: Trials in breast cancer which changed our perception in last 100 years, ASOMACON 2017, 8 October 2017, AIIMS, New Delhi.

Dr Rambha Pandey was Chairperson for Symposium on Lung Cancer, AIIMS PULMOCRIT 2017, 15-16 April 2017, JLN Auditorium, AIIMS, New Delhi.

Dr Ahitagni Biswas passed MRCP Medical Oncology Specialty Certificate Examination (UK) in September 2017; Awarded Dr MC Pant Gold Medal at 2nd Indian Cancer Congress, Bengaluru in November 2017.

Surgical Oncology

Professor S.V.S. Deo was invited as a subject external expert for standing selection committee meeting for selection of faculty at AIIMS, Rishikesh, AIIMS, Bhopal, AIIMS, Patna; Subject expert for J&K public service commission recruitment for surgical oncology faculty 23 January 2018; External examiner for MCh (Surgical Oncology) BHU, Varanasi; He was appointed as an expert committee member ICMR-CTRI; External expert for faculty project review for funding at Tata Memorial Hospital Mumbai; Appointed In-charge Delhi Cancer Registry; Chairman Technical specification committee for Procurement of equipment for National Cancer Institute, Jhajjar; Elected as a Treasurer in Breast Surgery International; Treasurer Association of Breast Surgeons of India; President Indian Society of PSM; He was invited to deliver an oration in Japanese International Co-operation Agency (JICA), New Delhi.

Dr Sunil Kumar was awarded the International Fellowship in Thoracic Surgery by Seoul National University, South Korea; He was awarded the Travel Grant for outstanding paper presentation in 24th Asia Pacific Cancer Conference, Seoul (South Korea); He delivered K P Saikia Memorial Oration in Cancer, Guwahati; He was invited as external examiner for MCh surgical oncology, TMH, Mumbai.

VISITING SCIENTISTS

1. **Dr Rakesh Verma**, Achelois Oncology Inc., California, US
2. **Dr Shibdas Banerjee**, IISER, Tirupati
3. **Dr Richard Finn**, UCLA Medical Center, Santa Monica
4. **Professor Arlene Chan**, Director, Hollywood Hospital, Perth, Australia
5. **Francesco Grossi**, Adjunct Professor, University of Genoa, Italy

10.4. Dr Rajendra Prasad Centre for Ophthalmic Sciences

Chief and Professor

Atul Kumar

Professors

Pradeep Sharma	Ramanjit Sihota	Gita Satpathy (Ocular Microbiology)
J.S. Titiyal	Radhika Tandon	S.K. Khokhar
Shakti Kumar Gupta (Medical Superintendent)	Mahesh Chandra	Dilip R. Shende (Ocular Anesthesia)
Mandeep Singh Bajaj	Raj Pal	Seema Sen (Ocular Pathology)
Sanjay Sharma (Radiodiagnosis)	Seema Kashyap (Ocular Pathology)	Namrata Sharma
Tanuj Dada	Pradeep Venkatesh	Neelam Pushker
T. Velpandian (Ocular Pharmacology)	Praveen Vashist (Community Ophthalmology)	Jasbir Kaur (Ocular Biochemistry)
Rohit Saxena	Vinay Gupta	Renu Sinha (Ocular Anesthesia)
Tushar Agarwal	M. Vanathi	Rajesh Sinha
	Bhavna Chawla (On leave)	

Additional Professor

Parijat Chandra

Associate Professors

Senjam Suraj Singh (Community Ophthalmology)	Alok Kumar Ravi (Ocular Biochemistry)	Nabanita Halder (Ocular Pharmacology)
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Assistant Professors

Noopur Gupta	Rachna Meel	Vinod Kumar
Rohan Chawla	Swati Phuljhele	Vivek Gupta (Community Ophthalmology)
Nishat Hussain Ahmed (Ocular Microbiology)	Shikha Gupta	Neiwete Lomi
Dewang Angmo	Prafulla Maharana	Shorya Vardhan Azad
Kanil Ranjith Kumar	Arshad Ayub	Neelima

HIGHLIGHTS

Dr Rajendra Prasad Centre for Ophthalmic Sciences, AIIMS, is the apex centre for ophthalmic care in the country. The Centre is recognized as a premier super-specialty institute with state of the art equipment and world-class facilities for patient care, teaching and research. Some of the key achievements/contributions in the year 2017-2018 include:

- Recognized as **WHO Collaborating Centre** for Prevention of Blindness
- **Largest Indian Postgraduate Teaching Program**—More than 1000 illustrious alumni, pioneers of eye healthcare institutes all over the world
- Dr R.P. Centre was awarded the **First prize for SWACHHTA AWARDS 2017** under the category of Best Hospital Centre/Best Establishment office, and also the best maintained ward (Ward 2A)
- The centre has established a **National Ophthalmic Surgical Skills Development Centre**, the first of its kind with a high-end virtual reality simulator for intraocular surgical training for cataract and vitreo-retinal surgery; Numerous trainees have benefitted immensely by experiencing complex interaction between instruments and intraocular structures in real time

- Conducted **National Surgical Skill Training Programmes** and **Scientific Workshops** on various sub-specialties of ophthalmology such as Glaucoma, Retina, Cornea, Refractive Surgery, Cataract, Strabismus, Oculoplasty, Ocular Oncology, Neuro-ophthalmology and Ophthalmic Anesthesia; These workshops were attended by delegates all over the country, providing exposure to high end knowledge, surgical expertise and cutting edge technology; Special live interactive surgical sessions and individualized Wetlab sessions with hands on training were hallmarks of these workshops; These were supplemented by exhaustive didactic lectures by the faculty
- **Glaucoma**—Dr R.P. Centre initiated the **National Training Programme for Upgrading Glaucoma Training** in the country in collaboration with **National Programme for Control of Blindness, Ministry of Health and Family Welfare**, Government of India; Under this programme, district ophthalmologists and glaucoma specialists in Regional Institutes of Ophthalmology will receive training in the diagnosis and management of glaucoma; Ophthalmologists managing glaucoma at regional institutes were invited to attend a two day “**Training the Trainers**” workshop, held in partnership with NPCB to enable them to further train the district ophthalmologists by imparting a uniform educational module with didactic lectures coupled with skill transfer; A new form of Diabetes, labeled as **Diabetes Type 4**, has been described by researchers at RPC; This syndrome is brain specific diabetes with Central Nervous System (CNS) insulin resistance and mitochondrial dysfunction leading to retinal ganglion cell loss and glaucomatous neurodegeneration; It will potentially lead to rethinking about glaucoma and its treatment
- **Cornea, Cataract and Refractive Services**—R.P. Centre has always been the pioneer in the field of phacoemulsification, femtosecond laser assisted surgeries, split corneal surgeries (single donor for multiple recipients), keratoprosthesis for end stage corneal disorders and stem cell transplantation with the recent introduction of bioengineered corneas that has opened new avenues in the field of corneal transplantation; State of the art Small Incision Lenticule Extraction (SMILE) technique for laser surgical refractive correction has also been introduced making us the first government teaching institute of the country to perform the same; Use of modern and high tech surgical tools such as Intra operative Wavefront Aberrometry “Optiwave Refractive Analysis (ORA)” has been initiated to maximize the outcome of intraocular lens surgeries; RPC also initiated the most advanced technique of component corneal surgery that is Descemet Membrane Endothelial Keratoplasty (DMEK) for patients suffering from endothelial disease and successfully conducted the first workshop on DMEK surgery in association with international faculty from USA; Joint training keratoplasty workshops were also conducted in association with the Sightlife foundation, wherein residents and fellows from all parts of the country were trained by international and RP Centre faculty
- **Retina and Uvea Services**—Since the inception of the Centre, it has remained the apex referral center for the management of various sight threatening vitreo-retinal disorders such as Diabetic Retinopathy, Vascular Occlusions, Age-related Macular Degeneration and Uveitis (Intra-ocular inflammation); The department is equipped with latest investigative tools, second to none, for providing comprehensive ophthalmic care; The Center performs cutting edge modern sutureless 25 G/27G vitreo-retinal surgeries for managing complex retinal detachments, tractional retinal detachments and macular pathologies, with outcomes comparable to best in the world; State of the art imaging and investigative tools are available for the diagnosis and treatment of retinal disorders which include microperimetry, Ultra-Wide Field Angiography, Spectralis OCT, OCT-Angiography (Dyeless Angiography), Adaptive Optics Imaging, Video Angiography, Multifocal ERG, Green Laser, PASCAL, Photodynamic Therapy etc; Ongoing stem cell research on degenerative retinal disorders aims to provide hope to the blind in future; OCT assisted operating microscopes have revolutionized the way we operate macular diseases like macular holes, and allows us to get better surgical outcomes; We recently inducted NGENUITY 3D Visualization system—State of the Art Digitally Assisted Vitreoretinal Surgery platform; It has made us pioneers of 3D Heads up vitreoretinal surgeries in India
- **Retinopathy of Prematurity**—RPC is the apex referral center for screening, laser treatment and surgery for Retinopathy of Prematurity (ROP), an important cause of childhood blindness in premature babies; We have recently started a dedicated High Dependency Unit (HDU) manned by skilled pediatricians for providing postoperative support to pre-term babies
- **Retinoblastoma and other eye cancers**—RPC is the apex referral center for retinoblastoma, the most common eye cancer seen in children; Ocular Oncology Service is treating a wide variety of complex tumors of the eye and ocular adnexa in children and adults by means of a multi-disciplinary approach consisting of surgery, chemotherapy, and radiation therapy; Novel globe salvage modalities such as intra-arterial chemotherapy have helped to save eyes and vision in young children suffering from retinoblastoma; We are also the **first government hospital** in the country to establish **plaque brachytherapy facility** for treatment of eye cancers; New research at the center has unveiled potential poor prognostic biomarkers for ocular tumors
- **Pediatric Ophthalmology and Strabismus**—The centre is playing a national leadership role which was acknowledged by the American Association for Pediatric Ophthalmology and Strabismus (AAPOS) and American Academy of Ophthalmology (AAO); An AIOS sponsored Pediatric Ophthalmology and Strabismus working group was organized in October to finalize the Guidelines for the Examination of Pediatric Eye Examination, the

prescription of glasses and management of amblyopia; The centre continues to be the apex centre for referral for all complex cases of strabismus; We are actively contributing to the Rashtriya Bal Swasthya Yojana under the Ministry of Health, Government of India.

- **Paediatric Cataract**—We are a referral center for one of the most common treatable causes of childhood blindness; The number of children getting treatment for the same has increased 5 fold in the last 10 years; The main aim of treatment is to clear the visual axis by surgery followed by postoperative visual rehabilitation; Post-surgery occlusion (patching of the better eye) therapy has rehabilitated many children giving lifelong vision and preventing amblyopia
- **The National Eye Bank** plays a significant role in the training of surgeons in corneal transplantation, training of technicians in donor tissue retrieval and processing, promotion of eye donation and continuing research; It has collected over 23,000 corneas, which have been utilized to perform over 16,000 corneal transplants till date; Online pledging system has been made available on the NEB portal on AIIMS website to promote awareness; In the year 2017-2018, a total of 1813 donor corneas were collected which is the highest number till date; The centre also routinely provides pre-cut tissues to various centres for use in the modern procedures of lamellar keratoplasty; RP Centre also provided technical guidance to the Punjab guidance initiative aimed at making Punjab, Corneal Blindness Backlog Free State by 31 December 2017
- **Environmental factors and Eye Health**—An ICMR multicentric collaborative study on the impact of environmental changes and ultraviolet ray exposure on ocular health is underway at RP Centre for NCR region (Rural Gurgaon), RIO Guwahati for North Eastern Region (Rural Guwahati) and IIPH Hyderabad for Coastal areas (Prakasam); National Physical Laboratory (NPL) is involved to record data for environmental factors and UVA and UVB radiations
- **Low Vision and Rehabilitation Service**—The centre has recently upgraded its Low Vision and Rehabilitation Services with the inauguration of National Research and Training Centre for the same; We are assisting the Ministry of Social Justice and Empowerment in streamlining disability certification
- **Telemedicine** for consultancy of ophthalmic colleagues
- **Community Ophthalmology Service**—This department is actively involved in patient care services, school visual screening programs, teaching and training of residents and volunteers, national and international workshops, community based research activities, nationwide epidemiological eye health surveys, promotion and awareness on eye health; It also regularly assists the National Program for Control of Blindness and Visual Impairment (NPCB&VI) of the Ministry of Health and Family Welfare, Government of India; The role of Community Ophthalmology is to make the eye care services available, accessible and affordable; The department also shoulders the responsibility of providing nationwide data about blindness for formulating policies and plans in future; A total of 25 Vision Centres in Delhi and NCR has been opened for comprehensive eye care services in collaboration with Government dispensaries/NGOs
- **Clinic-epidemiological research and policy initiatives in 2017**—Dr R.P. Centre has recently started a clinic-epidemiologic study on Diabetic Retinopathy and its biomarkers with the support of Ministry of Health and Family Welfare (MOHFW), Government of India; The National Trachoma Prevalence Survey and the Trachoma Rapid Assessment Survey were completed in 2017 and Trachoma survey reports (2014-2017) were released on 8 December 2017 declaring India free of Active Trachoma Infection, by Sh. JP Nadda, Hon'ble Union Minister of H&FW, GoI; Trachoma workshop on “To chalk out an Action Plan for surveillance of Trachoma as per WHO norms” was organized in collaboration with NPCB&VI on 11 January 2018; Representatives from Department of Control of Neglected Tropical Diseases, WHO, Geneva visited Dr RPC for Ophthalmic Sciences, AIIMS, New Delhi on 13 February 2018 to review the data and discussed strategy for trachoma elimination in India by 2020
- The National Blindness Survey 2015-2018 is also being conducted by RP Centre, in a sample of 90,000 population for generating evidence for burden of visual impairment and blindness at the national level; Blindness surveys have been completed in 28 districts so far and are scheduled to be completed in all 30 districts by June 2018; This survey will not only provide the most reliable representative current estimates of blindness and visual impairment, but will also generate, for the first time, the burden of diabetic retinopathy and sight threatening diabetic retinopathy in India; Lastly, an epidemiological study on childhood blindness is being conducted in Delhi, which is the first large scale community based study on childhood visual impairment and blindness in north India in last 10 years; The total sample size of the study is 20,000 children and results are expected in 2018
- WHO-SEARO sponsored workshop on “Development of National Action Plan for Achieving Universal Eye Health in India” was organized on 9 and 10 November 2017, Dr RPC AIIMS; Started WHO SEARO academic orientation program in Community Ophthalmology for candidates nominated by WHO SEARO
- **Definition of Blindness**—The institute has been instrumental in re-alignment of the Indian definition of blindness under the NPCB, with the international definition as recommended by WHO; The Indian definition of blindness now includes any person with presenting visual acuity of less than 3/60 in the better eye; The centre advocated for change of the blindness programme in India to National Programme for Prevention of Visual Impairment and

Blindness in line with WHO Global Action Plan (2014-2019) so as to lay emphasis on Visual Impairment, in particular; This was accepted by the Ministry of Health, India in April 2017

- Disability certification guidelines under Ministry of Social Justice and Empowerment, GOI; Various ophthalmology and public health experts from the centre have been instrumental in disability certification and re-classification of visual disability sub-groups under Ministry of Social Justice and Empowerment, GOI; The definition under this act has been modified in line with WHO definition due to the advocacy provided by the institute's faculty
- As requested by Director, AIIMS by official circular, in keeping with President Obama and PM Modi Vision for Indo-US collaboration, collaborative links have been established with the following institutes of higher learning and excellence: Jules Stein Institute, Tufts University, UT Western University of Texas, Massachusetts Eye and Ear Infirmary, Harvard Medical School, NEI, NIH, Bethesda, MD, USA, Sightlife, Seattle, USA, and Cleveland Clinic, USA
- **Ocular Pharmacology**—Ocular Pharmacology and Pharmacy has recently patented a Sterile Phase Inversion and Dispensing Technology (**TransReCon**) for unstable drugs at points of ophthalmic care at remote locations in India; This technology would soon be commercialized for helping practicing ophthalmologists in India and abroad to procure ocular emergency care drugs; A scientific analysis of bioactive compounds including antibiotics in surface and ground water in Delhi and NCR has been undergoing which is the part of the initiative of National Mission for Clean Ganga; **Standardized Corneal Storage Media** (to enable corneal transplant for Government Ophthalmology Hospitals in India) and serving it to 58 eye banks across 22 states of India (MHFW-AIIMS) from 2010—till date (enabled more than 15,000 eye donations across the country)
- **Ocular Pathology**—Ocular pathology has acquired the Autoimmunostainer, a high output instrument which is an automated facility capable of providing advanced and faster Immunohistochemistry (IHC) for efficient and quicker diagnostic patient care services; The department also has a Cytospin, which is useful in analyzing very small quantities of vitreous/aqueous fluids rapidly and efficiently; Both these facilities will help to plan prompt treatment of ocular diseases including malignancies
- **Ocular Biochemistry** has attained many significant achievements; Scientific research areas include ocular tumors, glaucoma, angiogenesis associated retinal diseases and stem cell research, both basic and translational

EDUCATION

Academic activities

1. Total number of Junior Residents	109
2. Total passed MD (Ophthalmology)	45
3. Number of BSc (Hons.) Ophthalmic Technician	55
4. Number of BSc (Hons.) Ophthalmic Technician	14 qualified during the year
5. Undergraduates Students	45
6. Interns	55
7. Training of District Ophthalmic Surgeon	6
8. Short/Long-term training	10
9. Workshop/Symposium	10

CMEs/Workshops/Symposia/National and International Conferences

1. Strabismus Workshop: Live Surgery/Skills transfer/Lectures, 23 July 2017
2. District Ophthalmologists Training program in Glaucoma, 2 August 2017
3. Descemet Stripping Automated Endothelial Keratoplasty Workshop (DMEK), 6-11 August 2017
4. Penetrating Keratoplasty (PK) workshop, 24-27 October 2017
5. Glaucoma Live Surgery/Skills transfer/Lecture Workshop, 20 August 2017
6. Retina workshop, 17 September 2017
7. Retina Live Surgery/Demo of newer imaging equipment/Lectures, 1 October 2017
8. Cornea Workshop: Live surgery and newer equipment demo/Lectures, 22 October 2017
9. Oculoplastic Surgery and Ocular Tumor Workshop, 19 November 2017
10. WHO-SEARO Expert Group Meeting on Development of National Action Plan for Achieving Universal Eye Health, 9-10 November 2017
11. WHO-SEARO Workshop-Best Practices for PACD in SE Asia Program, 19 December 2017
12. NPCB-Trachoma workshop on Action Plan for Surveillance of Trachoma as per WHO norms, 11 January 2018
13. Phacoemulsification and Refractive Surgery Update: Live Surgery/Skills Transfer/Lectures, 14 January 2018

14. Neuro-Ophthalmology and Imaging Update, 21 January 2018
15. RPC Founders Day Scientific Workshop, 10-11 March 2018

Lectures delivered

Atul Kumar

1. Guest Speaker, “RETICON Retina Meeting” at Agarwal Eye Hospital, 23 April 2017, Chennai
2. Intraoperative OCT guided, Inverted Flap Technique of Macular Hole Closure, FLORetina 2017, 27-30 April 2017, Italy
3. Intraoperative i-OCT Guided Surgery with Centre—Sparing ILM Peel for myopic Traction Maculopathy: Our Experience, VRSI-RISHI 2, 16-17 June 2017, Palampur
4. Guest Faculty, Retina Summit, 15 July 2017, Chennai
5. Principles of Vitreoretinal Surgery—Techniques, Results, Complications, PG Teaching Programme at Advanced Eye Centre, PGIMER, 11 August 2017, Chandigarh
6. Polypoidal Choroidal Vasculopathy: Evidence Updates, Bombay Ophthalmologist’s Association, 11-12 August 2017, Mumbai
7. RD in eyes with High Myopia Maculopathy—Our Experiences, Bombay Ophthalmologist’s Association, 11-12 August 2017, Mumbai
8. Guest Faculty, Principal Query, 9 September 2017, Chandigarh
9. Retinal OCT and Beyond, Uttrakhand State Ophthalmological Society, 16 September 2017, Haridwar
10. Retinal Imaging in Complex Macular Pathologies, Uttrakhand State Ophthalmological Society, 16 September 2017, Haridwar
11. Update on Management of Age Related Macular Degeneration, Retina Workshop, 17 September 2017, AIIMS, New Delhi
12. High Myopia and the Macula, Intraocular Implant and Refractive Society of India 2017, 23 September 2017, New Delhi
13. Item Cell Transplantation in ARMD and the future of Retinal Transplantation, Intraocular Implant and Refractive Society of India 2017, 23 September 2017, New Delhi
14. Unravelling the pachychoroid clinical spectrum, Angiogenesis Club Meeting, 24 September 2017, Bengaluru
15. Familial Exudative Vitreoretinopathy (FEVR)—Demystified, Angiogenesis Club Meeting, 24 September 2017, Bengaluru
16. Pachychoroid clinical spectrum: Emerging therapies and evidence update, International Symposium on “Retinal Imaging and Beyond”, 30 September 2017, Cochin
17. Optimizing Treatment Outcomes in Wet AMD, International Symposium on “Retinal Imaging and Beyond, 30 September 2017, Cochin
18. From trials to treatment: How do I manage RVO? International Symposium on “Retinal Imaging and Beyond, 30 September 2017, Cochin
19. Guest Faculty, HOA, 11 November 2017, Hyderabad
20. Guest Speaker, Delhi Ophthalmological Society—Teaching Program, 18 November 2017, New Delhi
21. Intraocular Foreign Bodies, Master Class in Managing Ocular Trauma Session at Asia-Pacific Vitreo Retina Society (APVRS) 2017—International Conference, 7-10 December 2017, Malaysia
22. Diabetic Retinopathy Symposium, Arvind Eye Hospital, 6-7 January 2018, Madurai
23. Guest Speaker, Med Term IIRSI, 19-20 January 2018, Amritsar
24. Ultra Widefield Angiography and OCT, iFocus—PG Teaching Program, 27 January 2018, New Delhi
25. Ultrasonography and UBM, iFocus—PG Teaching Program, 27 January 2018, New Delhi
26. Vitreo Retinal Surgery—A Video-Assisted, iFocus—PG Teaching Program, 27 January 2018, New Delhi
27. Key Note Lecture: Principles of Vitreoretinal Surgery: Techniques, Results, Complication, AIOS-ARC PG Teaching Program, 3 February 2018, Chandigarh
28. Chief Instructor: ILM Flaps to close Macular Holes and Optic Nerve Head Pits, IC- 21: Macular Pathologies Simplified, All India Ophthalmological Society Conference 2018, 21-24 February 2018, Coimbatore
29. Swept source OCT helped me managing these cases IC-28: Retinal Imaging unraveling the mysteries of Retina: Retina Grand Rounds, 76th Annual Conference of All India Ophthalmological Society (AIOS) Conference 2018, 21-24 February 2018, Coimbatore

30. AntiVEGF-DME and PDR: Which one, when, why and follow-up protocol—IC-381: Practical and Protocol Based Algorithmic Management of DME and PDR: Basics to 2018, 76th Annual Conference of All India Ophthalmological Society (AIOS) Conference 2018, 21-24 February 2018, Coimbatore
31. Dyes, Steroids and other surgical adjuncts—IC-468: Surgery for Retinal Reattachment: An Update, 76th Annual Conference of All India Ophthalmological Society (AIOS) Conference 2018, 21-24 February 2018, Coimbatore
32. Retinal OCT and Beyond—Retina Session, 51st Foundation of Dr R.P. Centre for Ophthalmic Sciences, 11 March 2018, New Delhi
33. ARMD Including IPCV, COS Meeting, 23 March 2018, Chandigarh

Pradeep Sharma

1. Evaluation of Surgical efficacy of Plication vs Resection of Medial rectus, 44th Annual Meeting of AAPOS, 18-22 March 18, USA
2. Strabismus Surgery—Indications, Dosing and 36 Techniques, 76th Annual Conference of All India Ophthalmological Society (AIOS) Conference 2018, 21-25 February 2018, Coimbatore
3. Understanding Strabismus, 76th Annual Conference of All India Ophthalmological Society (AIOS) Conference 2018, 21-25 February 2018, Coimbatore
4. StrabisMusic: The Surgeon Session, 76th Annual Conference of All India Ophthalmological Society (AIOS) Conference 2018, 21-25 February 2018, Coimbatore
5. Challenging Ocular Motility Disorder, 76th Annual Conference of All India Ophthalmological Society (AIOS) Conference 2018, 21-25 February 2018, Coimbatore
6. Surgical decision making, 76th Annual Conference of All India Ophthalmological Society (AIOS) Conference 2018, 21-25 February 2018, Coimbatore
7. VAST session in Squint, 76th Annual Conference of All India Ophthalmological Society (AIOS) Conference 2018, 21-25 February 2018, Coimbatore
8. Resident Training—the RPC Way, I-Focus National Postgraduate Education Program in Ophthalmology, 24 January 2018, New Delhi
9. Learning to Teach and Assess, I-Focus National Postgraduate Education Program in Ophthalmology, 24 January 2018, New Delhi
10. What is New in pediatric Ophthalmology and Strabismus, I-Focus National Postgraduate Education Program in Ophthalmology, 24 January 2018, New Delhi
11. Complex Problems in Strabismus, I-Focus National Postgraduate Education Program in Ophthalmology, 24 January 2018, New Delhi
12. Strabismus Surgery—An overview, I-Focus National Postgraduate Education Program in Ophthalmology, 24 January 2018, New Delhi
13. Resurgery in Strabismus Timing of IDS Surgery, Pediatric Ophthalmology, 21 January 2018, Mumbai
14. Correcting Disinnervational Strabismus, SPOSI 2017, 9-10 December 2017, New Delhi
15. Diagnosis and Management of DRS, SPOSI 2017, 9-10 December 17, New Delhi
16. Management of Intermittent Exotropia, SPOSI 2017, 9-10 December 17, New Delhi
17. Live Surgery, 4th World Congress of Paediatric Ophthalmology and Strabismus Conference, 30 November-3 December 2017, Hyderabad
18. Correcting the aberrant innervations in strabismus, 4th World Congress of Paediatric Ophthalmology and Strabismus Conference, 30 November-3 December 2017, Hyderabad
19. Management of Duane and Mobius syndromes, 4th World Congress of Paediatric Ophthalmology and Strabismus Conference, 30 November-3 December 2017, Hyderabad
20. Case Based Approach to IDS, 10th DOS Teaching Programme, 18 November 2017, New Delhi
21. Decoding SO palsy, CME Program on Pediatric Ophthalmology and Strabismus 17, 24 September 2017, Sitapur
22. Pearls and pitfalls in Strabismus Surgery, CME Program on Pediatric Ophthalmology and Strabismus 17, 24 September 2017, Sitapur
23. Newer procedures for paralytic strabismus, FOCUS 2017, 12 August 2017, Mumbai
24. Nystagmus VAST and Recent Advances, Strabismus Workshop, 23 July 2017, New Delhi
25. Update on nystagmus management, OPTHAFUSION 2017, 16 July 2017, Coimbatore
26. Update on parietic strabismus management, OPTHAFUSION 2017, 16 July 2017, Coimbatore

27. Stretched scars, slipped and lost muscles: Prevention and management, OPTHAFUSION 2017, 16 July 2017, Coimbatore
28. Taming the obliques, OPTHAFUSION 2017, 16 July 2017, Coimbatore
29. Vision evaluation in children, Basics of Pediatric Ophthalmology society, 9 July 2017, Ajmer
30. Oblique overactions and A-V Patterns, Basics of Pediatric Ophthalmology society, 9 July 2017, Ajmer
31. Overview of SO Palsy, Basics of Pediatric Ophthalmology Society, 9 July 2017, Ajmer
32. A.V Pattern-evaluation and Management, Midterm Conference of Strabismus and Pediatric, 21 May 2017, Kerala
33. Nystagmus Simplified, Ophthalmology Society of India (SPOSI) 2017, 9-10 December 2017, New Delhi

Ramanjit Sihota

1. Risk Profiling, 7th World Glaucoma Congress, 28 June-1 July 2017, Helsinki, Finland
2. Surgery in the developing world, 7th World Glaucoma Congress, 28 June-1 July 2017, Helsinki, Finland
3. Glaucoma progression, 7th World Glaucoma Congress, 28 June-1 July 2017, Helsinki, Finland
4. Best Visual Recovery in Congenital Glaucoma, Bombay Ophthalmologists Association, 11-13 August 2017, Mumbai
5. Trabeculectomy Long Term, Bombay Ophthalmologists Association, 11-13 August 2017, Mumbai
6. Long Term Prognosis of Glaucoma in the Real, Bombay Ophthalmologists Association, 11-13 August 2017, Mumbai
7. World Discussion, Bombay Ophthalmologists Association, 11-13 August 2017, Mumbai
8. Gaps in Glaucoma management, International Agency for Prevention of Blindness (IAPB)—Council Meeting 2017, 17-18 September 2017, Kathmandu, Nepal
9. Medical Management of Glaucoma—Basic Principles, Thrissur Academic Club of Ophthalmologists, 23-24 September 2017, Thrissur
10. Glaucoma Surgery in Children, Thrissur Academic Club of Ophthalmologists, 23-24 September 2017, Thrissur
11. Long-term prognosis of Glaucoma in India, Thrissur Academic Club of Ophthalmologists, 23-24 September 2017, Thrissur
12. Long-term prognosis of Glaucoma in India, Bihar Ophthalmological Society Meeting 2017, 4-5 November 2018, Patna
13. Visual Field Interactive, iFocus, 23 January 2018, Delhi
14. Preventing Blindness in Glaucoma—Pediatric Glaucoma Management, AIOS 2018, 21-23 February 2018, Coimbatore

Radhika Tandon

1. Eye Infections, Faridabad Ophthalmic Society CME, 20 April 2017, Haryana
2. Panelist, ISCKRS CME Dilemmas in Infection Prophylaxis and Ocular Surface, 14 May 2017, New Delhi
3. ICMR—UVR study initiatives on impact of environment changes on ocular diseases, VISION 2020—INDIA's 13th Annual Conference: Inclusive Eye Care Services, 4 June 2017, Raipur, Chhattisgarh
4. An update of therapeutic practices for anterior segment of eye, Workshop on Potential Role of Nano-intervention in Management of Ophthalmic Diseases 28 June 2017, New Delhi
5. Cornea Corner: Newer Technologies in Corneal Surgery, Indian Intraocular Implant and Refractive Surgery Convention: IIRSI 2017, 8-9 July 2017, Chennai
6. Clinical Presentation of Ocular Surface Neoplasia, Boston Kpro Your Experience, CME "The Cornea Kaleidoscope", 16 July 2017, Bengaluru
7. Keynote address, Follow up meeting regarding Corneal Blindness Backlog Free Punjab, 26 July 2017, Mohali, Chandigarh
8. How to handle corneal emergencies—Video based Corneal Surgery—revisited, Mumbai Ophthalmologists' Association BOA Focus 2017 Silver Jubilee Conference, 11-13 August 2017, Mumbai
9. Video based talk on ICL work up and surgery and a general talk on update on eye banking in India, Annual Conference of Kanpur Ophthalmic Society, 26-27 August 2017, Kanpur, UP
10. Live Surgery Cornea Session: Pediatric Keratoplasty—Wonders and pitfalls, Cornea and Eye Banking Conference 9th Annual Meeting of Eye Bank Association of India in Collaboration with Patna Ophthalmological Society, 9-10 September 2017, Patna

11. Cornea Session II, Cornea and Eye Banking Conference 9th Annual Meeting of Eye Bank Association of India in collaboration with Patna Ophthalmological Society, 9-10 September 2017, Patna
12. Eye Banking Session I, Cornea and Eye Banking Conference 9th Annual Meeting of Eye Bank Association of India in collaboration with Patna Ophthalmological Society, 9-10 September 2017, Patna
13. Contraindications for tissue retrieval, Cornea and Eye Banking Conference 9th Annual Meeting of Eye Bank Association of India in collaboration with Patna Ophthalmological Society, 9-10 September 2017, Patna
14. Cornea Session V, Cornea and Eye Banking Conference 9th Annual Meeting of Eye Bank Association of India in collaboration with Patna Ophthalmological Society, 9-10 September 2017, Patna
15. Advances in Keratoplasty—Revisited, Cornea and Eye Banking Conference 9th Annual Meeting of Eye Bank Association of India in collaboration with Patna Ophthalmological Society, 9-10 September 2017, Patna
16. Eye Banking Session IV, Cornea and Eye Banking Conference 9th Annual Meeting of Eye Bank Association of India in collaboration with Patna Ophthalmological Society, 9-10 September 2017, Patna
17. Surgeon Training Programmes—New insight and Opportunities, Cornea and Eye Banking Conference 9th Annual Meeting of Eye Bank Association of India in collaboration with Patna Ophthalmological Society, 9-10 September 2017, Patna
18. Eye Banking Session VI, Cornea and Eye Banking Conference 9th Annual Meeting of Eye Bank Association of India in collaboration with Patna Ophthalmological Society, 9-10 September 2017, Patna
19. Keynote Address—THOTA and NOTTO—A Cornea and Eye Banking Conference 9th Annual Meeting of Eye Bank Association of India in collaboration with Patna Ophthalmological Society, 9-10 September 2017, Patna
20. Advantages of precut tissue for lamellar grafting, Cornea and Eye Banking Conference 9th Annual Meeting of Eye Bank Association of India in collaboration with Patna Ophthalmological Society, 9-10 September 2017, Patna
21. Speaker, Angiogenesis Club CME, 23-24 September 2017, Bengaluru, Karnataka
22. Guest Faculty, First Sight Ready Conference, 5-7 October 2017, New Delhi
23. AAPOS Strabismus Symposium: “Management of Monocular Elevation Deficit, APSPS and HKPOS Joint Conference, 11-15 October 2017, Shanghai, China and Hong Kong
24. Conjunctivitis in Children, Pediatric Cornea and External Disease/Refractive Surgery Symposium, APSPS and HKPOS Joint Conference, 11-15 October 2017, Shanghai, China and Hong Kong
25. Understanding the Ocular Surface Demystifying the use of conventional tear substitutes, ‘DRISHTI 2017’, the 44th Annual Conference of Kerala Society of Ophthalmic Surgeons 2016-2017 (KSOS), 25 November 2017, Kollam, Kerala
26. Tips and Tricks in controlling Ocular Surface Disorders, ‘DRISHTI 2017’, The 44th Annual Conference of Kerala Society of Ophthalmic Surgeons 2016-2017 (KSOS), 25 November 2017, Kollam, Kerala
27. Debate: In severe fungal corneal ulcer with ring infiltrate-I will do intrastromal injection and conservative treatment, ‘DRISHTI 2017’, the 44th Annual Conference of Kerala Society of Ophthalmic Surgeons 2016-2017 (KSOS), 25 November 2017, Kollam, Kerala
28. Eliminating corneal blindness: Dream or Reality, ‘DRISHTI 2017’, the 44th Annual Conference of Kerala Society of Ophthalmic Surgeons 2016-17 (KSOS), 25 November 2017, Kollam, Kerala
29. Management of Pseudophakia—A Panelist, 2nd Annual Conference Women Ophthalmologists Society, 26 November 2017, Jaipur
30. Complexities of Pediatric cornea revisited, Joint QOIC and DOS Conference 3rd Qassimi Ophthalmic International Conference, 4-6 January 2018, Dubai-UAE
31. Guest Faculty, Meeting of Indian National Science Academy (INSA), 05 February 2018, New Delhi
32. Restoring Vision in children from an anterior segment perspective, Mumbai Cornea Club Meeting, 11 February 2018, Mumbai
33. Chemical Burns—How, what and then what? 76th Annual Conference of All India Ophthalmological Society (AIOS) Conference 2018, 22-25 February 2018, Coimbatore, Tamil Nadu
34. Nutrition and Dry Eye, 76th Annual Conference of All India Ophthalmological Society (AIOS) Conference 2018, 22-25 February 2018, Coimbatore, Tamil Nadu
35. Dark side of the moon in Dry eye Update: Courage Under Fire: Tackling Ophthalmic Emergencies! (22 February 2018), 76th Annual Conference of All India Ophthalmological Society (AIOS) Conference 2018, 22-25 February 2018, Coimbatore, Tamil Nadu
36. Handling Disabilities, Senitization and Practical know how, CMET Workshop 2018, 7 March 2018, New Delhi
37. Panel of Experts, National Conference on Down syndrome, 26 March 2018, New Delhi

S.K. Khokhar

1. Pediatric cataracts-surgical pearls, 22nd Congress of Chinese Ophthalmological Society, 13-17 September 2017, Fuzhou, China
2. Pediatric cataract in difficult situation, 26th Annual Congress of the College of Ophthalmologists of Sri Lanka, 28 September-1 October 2017, Colombo, Sri Lanka
3. Difficult cases in pediatric cataract surgery, Inaugural APSPOS-HKPOC Congress by American Association for Pediatric Ophthalmology and Strabismus (AAPOS), 11-15 October 2017, Shanghai, Hong Kong
4. Biometric Changes in Indian Pediatric Cataract and Postoperative Refractive Status, 121st Annual meeting of the American Academy of Ophthalmology, 10-14 November 2017, New Orleans, Louisiana, USA
5. UBM in unilateral pediatric cataracts, 121st Annual Meeting of the American Academy of Ophthalmology, 10-14 November 2017, New Orleans, Louisiana, USA
6. Moderator, Cataract Session, International DOS (Joint Meeting of QOIC and DOS), 4-7 January 2018, Dubai, UAE
7. Paediatric Cataracts, Pediatric Cataract in difficult situation, Midterm Conference SPOSI, 20-21 May 2017, Angamaly, Kochi, Kerala
8. Pediatric Cataract in difficult situation, IDOS "Ophthalmology Tomorrow" Conference, 3-4 June 2017, Indore, MP
9. Live surgery—Pediatric cataract, IDOS "Ophthalmology Tomorrow" Conference, 3-4 June 2017, Indore, MP
10. Pediatric Cataracts in different cases, AIOS PG Teaching Program, 14-16 July 2017, New Delhi
11. Phaco emulsification in Uveitic Eyes, Ophthaquest 2017, 22-23 July 2017, New Delhi
12. Panelist—Astigmatism correction with cataract surgery (other than torics), Ophthaquest 2017, 22-23 July 2017, New Delhi
13. Bimanual SMILE Procedure as chairman and Performed Live Surgery—ICL (TORIC), IOL (TORIC), Annual Conference of Indian Society of Cornea and Kerato-Refractive Surgeons, 5-6 August 2017, New Delhi
14. Panelist: Premium IOL pointers, Annual Conference of Intraocular Implant and Refractive Society, 23-24 September 2017, New Delhi, India
15. Refractive surgery, Annual Conference of Intraocular Implant and Refractive Society, 23-24 September 2017, New Delhi, India
16. Refractive surgery reloaded, Annual Conference of Intraocular Implant and Refractive Society, 23-24 September 2017, New Delhi, India
17. Complications with SMILE how to handle them, Annual Conference of Intraocular Implant and Refractive Society, 23-24 September 2017, New Delhi, India
18. Session chaired on "Live surgery—Cataract Strabismus", 4th World Congress of Paediatric Ophthalmology and Strabismus, 1-3 December 2017, Hyderabad
19. Joint DOS-SPOSI International Congress, 9-10 December 2017, Lodhi Road, New Delhi
20. 76th Annual Conference of All India Ophthalmological Society 2018, 22-25 February 2018, Coimbatore

Dilip R. Shende

1. Management of CAD patients; Pacemakers and ICD care during eye surgery, 4th Ophthalmic Forum of the India Society of Anesthesiologists Conference, 2-3 September 2017, Hyderabad, Telangana
2. How I do it-Pain Relief following TKR, 6th International Conference on Pain Management organized by the Society for Ultrasound in Anaesthesia and Goa Pain Clinic, 6-10 September 2017, Goa
3. Coordinator and faculty for a day Workshop on Ultra Sound Guided (USG) blocks at Bhopal, 31st Madhya Pradesh Chapter of ISACON Workshop (ISA CON MP-2017), 30 September-2 October 2017, Bhopal, Madhya Pradesh
4. Three Guest Lectures at CME, 31st Madhya Pradesh Chapter of ISACON Workshop (ISA CON MP 2017), 30 September-2 October 2017, Bhopal, Madhya Pradesh
5. Ultra Sound Guided Central Venous Cannulations, 31st Madhya Pradesh Chapter of ISACON Workshop (ISA CON MP 2017), 30 September-2 October 2017, Bhopal, Madhya Pradesh
6. Ultra Sound Guided Lower Extremity blocks, 31st Madhya Pradesh Chapter of ISACON Workshop (ISA CON MP 2017), 30 September-2 October 2017, Bhopal, Madhya Pradesh
7. Ultra Sound Guided Abdominal Truncal Blocks, 31st Madhya Pradesh Chapter of ISACON Workshop (ISA CON MP 2017), 30 September-2 October 2017, Bhopal, Madhya Pradesh

8. Role of Target Controlled Infusion (TCI) in Pediatric Anaesthesia, Indian Association of Paediatric Anaesthesiologists 2018 (IAPA 2018), 10-11 February 2018, Hyderabad, Telangana
9. Pain relief after total knee replacement, 8th South Asian Regional Societies (SARPS) Congress 2018, 24-25 February 2018, Dhaka, Bangladesh
10. Anaesthesia for Retinopathy of Prematurity, Indian Association of Paediatric Anaesthesiologists 2018 (IAPA 2018), 10-11 February 2018, Hyderabad, Telangana
11. Pain relief after total knee replacement, 8th South Asian Regional Societies (SARPS) Congress 2018, 24-25 February 2018, Dhaka, Bangladesh

M.S. Bajaj

1. Lacrimal Trephination for Canalicular Blocks, All India Ophthalmological Society Annual Conference, 23 February 2018, Coimbatore
2. Levator Resection through Conjunctival Approach, All India Ophthalmological Society Annual Conference, 23 February 2018, Coimbatore
3. Innovations in Ptosis Surgery, I-DOS Conference, 5 January 2018, Dubai

Raj Pal

1. ROP workshop as a guest speaker, VRSI Conference, 30 November-3 December 2017, Odisha
2. Role of anti-VEGF in Retinopathy of prematurity, Annual Conference of ACOIN, 8-10 September 2017, South Goa
3. Retinopathy of Prematurity, Health Talk, 20 July 2017, New Delhi
4. Refractive errors, Health Talk, 23 November 2017, New Delhi
5. Guest Speaker, ROP Workshop, 1-2 December 2017, Cuttack
6. Eye Disease awareness, Health Talk, January 2018, New Delhi

Seema Sen

1. Mimics of Retinoblastoma, 66th Annual Conference of Indian Association of Pathologist and Microbiologist (APCON 2017), 8 December 2017, Hyderabad

Seema Kashyap

1. Cytology in Ocular Oncology, DOSCON Conf 2017, 7 April 2017, New Delhi
2. Pathology of intraocular tumours, Oculoplasty and Ocular Oncology Workshop, 3 December 2017, New Delhi

Namrata Sharma

1. DALK Masterclass Beyond Biog Bubble: Femtosecond DALK, Intraoperative OCT Guided DALK, KERACON 2017—5th National Meeting of Cornea Society of India and Executive Committee Meeting of E.B.A.I., 15-17 December 2017, Hyderabad
2. G N Rao felicitation Beyond Biog Bubble: Femtosecond DALK, Intraoperative OCT Guided DALK, KERACON 2017—5th National Meeting of Cornea Society of India and Executive Committee Meeting of E.B.A.I., 15-17 December 2017, Hyderabad
3. Refractive Surgery Course Case—Recalcitrant epithelial in growth after lasik, KERACON 2017—5th National Meeting of Cornea Society of India and Executive Committee Meeting of E.B.A.I., 15-17 December 2017, Hyderabad
4. DMEK Wet Lab-Instructor, KERACON 2017—5th National Meeting of Cornea Society of India and Executive Committee Meeting of E.B.A.I., 15-17 December 2017, Hyderabad
5. EBAI—Executive meeting, KERACON 2017—5th National Meeting of Cornea Society of India and Executive Committee Meeting of E.B.A.I., 15-17 December 2017, Hyderabad
6. Infections - **Panelist**, KERACON 2017—5th National Meeting of Cornea Society of India and Executive Committee Meeting of E.B.A.I., 15-17 December 2017, Hyderabad
7. Asia Cornea Society Session- Intraoperative OCT guided Corneal Surgeries, KERACON 2017—5th National Meeting of Cornea Society of India and Executive Committee Meeting of E.B.A.I., 15-17 December 2017, Hyderabad
8. Cell Biology—To Do or Not to Do: Limbal Cultivation Vs SLET, KERACON 2017—5th National Meeting of Cornea Society of India and Executive Committee Meeting of E.B.A.I., 15-17 December 2017, Hyderabad

9. Executive meeting of Cornea Society of India, KERACON 2017—5th National Meeting of Cornea Society of India and Executive Committee Meeting of E.B.A.I., 15-17 December 2017, Hyderabad
10. Ocular Surface II-Panelist, KERACON 2017—5th National Meeting of Cornea Society of India and Executive Committee Meeting of E.B.A.I., 15-17 December 2017, Hyderabad
11. Eye Banking session status of eye banking in India, KERACON 2017—5th National Meeting of Cornea Society of India and Executive Committee Meeting of E.B.A.I., 15-17 December 2017, Hyderabad
12. Keracon Film Challenge 2017 Team: Kerato Restorers (Punjab Dabbangs)—Team Leader, KERACON 2017—5th National Meeting of Cornea Society of India and Executive Committee Meeting of E.B.A.I., 15-17 December 2017, Hyderabad
13. Advances in Ophthalmology—Intraop OCT guided segment surgeries, COS Conference organized by the Maharashtra Ophthalmological Society, 14 October 2017, Pune
14. Game of Thrones—Refractive Surgery, COS Conference organized by the Maharashtra Ophthalmological Society, 14 October 2017, Pune
15. Cornea Symposium—Chairman, COS Conference organized by the Maharashtra Ophthalmological Society, 14 October 2017, Pune
16. Infective Keratitis (Instruction course)—Managing drug resistant bugs—Bacterial and Fungal, COS Conference organized by the Maharashtra Ophthalmological Society, 14 October 2017, Pune
17. Optimizing DSEK Results in Difficult Situations (Instruction Course)—Pediatric DSEK, COS Conference organized by the Maharashtra Ophthalmological Society, 14 October 2017, Pune
18. A to Z of Mucous Membrane Grafts: New Graft on Horizon—Chairman, COS Conference organized by the Maharashtra Ophthalmological Society, 14 October 2017, Pune
19. The path forward in cataract and refractive surgery—Phacomeulsification in corneal opacity, Intraocular Implant and Refractive Society of India (IIRSI) 2017, 8-9 July 2017, Chennai
20. Co-convenor: Live Surgical—Phacomeulsification in corneal opacity, Intraocular Implant and Refractive Society of India (IIRSI) 2017, 8-9 July 2017, Chennai
21. Convenor: The Grand Ophthalmic (Debate ISCKRS)—A Case of severe fungal keratitis with large and dense infiltrate with hypopyon.+ Intrastromalvoriconazole, Intraocular Implant and Refractive Society of India (IIRSI) 2017, 8-9 July 2017, Chennai
22. Film Festival Award Show-Judge, Intraocular Implant and Refractive Society of India (IIRSI) 2017, 8-9 July 2017, Chennai
23. Ophthalmic Premier League—20/20 A team video competition on managing cataract complications—Appasamy Team—Chennai Capsules (Captain), Intraocular Implant and Refractive Society of India (IIRSI) 2017, 8-9 July 2017, Chennai
24. WOS Session—Intraoperative OCT Guider Anterior Segment Surgeries, Intraocular Implant and Refractive Society of India (IIRSI) 2017, 8-9 July 2017, Chennai
25. AIOS Executive meetings, 76th Annual Conference of All India Ophthalmological Society 2018, 21 February 2018, Coimbatore
26. Overview of Penetrating Keratoplasty and Lamellar Corneal Surgeries (Video-assisted, 76th Annual Conference of All India Ophthalmological Society 2018, 21 February 2018, Coimbatore
27. Bacterial Keratitis: Clinical diagnosis, microbiological investigations and antimicrobial therapy, 76th Annual Conference of All India Ophthalmological Society 2018, 22 February 2018, Coimbatore
28. Case based discussion/Atypical cases, 76th Annual Conference of All India Ophthalmological Society 2018, 22 February 2018, Coimbatore
29. Management of ocular surface and corneal endothelial pathologies with cataract, 76th Annual Conference of All India Ophthalmological Society 2018, 22 February 2018, Coimbatore
30. Doc Plexes Interview, 76th Annual Conference of All India Ophthalmological Society 2018, 22 February 2018, Coimbatore
31. Endothelial Keratoplasty: DSEK, DSAEK and DMEK—Made Simple, Donor insertion—Different techniques in DSAEK: 76th Annual Conference of All India Ophthalmological Society 2018, 22 February 2018, Coimbatore
32. Honoring Our International Heroes (co-convenors), Awarded “International Scholar Award at AAO 2017”, 22 February 2018, Coimbatore
33. Cornea-I Evaluation of Cross-Linked Do-nor Corneas in therapeutic Keratoplasty in Cases of Fungal Keratitis. (Paper 2), 76th Annual Conference of All India Ophthalmological Society 2018, 22 February 2018, Coimbatore

34. Cornea-II (Paper 20) Spectral Domain Anterior segment Optical Coherence Tomography (ASOCT) in Fungal Keratitis, 76th Annual Conference of All India Ophthalmological Society 2018, 22 February 2018, Coimbatore
35. Controversies in the management of corneal infections Voriconazole v/s natamycin in the management of fungal keratitis, 76th Annual Conference of All India Ophthalmological Society 2018, 22 February 2018, Coimbatore
36. Convenor: ISCKRS Handling Complications in Corneal and Refractive Procedure, 76th Annual Conference of All India Ophthalmological Society 2018, 22 February 2018, Coimbatore
37. WALKATHON, 76th Annual Conference of All India Ophthalmological Society 2018, 23 February 2018, Coimbatore
38. Egyptian Ophthalmological Society (EOS), 76th Annual Conference of All India Ophthalmological Society 2018, 23 February 2018, Coimbatore
39. **Convenor:** Breakfast Classes—Sub Speciality Capsules, 23 February 2018, Coimbatore
40. Ophthalmic Debate—Cornea Non Resolving Fungal Keratitis—Intrastromal Voriconazole, 76th Annual Conference of All India Ophthalmological Society 2018, 23 February 2018, Coimbatore
41. Co-Instructor Phacoemulsification in challenging situations Talk Age of Ocular Surface and Corneal endothelial pathologies, 76th Annual Conference of All India Ophthalmological Society 2018, 23 February 2018, Coimbatore
42. Convenor: EBAI Session in AIOC 2018 Expanding Horizons for Corneal transplantation in India, 76th Annual Conference of All India Ophthalmological Society 2018, 23 February 2018, Coimbatore
43. Ophthalmic Debate —“The big standoff—Just a minute” Refractive Surgery Debate Myope -2.5 DS, -3.5 D Cyl at 180, CCT 550 (Femto Lasik), 76th Annual Conference of All India Ophthalmological Society 2018, 23 February 2018, Coimbatore
44. JUDGE: International Symposia -Top Guns (AIOS-ROS Session), 76th Annual Conference of All India Ophthalmological Society 2018, 23 February 2018, Coimbatore
45. Panelist: Current Dilemmas In Present Day Practice, 76th Annual Conference of All India Ophthalmological Society 2018, 23 February 2018, Coimbatore
46. Co-Instructor: Controversies in the management of corneal infections Voriconazole v/s natamycin in the management of fungal keratitis, 76th Annual Conference of All India Ophthalmological Society 2018, 23 February 2018, Coimbatore
47. Co-Convenor: Innovations Top Innovations of 2017, 76th Annual Conference of All India Ophthalmological Society 2018, 23 February 2018, Coimbatore
48. Principles of Cataract Surgery in Compromised Corneas—Heroic Deeds—Managing a case of Cataract and compromised endothelium (Fuch’s dystrophy), 76th Annual Conference of All India Ophthalmological Society 2018, 23 February 2018, Coimbatore
49. Idealistic vs realistic: Status of Postgraduate training in Ophthalmology in India—Role of AIOS in improvement of PG Teaching in India: Where we Are? 76th Annual Conference of All India Ophthalmological Society 2018, 23 February 2018, Coimbatore
50. C S Reshmi Video Session 2018 (VF-129) Double Posterior Capsule—A unique case, 76th Annual Conference of All India Ophthalmological Society 2018, 24 February 2018, Coimbatore
51. Co-convenor top innovations of 2017, 76th Annual Conference of All India Ophthalmological Society 2018, 24 February 2018, Coimbatore
52. SN Alumni social meet cocktails and dinner, 76th Annual Conference of All India Ophthalmological Society 2018, 24 February 2018, Coimbatore
53. Pterygium—Management Strategies in 2018 Management of Double Headed Pterygia, 76th Annual Conference of All India Ophthalmological Society 2018, 25 February 2018, Coimbatore
54. Valedictory Session, 76th Annual Conference of All India Ophthalmological Society 2018, 25 February 2018, Coimbatore
55. Exotic Corneal Infections Cornea, External Disease, 121st Annual Conference of American Academy of Ophthalmology (AAO 2017), 12 November 2017, USA
56. SYM17- Infections, Corneas and Contact Lenses Strategy for treating bacterial and fungal keratitis (Including Intrastromal Injections), 121st Annual Conference of American Academy of Ophthalmology (AAO 2017), 12 November 2017, USA
57. Peripheral Ulcerative Keratitis: Diagnosis and Management, 121st Annual Conference of American Academy of Ophthalmology (AAO 2017), 12 November 2017, USA
58. Simple Limbal Epithelial Transplantation Made Easy, 121st Annual Conference of American Academy of Ophthalmology (AAO 2017), 13 November 2017, USA

59. Complex Corneal Clinics: Logical Solutions, 121st Annual Conference of American Academy of Ophthalmology (AAO 2017), 13 November 2017, USA
60. Diagnosis and Management of Corneal Perforation, 121st Annual Conference of American Academy of Ophthalmology (AAO 2017), 12 November 2017, USA
61. Stevens-Johnson Syndrome: A Strategic, Systematic and Simplified Approach, 121st Annual Conference of American Academy of Ophthalmology (AAO 2017), 14 November 2017, USA
62. Paradigm Shift in Management of Microbial Keratitis, 121st Annual Conference of American Academy of Ophthalmology (AAO 2017), 14 November 2017, USA
63. Fungal Keratitis: Innovations in Diagnosis and Treatment, 121st Annual Conference of American Academy of Ophthalmology (AAO 2017), 14 November 2017, USA

Neelam Pushker

1. Orbital trauma—Interesting case scenarios, DOSCON—Ophthalmic Spectrum 2017, April 2017, New Delhi

Praveen Vashist

1. Study Designs, 68th Annual DOS Conference DOSCON 2017, 8-9 April 2017, New Delhi
2. Key note address—National Blindness Survey, ACOIN Session at EZIOC Midcon 2017 Conference, 22 April 2017, Imphal, Manipur
3. Burden of cataract blindness and how to assess cataract blindness elimination, 13th Annual conference VISION 2020: The Right to Sight-India, 3-4 June 2017, Raipur
4. Glaucoma in India (Epidemiology, Government Incentives and Rehabilitation of Blind), Glaucoma—Training of Trainers Program, 1 August 2017, New Delhi
5. NPCB National Blindness Survey Rapid Assessment of Avoidable Blindness 2015-17, 8th Annual Conference of ACOIN and International Assembly of Community Ophthalmologists, 9 September 2017, Goa
6. Recent NPCB initiatives for control of cataract blindness, 8th Annual Conference of ACOIN and International Assembly of Community Ophthalmologists, 9 September 2017, Goa
7. As key note speaker “Quality, Equity and newer initiatives in community ophthalmology”, LION’s Sight first Conclave, 15 October 2017, New Delhi
8. Objectives of Development of National Action Plan for Achieving Universal Eye Health in India, WHO-SEARO sponsored workshop, 9 and 10 November 2017, New Delhi
9. Future plan for PACD Practices in SEARO Countries, WHO-SEARO sponsored workshop entitled “Best Practices for PACD in SE Asia Program, 19 December 2017, New Delhi
10. Action Plan for surveillance of Trachoma as per WHO norms, NPCB-Trachoma Workshop, 11 January 2018, New Delhi
11. Ocular morbidity profile among visually impaired children in Delhi—A community-based study, 76th Annual Conference of All India Ophthalmological Society (AIOS), 2018, 22-25 February 2018, Coimbatore
12. Definition of blindness under NPCB-do we need to revise it in IJO session, 76th Annual Conference of All India Ophthalmological Society (AIOS) 2018, 22-25 February 2018, Coimbatore

Jasbir Kaur

1. Stem Cells from Bench to Bedside: Roadblocks, International Conference on Clinical Research (INCCR-2017), 8-9 September 2017, Faridkot

Renu Sinha

1. Ophthalmic consideration in pediatric populations, 14th Asian Society of Pediatric Anaesthesiologists “ASPA” 2017, 4 June 2017, Mumbai
2. The silence of Retinopathy of prematurity, 4th OFISACON 2017, 2 September 2017, Hyderabad
3. How I do it: TAP block, 6th ICPM, International Conference on Pain Management, 6 September 2017, Goa
4. Ultrasound: Basic principle and knobology, 27th Annual Conference Research Society of Anaesthesiology and Clinical Pharmacology 2017, 14 September 2017, Kanpur
5. Upper Limb Block: Surface and sonoanatomy, 27th Annual Conference Research Society of Anaesthesiology and Clinical Pharmacology 2017, 15 September 2017, Kanpur
6. Alternative methods of intubation, 27th, ISACON East Zone 2017 and 30th ISACON Bihar-Jharkhand 2017, 15 October 2017, Jamshedpur
7. Anaesthesia for paediatric ophthalmic surgery, 65th ISACON 2017, 27 November 2017, Kolkata

M. Vanathi

1. Concerns in Pediatric Keratoplasty, DOSCON 2017 Ophthalmic Spectrum: 68th Annual Delhi Ophthalmological Society Conference, 7-9 April 2017, New Delhi
2. Limbal Stem Cell Transplantation, R P C Golden Jubilee Celebrations, 10-12 March, New Delhi
3. DSAEK techniques—Pearls for beginners, Indian Intraocular Implant and Refractive Society IIRSI 2017, 9 July 2017, Chennai, Tamil Nadu
4. Corneal Patches and Matches, ISCKRS MEET 2017—Cornea and Keratorefractive: Newer Paradigms—Annual Conference of Indian Society of Cornea and Kerato-Refractive Surgeons, 7-8 August 2017, New Delhi
5. Approach to Infectious Keratitis, 6th Annual Conference of Varanasi Ophthalmological Society—VOSCON 2017, 3 September 2017, Varanasi
6. Tips and Tricks of DSEK, TRINITY 2017: National Cataract and Refractive Conclave, 14-15 October 2017, Pallakad, Kerala
7. Biometry—Past, Present and Future, TRINITY 2017: National Cataract and Refractive Conclave, 14-15 October 2017, Pallakad, Kerala
8. LRCS—Benefits and Disadvantages, TRINITY 2017: National Cataract and Refractive Conclave, 14-15 October 2017, Pallakad, Kerala
9. Biometry Update, Indian Intraocular Implant and Refractive Society IIRSI 2017, 24 September 2017, New Delhi
10. Post Keratoplasty Astigmatism, Indian Intraocular Implant and Refractive Society IIRSI 2017, 24 September 2017, New Delhi
11. Acquired corneal opacities, Pediatric Cornea and Anterior Segment Workshop, 29-30 November 2017, Hyderabad
12. Congenital Corneal Dermoid: Mesodermal Dysgenesis? Pediatric Cornea and Anterior Segment Workshop, 29-30 November 2017, Hyderabad
13. Imaging in Anterior segment abnormalities, Pediatric Cornea and Anterior Segment Workshop, 29-30 November 2017, Hyderabad
14. Acute graft rejection, 10th DOS Teaching Programme, 19 November 2017, New Delhi
15. Overview and concerns in Pediatric keratoplasty, 121st Annual Conference of American Academy of Ophthalmology (AAO 2017), 10-14 November 2017, New Orleans, USA
16. Role of Therapeutic Keratoplasty in fungal keratitis, 121st Annual Conference of American Academy of Ophthalmology (AAO 2017), 10-14 November 2017, New Orleans, USA
17. Approach to infectious keratitis, 11th Annual Conference of Kolkata Academy of Ophthalmology; KAO Orchestra, 3 December 2017, Kolkata
18. Keratoconus: Management Enigma, 11th Annual Conference of Kolkata Academy of Ophthalmology; KAO Orchestra, 3 December 2017, Kolkata
19. Keratoconus management—Preferred practice pattern, WinterDOS 2017—Joint DOS—SPOSI International Congress 2017, 10 December 2017, New Delhi
20. Just a Minute Session, Keracon 2017, 17 December 2017, Hyderabad
21. Wetlab Diagnostics @ AIOC 2018, 76th Annual Conference of All India Ophthalmological Society 2018, 22-24 February 2018, Coimbatore
22. ASOCT changes in anterior chamber angle structures after ICL—V4c implantation, 76th Annual Conference of All India Ophthalmological Society 2018, 22 February 2018, Coimbatore
23. OSD—Confusions, Concerns and changing paradigms Presentation 1: How to choose artificial tears? Presentation 2: Cyclosporin—Is it worth its salt? 76th Annual Conference of All India Ophthalmological Society 2018, 22 February 2018, Coimbatore
24. Corneal changes in Parkinson's Disease patients on long term amantadine therapy, 76th Annual Conference of All India Ophthalmological Society 2018, 21 February 2018, Coimbatore
25. Ophthalmic Debate, 76th Annual Conference of All India Ophthalmological Society 2018, 22 February 2018, Coimbatore
26. VAST on corneal theatre masterclass—Power capsule on pearls and pitfalls, 76th Annual Conference of All India Ophthalmological Society 2018, 22 February 2018, Coimbatore
27. Diagnostics in cornea II (advanced)—Case based approach to common corneal diagnostics, 76th Annual Conference of All India Ophthalmological Society 2018, 22 February 2018, Coimbatore
28. Court martial in ophthalmology (Young Turks on Trial)— PK with aniridia IOL, 76th Annual Conference of All India Ophthalmological Society 2018, 24 February 2018, Coimbatore

29. Pediatric corneal disorders and surgical management—Comprehensive overview, Topic presented: Pediatric Keratoplasty—Overview and concerns, 76th Annual Conference of All India Ophthalmological Society 2018, 24 February 2018, Coimbatore
30. Pediatric Keratoplasty—Overview and concerns, 12th Foundation Day Celebrations PGI Chandigarh, 18 March 2018, Chandigarh

Parijat Chandra

1. Surgical challenges in Stage 4 ROP, Annual Conference of DOS, 7-9 April 2017, Delhi
2. Pediatric retinal disorders, diagnosis and options for treatment, Annual Conference of DOS, 7-9 April 2017, Delhi
3. ROP: Selecting the right cases to operate, iROP Meeting, 22 July 2017, Pune
4. Current strategy of ROP management, DOS Monthly Meeting, 30 July 2017, Delhi
5. Retinopathy of Prematurity—Current Challenges, International Assembly of Community Ophthalmologists and ACOIN Annual Conference, 8-10 September 2017, Goa
6. Current concepts in screening and management of ROP, Indian Intraocular Implant and Refractive Society IIRSI 2017, 23-24 September 2017, Delhi
7. Surgical management of advanced ROP, Joint Winter DOS- SPOSI International Congress, 9-10 December 2017, Delhi
8. Pediatric Retinal Disorders, I Focus 2018 (National PG educational program), 21-28 January 2018, Delhi
9. Screening for ROP—Guidelines, Annual Conference of 76th Annual Conference of All India Ophthalmological Society 2018 (AIOS), 22-25 February 2018, Coimbatore
10. ROP screening tips and methodology, 76th Annual Conference of All India Ophthalmological Society 2018 (AIOS), 22-25 February 2018, Coimbatore

Senjam Suraj Singh

1. New definition of Blindness, EZIOC Midcon-2017 Conference, 22-23 April 2017, RIMS Imphal

Noopur Gupta

1. Corneal Donation, Organ Retrieval Banking Organization, AIIMS, 3 May 2017, New Delhi
2. National Trachoma Prevalence Survey, Vision 2020-INDIA's 13 Annual Conference: Inclusive Eye Care Services, 3 and 4 June 2017, Raipur
3. Effect of ultraviolet on dry eye and pterygium, Vision 2020-INDIA's 13th Annual Conference: Inclusive Eye Care Services, 3 and 4 June 2017, Raipur
4. Infrastructure need for cataract blindness elimination—Primary, Secondary and Tertiary Level? Vision 2020-INDIA's 13th Annual Conference: Inclusive Eye Care Services, 3 and 4 June 2017, Raipur
5. Burden of Corneal Blindness in India, ISCKRS Meet 2017, 6 August 2017, New Delhi
6. Corneal Donation, Organ Retrieval Banking Organization, AIIMS, 7 September 2017, New Delhi
7. Burden of Corneal Blindness in India, 9th Annual Meeting of Eye Bank Association of India, 9 September 2017, Patna
8. Lamellar Keratoplasty: Role of Intraoperative OCT, Indian Intraocular Implant and Refractive Society IIRSI 2017, 23-24 September 2017, New Delhi
9. ICL workup and nuances, Indian Intraocular Implant and Refractive Society IIRSI 2017, 23-24 September 2017, New Delhi
10. Small Corneal Perforations, RPC Cornea Workshop, 22 October 2017, New Delhi
11. Corneal Donation, Organ Retrieval Banking Organization, AIIMS, 14 November 2017, New Delhi
12. Surgery for Trachoma Control, NPCB and VI Workshop on Action Plan for Surveillance of Trachoma as Per WHO Norms, 11 January 2018, New Delhi
13. Iris Prolapse and its Management, RPC Phacoemulsification and Refractive surgery workshop, 14 January 2018, New Delhi
14. Digital World and the eyes, AIIMS Optometry Explorer 3, 22 January 2018, New Delhi
15. Corneal Donation, Organ Retrieval Banking Organization, AIIMS, 20 March 2018, New Delhi

Rachna Meel

1. Surgical management of OSSN, Oculoplasty and Ocular Oncology Workshop, 3 December 17, New Delhi
2. Entropion and ectropion surgery, 10th DOS Teaching Programme, 18-19 November 2017, New Delhi

Vinod Kumar Agarwal

1. Novel auto-fluorescence findings in Stargardt macular dystrophy using ultra-wide field imaging, 11th Asia-Pacific Vitreo-retina Society (APVRS), December 2017, Malaysia
2. Ultra-wide field imaging in choroidal dystrophies. E poster presentation in APVRS 2017, Kuala Lumpur, Malaysia, December 2017, 11th Asia-Pacific Vitreo-Retina Society (APVRS), December 2017, Malaysia
3. Submacular mobile pearl, 11th Asia-Pacific Vitreo-retina Society (APVRS), December 2017, Malaysia
4. Spectral Domain Optical Coherence Tomography (SD-OCT) changes following vitrectomy for long standing pre-macular haemorrhage, Floretina 2017, April 2017, Italy
5. Hole-door sign: A novel Intraoperative Optical Coherence Tomography (IOCT) feature predicting postoperative macular hole closure, Floretina 2017, 27-30 April 2017, Italy
6. Ultra Wide Field (UWF) imaging of Familial Exudative Vitreoretinopathy (FEVR), Floretina 2017, 27-30 April 2017, Italy
7. Wide field imaging and ICG: Unforeseen anomalies, 76th Annual Conference of All India Ophthalmological Society 2018 (AIOS), February 2018, Tamil Nadu
8. Advances in retinal imaging, 35th Annual Conference of Gujarat Orthopedics Association-GOACON 2017, November 2017, Uttar Pradesh
9. Update on macular surgery, 35th Annual Conference of Gujarat Orthopedics Association-GOACON 2017, November 2017, Uttar Pradesh
10. Trauma: Salvage Or Perish, Annual Conference of 76th Annual Conference of All India Ophthalmological Society 2018, February 2018, Tamil Nadu
11. During Surgery: “oops” and then “uh oh” What can I do now? Moments for Quick Thinking, Fast Action, Annual Conference of 76th Annual Conference of All India Ophthalmological Society 2018, February 2018, Tamil Nadu
12. Autofluorescence patterns in Stargardt macular dystrophy using Ultra-wide field imaging, Annual Conference of Vitreo Retina Society of India (VRSI) 2017, November 2017, Orissa
13. Macular hole with subretinal bleed—to operate or not? Annual Conference of Vitreo Retina Society of India (VRSI) 2017, November 2017, Orissa
14. Macular hole with retinal detachment in a case with Best vitelliform dystrophy, Annual Conference of Vitreo Retina Society of India (VRSI) 2017, November 2017, Orissa
15. Multimodal imaging in uncommon retinal disorders, Retinal Imaging Symposium, September 2017, Kerala
16. Management of giant retinal tear with subretinal nucleus, Retina Summit, July 2017, Tamil Nadu

Rohan Chawla

1. Paper on CHRRPE, Floretina, April 2017, Florence, Italy
2. Presentation on OCT-A, Retina Biryani, May 2017, Chandigarh
3. Diabetic vitrectomy, DOS mid-term, November 2017, Delhi
4. Submacular haemorrhage management, DOS mid-term, November 2017, Delhi
5. Presentation on OCT-A, Retina Workshop, October 2017, AIIMS, Delhi
6. Presentation on OCT, Retina Workshop, October 2017, AIIMS, Delhi
7. Vitreous Amyloidosis, Annual Uveitis Society of India Conference, November 2017, Kolkata
8. OCT-A interpretation, Annual Conference of 76th Annual Conference of All India Ophthalmological Society 2018 (AIOS), February 2018, Coimbatore
9. Non Malignant Uveitis masquerades, Annual Conference of 76th Annual Conference of All India Ophthalmological Society 2018 (AIOS), February 2018, Coimbatore
10. Anti-VEGF in Diabetic Retinopathy, Diabetic Retinopathy CME, March 2018, Aligarh

Swati Phuljhele

1. Cortical Visual Impairment—My experience, CME in Pediatric Ophthalmology—Future Trends, 18 March 2018, New Delhi
2. 2 talks recent advances in amblyopia management, Not just resection but Apt plication too, All India Ophthalmology Conference, 22-25 February 2018, Coimbatore
3. History and Clinical examination, Neuro-Ophthalmology Workshop, 4 February 2018, New Delhi
4. 5 talks, Differentiating true from pseudo-disc oedema, Papilloedema, Cranial nerve palsies, Toxic Optic Neuropathy, OCT in Neuro-Ophthalmology, Chhattisgarh State Ophthalmic Society, 16-17 December 2017, Bilaspur, Chhattisgarh

5. How to act when pupils don't react, Karnataka Ophthalmology Society, 3-5 November 17, Karnataka
6. 2 talks Management of Amblyopia Paralytic strabismus, Strabismus, 20 July 2017, New Delhi

Vivek Gupta

1. Strategies to prevent Myopia—A review of evidence, 68th Annual DOS Conference DOSCON 2017 Ophthalmic Spectrum, 8-9 April 2017, New Delhi, India
2. Phone App for Audit, Glaucoma—Training the Trainers Program, 1-2 August 2017, New Delhi
3. National Trachoma Surveys in India, 8th Annual Conference of ACOIN and International Assembly of Community Ophthalmologists, 9 September 2017, Goa
4. Use of software for monitoring the program for PACD, WHO-SEARO sponsored workshop “Best Practices for PACD in SE Asia Program”, 19 December 2017, New Delhi
5. SAFE Strategy for eliminating Trachoma, NPCB-Trachoma Workshop, 11 January 2018, New Delhi

Nishat Hussain Ahmed

1. How to ensure a sterile OT, Joint DOS-SPOSI International Congress, India Habitat Centre

Shikha Gupta

1. Neovascular Glaucoma: Symposium (Moderator), 28th Annual conference of Glaucoma Society of India-GSI 2017, 15 September 2017, Jaipur
2. Management of Neovascular Glaucoma, 28th Annual Conference of Glaucoma Society of India-GSI 2017, 15 September 2017, Jaipur
3. Trabeculectomy revisited, DOS 2017, 10 April 2017, New Delhi
4. Workup of a glaucoma patient, Glaucoma Workshop, RPC, 2017, 20 August 2018, New Delhi
5. Glaucoma drainage devices: VAST, Glaucoma workshop RPC, 2017, 20 August 2018, New Delhi
6. Secondary Glaucomas, Glaucoma Workshop RPC, 2017, 20 August 2018, New Delhi
7. Patient Responsibilities, Public education lecture, World Glaucoma Week, 2018, 17 March 2018, New Delhi
8. A case of IDS, Squint Workshop RPC, 2017, 23 July 2017, New Delhi
9. Motor examination of squint, Squint Workshop RPC, 2017, 23 July 2017, New Delhi
10. Workup of a case of optic nerve disease, Neuro-ophthalmology RPC, 2018 Workshop, February 2018, New Delhi

Neiwete Lomi

1. Bilateral Acanthamoeba keratitis, Kerashop 2017, 20 August 2017, New Delhi

Dewang Angmo

1. Glaucoma Generics, DOS Annual 2017, 10 April 2017, New Delhi
2. Sensory Examination, Strabismus Workshop, 23 July 2017, Delhi
3. Approach to Esotropia, Strabismus Workshop, 23 July 2017, Delhi
4. Visual Fields and GPA, Training of Trainers Glaucoma, 1-2 August 2017, New Delhi
5. Lasers in Glaucoma, Glaucoma Workshop, 20 August 2017, New Delhi
6. Mediacal management of Glaucoma, Glaucoma Workshop, 20 August 2017, New Delhi
7. Managing complications of glaucoma surgery, Glaucoma Workshop, 20 August 2017, New Delhi
8. Basic mechanism of lasers, 28th Annual Conference of Glaucoma Society of India—GSI 2017, 15 September 2017, Jaipur
9. Evaluation of physical properties and dose equivalency of generic versus branded latanoprost formulations, 28th Annual conference of Glaucoma Society of India-GSI 2017, 16 September 2017, Jaipur
10. Microcatheter surgery in Paediatric Glaucoma, Winter DOS, 9 December 2017, New Delhi
11. DOS Free Paper: Glaucoma, Winter DOS, 9 December 2017, New Delhi
12. PACG Consensus, All India Ophthalmological Society (AIOS), AIOS Meeting, 19 November 2017, New Delhi
13. Best Practices in PACD in SEARO Region, WHO-SEARO, 19 December 2017, New Delhi
14. Visual Fields, District Ophthalmologists Training, 16-17 January 2018, New Delhi
15. Trabeculectomy with low dose Mitomycin C versus trabeculectomy with Ologen and low dose Mitomycin C, All India Ophthalmological Society—AIOS 2018, 22-25 February 2018, Coimbatore

16. Preventing Blindness in Glaucoma—Progression in glaucoma, All India Ophthalmological Society—AIOS 2018, 22-25 February 2018, Coimbatore
17. Nurturing a Trabeculectomy: Focussing on Long Term Success, All India Ophthalmological Society—AIOS 2018, 22-25 February 2018, Coimbatore

Arshad Ayub

1. Perioperative fluid management in trauma, talk, Indian Society of Anaesthesiologist, East Zone Conference, Jamshedpur, 13 October 2017, Jamshedpur
2. USG Guided Regional anaesthesia, workshop, Indian Society of Anaesthesiologist, East Zone Conference, Jamshedpur, 15 October 2017, Jamshedpur
3. USG Guided Regional anaesthesia, workshop, Cadaveric Advanced Ultrasound Guided Regional Anaesthesia, AIIMS, 28 February-1 March 2018, AIIMS
4. Radiological Diagnosis in Ophthalmology, Golden Jubilee Year Workshops: Occuloplasty and Ocular Oncology, 3 December 2017, New Delhi
5. Imaging in Neuro-ophthalmology, Golden Jubilee Year Workshops: Neuro-ophthalmology and Imaging Update, 4 February 2017, New Delhi

Oral Papers/Posters Presented

1. Tewari R, Chandra P, Gupta V, Salunkhe N, Kumawat D. Clinical Features and Management of Glaucoma Following Surgery for Stage 4 Retinopathy of Prematurity, Annual conference of Delhi Ophthalmological Society, 7-9 April 2017, Delhi
2. Kumawat D, Jain S, Chandra P, Kumar V, Kumar A. Rare case of post contusion injury posterior capsular rupture with posterior dislocation of cataractous lens, Annual Conference of Delhi Ophthalmological Society, 7-9 April 2017, Delhi
3. Kumawat D, Jain S, Chandra P, Kumar V, Kumar A. Ophthalmic imaging as an aid to evaluation and management of post contusion capsular injury with posterior dislocation of lens, Annual Conference of Delhi Ophthalmological Society, 7-9 April 2017, Delhi
4. Tewari R, Kumar V, Chandra P, Kumar A. Best vitelliform dystrophy complicated by macular hole associated retinal detachment treated with inverted ILM flap and gas tamponade, Florence Retina Meeting, 27-30 April 2017, Florence, Italy
5. Tewari R, Kumar V, Chandra P, Kumar A. Vomiting induced bleed in proliferative diabetic retinopathy, Florence Retina Meeting, 27-30 April 2017, Florence, Italy
6. Chandra P, Panayal R, Shankar S, Tewari R. Reducing the waiting time of preterm babies in ROP clinic in a tertiary eye care centre, International Forum on Quality and Safety in Health Care, 24-26 August 2017, Kuala Lumpur
7. Kumawat D, Chandra P. Ocular auto-stimulation and its consequences in stage 5 retinopathy of prematurity, 4th World Congress of Pediatric Ophthalmology and Strabismus, 1-3 December 2017, Hyderabad
8. Singh P, Kumar V, Kumar A, Chandra P. Ultrawide field FA Guided Targeted Retinal Photocoagulation in Diabetic Retinopathy, 76th Annual Conference of All India Ophthalmological Society Annual Conference, 22-25 February 2018, Coimbatore
9. Salunke N, Kumawat D, Chandra P, Kumar V. Presentation and visual outcomes of peribulbar block related perforation, 76th Annual Conference of All India Ophthalmological Society Annual Conference, 22-25 February 2018, Coimbatore
10. Kumawat D, Chandra P, Kumar V, Sahay P. Oculodigital phenomenon leading to advanced keratoconus in Retinopathy of Prematurity, 76th Annual Conference of All India Ophthalmological Society Annual Conference, 22-25 February 2018, Coimbatore
11. Shende DR, Ramkumar K. Comparison of Sub-Tenon and peribulbar block for postoperative analgesia in pediatric cataract, 36th Annual ESRA Congress-2017 organized by European Anaesthesia and Pain medicine, 13-16 September 2017, Lugano, Switzerland
12. Ahmed NH, Satpathy G, Sharma N, Tandon R, Titiyal JS. Leading Bacterial Pathogens causing Infective Keratitis and their Antimicrobial Susceptibility in a Tertiary Care Eye Centre from North India, Clinical Infectious Diseases Society of India, National Conference (CIDSCON) 2017, 19 August 2017, Nagpur, Maharashtra
13. Titiyal JS, Karunakaran A, Kaur M, Rathi A, Sharma N, Agarwal A. Evaluation of Cross linked donor corneas in therapeutic keratoplasty in cases of fungal keratitis, Asia Pacific Academy of Ophthalmology (APAO), February 2018, Hong Kong

14. Titiyal JS, Karunakaran A, Kaur M, Rathi A, Sharma N, Agarwal A. Evaluation of cross linked donor corneas in therapeutic keratoplasty in cases of fungal keratitis, American Academy of Ophthalmology—AAO 2017, November 2017, New Orleans
15. Bajaj MS, Pushker N, Kashyap S, Sen S, Meel R. Clinical profile and management of Orbitopalpebral Neurofibromatosis Type 1 patients at a tertiary care centre, European Society of Ophthalmic Plastic and Reconstructive Surgery, 2017, 14-16 September 2017, Stockholm, Sweden
16. Phuljhele Aalok S, Sharma M, Khusiyat S, Dhiman R, Saxena R, Sharma P. Clinical profile of ocular cranial neuropathies at tertiary eye care centre Monocular elevation deficiency: A prospective case series on clinical features and outcomes of surgery, 4th World Strabismus and Pediatric Ophthalmology Congress, 1-3 December 2017, Hyderabad
17. Phuljhele Aalok S, Shameer A, Singh A, Sharma P, Gaur N, Shashni A, Saxena R. Clinical profile of ocular cranial neuropathies at tertiary eye care centre Monocular elevation deficiency: A prospective case series on clinical features and outcomes of surgery, 4th World Strabismus and Pediatric Ophthalmology Congress, 1-3 December 2017, Hyderabad
18. Meel R, Kashyap S. Unusual Presentation of a Common Pediatric Orbital Malignancy Unusual Limbal Masses Paediatric Periorbital Necrotising Fasciitis—Treatment and Outcome, 76th Annual Conference of All India Ophthalmic Society, 22-25 February 2018, Coimbatore
19. Meel R, Sen S, Kashyap S. Unusual Presentation of a Common Pediatric Orbital Malignancy Unusual Limbal Masses Paediatric Periorbital Necrotising Fasciitis—Treatment and Outcome, 76th Annual Conference of All India Ophthalmic Society, 22-25 February 2018, Coimbatore
20. Meel R, Bajaj MS, Pushker N, Manu S. Unusual Presentation of a Common Pediatric Orbital Malignancy Unusual Limbal Masses Paediatric Periorbital Necrotising Fasciitis—Treatment and Outcome, 76th Annual Conference of All India Ophthalmic Society, 22-25 February 2018, Coimbatore
21. Sengupta, Angmo D, Sihota R, Dada T. Trabeculectomy with low dose Mitomycin C versus trabeculectomy with Ologen and low dose Mitomycin C, 76th Annual Conference of All India Ophthalmic Society—AIOS 2018, 22-25 February 2018, Coimbatore
22. Swamy D, Gupta S, Sihota R, Gupta V. Selective Laser Trabeculoplasty in Post Vitreoretinal Surgery Secondary Glaucoma (Post Silicon Oil Removal), 28th Annual Conference of Glaucoma Society of India—GSI 2017, 15 September 2017, Jaipur
23. Gupta S, Selvan H, Sihota R, Gupta V. Familial exudative vitreoretinopathy with glaucoma: Situs inversus of the cup? 28th Annual Conference of Glaucoma Society of India—GSI 2017, 15 September 2017, Jaipur
24. Gupta S, Selvan H, Sihota R, Gupta V. Optic disc morphology change in patients with Juvenile onset open angle glaucoma, 76th Annual Conference of All India Ophthalmic Society—AIOS 2018, 22-25 February 2018, Coimbatore
25. Gupta S, Selvan H, Sihota R, Gupta V. Pediatric iris and lens vascularization, 28th Annual Conference of Glaucoma Society of India—GSI 2017, 15 September 2017, Jaipur
26. Gupta S, Yadav D, Khokhar S, Sihota R, Gupta V. Refractive outcomes of cataract surgery in primary congenital glaucoma, IV World Congress of Paediatric Ophthalmology and Strabismus—WSPOS 2017, 3 December 2017, Hyderabad
27. Singh D, Vanathi M, Tandon R. ASOCT changes in anterior chamber angle structures after ICL-V4c implantation, 76th Annual Conference All India Ophthalmological Society 2018, 22 February 2018, Coimbatore
28. Behera S, Vanathi M, Tandon R. Outcomes of Boston Keratoprosthesis with Modified Titanium Back Plate—Our Experience, 76th Annual Conference All India Ophthalmological Society 2018, 22 February 2018, Coimbatore
29. Vanathi M, Daggamilli S, Tandon R. Corneal changes in Parkinson's Disease patients on long term amantadine therapy, Keracon 2017, 15-17 December 2017, Hyderabad
30. Singh D, Vanathi M, Gupta C, Gupta N, Tandon R. Outcomes of deep anterior lamellar keratoplasty following autologous SLET in pediatric unilateral severe chemical injury, DOSCON 2017, Ophthalmic Spectrum, 7-9 April 2017, Delhi
31. Lata, Kashyap S, Pushkar N, Bakshi S, Sen S, Rizvi MA. Expression pattern of immune checkpoints Programmed Death (PD-1) and Programmed Death Ligand (PD-L1) in Retinoblastoma and its prognosis significance, ESMO Immuno Oncology Congress 2017, 7-10 December 2017, Geneva, Switzerland
32. Obedulla H, Pushker N, Sen S, Meel R. Schwannoma mimicking an external angular Dermoid, 76th Annual Conference All India Ophthalmological Society 2018, 22-25 February 2018, Coimbatore
33. Meel R, Sen S, Pushker N, Kashyap S. Unusual Limbal masses, 76th Annual Conference All India Ophthalmological Society 2018, 22-25 February 2018, Coimbatore

34. Shehazan, Jha J. Annual Models in Cancer Research, Animal Models in Cancer Reseach, 24-25 October 2017, Hyderabad
35. Vashist P, Tandon R, Gupta N, Gupta V, Wadhvani M. Prevalence of cataract and association with sun exposure in rural population in India 76th Annual Conference of All India Ophthalmological Society (AIOS), 2018, 22-25 February 2018, Coimbatore
36. Vashist P, Gupta V, Senjam S, Gupta N, Wadhvani M, Shukla P, Bhardwaj A, Gupta P, Kumar A. National Trachoma Prevalence Survey in India 2015-2017, 76th Annual Conference of All India Ophthalmological Society (AIOS), 2018, 22-25 February 2018, Coimbatore
37. Vashist P, Senjam S, Gupta V, Gupta N, Wadhvani M, Shukla P, Ganger A, Bhardwaj A, Gupta P, Kumar A. National Trachoma Rapid Assessment Survey in India 2015-2017, 76th Annual Conference of All India Ophthalmological Society (AIOS), 2018, 22-25 February 2018, Coimbatore
38. Gupta V, Vashist P, Senjam S, Wadhvani M, Shukla P. Post referral attrition in community based diabetic retinopathy screening program, 76th Annual Conference of All India Ophthalmological Society (AIOS), 2018, 22-25 February 2018, Coimbatore
39. Vashist P, Shukla P, Senjam S, Gupta V, Gupta N. Can ASHAs deliver primary eye care: Lessons from a programme targeting urban vulnerable population, 76th Annual Conference of All India Ophthalmological Society (AIOS), 2018, 22-25 February 2018, Coimbatore
40. Wadhvani M, Vashist P, Senjam S, Gupta V, Saxena R, Tandon R. Prevalence of Childhood Blindness in India, 76th Annual Conference of All India Ophthalmological Society (AIOS), 2018, 22-25 February 2018, Coimbatore
41. Kumar S, Sooraj K, Pushker N, Bajaj MS, Kaur J. Programmed cell death in human retinoblastoma cells treated with carboplatin, International Conference on Clinical Research (INCCR-2017), 8-9 September 2017, Faridkot

RESEARCH

Funded projects

Ongoing

1. CRFB002H2301, RAINBOW Study: A randomized, controlled study evaluating the efficacy and safety of **RA**inbizumb compared with laser therapy for the treatment of **IN**fants **BO**rn prematurely **W**ith retinopathy of prematurity, Rajpal, Novartis Health Care Private Limited, Ongoing, 2017-ongoing, Rs 2.53 lakhs
2. A phase 3 randomized masked controlled trial to assess the safety and efficacy of triamcinolone acetamide injectable suspension for the treatment of macular edema associated with non-infectious uveitis, Pradeep Venkatesh, Clearside Biomedical Inc., Ongoing
3. To study variable gene expression of collagen and associated degradative enzymes present in human vitreous in patients with myopia vs normal population, Shorya Vardhan Azad, AIIMS, 2 years
4. Evaluation of autologous bone marrow derived stem cells in the dry age related macular degeneration-A Comprehensive Study, Atul Kumar, ICMR, 2015-2018, Rs 49 lakhs
5. Visual performance of patients bilaterally implanted with the TECNIS Symphony or TECNIS Symphony Toric IOLs in Asian population/region: An international multicentric Study, J.S. Titiyal, Hoya Ltd, 2 years, 2016-2018, Rs 3 lakhs
6. To determine the influence of pre-operative counseling of cataract patients on IOL choice among patients at a tertiary level government aided eye hospital, Alcon, 8 years, 2010-2018, Rs 2.05 lakhs
7. A prospective study to evaluate Suprathob Toric Intra Ocular Lens (IOL) implantation to correct pre-existing corneal astigmatism in patients undergoing cataract surgery, Namrata Sharma, Appasamy Associates, Chennai, 1 year, 2016-2017, Rs 4.4 lakhs
8. Clinical Study to Evaluate the Safety and Efficacy of the Bioengineered Cornea in Patients Requiring Deep Anterior Lamellar Keratoplasty, Namrata Sharma, LinkoCare Lifesciences-Sweden, 3 years, 2014-2017, Rs 12 lakhs
9. Comparison of autologous cultured limbal stem cells on amniotic membrane transplant versus limbal lenticule transplantation alone in the management total limbal stem cell deficiency due to ocular burns: A randomized controlled clinical trial, Namrata Sharma, DST, 4 years, 2013-2017, Rs 50 lakhs
10. Asia Cornea Society for infectious keratitis study, ACSIKS Study, Namrata Sharma, Asia cornea foundation, Singapore, 1 year 6 months, 2016-2017, Rs 18 lakhs
11. Visual Performance of Patients Bilaterally Implanted with the TECNIS® Symphony or TECNIS® Symphony Toric Extended Range of Vision IOL in Asian Population/Region, An International Multicentered Study, Namrata Sharma, AMO Singapore Pvt Ltd, Singapore, 1 year, 2016-2017, Rs 16 lakhs
12. Exome sequencing based detection of novel and causal mutation(s) associated with Juvenile Onset Open Angle Glaucoma (JOAG), Viney Gupta, DRDO, 3 years, 2017-2020, Rs 68 lakhs

13. The Asia Cornea Society Infectious Study (ACSIKS), Gita Satpathy, Asia Cornea Foundation, Third Hospital Avenue, Singapore, 2 years, 2016, Rs 16 lakhs
14. Establishment of Multiplex PCR for Detection of Herpes Simplex Viruses Type 1 and Type 2, Cytomegalovirus, Varicella-Zoster Virus and Adenovirus in Ocular Viral Infections, Nishat Hussain Ahmed, AIIMS, 2 years, 2016-2018, Rs 7.07 lakhs
15. To evaluate the effect of increased outdoor activity on the incidence and progression of myopia in school children, Rohit Saxena, DST, 3 years, 2016-2019, Rs 48.63 lakhs
16. CBM- RPC Disability Eye Health Programme and Strengthening of LV and Rehabilitation Services, Rohit Saxena, CBM, 5 years, 2015-2020, Rs 46.72 lakhs
17. A Pivotal Phase II/III, Randomized, Double-Masked, Sham-Controlled Trial of QPI-1007 Delivered by single or Multi-Dose Intravitreal Injections to Subjects with Acute Non-Arteritic Anterior Ischemic Optic Neuropathy (NAION), Rohit Saxena, Quark Pharmaceuticals, 3 years, 2016-2019
18. Exploring the role of endocannabinoids in primary adult glaucoma, Dewang Angmo, AIIMS Intramural, 2 years, 2017- 2019, Rs 4.5 lakhs
19. Genetics of Primary Angle Closure Disease, Moulinath Acharya, DBT, 2 years, 2016-2018
20. Molecular and mutational studies in the uveal melanoma and their correlation with clinicopathological parameters, Neelam Pushker, ICMR, 3 years, 2017-2019, Rs 30 lakhs
21. A comparative study to evaluate the efficacy of Idebenone in comparison with placebo in Leber's Hereditary Optic Neuropathy patients—A pilot study, Swati Phuljhele Aalok, AIIMS, 1 year, 2017-2018, Rs 4.32 lakhs
22. Comparative evaluation of efficacy of conjunctival stem cell transplantation with cultivated oral mucosal epithelial transplantation in patient with bilateral cicatrizing ocular surface diseases, Radhika Tandon, DBT, 3 years, 2017-2020, Rs 68 lakhs
23. Multi-centric Task-force Project: Study of impact of exposure to Ultra Violet Radiation (UVR) and aerosol exposure on ocular health in India Phase-II, Radhika Tandon, ICMR, 5 years, 2018-2023, Rs 1106 lakhs
24. Assessment of inflammatory markers and growth factors in normal and diseased corneas, Noopur Gupta, AIIMS, 2 years, 2015-2017, Rs 10 lakhs
25. Study on health-related quality of life and costing of cataract surgery for treatment of age-related cataract in India, Praveen Vashist, DHR
26. An Operational Research on Developing Disability Inclusive Eye Health Program in India., Suraj Singh Senjam, Christoffel Blindness Mission (CBM), 3 years, 2017-2020, Rs 22.54 lakhs
27. Operational Research project on strengthening integrated primary eye care in urban vulnerable populations of Delhi, Praveen Vashist, Sightsavers, 2 years, 2017-2018, Rs 163 lakhs
28. Delhi Glaucoma Study- A population based survey to assess the burden of glaucoma in Delhi, Praveen Vashist, 3 years, 2017-2020
29. Operational Research Project on conducting training sessions for health care professionals, DHR
30. Epidemiological Study of avoidable blindness in India Government of India, 2015-2018, Praveen Vashist, NPCB, MoHFW, 3 years, 2015-2018, Rs 528 lakhs
31. Diabetic Retinopathy: An Epidemiological Study of its Risk Factors and Biological Markers in Delhi, Praveen Vashist, MoHFW, 1 year, 2017-2018, Rs 109 lakhs
32. To evaluate the effect of increased outdoor activity on the incidence and progression of myopia in school children, Praveen Vashist, DST, 3 years, 2016-2019, Rs 48.63 lakhs
33. Operational Research project on strengthening integrated primary eye care in urban vulnerable populations of Delhi, Praveen Vashist, Sightsavers, 3 years, 2016-2018, Rs 163 lakhs
34. Strengthening of Low Vision and Rehabilitation Services, Suraj Singh Senjam, Christoffel Blindness Mission (CBM), 1 year, 2018, Rs 15.45 lakhs
35. Development of a culturally appropriate health literacy instrument and assessing its validity in Hindi speaking patients receiving general and primary eye care services in New Delhi, Vivek Gupta, AIIMS, 2 years, 2016-2017, Rs 2.5 lakhs
36. Community Ophthalmology Programme in South Delhi, Praveen Vashist, Deepalaya, 1 year, 2017-2018, Rs 2 lakhs
37. A Sustainable Model for Comprehensive Outreach Eye Care Service in NCR, Praveen Vashist, Deepalaya, 5 years, 2017-2022, Rs 77.12 lakhs
38. A Sustainable Model for Comprehensive Outreach Eye Care Service in NCR, Praveen Vashist, Hero Motocorp, 1 year, 2018, Rs 37.04 lakhs

39. A Sustainable Model for Comprehensive Outreach Eye Care Service for underserved population, Praveen Vashist, Sparsh, 3 years, 2018-2020, Rs 39.42 lakhs
40. A Sustainable Model for Comprehensive Outreach Eye Care Service for underserved population in Delhi Slums and resettlement colonies, Praveen Vashist, Deepalaya, 5 years, 2018-2022, Rs 125 lakhs
41. Comprehensive primary eye care services in rural areas of Delhi/DJJS, Praveen Vashist, Divya Jyoti Jagrati Sansthan, 4 years, 2016-2020, Rs 34.74 lakhs
42. Patterns and pathways of care seeking for cataract and common ocular morbidities and impact of local volunteers on the pathways among urban vulnerable population settings of West Delhi, Vivek Gupta, Swami Sivananda Memorial, 2 years, 2017-2019, Rs 20 lakhs
43. Vision Screening and Eyeglasses Dispensing Program for Students in Delhi Schools, Praveen Vashist, Vision Spring, 1 year, 2017-2018, Rs 6.4 lakhs
44. Role of progenitor cell markers in human retinoblastoma, Jasbir Kaur, AIIMS Intramural, 1 year, 2017-2018, Rs 5 lakhs
45. Identification of specific protein in aqueous humor and tear film of primary open angle glaucoma and primary angle closure glaucoma patients, Jasbir Kaur, SERB, DST, 3 years, Rs 32.16 lakhs
46. Role of circulating endothelial progenitor cell markers in human retinoblastoma, Jasbir Kaur, AIIMS, 2 years, Rs 10 lakhs
47. Molecular study of Mitochondrial DNA In Intraocular Tumours, Seema Kashyap, ICMR, 3.5 years, 2015-2018, Rs 30 lakhs
48. Clinical implication of Epithelial Mesenchymal Transition Markers in eyelid sebaceous gland carcinoma, Seema Sen, IRG, 3 years, 2014-2017, Rs 6 lakhs
49. Developing quality control parameters and dispensing MK Media for corneal transplant preservation for Indian eye banks, T. Velpandian, MoHFW, 11 years, 2009-2020, Rs 61.93 lakhs
50. Preclinical studies on selected anti-angiogenic compounds for their suitability in retinal neovascular conditions, Nabanita Halder, AIIMS, 2 years, 2016-2018, Rs 8.5 lakhs
51. Feasibility Study for Developing the Pharmaceutical and Bio-analytical Methods for the Development of Newer Anticancer Agents for Retinoblastoma, T. Velpandian, INVICTUS, 5 years, 2013-2018, Rs 38.86 lakhs
52. Collaborative Studies on Developing newer antimicrobials based on QSPR platform for its projected use in ocular and other infections, T. Velpandian, Vyome Biosciences, 4 years, 2014-2018, Rs 23.12 lakhs
53. Development and standardisation of pharmaceutical products for their use in special population, T. Velpandian, INMAS, DRDO, 2 years, 2015-2017, Rs 26 lakhs
54. In vivo based QSPR model for the In-Silico Prediction of Drugs Penetrating Through Blood Retinal Barriers for High-throughput Ocular Drug Development, T. Velpandian, DBT, 3 years, 2015-2018, Rs 51 lakhs

Completed

1. A 12 months, phase III, randomized, double-masked, multi-centre active-controlled study to evaluate the efficacy and safety of two individualized regimens of 0.5 mg ranibizumab vs. Verteporfin PDTG in patients with visual impairment due to choroidal neovascularization secondary to pathologic myopia, Rajpal, Novartis Health Care Private Limited, 2 years, 2015-2017, Rs 3.79 lakhs
2. A pilot study on health education intervention for modifiable factors affecting myopia among school children in Delhi, Rohit Saxena, DST, 3 years, 2012-2016, Rs 19.92 lakhs
3. Prognostic Significance of Nuclear Factor Markers Light Chain Enhancer of activated B cells (NFkB) in Uveal Melanoma, Rachna Meel, IRG, 2 years, 2015-2017, Rs 5 lakhs
4. Evaluation of Thrombospondin-1 polymorphisms in corneal graft rejection, M. Vanathi, AIIMS, 1 year, 2016-2017
5. Evaluation of tear neuropeptides in longterm antiglaucoma therapy, M. Vanathi, ICMR, 2 years, 2015-2017

Departmental projects

Ongoing

1. A population based study to assess the prevalence of glaucoma in Delhi
2. A randomized, masked, controlled trial to study the safety and efficacy of suprachoroidal CLS-TA in conjunction with intravitreal aflibercept in subjects retinal vein occlusion
3. A temporal evaluation of structural and functional changes of Optic Nerve in acute (early and established) cases of Idiopathic Intracranial hypertension and the impact of weight reduction on the same

4. Adapting, updating and validating a modern version of the NEI Visual Function Questionnaire (VFQ 25) as a tool to analyze quality of life in patients undergoing keratoplasty
5. Anatomical and functional outcomes of drainage through posterior retinotomy versus PFCL assisted drainage through break in vitrectomy for rhegmatogenous retinal detachment.
6. Anterior segment OCT in PACD
7. Assessment of Fluid Responsiveness by changes in Venous CO₂ during passive leg raising Maneuver
8. Assessment of Outdoor Ultraviolet Light Exposure and Serum Melatonin levels in Young Myopes
9. Assessment of quality of vision and vision related quality of life in patients undergoing anterior lamellar keratoplasty: A pilot study
10. Assessment of role of Autologous Bone Marrow derived stem cells in the treatment of Dry Age Related Macular Degeneration-A comprehensive study
11. Characterisation of treatment naive choroidal neovascular membranes using OCT—A guide
12. Choroidal thickness measurement in normal healthy Indian population by using swept source optical coherence tomography
13. Choroidal Vascular Patterns in Sturge Weber Syndrome
14. Clinical performance and ocular surface homeostasis study with gas permeable scleral contact lens for ocular surface disease
15. Clinical profile and outcome of povidone eye drops versus artificial tears in treatment of viral conjunctivitis
16. Community based operational research study on involvement of Accredited Social Health Activists (ASHAs) in strengthening Primary Eye Care services for Urban Vulnerable Population of Delhi
17. Comparative evaluation of polyene anti-fungals in treatment of fungal corneal ulcer
18. Comparative Evaluation of Retinal Architectural changes using microscope—Integrated i-OCT in Macular Surgery—A prospective randomised trial
19. Comparative evaluation of SF₆ versus partial air tamponade on structural and functional outcomes of epiretinal membrane surgery
20. Comparative study of trephination with stent with mitomycin c vs trephination with stent in distal canalicular and common canalicular block
21. Comparison of AMT, MMG, COMET in acute ocular surface disorders
22. Comparison of anti-VEGF alone with anti-VEGF + 2 mg Tricort in cases of CRVO
23. Comparison of effect of 3 antibiotic regimens in endophthalmitis
24. Comparison of low-fresh gas flow technique to standard technique of sevoflurane induction in children
25. Comparison of medial rectus plication versus medial rectus resection combined with antagonist recession in intermittent exotropia
26. Comparison of OCTA and fluorescein angiography in patient of diabetic retinopathy
27. Comparison of time to intubate and intubation conditions with CMAC Miller blade size 1 and CMAC Macintosh blade size 2 in paediatric patients—A prospective randomized controlled study
28. Comparison of Ultrasound guided femoro-sciatic nerve block versus epidural analgesia for post-operative analgesia following excision of knee tumours—A randomized control study
29. Corneal epithelial thickness mapping using fourier domain optical coherence tomography and corneal biomechanics in Vernal Keratoconjunctivitis
30. Corneal evaluation in patients with Parkinson's Disease on long term oral amantadine therapy
31. Correlation of between baseline intraocular pressure and histopathology of trabecular meshwork
32. Correlation of Percent Tissue Ablation with corneal biomechanics in myopic LASIK
33. Cost-effectiveness analysis of DSAEK versus PK in patients with corneal endothelial dysfunction
34. Determination of clinic-imaging abnormalities and vitreo retino-choroido-scleral relationship in Myopia
35. Digitally Assisted VS conventional vitreo-retinal surgery—A prospective randomized trial
36. Dry eye disease and ocular morbidity in individuals with sleep disorders
37. Effect of topical steroids on intraocular pressure of patients after squint surgery
38. Efficacy of Oral Eplerenone in Palypoidal Choroidal vasculopathy
39. Epidemiological study on childhood visual impairment in Delhi
40. Erector Spinae block for knee arthroscopy—A single arm prospective observational study

41. Evaluation of accuracy of Barrett toric calculator in predicting post-operative residual astigmatism in cases of toric IOL implantation
42. Evaluation of anisometropia and amblyopia risk factor in congenital nasolacrimal duct obstruction patients
43. Evaluation of Binocular vision in Pseudophakia with Monovision
44. Evaluation of Boston Keratoprosthesis with modified titanium backplate
45. Evaluation of Botulinum Toxin Injection in lacrimal outflow obstruction
46. Evaluation of collagen matrix implant in failed dacryocystorhinostomy surgery as compared to Mitomycin C
47. Evaluation of combined resection and recession of same muscles in patient with near distance disparity
48. Evaluation of efficacy of silicone intubation after probing with adjunctive Mitomycin C in adults with primary acquired nasolacrimal duct obstruction
49. Evaluation of HRQoL in cases of Nystagmus
50. Evaluation of outer retinal structural integrity using En Face OCT Imaging in post anti-VEGF eyes with Diabetic Macular Oedema—A prospective study
51. Evaluation of Posterior Corneal Astigmatism
52. Evaluation of retinal function and morphology in Isoametropic amblyopia
53. Evaluation of Surgical Outcome of Porous Polyethylene Implants in Anophthalmic Sockets with Implant Migration
54. Evaluation of the Role of Ultrasound Biomicroscopy in Retinoblastoma.
55. Evaluation of Thrombospondin-1 polymorphisms in corneal graft rejection.
56. Evaluation of vitreous seed regression using intravitreal melphalan in combination with intravenous chemotherapy for persistent/partially regressing vitreous seeds in group C and D retinoblastoma
57. Evaluation of Barrett Universal II Formula for IOL power calculation
58. Evaluation of graft survival and visual outcomes following keratoplasty in vernal keratoconjunctivitis
59. Gene expression profiling in retinopathy of prematurity
60. Genomic alterations in juvenile open angle glaucoma
61. High resolution Photoreceptor and Microvascular Imaging Using Adaptive Optics Fundus Camera and OCT-angiography in Early Stages of Diabetic Retinopathy
62. Identification and Characterization of Molecular Targets in Orbital Tumours: Basis of innovative therapeutic strategies
63. Imaging and Intervention in Pediatric Budd Chiari Syndrome
64. Ketodex with glossopharyngeal nerve block vs propofol and Fentanyl with spray for therapeutic endoscopies
65. Lenticular changes with use of statins—A hospital based prospective cohort study
66. Metabolomic and pharmacogenomic evaluation of glaucoma therapy
67. Metagenomics in endophthalmitis and septicaemia
68. Molecular alterations in glaucoma
69. Molecular Characterization of Fungi from Mycotic Keratitis and Invasive Infections and Comparison with conventional methods like Direct detection and Culture
70. Molecular Characterization of Malignant Lacrimal Gland Tumours
71. Molecular Characterization of NFκB pathway in Uveal Melanoma
72. Molecular characterization of Steven Johnson Syndrome Ocular Sequelae
73. Mucous Membrane Grafting (Fibrin Glue vs. Suture) for Lid Margin Pathologies in Patients with Stevens-Johnson Syndrome: A randomized comparative study
74. Multimodal retinal imaging of eyes with metamorphopsia after retinal detachment surgery
75. Ocular biometry in pediatric age group less than 15 years using 35 mhz ultrasound biomicroscopy
76. Patterns of retinal vasculitis and their clinical and etiological profile-Ultra Wide Field (UWF) study
77. Predictors for surgical outcomes in Stage 4a retinopathy of prematurity
78. Prevalence of ocular manifestation of tuberculosis in pulmonary TB patients
79. Prospective observational study of cases of aggressive posterior retinopathy of prematurity and zone 1 retinopathy of prematurity
80. Prospective observational study of cases of Aggressive Posterior Retinopathy of Prematurity (APROP) and Zone 1 Retinopathy of Prematurity

81. Prospective pilot study for comparison of three antibiotic drug regimens (intravitreal) in endophthalmitis
82. Psychosocial impact of paediatric strabismus on caregivers and the effect of strabismus surgery
83. Retinopathy of prematurity profile in Inborn and Outborn babies in a tertiary hospital.
84. Role of 3D Heads-up Digitally Assisted Vitreoretinal Surgery (DAVS) in Primary and Recurrent Rhegmatogenous Retinal Detachment with Proliferative Vitreoretinopathy-A Prospective Randomized Trial
85. Role of Binocular videogames in Amblyopia
86. Role of collagen cross linking for bleb leakage
87. Role of conjunctival autofluorescence in ocular surface squamous neoplasia
88. Role of diffusion weighted MRI in retinoblastoma.
89. Role of fundus fluorescein angiography in the management of aggressive posterior retinopathy of prematurity
90. Role of strip meniscometry in dry eye
91. Serum Procalcitonin, Interleukin-6 and sTREM-1 as diagnostic and prognostic markers in sepsis in Intensive Care Unit
92. Small Gauge vitrectomy in endophthalmitis—Safety and microbiological outcomes
93. Sonicated versus non-sonicated liposomal amphotericin B in the treatment of fungal corneal ulcer
94. Study of Lipid Metabolism in Ocular Malignancies
95. Study of Post Keratoplasty Glaucoma and Comparative Evaluation of Fixed Combination versus Dual Therapy in Management of Raised Intraocular Pressure
96. Study of Posterior Corneal Astigmatism in Normal and Post Refractive Surgery Corneas
97. Study of the effect of red tinted filters on colour discrimination in patients with congenital colour vision deficiency and the impact of type, severity and structural change
98. Surgical outcomes of sutureless clear corneal microincision vitrectomy surgery in end stage 5 ROP
99. Targeting PD-1/PD-L1 Pathway in Tumor Microenvironment: New Immunotherapeutic Paradigm for Ocular Malignancies
100. The effect of parental presence during anesthesia induction: On serum cortisol levels in children
101. The pattern of visual impairment in spectrum of Hypoxic Ischemic Encephalopathy
102. To characterize treatment naive choroidal neovascular membranes using optical coherence tomography-angiography
103. To evaluate the effects of a preoperative carbohydrate drink on postoperative vomiting in Paediatric Strabismus Surgery: A randomized controlled observer blinded trial
104. To study efficacy of Intravitreal Ranibizumab plus Tricort vs Intravitreal Ranibizumab alone in patients with macular edema secondary to CRVO
105. To study the outcomes of Immediate Sequential Bilateral Vitreo Retinal Surgery (ISBVS) in advanced ROP
106. Ultra Wide Field Fluorescein Angiography (UWFA) guided peripheral laser photocoagulation in Recalcitrant Diabetic Macular Edema eyes—A comparative randomized study
107. Use of advanced genomics in Microbiology of culture negative infections
108. Use of broad range PCR assay for diagnosis of endophthalmitis and its comparisons against conventional and automated (BACTEC) culture
109. Use of per-operative aberrometry for IOL power calculation
110. Uvetic cataracts profile of patients and visual outcome
111. Yoga in CSR

Completed

1. A randomized controlled trial to evaluate the role of no strict prone positioning versus one day postoperative strict prone positioning in anatomical closure of idiopathic full thickness macular hole: A preliminary study
2. Anatomical and Functional outcome after Vitrectomy (with ILM peeling) for Recalcitrant Tractional VS non Tractional Diabetic Macular Edema
3. Changes in Alzheimer's Disease
4. Comparative evaluation of combined mechanism, POAG and PACG
5. Comparative evaluation of conventional macular hole surgery with inverted internal limiting membrane flap technique for large macular holes—A prospective randomized study
6. Comparative evaluation of patching and no patching after squint surgery on outcomes of surgery

7. Comparative evaluation of ultra-wide field fluorescein angiography guided peripheral laser photocoagulation with and without intravitreal antiVEGF in recalcitrant centre involving diabetic macular edema—A randomized study
8. Comparing visual outcome of laser in situ keratomileusis and implantable collamer lens on moderate myopia (4 to 7 D)
9. Comparison of peribulbar block and Sub-tenon infiltration in pediatric enucleation of the eye
10. Comparison of Sub-Tenon and peribulbar block for postoperative analgesia in pediatric cataract
11. Comparison of the success of two techniques for the endotracheal intubation with C-Mac videolaryngoscope straight blade in paediatric patients: A randomized study
12. Comparison of Ultra-wide field FA (UWFFA) with conv. FA guided Pascal laser treatment in DR
13. Corneal evaluation in patients with Parkinson's Disease on longterm oral amantidine therapy
14. Correlation of PTA with corneal biomechanics in myopic LASIK
15. DNA repair proficiency in human retinoblastoma: Study of vitamin D and its effects (ICMR-SRF project)
16. Effect of 25G Vitrectomy with silicone oil injection on anterior chamber angle using anterior segment optical coherence tomography
17. Effect of dexmedetomidine on serum cortisol level and perioperative haemodynamics in children undergoing elective ophthalmic surgery—A prospective, randomized, comparative study
18. Effect of entropy guided low flow desflurane anaesthesia on laryngeal mask airway removal time in children undergoing ophthalmic surgery—A prospective, randomized, comparative study
19. Effect of induced anisometropia on Binocular simulated stereoptic tasks
20. Epithelial-Mesenchymal Transition (EMT) in Sebaceous Carcinoma of the Eyelid—An Immunohistochemical and Molecular Study
21. Evaluation of Anterior Chamber (Kelman Multiflex) intraocular lens implantation cases of non-traumatic subluxated lenses in pediatric age group
22. Evaluation of Barrett Universal II Formula for IOL power calculation
23. Evaluation of Biometric measure of Pediatric Cataract Surgery
24. Evaluation of canalicular trephination and monocanicular stenting versus canaliculo dacryocystorhinostomy in common canalicular blocks
25. Evaluation of Disk changes in papilloedema on HD OCT
26. Evaluation of Nishida procedure for transposition in Lateral rectus palsy
27. Evaluation of risk factors for non arteritic anterior ischemic optic neuropathy in Indian population
28. Evaluation of Silicon Rod as a material for Frontalis Sling Surgery as compared to Fascia Lata
29. Evaluation of the Role of Retinal Renin Angiotensin System (RAS) in the Animal Model of Retinopathy of Prematurity (ROP)
30. Extended range of vision intraocular lens implantation in Cataract Surgery: A pilot study
31. Long term review of OHT
32. Microwave Assisted Synthesis, Development of LC-ESI-MS Method and Quantification of Ocular bis-retinoids in Human Cadaver Retinal Pigment Epithelium
33. Patterns of Retinal Vasculitis and their clinical and etiological profile-Ultra Wide Field (UWF) study
34. Prospective randomized interventional trial comparing branch retinal vein occlusion treatment with ultra wide field imaging guided peripheral laser in combination with Ranibizumab v/s Ranibizumab only in treatment naïve cases
35. Prospective study to evaluate the clinical efficacy of topical chloroquine in patients with mild to moderate dry eye
36. Refractive outcome after Post Trab+Trab Cataract surgery in Primary congenital glaucoma
37. Retinopathy of prematurity profile in Inborn and Outborn babies in a tertiary hospital
38. Retinopathy of prematurity profile in inborn and outborn babies in a tertiary hospital
39. Risk factors for causation of Ischemic mononeuropathy
40. Role of Brinzolamide in Infantile Nystagmus syndrome
41. Role of fundus fluorescein angiography in the management of aggressive posterior retinopathy of prematurity
42. Role of multiparametric MRI in evaluation of locally advanced rectal cancer
43. Role of Stratifin in ocular squamous cell neoplasia and it's correlation with other tumour suppressors

44. To determine the patterns of ocular trauma and final visual acuity based on Ocular Trauma Scoring (OTS)
45. To evaluate systemic and Ocular Associations of Bilateral Pediatric Cataract
46. To evaluate the Role of Intralesional Propranolol for treatment of periocular and eyelid capillary haemangiomas as compared with Oral Propranolol
47. To study efficacy of Intravitreal Ranibizumab plus Tricort vs Intravitreal ranibizumab alone in patients with macular edema secondary to CRVO
48. To study the role of additional posterior barrage laser in Type 1 Zone 2 ROP
49. To study the safety and outcomes of immediate sequential bilateral ROP surgery

Collaborative projects

Ongoing

1. Genetics of Primary Angle Closure Disease, National Institute of Biomedical Genomics
2. Role of serum galactomannan assay in the treatment of invasive orbital aspergillosis, ENT and Microbiology
3. Autologous Fat Transfer for Orbital Volume Augmentation in Sockets with Small Non-seeing Eyes, Dermatology
4. A temporal evaluation of structural and functional changes of optic nerve in acute (early and established) cases of idiopathic intracranial hypertension and the impact of weight reduction on the same, Neurology
5. The pattern of visual impairment in spectrum of Hypoxic Ischemic Encephalopathy, Pediatric Neurology
6. Evaluation of vitreous seed regression using intravitreal melphalan in combination with intravenous chemotherapy for persistent/ partially regressing vitreous seeds in group C and D retinoblastoma, IRCH
7. Levator muscle changes in Congenital Ptosis, Pathology
8. A metagenomic approach to evaluate the human ocular microbiome in ocular surface disease
9. Tools to diagnose—Eye-Development and assessment of image analysis tool for identification of glaucoma, IIT Delhi
10. Tools to Diagnose-Eye-Development and assessment of image analysis tools for identification of retinal disorders-Diabetic Retinopathy, IIT Delhi
11. Clinical significance of Sirtuin 1 and FOXO 3 in intraocular and orbital retinoblastoma, IRCH
12. Evaluation of circulating cell free DNA (ccfDNA) and their clinical utility as biomarker in skin carcinoma, Delhi University
13. Ultrasound assessment of gastric emptying of clear fluids with different energy content in children: A crossover pilot study, Anesthesiology
14. Role of MR guided biopsy in detection of prostate cancer, NMR
15. Study of Endothelial Progenitor Cell (EPC) tetrahydrobiopterin (BH4) levels and its association with EPC number and function in Coronary Artery Disease (CAD) patients, Cardiac Biochemistry
16. To study the association of tetrahydrobiopterin (BH4) levels in endothelial progenitor cell (EPC) with the functional activity of EPC in Coronary Artery Disease (CAD) patients, Cardiac Biochemistry
17. To evaluate the effects of a preoperative carbohydrate drink on postoperative vomiting in Paediatric Strabismus Surgery: A randomized controlled observer blinded trial, Anaesthesiology
18. Pharmacological evaluation of selected Ayurvedic formulations, NMR
19. Pharmacokinetic evaluation of second line anti-tubercular drugs in patients with TB, Medicine
20. Analysing the levels of Vitamin D3 in pharmaceutical formulations available in the market, Endocrinology and Metabolism

Completed

1. Culture of Limbal stem cells for ocular surface reconstruction in stem cell deficiency diseases, ORBO, Biochemistry
2. Analysis of the expression of mucins and angiogenesis markers in human Oral Mucosal Epithelial Cells (OMEC) on using Mycophenolate Mofetil (MMF) and Bevacizumab (BVCZ) in vitro (2012-15), Biochemistry
3. Non-invasive characterization of coronary artery atherosclerotic plaque using dual energy CT: Explanation in ex-vivo samples, Medical Physics
4. Study of association of tetrahydrobiopterin (BH4) levels in Endothelial Progenitor Cell (EPC) with EPC number in CAD patients, Cardiac Biochemistry

PUBLICATIONS

Journals: 250

Chapters in Books: 51

Books: 3

PATIENT CARE

OUTDOOR PATIENTS				
		New Cases	Old Cases	Total
1.	General O.P.D.	1,60,798	1,75,695	3,36,493
2.	Emergency	8711	46,078	54,789
	Total Cases	1,69,509	2,21,773	3,91,282
SPECIALITY CLINICS				
1.	Cornea Clinic	6565	14,022	20,587
2.	Lens Clinic	957	2571	3528
3.	Uvea Clinic	1087	4373	5460
4.	Contact Lens Clinic	714	2041	2755
5.	Glaucoma Clinic	4107	9323	13,430
6.	Ophthalmoplasty Clinic	4895	3997	8892
7.	Paed. Ophthalmology Clinic	22	16	38
8.	Retina Clinic	4483	6037	10,520
9.	Neuro-Ophthalmology Clinic	3544	2839	6383
10.	Vitreous Retinal Clinic	4442	4011	8453
11.	ROP	1049	3270	4319
12.	Ocular Oncology Clinic	375	893	1268
13.	Low Visual Aid	3302	1348	4650
14.	a) Orthoptic Clinic	837	21,610	22,447
	b) Squint Clinic	5337	19,902	25,239
15.	Refraction	-	45,923	45,923
	Total Cases	41,716	1,42,176	1,83,892
	Grand Total of Cases	2,11,225	3,63,949	5,75,174
INDOOR			No. of Cases	
1.	General Admissions		16,221	
2.	Casualty Admissions		3771	
3.	Private Admissions		1249	
4.	Short Admissions		11,874	
5.	Day Care Admissions		10,569	
	Total		43,684	
OPERATIONS			No. of Cases	
1.	Major		20,158	
2.	Day Care		9658	
	Total		29,816	
3.	Minor		15,595	
	Grand Total		45,411*	
	Deaths		Nil	
YEARLY OTHER FIGURES				
1.	Average Bed occupancy Ratio		82%	
2.	Average length of stay		5 days	
3.	Average OPD Attendance per working day		1930	
4.	Average No. of Indoor Admission per day		120	
5.	Average No. of Surgeries per day		124	

*It includes minor procedure also

Investigative Laboratories

Investigations	Total No.
Scanning and storage of MRI records	23
DRPPT	36
Pupillometry	48
PDT	136
GDx ECC/VCC	141
Tear Lab	195
Casia	236
UBM	269
Multifocal ERG (MF ERG)	275
Optic Neuritis Clinic	704
EOG, EOG	718
Flaremeter	798
Medical Board	997
Adaptive Optics	1362
GVF	1708
Video Slit Lamp Photography	1795
Ant. Seg. CP	1799
VKG	2038
i-TRACE	2073
YAG Laser + SLT(Selective)	2725
Contact lens clinic	2922
OCT Angiography	2978
ROP	3078
ECG	3390
Contrast Sensitivity	4439
HRT 3	4667
VER	4883
Post Segment laser (PRP)	5248
Low Vision Aid Services	5642
Colour Vision	6130
LI (Laser Interferometry)	6368
SM (Specular Microscopy)	7024
HD-OCT	7913
FFA + ICG	8131
Pentacam	8877
CP (Post Seg.) + Fundus Photo + AF	10,122
ASOCT	10,263
CCT/N.CCT (Pachymetry)	10,369
Autolensometry (POG)	10,919
HVF (Automated Perimetry) + Micro	12,511
USG Bscan	18,862
Keratometry (Manual + Auto)	22,369
AL (Axial Length)	22,564
IOL Master + Lens Star	26,373
OCT-PS	37,117

Refraction	88,236
AR (Auto Refraction)	1,10,252
NCT + ATN (Tonometry)	1,24,866
TOTAL	6,04,589

Ocular Pathology

Investigations as below:

Hematology: 95,125

Urine: 8232

Histopath, Cytopathy and Research: 24,021

Total Investigations: 1,27,377

Ocular Biochemistry—Total 157123

Sl. No.	Tests Name	IPD	OPD	Total
1.	Sugar (R, F, PP, GTT)	5708	5947	11,655
2.	HbA1c	604	1925	2529
3.	TBIL	6004	4546	10,550
4.	DBIL	6004	4546	10,550
5.	ALT or SGPT	6004	4546	10,550
6.	AST or SGOT	6004	4546	10,550
7.	ALP	6004	4546	10,550
8.	TP	2202	3820	6022
9.	ALB	2202	3820	6022
10.	Creatinine (CRE)	6215	4640	10,855
11.	Urea (UREA)	6215	4640	10,855
12.	Uric Acid (UA)	6215	4640	10,855
13.	Sodium (Na+)	6215	4640	10,855
14.	Potassium (K+)	6215	4640	10,855
15.	Chloride (Cl-)	6215	4640	10,855
16.	TCHOL	498	2136	2634
17.	LDL-C	498	2136	2634
18.	HDL-C	498	2136	2634
19.	Triglyceride (TRIG)	498	2136	2634
20.	Free T3	173	565	738
21.	Free T4	173	566	739
22.	TSH	178	597	775
23.	Vitamin B12	20	207	227
	TOTAL	80,562	76,561	1,57,123

Ocular Microbiology

1.	Bacterial culture and sensitivity	16,535
2.	Fungal culture	4786
3.	Specimens processed for cytology	2508
4.	Specimens processed for chlamydia AG detection using DFA	125
5.	Specimens processed for HSV AG detection using DFA	10
6.	Viral PCR for herpes simplex virus, adeno and coxsackie virus (conjunctivitis/corneal ulcer)	68
7.	Specimens processed for mycobacteria	20
8.	Specimens processed for microsporidia	23
9.	Culture for acanthamoeba	41

10.	Automated (bactec) culture for endophthalmitis	83
11.	Broad range PCR for endophthalmitis	83
12.	PCR for fungal identification	3
	Grand Total	24,285

Ocular Pharmacology

1. Drugs purchased by the patient and fortified at the pharmacy

Drug Dispensed	Total Vials (5 ml)
Acetyl Cysteine (10%, 20%, 2.5%, 5%)	146 vials
Amikacin (1.3%, 2.5%, 1%, 5%)	51 vials
Amphotericin B (0.25, 0.15%)	66 vials
Betaxolol (0.25%)	345 vials
Cefazolin (5%)	2474 vials
Conc. Tobramycin (1.3%)	4446 vials
Mitomycin (0.02%, 0.04%)	78 vials
Pilocarpine (0.125%, 0.5%, 0.25%, 1%)	72 vials
Polymixin B (20,000 µ/ml-30,000 µ/ml, 50,000 µ/ml)	221 vials
Povidone Iodine (5%)	–
Vancomycin (5%)	1964 vials
Timolol (0.25%)	8 vials
Ceftazidime	12 Vials
Bevacizumab/Avastin	4080 Ampules
Interferon	228 vials
Voriconazole (1%)	396 vials
Gentamycin 1.3%	5 vial

2. Dispensed than pharmacy RPC free of cost

Autologous Serum	21 vials
Artificial Tears	41,993 vials
Ciprofloxacin (0.3%)	8109 vials
Corneal storage media (M.K. Media)	3357 vials
Cyclosporine (2%, 1%)	30 vials
EDTA (1.1%)	181 vials
Homatropine (2%)	13254 vials
Hypertonic Saline (5%)	4682 vials
Methyl Cellulose (2%)	63 L (for manf. AT+Cipro+methylcellulose)
Methyl Cellulose (2%)	648 vials
Pilocarpine (2%)	989 vials
Acetazolamide 30 mg, 10 mg, 25 mg, 40 mg, 50 mg, 60 mg, 80 mg	2156 Pkt
Sodium Ascorbate (10%)	297 vials
Sodium Citrate (10%)	288 vials
Thimerosal Solution (0.005%)	205 Lits
Tropicamide (1%)	29327 vials
Pipracillin	111
Tropac + Phenylephrine (0.5%+2.5% (ROP)	8723 vials
Gancyclovair vials 100 mg	107

Gancyclovair ampoules 20 mg/ml	6
PHMB	126 vials
Meropenam 5 mg/ml	19 vial
Piloclonidine	101 vials
Atropine (1%)	25 vials
Atropine (2%)	3 vials
Atropine (0.01%)	41 vials
Mycophenolate moftil	20
Sodium benzoate	40
Propanalol (Ciplar) 4 mg	75
Pyroximate	95
Isoniazis	65
Ethambutol	95
Isomac	20
Diazoxide 10 mg	44
Diazoxide 12.5 mg	32
Amlodipine	33
Hisone	60
Albumin	36
Glycerin (20%)	1
Oloapatadin	2378

3. Kit items dispensed

Botox	257 ampules
Ethyl alcohol 20%	82 x 10 ml
Gold chloride	70
Hydrazin Hydrate	83
Sod. Chloride 20% solution	25 ml x 14
Tab. Citrizen 2.5 mg	4 sachets
Tab. A cyclover 1/8	64 sachets
Liposomal Amphotarvin	4
Linezolid 0.2%	4
Azathiaptine	15 sachets
Donalac	171 sachets
2% Sodium offoside	20 sachets
Voriconazole 25 mg	8 sachets
Bind power 1 gm	15 sachets
TPA (Injection, 1 mg/ml)	24 ampules
Tissue plasminogin Activator)	
Infliximab Inj 10 mg	4 vials
Nasal wash (sod. Chloride 4mg)	25 sachets
K-Bind Powder (1 packet)	15 gm
Limezolin 5%	2 vials
Folicacid 0.5%	1 vial
Cilastin 5%	3 vials
Ethyl alcohol 100%	6 ml x 3 vials

Radiology

X Rays	7739
CT	1434
MRI	62

Community Ophthalmology

Primary Eye Care Services through Vision Centres	
Number of Vision Centres	25
Attendees at Vision Centres	56,560
Refractions conducted	21,568
Spectacles prescribed	20,063
Patients referred to R.P. Centre	7614
Primary Eye Care Volunteer training events	
Volunteers Training Programmes organized	18
Volunteers trained	283
Eye Health Education Events	
Eye Health Education Events conducted in Vision Centres	868
Eye Health Education Events conducted in RPC	177
Reach-in-Programme for cataract surgery in Rural and remote areas	
Cataract screening camps organized	8
People examined	992
Patients referred to R.P. Centre	329
School Eye Screening (SES) Programme	
Schools covered under SES Programme	39
Numbers of children screened	32,335
Refractions conducted	3492
Spectacles prescribed	2343
Spectacles booked	2259
Diabetic Retinopathy Screening Camps	
Total number of DR screening camps organized	141
Diabetic patients screened in camps	2329
Total DR Patients identified and referred to R.P.Centre	424
Patient Reported for treatment at Dr R.P. Centre under Community Ophthalmology	
Total Patient reported under Community Ophthalmology	3672
Total Patient operated for cataract surgeries under Community Ophthalmology	1963
Follow-up camps organized	52
Patients examined in Follow-up camps	1174
NPCB-National Blindness Survey	
Number of districts covered	11
Number of 50+ Adults Enumerated	33,000
Number of 50+ Adults Examined	30,110
Rapid Assessment of Avoidable Visual Impairment	
Number of districts covered	3
Number of 50+ Adults Enumerated	6400
Number of 50+ Adults Examined	5601
Childhood Visual Impairment Survey	
Number of clusters covered in East Delhi District	40
Number of children enumerated	21,532
Number of children examined	20,955

Low Vision Rehabilitation	
Total Enrolled	723
Mobility Training	411
Activity of Daily Living Counselling	710
Visual Disability Certification	346
Vocational Training	111
Special School Admission	54

Eye Bank

Total Eyes/Corneas Collected:	1813
Total Transplanted:	1159

Other Eye Bank (OEB):

Total Eyes/Corneas Collected: 113 Total Transplanted: 95

Casualty Services

Our casualty services offer a state of the art facility round the clock running 24 hours a day and 7 days a week. Our emergency room consists of three slit lamp microscopes with applanation tonometry, two non-contact tonometry machines with inbuilt auto-refractometer, a station for indirect ophthalmoscopy, an ultrasound machine for B-scan imaging and a cryotherapy apparatus. We have a 36-bedded ward entirely dedicated to emergency services. One senior resident and junior resident are available 24x7 for all emergency services and consultation services for inpatients of other departments. Apart from the two residents in the emergency room, we have a dedicated casualty team comprising of one faculty, one senior resident and six junior residents working in the operating theatre conducting emergency surgeries round the clock.

We also offer Brachytherapy service in RPC Casualty under the guidance of a dedicated team of Oculoplasty and Ocular Oncology.

The following surgeries are performed routinely in the casualty operating room

- 1) Globe perforation repairs
- 2) Lid laceration repairs
- 3) Therapeutic keratoplasty
- 4) Pars plana vitrectomy for endophthalmitis

Apart from other minor surgeries in every subspeciality

Table 1: Total number of new cases seen in Casualty, number of patients admitted in emergency ward, number of surgical repairs done between April 2017-March 2018

New cases	9222
Admissions	3771
Surgical Management	1973

Table 2: Minor procedures done in casualty room April 2017-March 2018

Applanation D/V	30,363
Corneal scraping	1086
USG	340
Cryotherapy	85
Saline wash	1088
Conjunctival swab	367
Peribulbar injections	1192

Table 3: Minor procedures done in casualty operating room April 2017-March 2018

Intravitreal injections	5586
EUA	2277

Anaesthesia

S. No.	G.A. CASES	Total Cases (2017-2018)
1.	Routine+EUA	6,203
2.	Emergency	1,631
3.	Monitored Anaesthesia Care	455
4.	Dr R.P.C. Casualty O.T.	2,218
	Total	10,507

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor Atul Kumar was re-appointed Hon. Consultant Ophthalmology, Armed Forces Medical Services (December 2015-December 2018), appointed Advisor Ophthalmology Government of India; December 2015 to 2018; Appointed member Advisory Board, Current Indian Eye Research Journal of Ophthalmic Research Group, 2016-ongoing, appointed Co-Chairperson, Advisory Committee for 13th Five Year Plan under National Programme for Control of Blindness (NPCB) Government of India, 2016-ongoing, appointed Member PMOA Duties committee under NPCB Government of India, May 2016-ongoing; AIIMS Committee Member for selection of Assistant Professor Ophthalmic Anesthesia; Member, Advisory committee for National Blindness Survey and National Trachoma Survey May 2016; Co-Chairman Treatment of Retinal Diseases in the country under committee for National Programme for control of Blindness (NPCB), June 2016; Awarded Dr BC Roy National Award for excellence in Ophthalmic Sciences by the President of India 2016; Director, WHO Collaborating Centre for Prevention of Blindness, since August 2016; Appointed Assistant Professor Exam, Chandigarh 5-6 May 2017; External Examiner, PGI, Chandigarh, 5 December 2017; Awarded by the Royal College of Surgeons Edinburgh (Ad Homineum) 2017; Awarded 'Golden Apple' Award at i-Focus CFS Dwarka Delhi, 27 January 2018; Chairman: Retina Diagnostics Session at iFocus-PG Teaching Program, New Delhi, 27 January 2018; Chairperson: Retina Capsule Session at AIOS Refresher Course, PGIMER, Chandigarh, 3 February 2018; Dr Subramaniam Oration Lecture, 36th Annual Karnataka State Ophthalmic Conference 2018, Bengaluru, 3 November 2017; Dr P. Siva Reddy Oration Medal 2017, Annual Conference at Vijayawada, Andhra Pradesh, 14 October 2017; Professor B.P. Kashyap Memorial Oration, 31st Annual Conference of Eastern India Zonal Ophthalmological Congress 2017, Dhanbad, 7-8 October 2017.

Professor Mahesh Chandra was examiner for Professional Exam (Supple.) Bachelor of Optometry Phase-I on Human Anatomy and Physiology, 13 November 2017, Dr R.P. Centre, AIIMS; Prepared question papers for Bachelor of Optometry Phase-I Exam, July 2017 in Human Anatomy and Human Physiology; Internal/External Examination for conduct of Bachelor of Optometry Phase-I Professional Examination in the subject of Optometry to be held in July 2017; Evaluated answer sheets of students in subject of Human Anatomy and Physiology (Paper-I) of Bachelor of Optometry Phase-I Examination, 1 July 2017; Prepared MCQs for Entrance Examination for admission to PhD programme, 18 August 2017; Prepared MCQs for Postgraduate Entrance Examination, AIIMS, 3 September 2017; Prepared question papers for Bachelor of Optometry Phase-I (Supple.) Exam, November 2017 on Human Anatomy and Human Physiology; External Examiner for Mahatma Jyotiba Phule Rohilkhand University, Bareilly for MS Ophthalmology, 3 November 2017, Shri Ram Murli Smarak Institute of Medical Sciences, Bareilly (Uttar Pradesh); Evaluated answer sheets of Human Anatomy and Physiology (Paper-I), of Examination on Bachelor of Optometry Phase-I (Supplementary) Examination, 6 November 2017; External Examiner for Theory, Oral (Viva) and Practical Examination, MAMC, New Delhi, 20-26 November 2017; Prepared MCQs for Question Bank for Senior Residents/Senior Demonstrators (SR/SD) Recruitment, January 2018; Preparation of Question Papers for MS Ophthalmology of other University in Basic Sciences as Applied to Ophthalmology including Optics, Ophthalmology and Ophthalmologic Pathology, Ophthalmology and Ophthalmic Surgery, Recent Advances in Ophthalmology and Other Clinical Sciences Applied Ophthalmology; Evaluated 2 theses submitted to University of Delhi for the Degree of Master of Surgery (Ophthalmology).

Dr Parijat Chandra received ACOIN FELICITATION 2016-2017 (To Ophthalmologists for Commendable Community Eye Health Services for implementing the Goal of ACOIN, Eighth Annual Conference of Association of Community Ophthalmologists of India and International Assembly of Community Ophthalmologists, Goa [8-10 September 2017]; Examiner, BSc (Optometry) Examination (Pre-Final) Phase II 2nd Year, Ophthalmic Instruments and Appliances (April 2017); External Examiner—MS (Ophthalmology), Delhi University, UCMS, (18-20 April 2017); Examiner, BSc (Optometry) Examination (Final) Phase II 2nd Year, Ophthalmic Instruments and Appliances (Jul 2017); Examiner, BSc (Optometry) Examination (Supple) Phase II 2nd Year, Ophthalmic Instruments and Appliances (November 2017); Examiner, FAICO [Vitreoretina] Examination, Under Aegis of All India Ophthalmological Society, AIIMS, New Delhi, [18 November 2017]; Examiner, FAICO [Uvea] Examination, Under Aegis of All India Ophthalmological Society, AIIMS, New Delhi, [18 November 2017]; Reviewer - Journal of Postgraduate Medicine, Indian Journal of Ophthalmology, Eye, Journal of Clinical Ophthalmology and Research, Indian Journal of Pediatrics, International Journal of Ophthalmology, Indian Pediatrics; Chapter Leader—AIIMS IHI Chapter on quality improvement; Member Expert working Group—National ROP Task Force for prevention of Blindness due to ROP, Under MOHFW, GOI; Moderator-ROP Rangers Session, Annual conference of Delhi Ophthalmological

Society, Delhi (7-9 April 2017); Panel faculty—Retina Grand Rounds, Annual conference of Delhi Ophthalmological Society, Delhi (7-9 April 2017); Panelist—Macula Unplugged, Ophthaquest 2017, JW Marriot Aerocity, New Delhi, [22-23 July, 2017]; Panelist—Session ‘Meet international Stalwarts: What’s new in posterior segment ophthalmology’, International assembly of community ophthalmologists and ACOIN Annual Conference, Goa (8-10 September 2017); Panelist—Retina Revisited Session—IIRSI-Delhi, 2017, New Delhi, 23-24 September 2017; Panelist—Neonatal Ventilation workshop, Issues in the care of ventilated neonates, AIIMS, New Delhi, 17 January 2018; Chair, Retina 3 Session, iFocus 2018 (National PG Educational Program) Centre for Sight, Dwarka, Delhi, 21-28 January 2017; Panelist—Webinar on retinopathy of prematurity, Under Aegis of AIOS, PGIMER Chandigarh [9 February 2018]; Panel Faculty, IROP Society session on AntiVEGF in ROP, 76th AIOS Annual Conference, Coimbatore [22-25 February 2018]; Panelist, Session: Spreading QI in institution— Value of Leadership, Leadership in Quality Improvement and Capacity Building: Workshop cum Consultation, New Delhi [27-28 March 2018].

Professor Jeewan S. Titiyal was Maharshi Sushrutu Oration, Mahatma Gandhi University of Medical Sciences and technology, January 2018, Jaipur, Rajasthan; Best Video award OPL “Phaco Refractive Decoded”, Computer, Taminadu, September 2017.

Dr Namrata Sharma was Elected General Secretary, All India Ophthalmological Society; Secretary, Eye Bank Association of India; R. P Dhande Award in Corneal Transplantation and Eye Banking by All India Ophthalmological Society; Distinguished Service Award in APAO, 2018.

Dr Tushar Agarwal won First Prize in Cataract Category at the 21st European Society for Cataract and Refractive Surgeons Winter Meeting held at Maastricht, Netherlands, February 12, 2017 for poster entitled ‘Comparison of IOLMaster 500 and Lenstar 900 for IOL power calculation in pediatric cataract surgery’; Third Prize in Keratorefractive Poster’s Category- ASCRS-ASOA Symposium and Congress, May 2017 held at Los Angeles, USA, entitled ‘Efficacy of 500 Hz Excimer Laser Ablation in Compound Myopic Astigmatism with Cyclotorsion Alignment and Pupil Centroid Shift Compensation: An RCT’.

Dr Rajesh Sinha was American Academy of Ophthalmology, Achievement Award, November, 2017, New Orleans, USA; International Ophthalmic Heroes of India, 22-25 February 2018; APAO Achievemnet Award, February 2018, Hong Kong.

Professor Pradeep Sharma won the best of show poster at the Annual Meeting of American Association for Pediatric Ophthalmology and Strabismus at Nashville TN USA April 2017; received the distinguished Achievement Award of the American Academy of Ophthalmology, AAO, 2017; received the distinguished International Heroes of AIOS from All India Ophthalmological Society at Coimbatore 2018; Invited from Loksabha TV for a public awareness live telecast on “Childhood Vision and Squint”, Loksabha TV-Public awareness live telecast, 24 November 2017, New Delhi.

Professor Neelam Pushker officiated as Internal Examiner in MD Examination, May 2017.

Professor Radhika Tandon was President-EBAI; Member Apex Technical Committee, NOTTO; Member, Joint working group for DBT-NEI Vision Research programme; Co-author of paper awarded the AIIMS Excellence Research Award 2015 at the Institute Day, AIIMS for the paper “Prevalence of corneal diseases in the rural Indian population: The Corneal Opacity Rural Epidemiological (CORE) study”; Invited by Government of Punjab to help eradicate corneal blindness in the State; Member, Inspection Committee for inspection of Eye Collection Centre at the J.A. Group of Hospitals, Gwalior, Madhya Pradesh in compliance with orders dated 10 March 2017 of Hon’ble High Court of Madhya Pradesh in WP No. 4188/2015 filed by Sh. Lokender Shrivastava V/s Government of Madhya Pradesh and others; Member, 2nd Expert Committee Meeting of Indo-US Programme on Vision Research DBT, Ministry of Science and Technology, Government of India, New Delhi on 17 April 2017; External Expert for Standing Selection Committee of AIIMS Rishikesh, Rishikesh on 28 April 2017; Task Force Member for the Eighth Meeting of the Task Force on “Bioengineering”, DBT, New Delhi, 8 May 2017; Member, Committee of Experts for submitting a report regarding ‘Study and Practice by Medical Students and Professionals with Color Blindness/Color Vision Deficiency’ to the Hon’ble Supreme Court, in Pranay Kumar Podeer v/s the State of Tripura and Ors.—SLP (Civil) No. 27388 of Year 2015, 9 May 2017; Expert for Meeting of the Disability Committee to decide the ‘Changes required in Graduate Medical Education Regulations and Post Graduate Medical Education Regulation in view of the enactment of the Right of Persons with Disabilities 2016, including review of the issue of Guidelines for assessment of functional ability of amputee of lower limbs after wearing external aid/artificial limb for the purpose of considering admission in MBBS course’, Medical Council of India Office, 6 June 2017; Expert for Project Review Committee Meeting on 8 June 2017 at ICMR Hqrs., New Delhi; Expert for inspection of Corneal Transplantation facilities under Transplantation of Human Organs and Tissues Act, 1994, Registration (New) of Visitech Eye Centre, New Delhi, 9 June 2017; Expert for Second Meeting of the Disability Committee to decide the ‘Changes required in Graduate Medical Education Regulations and Post Graduate Medical Education Regulation in view of the enactment of the Right of Persons with Disabilities 2016, including review of the issue of Guidelines for assessment of functional ability

of amputee of lower limbs after wearing external aid/artificial limb for the purpose of considering admission in MBBS course', Medical Council of India Office at Dwarka, New Delhi, 18 July 2017; Expert for Selection of Assistant Professor of Ophthalmology, Government Institute of Medical Science, Greater Noida, UP, 13 September 2017; Member, Technical Evaluation Committee (TEC) for "Disease causing Blindness and its Control", Department of Health Research, Ministry of Health and Family Welfare; Member, Medical Board, AIIMS, New Delhi; Chairperson, Meeting on the guidelines for assessment and certification of various specified disabilities identified in the Right of Persons with Disabilities Act, 2016 organized by Ministry Social Justice and Empowerment, 10 October 2017, New Delhi; Task Force Member, DBT Ninth Meeting of the Reconstituted Task Force on Bioengineering, DBT, 23-24 October 2017 (TRUNCATED AT 500 words); Faculty: Session: Cornea 3 Chairperson: Eye Banking and Corneal Preservation Techniques, iFocus National Postgraduate Education Program in Ophthalmology, 22 January 2018, New Delhi.

Professor Raj Pal was Chairperson-Retina Session, 68th Annual DOS Conference, 7-9 April 2017, New Delhi.

Professor M. Vanathi won Best Poster Award—2nd Prize in Keracon 2017; Member Scientific Committee, All India Ophthalmological Conference 2017-2020.

Dr Noopur Gupta was appointed expert for the Central Task Force at national level for policy planning and strategy for implementation for elimination of Trachoma from the country by the year 2020 by the Ministry of Health and Family Welfare; Expert, National Monitoring Committee for monitoring and reporting of Trachoma cases in states for elimination of Trachoma from the country by the year 2020 by the Ministry of Health and Family Welfare; WHO Regional Expert for South-East Asia (SEARO) on Prevention of Blindness and promoting eye health and represented India at the Regional Group Consultation-accelerating actions for Prevention of Blindness; WHO National Expert helped in developing Recommendations at the National level; NPCB-WHO SEARO Expert Group Meeting for Development of National Action Plan for Achieving Universal Eye Health in India, November 2017; Key ophthalmologist and cornea specialist, attended the release of Trachoma Survey Report, 2017 and instrumental in surveys to prove elimination of active trachoma infection from the country; Received AIIMS Research Excellence Award, 2017 in recognition of outstanding publication on prevalence of trachoma in Car Nicobar island; Expert for WHO for drafting and providing inputs for the World Report on Vision; Resource Faculty at workshop on Trachoma elimination-way forward with international Trachoma Expert, Dr Solomon from WHO, Geneva; Resource faculty and National WHO expert for NPCB-WHO SEARO Expert Group Meeting on Development of National Action Plan for achieving Universal Eye Health in India; Trainer and resource faculty for National PK Instruction Workshop, AIIMS-SightLife International as part of Surgeon Training Initiative; Surgeon Trainer and resource faculty for DALK and DSAEK Instruction Workshop, SightLife International as part Surgeon Training Initiative for ophthalmologists from all over India; Expert Ophthalmologist and trainer for optometrists and ophthalmologists at Thoubal, Manipur for supervision and monitoring of National Blindness Survey, 2015-2018 under NPCB, MoH&FW, May 2017; Keynote Speaker at Cornea and Eye Banking Conference, 9th Annual Meeting of Eye Bank Association of India in collaboration with Patna Ophthalmological Society; International Reviewer: Evaluated MSc Research thesis from University of New South Wales, Australia; Associate Editor, BMC Ophthalmology Journal; Reviewer for Welcome Trust DBT India Alliance Fellowship proposals for post-doctoral research programme; Chairperson and keynote speaker for the Cornea, Ocular Surface and Contact Lens Session at AIIMS Optometry Explorer 3; Trainer and resource faculty for DALK (lamellar keratoplasty) and DSAEK (endothelial keratoplasty) Workshop as part of Surgeon Training Initiative in EBAI, Patna and ISCKRS, New Delhi in September 2017 and August 2017.

Dr Shikha Gupta

Free paper (Judge in FP session), DOS 2017, 10 April 2017, New Delhi.

Dr Neiwete Lomi nominated as a visiting consultant for participants at Khelo India school games from 31 January-8 February organized by Ministry of Youth Affairs and Sports and SAI at JLN Stadium Sport Complex, New Delhi; Attended special meet on radiation safety awareness in ocular brachytherapy practice at AERB, Anushakti Mumbai on 21 March 2018; Attended medical examination for PG counselling, AIIMS on 22 February 2018; Awarded the best case presentation medal at Erudio 2018 at Bengaluru on the Title 'Retinoblastoma case masqueraded as endophthalmitis' presented by Dr Harika Junior resident.

Community Ophthalmology

Professor Praveen Vashist was nominated as Member Secretary of National Trachoma Elimination Task force and National Trachoma Monitoring Committee by Ministry of Health and Family Welfare, GoI; Nominated as chairperson for task force committee formed by GoI for formulating guidelines for Primary Eye care in the country; Invited for a radio talk on "Causes and Prevention of Blindness" at National Channel of AIR at Todapur, New Delhi on 3 April 2017, Interview was broadcasted on 4 (Hindi) and 7 April 2017 (English); Nominated as a representative of Dr R.P. Centre for VISION 2020 Board for the period 2017-2020; Attended stakeholders consultation for MTAB-Regd under the Chairmanship of Shri. V.K. Gupta Joint Secretary, Department of Health Research, MOH&FW on 27 July 2017 to discuss the HTA analysis on

the clinical, safety and cost effectiveness of different type of intraocular lens and lens material used for cataract surgery; Participated in International Agency for the Prevention of Blindness (IAPB) Council Meeting at Kathmandu, Nepal from 16-18 September 2017 also involved as panelist in the session on “Uncorrected Refractive Error”; Awarded AIIMS Excellence Award for Certificate of Commendation under clinical research for the research article title “Prevalence of Trachoma in Car-Nicobar Island, India after Three Annual Rounds of Mass Drug Administration with Azithromycin” for the academic year 2016-17; Had meeting with DDG and JS NPCB to discuss the involvement of “SEE NOW” with NPCB in creating awareness about eye health on 13 November 2017; Released the Trachoma Survey Report (2014-2017) with declaration of India free of infective Trachoma on 8 December 2017 along with Sh. Jagat Prakash Nadda, Hon’ble Union Minister of Health and Family Welfare and State Health Minister under the National Programme for Control of Blindness and Visual Impairment; Invited as an expert committee by Department of Biotechnology, Ministry of Science and Technology, New Delhi on 15 December 2017 for evaluation of the proposals received from IISc, L.V. Prasad Eye Institute and NIBMG, Kalyani; Participated in meetings of task force constituted for development of operational guidelines for Primary Care in Eye Care/Ophthalmology on 18 January 2018 at National Health Systems Resource Centre, New Delhi; Chaired the Community Optometry session in AIIMS Optometry Explorer from 20 January 2018 at Jawahar Lal Auditorium, AIIMS, One session was given to R P Centre team and optometrist from the department presented talks on various activities under community ophthalmology; Invited by State Programme Officer, Delhi and delivered a talk on “Primary Eye Care Vision Centres initiative by Dr R.P. Centre, AIIMS in Delhi” on 15 February 2018; Invited by World Health Organization (WHO) for participation in the world report on vision regional consultation from 15-16 March 2018 at Bangkok, Thailand, He was involved in four group discussions and submitted suggestions for the vision report; Nominated as Member Secretary of National Trachoma Task force and National Trachoma Monitoring Committee by Government of India, Dr RP Centre to submit the plan to Government of India for trachoma elimination activities; Is nominated as Nodal Officer for annual report submission of Dr R.P. Centre; Is nominated as member of the committee of the Nepal Trachoma Elimination Dossier Review Group to recommend the validation of trachoma elimination in Nepal.

Dr Suraj Singh Senjam awarded the Commonwealth Eye Health Consortium, UK for Master Training in Public Health for Eye Care at London School of Hygiene Tropical Medicine for the year 2017-2018.

Dr Vivek Gupta appointed as expert for the Central Task Force at national level for policy planning and strategy for implementation for elimination of Trachoma from the country by the year 2020 by the Ministry of Health and Family Welfare, Directorate General of Health Services, Government of India; Appointed as expert for the National Monitoring Committee for monitoring and reporting of Trachoma cases in states for elimination of Trachoma from the country by the year 2020 by the Ministry of Health and Family Welfare, Directorate General of Health Services, Government of India; Joint Organizing Secretary for the 51st Foundation Day Scientific Congress, Dr RP Centre for Ophthalmic Sciences; As a Public Health Specialist, attended the release of Trachoma Survey Report, 2017 by the Honorable Health Minister of India at Nirman Bhawan, MoH&FW and instrumental in surveys to prove elimination of active trachoma infection from the country; Expert for the World Health Organization for drafting and providing inputs for the World Report on Vision; Resource Faculty at the workshop on Trachoma Elimination—way forward with international Trachoma Expert, Dr Solomon from WHO, Geneva; Resource faculty and National expert for NPCB-WHO SEARO Expert Group Meeting on Development of National Action Plan for achieving Universal Eye Health in India; Nominated an Assistant Professor in-Charge, Computer Facility by Director AIIMS; Undertaken training programme on “International Classification of Functioning, Disability and Health (ICF) of FIC for Training of Trainers (TOT) for others” for in-services candidates at RHSTC Mohali, Punjab from 11-13 September 2017.

Dr Dilip Shende organized a one day Workshop/CME on Ophthalmic Regional Blocks and Resuscitation on 28 January 2017 as a part of Golden Jubilee celebrations of Dr R.P.C., AIIMS, New Delhi, Around 60-70 postgraduates attended the workshop; Presented the research paper entitled “Comparison of Peri-bulbar blocks and Sub-Tenon block in pediatric enucleation of eye” at the SASA (South African Society of Anaesthesiology) held at Johannesburg South Africa from 22-26 March 2017, Paper was well received and appreciated; Involved with Development of pediatric HDU facility at RPC with multispecialty approach involving ophthalmologists and pediatricians.

Dr Arshad Ayub has completed European Diploma in Anaesthesia and intensive care, part 1, 2017.

Dr Kanil Ranjith Kumar has completed European Diploma in Anaesthesia and intensive care (EDAIC-part 1).

Radiology

1. Editorial Board Member JCIR: Uro-Radiology Section
2. External examiner for MD Radiology at BPKIHS, Dharan, Nepal, August 2017
3. External examiner for the DMRD Exam of the Delhi University, 17-18 April 2017

Ocular Biochemistry

Professor Jasbir Kaur received 'National Science Day Appreciation Award', Punjab State Council for Science and Technology, September 2017; Received 'APTI Appreciation Award', Association of Pharmaceutical Teachers of India (Punjab Branch), September 2017; Examiner: PhD, Sher-I-Kashmir Institute of Medical Sciences, Srinagar; Jaipur National University, Jaipur; Member, Editorial Board: Journal of Ophthalmology: Open Access; SM Journal of Gene Therapy; Journal of Biomolecules and Biochemistry; Reviewer (Indexed Journals): Chairperson of a Technical Session and Guest Speaker, International Conference on Clinical Research, Faridkot, 8-9 September 2017 and one of my PhD students received 'Young Scientist Award'; Continued to be: Executive Council Member of Biotechnology Society of India; Member, Institutional Ethical Committee, CARICD (CCRAS, Ministry of AYUSH, Government of India), New Delhi.

Ocular Pharmacology

Dr Madhu Nath received Dr M. L. Wig Award for Best Clinical Research on the 61st Institute Day held at AIIMS, New Delhi in September 2017.

Dr T. Velpandian received Professor Mohib Ahmed Memorial Oration Instituted by Bihar Chapter of IPS on the Golden Jubilee conference of Indian pharmacological Society held at Patna in the year 2017; Received AIIMS Excellence Research Award (Third Prize) with the cash reward for Basic Sciences for the year 2017 (AIIMS excellence Research Award for the last 3 consecutive years).

Ocular Microbiology

Dr Gita Satpathy served as the SAC Committee member for RMRC, Bhubaneswar.

Dr Shakti Kumar Gupta (Medical Supdt.): Panelist in the "5th NATHEALTH Annual Event NATEv 2018", New Delhi on Friday 16 March 2018; Attended 70th Anniversary of the UK's National Health Services (NHS), Future of Healthcare organized by Department for International Trade (DIT) in association with Federation of Indian Chambers of Commerce and Industry (FICCI) on 5 February 2018, New Delhi; Member of "FICCI Health Services National Committee" for the year 2018 to 2019 and nominated as "Taskforce Chair for Pricing of Healthcare"; Invited as Chief Guest for the Valedictory session held on 23 January in Noida, Delhi on National Skill Development and Hands on Training in Quality Control of Biologicals for PG Students from University of Jammu and Himachal Pradesh organized by National Institute of Biologicals, Ministry of Health and Family Welfare (MoHFW) held from 3-23 January 2018; Expert member for Panel Discussions on "Universal Health Coverage in India Enabled by Emerging Technologies" on 19 January 2018, at New Delhi, organized CNN News 18; Expert member for "Faculty Selection for AIIMS", Patna on 29 September 2017 at Institute of Liver and Biliary Sciences, New Delhi; "Australia-India Digital Health Dialogue", organized by Confederation of Indian Industry (CII) and Australian Trade Commission held on 29 August 2017, New Delhi; 9th FICCI Healthcare Excellence Awards, 11th Edition of FICCI HEAL Indian Health Care: A Patient view" on 17-18 August 2017; External Expert for "Apical Selection Committee for Faculty Selection" of Sher-i-Kashmir Institute of Medical Sciences, Srinagar on 1 August 2017; External expert for Technical Evaluation Committee for providing Manpower for Housekeeping and Laundry Services etc. at Institute of Liver and Biliary Sciences, Vasant Kunj, New Delhi on 11 July 2017; Chairman, conclave on "Legal and Ethical Challenges in Healthcare Ecosystem" organized by Department of Hospital Administration, AIIMS, New Delhi and Research Foundation of Hospital and Healthcare Administration (RFHHA) held from 18-20 May 2017 at Manekshaw Convention Centre, New Delhi and panelist for the session on "Code of Conduct for Medical Technology Industry—Legal and Ethical Compliances"; External examiner for MD Hospital Administration Annual Examination (batch-2014) from 9-10 May 2017 at Sher-I-Kashmir Institute of Medical Sciences, Srinagar; External examiner for PG Medical degree/Diploma examination from 5-6 May 2017 at Jagadguru Sri Shivarathreeswara University, Mysuru, Karnataka; Expert member of selection committee for Selection of Resident Medical Officer on 13 April 2017 at New Delhi; Speaker, for CME on Medical Logistics and Supply Chain Management, Manekshaw Centre held on 6 April 2017 and Biomedical Equipment Management Issues, Challenges and Strategies.

VISITING SCIENTISTS

1. A workshop on "Paediatric Low Vision and Rehabilitation" was held on 26-27 November 2017, The world renowned Finnish ophthalmologist, **Dr Lea Hyvärinen**, was the course instructor
2. Foreign Guest Faculty Professor Jon Peiter Saunte from Copenhagen, Denmark visited on 8 December 2017
3. Dr Anthony Solomon, Medical Officer, Department of Control of Neglected Tropical Diseases, World Health Organization (WHO) Geneva and team from WHO came at Dr R.P. Centre on 13 February 2018, Also reviewed the data and discussed the strategy for trachoma elimination in India
4. Col (Dr) SK Md Jaynul Islam, Classified Specialist in Pathology, AFIP Dhaka, Bangladesh.

10.5. Jai Prakash Narayan Apex Trauma Centre

Chief

Rajesh Malhotra

Additional Medical Superintendent

Amit Lathwal

Professors

Anaesthesiology

Babita Gupta
Chhavi Sawhney

Laboratory Medicine

Arulselvi S
Purva Mathur

Radiodiagnosis

Shivanand G.
Atin Kumar

Anaesthesiology

Naveen Yadav

Nephrology

Soumita Bagchi

Obstetrics and Gynaecology

Garima Kachawa

Trauma Surgery

Pratyusha Priyadarshini
Abhinav Kumar
Narendra Choudhary
Dinesh Kumar Bagaria

Emergency Medicine

Sanjeev K Bhoi

Neurosurgery

Deepak Agrawal
Deepak K Gupta

Trauma Surgery

Sushma Sagar
Subodh Kumar
Amit Gupta
Biplab Mishra

Associate Professors

Cardiology

Neeraj Parakh

Neuroanesthesia

Keshav Goyal
Navdeep Sokhal
Ashish Bindra
Gyanendra Pal Singh
Neeraj Kumar

Paediatric Surgery

Shilpa Sharma

Assistant Professors

Transfusion Medicine

Rahul Chaurasia

Orthopaedics

Samarth Mittal

Forensic Medicine

Sanjeev Lalwani
Adarsh Kumar

Orthopaedics

Kamran Farooque
Vijay Sharma
Buddhadev Chowdhry
Vivek Trikha

Burns and Plastic

Maneesh Singhal

Critical Care

Kapil Dev Soni
Richa Garg

Neurosurgery

GD Satyarthee
Pankaj K Singh

Emergency Medicine

Tej Prakash Sinha

HIGHLIGHTS

Jai Prakash Narayan Apex Trauma Centre, AIIMS continued to provide leadership in quality patient care services, research, teaching and training on all aspects of trauma. All the faculty and staff members are working actively in providing state-of-the-art care to the trauma victims. An increase in all aspects of patient care was seen in 2017-2018. A total of 75,188 patients visited casualty in year 2017-2018, an increase by 5,637 over the previous year. A total of 6,910 patients were admitted, as compared to 5,637 admitted the previous year. A total of 48,657 patients attended follow up OPD, an increase of 8,063 patients over last year. A total number of 8,142 patients were operated upon, an increase of 2,700 operations over last year. The total laboratory tests conducted were 11,75,676, an increase of 53,734 tests. A total of 09 mass casualties were attended to in 2017-2018. The JPNA Trauma Center commissioned. New wards including private wards. A new emergency OT was commissioned in ED for minor produces, manipulation and POP of fractures and external fixator application etc. The Fragility Fracture service providing “Ortho Geriatric Services” was started at JPNATC in this year. Dedicated beds were earmarked for geriatric patients with fractures needing special care. A new Vishram Sadan was also inaugurated for the attendants of the patients, that has been built under a CSR program. Besides involvement in the undergraduate and postgraduate teaching at AIIMS, the faculty members are actively involved in providing short term and long-term training to the medical and paramedical staff of various hospitals and agencies of the country. To update the knowledge interactive seminars, CME’s, Symposium, Conferences have been organized. Over 209 research papers have been published in national and international journals. Faculty members are also involved in various research projects and have also presented the papers based on the research conducted by them in various national and international forums. Use of information technology in patient care related services, installations of newer equipment related to patient care are the other highlights of functioning of JPNATC. The JPNA Trauma Center is leading a multi-centric project on building capacities for Infection Control, Surveillance of HAIs and AMR, funded as a cooperative agreement by the CDC. A total of 36 hospitals, representing more than 120 ICUs are a part of this surveillance network. This is also a novel initiative to integrate the national Kaya Kalp program and the existing HAI surveillance framework.

EDUCATION

Training

The Faculty team of JPNATC is regularly involved in providing short term/elective training/clinical observership for students from India and abroad. During the year 2017-2018, the following were trained at JPNATC:

CRPF Doctors and Pharmacists:	92	CRPF constables:	300
ITBP Doctors and Nurses:	45	BRO Paramedics:	100
Total:	537		

Teaching

Faculty members of JPNATC were regularly involved in teaching and training programmes organized for undergraduate students, postgraduate students, senior residents, nurses, paramedical staff, and OT technicians. A total of 255 lectures were taken.

EDUCATION

CMEs/Workshops/Symposia/National and International Conferences Organized by JPNATC

- **Organizing Chairman of Symposium on “Kinematic Knee Replacement”** organized by Department of Orthopedics at JPNA Trauma Centre, AIIMS, New Delhi on 7 April 2017
- **Organizing Chairman of “ISHKS Arthroplasty Course 2017”** organized by Department of Orthopedics at JPNA Trauma Centre, AIIMS, New Delhi on 20-21 May 2017
- **Convenor** for the “ISHKS Arthroplasty Course 2017” organized by Department of Orthopedics at JPNA Trauma Centre, AIIMS, New Delhi on 20-21 May 2017
- **Organizing Chairman of “1st Navigated Univation X (Unicondylar) Knee Cadaveric Workshop”** organized by Department of Orthopedics at JPNA Trauma Centre, AIIMS, New Delhi on 15 July 2017
- 1st AIIMS Live Operative O-ARM workshop held on 4 February 2017, New Delhi
- 2nd AIIMS Interventional Radiology Course on Combined Ultrasonographic and Fluoroscopic Interventions, 8-9 April 2017
- 2nd International Workshop on Strengthening Emergency and Trauma Care at Primary Health care setting, 23-27 November 2017, Khon-Kaen Regional Hospital, Khon-Kaen, Thailand
- 4th UN Global Road Safety Week Basic Life Support and Post-Crash Management Course, 8 May 2017, Jaipur, Rajasthan
- 4th UN Global Road Safety Week Basic Life Support Program at Jamia Millia Islamia College for all students, 30 April 2017, Delhi

- 4th UN Global Road Safety Week Nizam's Institute of Medical Sciences has organised the 4th United Nations Global Road Safety Program, 17-18 June 2017, Department of Emergency Medicine, Nizam's Institute of Medical Sciences Punjagutta, Hyderabad
- 4th UN Global Road Safety Week Road safety Awareness programme at Centre for Health and Social Justice, 9 May 2017, Centre for Health and Social Justice, Saket, New Delhi
- 4th UN Global Road Safety Week Signature Campaign Inauguration, 6 May 2017, Director Office, AIIMS, New Delhi
- 7th International CME and Workshop on Cost Effective Use of Technology in e-health care held from 11-13 September 2017
- 7th Live Operative Workshop and Symposium on Complex Spinal Trauma held at JPNATC, AIIMS on 6 and 7 May 2017
- Advanced Ultrasound Course, 24-25 September 2017, Dubai
- Advanced Ultrasound Trauma life Support Course, KMC Manipal, 27 February 2018, Karnataka
- AIIMS—France Academy of Medicine Collaborative Symposium on “Trauma Management and Injury Prevention, 20-21 April 2018, JPNATC, Delhi
- AIIMS Advanced Ultrasound Trauma and Life Support Course held on 9-10 September 2017
- AIIMS—ANLS—7-8 October 2017 and 25-26 February 2018, JPNATC, AIIMS, New Delhi
- AIIMS Cadaveric Airway Workshop, 17 December 2017, JPNATC, AIIMS, New Delhi
- AIIMS Comprehensive Life Support Course, 10-12 April 2017, Nepal
- AIIMS Disaster Ultrasound Course—WADEM Conference, 24 April 2017, Canada
- AIIMS Emergency Sonography Course, 14-15 April 2018, JIPMER, Pondicherry
- AIIMS Neuroanesthesia Update 2017, 6-7 October 2017 at AIIMS, New Delhi
- AIIMS Neurological Life Support Workshop, 7-8 October 2017, JPNATC, AIIMS, New Delhi
- AIIMS Neurological Life Support Workshop, 25-26 February 2018, JPNATC, AIIMS, New Delhi
- AIIMS Radiology Course on Interstitial Lung Diseases, 5-6 August 2017
- AIIMS Radiology Course on Update on Abdominal MR Imaging, 3-4 February 2018
- AIIMS Ultrasound Trauma Life Support Course, 15-16 April 2017, Kerala
- AIIMS, CADAVERIC—Interventional Pain Management Workshop, 28 July 2017, JPNATC, AIIMS, New Delhi
- AIIMS-Khon-Kaen-WHO collaborative “Ultrasound In Primary Care” workshop at Khon-Kaen, Thailand, 26 November 2017, Thailand
- AITSC-WHO Workshop on Trauma Quality Improvement, 12 July 2017, JPNATC, AIIMS, New Delhi
- Annual conference of the Israeli Association for Emergency Medicine, “Tel Aviv, Israel”, 24-25 March 2017, Israel
- Australia India Trauma Systems Collaboration, Wrap-up Symposium, 12-13 March 2018, AIIMS, New Delhi
- Basic ECG Workshop for Nurses, 15 January 2018, JPNATC, AIIMS, New Delhi
- Basic Life Support (BLS) and Advanced Cardiac Life Support (ACLS) training to faculties, residents and nurses during AHA certified courses at AIIMS
- Border Road Organisation (BRO) Personnel's (Short Term Training) Short Term Training on Basic Emergency and Trauma Care, February 2018, JPNATC, Delhi
- Cadaveric Airway Workshop, 17 December 2017, JPNATC, AIIMS, New Delhi
- Cadaveric Interventional Pain Workshop, 28 July 2017, JPNATC, AIIMS, New Delhi
- Cadaveric pain workshop as a workshop co-ordinator on 28 July 2017
- Capacity Building Program for Trauma Care System development for the State of Rajasthan, JPN Apex Trauma Centre 22-24 May and 23-25 June 2017, Delhi
- Clinical Head and Neck Radiology: Case based approach, 9 December 2017
- CRPF personnel's (Tactical Combat Care Course), 15 December 2017, JPNATC, AIIMS
- Emergency Medical Services in Disaster Training for Doctors and Nurses, 5 July 2017, HIPA, Haryana
- Foundation Training Programme for Newly Recruited CHS Medical Officers, 22 June 2017, Auditorium, Teaching Block, NIHFW, Delhi
- Meeting on Establishing Trauma Centre at Shimla, 20 December 2017, Shimla
- MS Emergency Sonography Course, 1-2 September 2017, Mysore, Karnataka

- Organised a national conference including a cadaveric workshop as Organizing Secretary—Approaches to fractures around the knee at Cadaver Training and Research Facility, JPNATC, AIIMS on 26 November 2017
- Organised a national conference including cadaveric workshop as part of organizing team, 3rd AIIMS—ACSSST Pelvic Acetabular Course at Cadaver Training and Research Facility, JPNATC, AIIMS on 14-15 April 2018
- Organised the “AIIMS Neuroanaesthesia Update 2017” from 5-7 October 2017 at AIIMS, New Delhi
- Organizing Secretary 2nd AIIMS Cadaveric Pelvic—Acetabulum Course on 15-16 April 2017 at JPNATC, AIIMS, New Delhi; Invited to participate in Hip Attack Investigators meeting in Toronto Canada on 29 and 30 April 2017
- Organizing Secretary, Workshop on “Dignified Management of Dead” in joint collaboration with International Committee of Red Cross on 17 March 2018
- Paediatric Emergency and Trauma Ultrasound Course, 4 June 2017, Bhubaneswar, Odisha
- Short Term Training on Basic Emergency and Trauma Care ITBP Doctors and Nurses, October 2017, AIIMS, Delhi
- Short Term Training on Basic Emergency and Trauma Care ITBP Doctors and Nurses, March 2018, JPNATC, AIIMS
- Stakeholders Workshop on Road Safety for Bikaner Division, 29 January 2018, Bikaner, Rajasthan
- Strengthening Emergency and Trauma Care in Primary Healthcare Setting State of Rajasthan Third Technical Meeting, 22 October 2017, Jaipur, Rajasthan
- Strengthening Emergency and Trauma Care in Primary Healthcare Setting State of Kerala Third Technical Meeting, 27 July 2017, JPNATC, Delhi
- Strengthening Emergency and Trauma Care in Primary Healthcare Setting State of Kerala Meeting with Chief Minister of Kerala Shri Pinarayi Vijayan at Thiruvananthapuram, 10 November 2017, Kerala
- Strengthening Emergency and Trauma Care in Primary Healthcare Setting State of Kerala Work shop on Trauma Management and Triage Implementation, 27 December 2017, Kerala
- Strengthening Emergency and Trauma Care in Primary Health Care Setting—Visit and Expert Committee Meeting Experts from Government of Thamilnad Second Batch, 23 June 2017, JPNATC, AIIMS
- Strengthening Trauma and Emergency Care Workshop on Triage Protocol, 24-25 October 2017, Jaipur, Rajasthan
- Symposium on Life after Spinal Cord Injury at JPNATC, AIIMS on 5 September 2017
- Training and Observership for Pre Hospital Trainees (PTT) Students, 18 July-14 August 2017, JPNATC, Delhi
- Ultrasound Guided Vascular Access Course, 25 March 2018, Jubilee Mission Hospital, Thrissur, Kerala
- Ultrasound Guided Vascular Access, 5 August 2017, JPNATC, Delhi
- Work Shop on AIIMS Traige Protocol, 4 October 2017, JPNATC, AIIMS
- Work Shop on AIIMS Traige Protocol, 6 December 2017, JPNATC, Delhi
- Workshop on Personality Development Communication and Presentation Skills (PDCP) held on 18 January 2017, AIIMS, New Delhi
- Workshop on Research Ethics and Publications (REAP), held on 6 February, 19 April, 8 September 2017, New Delhi

Lectures delivered

Abhinav Kumar

1. Splenic Trauma: Marching toward organ conservation, “63rd Annual Foundation Day, King George Medical University”, 16 February 2018, Lucknow
2. Surgical Anatomy Head and Neck Region, “Cadevaric Skill Workshop on Head and Neck and Breast”, 22-23 March 2018, VMMC and SJH, New Delhi

Adarsh Kumar

1. Copyright Act and Plagiarism in medical writing, “First National Conference and 6th Academic Event by IJHRMLP”, 7-8 July 2017, International Journal of Health Research and Medicolegal Practice, Guwahati, Assam
2. Management of Dead in Disaster—Need for collaboration between Forensic Medicine and Forensic Science, “Resource Person- National Symposium on Emerging Trends in Forensic Science SAMVACHYYA-2017”, 6 November 2017, Shri Vaishnav Institute of Forensic Science, Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore, M.P.
3. Role of Medicolegal Experts in Human Identification, “Invited talk—Individual Identification Techniques”, 28 November 2017, National Institute of Criminology and Forensic Sciences, Rohini, New Delhi

4. Legal aspects to be dealt by Medical Officers, “CME Speaker for CHS Medical Officers”, 29 November 2017, National Institute of Health and Family Welfare, Munrika, New Delhi
5. Quantitative Estimation of Aluminium in Fatal AIP poisoning cases using ICP-AES, “Joint Conference of Society of Forensic Toxicology (SOFT) and The International Association of Forensic Toxicology (TIAFT)”, 6-11 January 2018, Boca Raton, Florida, USA
6. Disaster Victim Identification, “Resource person in National Symposium and Workshop on Biometrics and Bone Identification”, 27 January 2018, Department of Anthropology Lucknow University, Lucknow, UP
7. Placement of Forensic Radiology Services—Need of hour in India, 39th Annual National Conference of Indian Academy of Forensic Medicine—“FORENSIC MEDICON-2018”, 1-3 February 2018, JIPMER, Puducherry
8. Global perspective of Forensic Toxicology vis-à-vis Indian Scenario, “National Workshop and Conference DIAGNOCON-2018 on Contemporary Developments in Laboratory Medicine and Laboratory Management”, 23-25 February 2018, Kasturba Medical College, Manipal, Karnataka

Amit Gupta

1. Care of the injured patient—Need for strengthening trauma care systems, “2nd JK Medical Science Congress 2017, 1st Annual Conference of M P PCOS Society at”, 10-13 May 2017, Sher-i Kashmir International Conference Centre (SKICC), Srinagar, J&K, India
2. Trauma registries—Towards developing the National Trauma Data Bank, “Workshop Cum CME Programme: Health Record Science and Informatics for MRD Staff”, 22 May 2017, JPNATC, AIIMS, New Delhi
3. Trauma care systems in India—Need for first responder training, “Fast Tracking Road Safety initiatives in Gujarat”, 10 June 2017, International Roads Federation (India Chapter), Ahmedabad, Gujarat
4. Trauma management in CBRN emergencies, “5th Workshop on Medical Management of CBRN Casualties for Medical Officers”, 25 July 2017, DRDO at DRDO Bhawan, New Delhi
5. Trauma care system improvement, “Strengthening Trauma and Emergency Care System and Disability Prevention” State of Kerala, Training Program, 27-29 July 2017, JPNATC, AIIMS, New Delhi
6. Training of bystanders as first responders—Need of the hour, “Strengthening Road Safety and Transport System in India”, 22-23 August 2017, United Nations Institute for Training and Research and IRTE at College of Traffic Management, Faridabad
7. Trauma care and quality: Issues and the way forward, “TRAUMASICON 2017, 7th National Conference of Indian Association of Traumatology and Critical Care”, 10 September 2017, Government Medical College, Nagpur, India
8. Trauma systems, Trauma Registries and Trauma Quality Improvement, “Workshop on Trauma Care Systems”, 9-10 November 2017, Accident and Emergency Initiative, IIT Chennai, Tamil Nadu
9. Patterns in severity of injuries in VRUs in India, “Safety of Vulnerable Road Users”, 9-11 November 2017, Institute of Road Traffic Education, CTM, Faridabad, Haryana, India
10. Trauma care in India, “IRF World Road Meeting 2017”, 14-17 November 2017, International Roads Federation (India Chapter), Greater Noida Convention Centre, NCR Delhi
11. Course director and faculty, Advanced Trauma Assessment and Management Course (ATAM Course), “14th International Surgical Congress and SAARC Surgical Society Meeting 2017”, 7-10 December 2017, Society of Surgeons, Bangladesh and SAARC Surgical Care Society, Dhaka, Bangladesh
12. Management of solid organ injuries—Liver and spleen, “14th International Surgical Congress and SAARC Surgical Society Meeting 2017”, 7-10 December 2017, Society of Surgeons, Bangladesh and SAARC Surgical Care Society, Dhaka, Bangladesh
13. Trauma registries—Tools for quality improvement of trauma systems, “Consultation on Injury surveillance and Road Safety Legislation in India”, 20 December 2017, WHO Country Office (India), New Delhi
14. Trauma quality improvement, “1st Foundation Day of Department of Trauma Surgery”, 4 January 2018, Department of Trauma Surgery, KGMU, Lucknow, India
15. Trauma systems and trauma registries, “Workshop on Interventional study on comprehensive emergency care and trauma registry for road traffic injuries in India”, 9-10 February 2018, Jubilee Mission Medical College and Research Institute, Thrissur, Kerala, India
16. Caring for the multiply injured—Need to strengthen trauma systems and components of trauma centre, “93rd Training Course on Hospital Administration for Senior Hospital Administrators”, 13 February 2018, National Institute of Health and Family Welfare, New Delhi, India
17. Amputations and crush injuries, “1st National Conference on Industrial Emergency Medical Services (NiEMS)”, 22-25 February 2018, Lifeline Foundation, Ahmedabad, India

18. Management of chest trauma, “VIMS Trauma Update 2018”, 3 March 2018, Vivekananda Institute of Medical Sciences, Kolkata, India

Ashish Bindra

1. Panel: Paediatric neurological injury, “Medanta Neurocritical Care Update”, 1 April 2017, Medanta-Medicity, Gurgaon
2. Stellate ganglion block, “AIIMS Cadaveric chronic pain management Course”, 28 July 2017, JPNA Trauma Centre, AIIMS
3. ICP monitoring: What’s cooking inside, 22-24 March 2018, Hotel Le Meridien, Gurgaon
4. Management of status epilepticus, “AIIMS Neurological Life Support”, 26 February 2018, JPNA Trauma Centre, AIIMS
5. Monitoring in Neuroanaesthesia, “PG Assembly”, 19 February 2018, GB Pant Hospital, New Delhi

Atin Kumar

1. Sclerotherapy agents—Choosing correct agent and technique, “AIIMS Radiology course: Combined Ultrasound and Fluoroscopic Interventions”, 8-9 April 2017, New Delhi
2. Case based scenarios, “AIIMS Radiology course: Combined Ultrasound and Fluoroscopic Interventions”, 8-9 April 2017, New Delhi
3. Interventional radiology in traumatic vascular injuries, “Dr Gyan P Lal mid-term CME of Indian Radiological and Imaging Association”, 20-21 May 2017, New Delhi
4. Imaging of CSF Rhinorrhea, “Dr Gyan P Lal mid-term CME of Indian Radiological and Imaging Association”, 20-21 May 2017, New Delhi
5. Case based—Interventions in emergency and trauma, “BRACE 2017—Vascular and Interventional Radiology”, 7-9 July Chennai
6. Imaging of spinal trauma, “Dr Harnam Singh mid-term CME of Indian Radiological and Imaging Association”, 8-9 July 2017, Greater Noida, UP
7. Workshop on ‘Vascular Interventions’, “Joint sessions of the 5th Asia-Pacific Congress of Interventional Oncology, Annual Aorta and Endovascular Course 2017 and the 4th Annual Meeting of the Society of Emergency Radiology”, 25-27 August 2017, New Delhi
8. Optimised imaging and integrated image-guided management of liver injuries, “Joint sessions of the 5th Asia-Pacific Congress of Interventional Oncology, Annual Aorta and Endovascular course 2017 and the 4th Annual Meeting of the Society of Emergency Radiology”, 25-27 August 2017, New Delhi
9. Radiology of acute traumatic neurological emergencies, “AIIMS Neurological Life Support Course”, 7-8 October 2017, New Delhi
10. Imaging of skull base trauma, “RICON 2017—Annual State Conference of UP State Chapter of IRIA”, 28-29 October 2017, Aligarh, UP
11. Imaging of chest trauma, “4th AIIMS-MAMC-PGI Imaging course series on Chest and cardiovascular Imaging”, 3-4 November 2017, MAMC, New Delhi
12. Hepato-pancreato-biliary trauma: Emerging facets, “Hepatobiliary Imaging and Interventions CME”, 18 November 2017, ILBS, New Delhi
13. Case based approach for evaluation of CSF rhinorrhea, “Head and Neck Radiology Symposium”, 9 December 2017, New Delhi
14. Radiology of acute traumatic neurological emergencies, “AIIMS Neurological Life Support Course”, 25-26 February 2018, New Delhi
15. MRI clues to mitochondrial disorders, “Mini workshop on Clinical genetics”, 14 March 2018, New Delhi
16. Imaging of skull base lesions, “4th AIIMS-MAMC-PGI Imaging Course Series on Neuroradiology including Head and Neck Imaging”, 30 March-1 April 2018, Chandigarh

Babita Gupta

1. Workshop Director—Ultrasound Guided Regional Anaesthesia Workshop, “AIIMS Ultrasound Guided Regional Anaesthesia”, 17-18 January 2018, JPNATC, AIIMS
2. Utility of Ultrasound in Anaesthesia, “Post Graduate Assembly”, 28 August 2017, GTB Hospital, Delhi
3. Damage control resuscitation, “Indian Society of Anaesthesiologists—Mumbai”, 15 October 2017, Sahara Star, Mumbai

Biplab Mishra

1. Introduction to ATLS and course overview, “Advanced Trauma Life Support Course”, 13-15 July 2017, Puducherry
2. Initial assessment and management, “Advanced Trauma Life Support Course”, 13-15 July 2017, Puducherry
3. Thoracic trauma, “Advanced Trauma Life Support Course”, 8-10 June 2017, New Delhi
4. Introduction and overview of MAWE, “Management of Acute Wounds in ED”, 2 August 2017, Delhi
5. Patient and wound assessment, preparation and anaesthesia, “Management of Acute Wounds in ED (MAWE) Course”, 2 August 2017, Delhi
6. Introduction to ATLS and course overview, “Advanced Trauma Life Support Course (ATLS)”, 7-9 September 2017, Delhi
7. Initial assessment and management, “Advanced Trauma Life Support Course (ATLS)”, 7-9 September 2017, Delhi
8. Introduction and overview of MAWE, “Management of Acute Wounds in ED (MAWE) Course”, 25 November 2017, New Delhi
9. Types of wounds, medico-legal aspects and wound infection, “Management of Acute Wounds in ED (MAWE) Course”, 25 November 2017, New Delhi
10. Introduction and overview of MAWE, “Management of Acute Wounds in ED (MAWE) Course”, 3 February 2018, New Delhi
11. Shock, “Evaluation of a capacity building programme to develop Trauma ED in a tertiary care center”, 1 March 2018, Rishikesh
12. Initial management of trauma in A&E, “International congress and first Peruvian-Indian surgical meeting”, 16 March 2018, New Delhi
13. Access into thoracic cavity, “Second AIIMS Cadaveric Thoracic Surgery Course”, 27 March 2018, New Delhi

Chhavi Sawhney

1. Donor screening and management, “In House training of Nurses on Deceased Organs and tissue Donation”, Once a month, AIIMS, New Delhi
2. Participated in Workshop on Ultrasound Guided Regional Anaesthesia, “Annual Academic Sessions and Precongress workshops of Faculty of Medicine of College of Anaesthesiologists and Intensivists”, 9-11 November 2017, College of Anaesthesiologists and Intensivists, Colombo, Sri Lanka
3. To study the reduction in intra- and post-operative analgesia requirement and quality of recovery after pre-emptive intrathecal morphine in patients with pelvic acetabular injuries undergoing stabilisation, “71st Post Graduate Assembly in Anaesthesiology”, 8-12 December 2017, New York, USA

Deepak Agarwal

1. Legal, ethical and administrative issues in telemedicine and electronic consultations, “Conclave on Legal and Ethical Challenges in Healthcare Ecosystem”, 20 May 2017, Manekshaw Convention Centre, New Delhi
2. Smart healthcare in the era of digital India, “Elets 7th Healthcare Leaders Forum”, 30 June 2017, New Delhi
3. Innovations and breakthrough technology in health care, “7th International CME and Workshop on Cost Effective Technology in Health Care”, 11-13 September 2017, All India Institute of Medical Science, New Delhi
4. Post gamma knife increased tumor size in Vestibular Schwannomas: Progression or pseudoprogression, 15th Conference of the Indian Society for Stereotactic and Functional Neurosurgery, 15-16 September 2017, Post Graduate Institute of Medical Education and Research, Chandigarh
5. Android based cost effective ventilator, 2nd Annual Max Healthcare Patient Safety Conference, 22-23 September 2017, New Delhi

Deepak Gupta

1. Surgical advances in TBI care, “Kerala Neurosurgery Society”, 8-9 April 2017, Kerala
2. Multimodality monitoring in TBI, “Neuro Symposium Neurotrauma”, 19-21 April 2017, China
3. Pediatric head trauma, “Short Term Fellowship”, 1-8 June 2017, Italy
4. ICP monitoring in TBI, “Neurotrauma 2017”, 11-13 August 2017, Ooty
5. Front orbital advancement in Craniosynostosis, “NSICON 2017”, 30 November-3 December 2017, Nagpur
6. Indian data on CENTRE TBI global registry, “CINTER TBI Meeting”, 10-12 September 2017, Belgium
7. Complex spine trauma, “Nepal Neuro Conference”, 22-23 October 2017, Nepal
8. T4T AO Neuro Faculty Course, “AO Course”, 12-13 August 2017, Hong Kong

9. Craniopagus twin complexities, “INDSPN 2018”, 31 January-4 February 2018, Hyderabad
10. Case based discussion of IONM in spine trauma, “IONM”, 22-24 February 2018, Kolkata
11. Decompressive craniectomy evidence based guidelines, “Indo Japan Joint Conference”, 3-4 March 2018, Secunderabad

Dinesh Kr Bagaria

1. Current status of Advanced Trauma Life Support (ATLS) courses in India and future directions, “World Road Meet 2017”, 17 November 2017, Greater Noida
2. Role of investigations in patients with suspected abdominal injuries, “ASICON- 2017”, 27 December 2017, Jaipur
3. Management of Liver trauma—Battlefield with multiple weapons: What to use and when, “Surgical Education Programme 2018”, 16 February 2018, Lucknow

Gyanendra Pal Singh

1. Keeping up to pace with NOACs and their impact in Neurocritical Care, “MNCC 2017”, 1-2 April 2017, Medanta, Gurgaon
2. Depth of consciousness, “NCMS 2017”, 9 July 2017, NIMHANS, Bengaluru
3. Neuromonitoring, “RSACPCON 2017”, 16-17 September 2017, GSVM Medical College, Kanpur
4. Postoperative recovery profile in neurosurgical patients: Which is the better choice, Inhalational vs TIVA, “Annual Neurocritical Care Update 2018”, 22-24 March 2018, Artemis, Gurgaon

Kamran Farooque

1. Percutaneous fixation in vertebral fractures: In or out, “Delhi Traumacon 2017- South Delhi Orthopaedic Society”, 9 July 2017, New Delhi
2. Subaxial Cervical Spine Trauma Imaging, “DOA Musculoskeletal Imaging CME”, 6 August 2017, LHMC, New Delhi
3. Geriatric Trauma, “ATLS Course”, 8 September 2017, JPNATC, AIIMS.
4. Case Presentation on Kyphosis Correction, “Kyphotic Deformity Symposium, APSS- APPOS 2017 (Asia Pacific Spine Society Conference)”, 23 September 2017, Grand Hyatt, Goa
5. Case Presentation on Thoraco Lumbar Burst Fracture, “Spine Trauma Symposium, APSS- APPOS 2017 (Asia Pacific Spine Society Conference)”, 24 September 2017, Grand Hyatt, Goa
6. Initial Assessment and Management, “ATLS Course”, 12 October 2017, JPNATC, AIIMS
7. Faculty in Panel Discussion on “PIVD with Instability, “AO Spine Master Symposium”, 14 October 2017, The Grand Hotel, New Delhi
8. Percutaneous Pedicle Screws: Techniques, Tips and Tricks, “6th IASA- Indo American Spine Association- Bio Skills Development course”, 10 November 2017, JPNATC, AIIMS
9. Spine and Pelvic Injuries, “Lecture for III year Nursing Students”, 15 November 2017, AIIMS Delhi
10. Burst Fracture Overview, “7th AIIMS Annual Spine Conference”, 18th November 2017, CN Center, AIIMS, New Delhi
11. Faculty in Panel Discussion on Complex Spine Trauma Session, “ASSICON 2018”, 19 January 2018, ITC Grand Chola, Chennai
12. Classification and Management of Thoraco Lumbar Spine Fractures, “SPINECON 2018- Annual Master Course in Spine Surgery”, 3 February 2018, Crown Plaza, Gurgaon
13. Clinical Examination of the Knee, “Delhi Arthroscopy Course”, 10 February 2018, Sports Injury Centre, New Delhi
14. Course Director, “ATLS Course”, 15-17 March 2018, JIPMER, Pondicherry

Kapil Dev Soni

1. Shock, Shock Station, “Advanced Trauma Life Support (ATLS) provider course organized in association with American College of Surgeons—Committee on Trauma”, 6 April 2017, New Delhi
2. How to conduct research in ICU, “ORCC-CON Bhopal”, 29 April 2017, Bhopal
3. Diagnosis and certification of brain stem death criteria, “Training Programme on Deceased Organ and Tissue Donation”, 3 May 2017, New Delhi
4. Shock, shock station, “Advanced Trauma Life Support (ATLS) Provider Course Organized in Association with American College of Surgeons—Committee on Trauma”, 4 May 2017, New Delhi

5. Shock, “Workshop on Trauma Care”, 29 June 2017, Ahmedabad
6. The ultrasound and breathing assessment trauma, Breathing + Skill Station, “EM SONO”, 3 August 2017, New Delhi
7. Panel discussion—Acute kidney injury, “ACCORDIAON 2017”
8. ALBUMIN—Beyond a resuscitation or replacement fluid, “Rational Use of Intravenous Fluid”, 10 December 2017, Faridabad
9. The ultrasound and breathing assessment trauma, Breathing + Skill Station, Breathing, Dyspnoea, Pain Abdomen, Disability, “EM SONO”, 18 December 2017, New Delhi
10. Surveillance for ventilator associated infection, “Workshop on Excellence in Hospital Infection Control Surveillance”, 1 January 2018, New Delhi
11. Introduction of structured TQIM meeting AIIMS, “AITSC Wrap up Symposium”, 13 March 2018, New Delhi
12. Point of care lung ultrasound in critical care, “2nd Annual Neuro Critical Care Update 2018”, 23 March 2018, Gurgaon
13. Workshop on advanced mechanical ventilation—Non conventional modes: HFOV, Prone positioning, “AIIMS PULMOCRIT 2018”, 30 March 2018, New Delhi
14. Femur shaft fracture fixation in head-injured patients: Is the patient cleared for surgery, “Resuscitation in Trauma and Perioperative care”, 29 March 2018, Chandigarh

Keshav Goyal

1. Neuromonitoring and TBI; Panel discussion, “3rd Medanta Neurocritical Care Conference (MNCC) 2017”, 2 April 2017, Medanta—The Medicity, Gurgaon, Haryana
2. Spine and spinal cord trauma, “Advanced Trauma Life Support (ATLS)”, May 2017, JPNATC, AIIMS
3. Airway and ventilation, “Advanced Trauma Life Support”, May and July 2017, JPNATC, AIIMS
4. Considerations in elderly trauma victims, “Advanced Trauma Life Support (ATLS)”, July 2017, JPNATC, AIIMS
5. Fiberoptic Bronchoscopy Guided intubation: A tool for difficult airway management, “3rd Cadaveric Airway Workshop”, 2017, JPNATC, AIIMS
6. Facet joint block: Considerations and tips, “2nd Cadaveric Pain Workshop”, July 2017, JPNATC, AIIMS
7. Diagnosis and certification of brain stem death criteria, “ORBO: In Service Training of Doctors on Deceased Organ and Tissue Donation”, September 2017, CMET, AIIMS
8. Pediatric TBI-Panelist, “Pediatric Neurocare-Neurosciences Masterclass”, 18-19 November 2017, Global Hospital, Chennai
9. Non neurological complications in neurotrauma patients in ICU at apex trauma centre: A prospective observational study, “34th Annual Academic Congress 2018”, 27-30 January 2018, Colombo, Sri Lanka
10. Donor screening and maintenance, “ORBO: In Service Training of Nurses on Deceased Organ and Tissue Donation”, 19 February 2018, CMET, AIIMS

Narender Choudhary

1. Adherence to safety practices in motorized two and four wheelers in National Capital region: Data from Level I Trauma Center, “World Road Meet 2017”, 17 November 2017, Greater Noida
2. Evaluation of a Trauma Patient in Emergency Room, “63rd Annual Foundation Day, King George Medical University, Lucknow”, 16 February 2018, Lucknow
3. Resuscitative Thoracotomy in Trauma Patient, “2nd AIIMS Cadaveric Thoracic Surgery Course”, 27 March 2018, New Delhi

Navdeep Sokhal

1. Musculoskeletal trauma, “ATLS”, 7 July 2017, JPNATC, New Delhi
2. Stellate Ganglion Block, “Cadaveric Pain Conference”, 28 July 2017, JPNATC, New Delhi
3. USG guided arterial line cannulation, “AIIMS Neuroanesthesia Update”, 8 October 2017, AIIMS, New Delhi
4. Percutaneous tracheostomy, “Airway Management Workshop: Cadaver Training and Research Facility”, 17 December 2017, JPNATC, New Delhi
5. Infrascan: Hand held CT scan, “AIIMS Neurological Life Support”, 26 February 2018, JPNATC, AIIMS, New Delhi

Niraj Kumar

1. Caudal block, “AIIMS, CADAVERIC—Interventional Pain Management Workshop”, 28 July 2017, JPNATC, AIIMS, New Delhi
2. Vascular access, “AUTLS”, 4 August 2018, JPNATC, AIIMS, New Delhi
3. Preparations and Seldinger technique, “Ultrasound Guided Vascular Access”, 5 August 2017, JPNATC, AIIMS
4. Donor screening and maintenance, “ORBO”, 23 August 2017, CMET, AIIMS, New Delhi
5. PCT, “NAC 2017”, 8 September 2017, VMMC and Safdarjung Hospital, New Delhi
6. Concepts on HEAD-TO-TOES Secondary Management and Monitoring, “CEUTEH-2017”, 10 September 2017, JPNATC, New Delhi
7. USG guided vascular access, “AIIMS Neuroanaesthesia Update 2017”, 6-7 October 2017, AIIMS, New Delhi
8. Spinal cord injury, “ANLS”, 6-7 October 2017, AIIMS, New Delhi
9. Diagnosis and certification of brain stem death criteria, “ORBO”, 11 October 2017, CEMT, AIIMS, New Delhi
10. Ultrasonography in anaesthesia—Way forward and road blocks, “27th ISACON East Zone 2017”, 13-15 October 2017, Jamshedpur
11. Anaesthesia in sitting position, “NCOTT”, 29 October 2018, AIIMS, New Delhi
12. Ultrasound as an aid to airway, “Cadaver Airway Workshop”, 17 December 2017, JPNATC, AIIMS, New Delhi
13. Vascular access, “AIIMS-EM-SONO”, 18-19 December 2017, JPNATC, AIIMS, New Delhi
14. Lower Limb Blocks, “C-AURA”, 28 February-1 March 2018, JPNATC, AIIMS, New Delhi

Pankaj Singh

1. Evolution in management of C1 hangmans fracture, “7th AIIMS Complex Spine Live Operative Workshop”, 6-7 May 2017, AIIMS, Delhi
2. Evolution in management of hangmans fracture, “ANTC”, 26-29 October 2017, AIIMS, Delhi

Purva Mathur

1. Overview of HAI surveillance, “IV Workshop on Capacity Building for HAI Surveillance in India”, 7 September 2017, Delhi
2. External quality assessment scheme, “IV Workshop on Capacity Building for HAI Surveillance in India”, 7 September 2017, Delhi
3. Prevention of central line associated blood stream infections, “IV Workshop on Capacity Building for HAI Surveillance in India”, 7 September 2017, Delhi
4. Capacity building in infection control, “41st Annual Conference of Indian Association of Medical Microbiologists (IAMM)”, 25 November 2017, Ranchi
5. HAI surveillance in India, “Paediatric Infectious Disease conference PHOCON”, 24 November 2017, Kolkata
6. IPC and HAI surveillance in India, “Workshop on Hospital Infection Control”, 1 February 2018, Delhi
7. Implementation of antimicrobial stewardship in a tertiary care hospital: An experience, “Workshop on Optimizing Antimicrobial Stewardship in a Public Health Care Setting: Challenges and Opportunities”, 7 December 2018, Delhi
8. Surveillance of healthcare associated infections in India: What’s new? “in Micro-D CON—Annual Meeting of the Delhi Chapter”, 9 December 2018, Delhi

Richa Agarwal

1. Shock and its management, “Advanced Trauma Life Support Course”, 11 April 2017, JPNATC, AIIMS, New Delhi
2. How to read spine x-ray, “Advanced Trauma Life Support Course”, 4 August 2017, JPNATC, AIIMS, New Delhi
3. Trauma in women, “Advanced Trauma Life Support Course”, 4 August 2017, JPNATC, AIIMS, New Delhi
4. TRIAGE in trauma, “Advanced Trauma Life Support Course”, 4-16 August 2017, JPNATC, AIIMS, New Delhi
5. Donor screening and maintenance, “Programme on Deceased Organ and Tissue Donation by ORBO”, 7 September 2017, CMET, AIIMS, Delhi
6. Airway management in trauma, “Advanced Trauma Life Support Course”, 7 September 2017, CMET, AIIMS, Delhi

7. Safe ICU panel discussion, “15th Annual Delhi Critical Care Symposium and 3rd North Zone Critical Care Conference”, 17 September 2017, Gurgaon
8. Donor screening and maintenance, “Programme on Deceased Organ and Tissue Donation by ORBO”, 20 September 2017, CMET, AIIMS, Delhi
9. Airway management, “ANLS Course Neuro Anaesthesia Update”, 7 October 2017, JPNA Trauma Centre, AIIMS, Delhi
10. Arterial blood gas analysis and TEG interpretation, “Neurocritical care workshop”, 29 October 2017, JPNA Trauma Centre, AIIMS, Delhi
11. Complicated poly trauma, “5th Annual Critical Care Conference, Sir Ganga Ram Hospital”, 26 November 2017, Delhi
12. Trauma and burn management, “FCCS Course”, 17 December 2017, Max Hospital, Saket, Delhi
13. Initial assessment of the sick patient, “Acute Critical Care Course”, 29 December 2017, MG University, Jaipur
14. Renal dysfunction in surgical patient, “Acute Critical Care Course”, 29 December 2017, MG University, Jaipur
15. Airway and ventilation, “Acute Critical Care Course”, 29 December 2017, MG University, Jaipur
16. Approach to a surgical patient with altered sensorium, “Acute Critical Care Course”, 29 December 2017, MG University, Jaipur
17. Blood stream infection surveillance, “Infection Control Surveillance Workshop”, 1 January 2018, JPNATC, AIIMS, New Delhi
18. Airway and ventilation, “ANLS Course”, 25 February 2018, JPNATC, AIIMS, New Delhi
19. Sugar or salt for head injured patient, “Resuscitation in Trauma and Preoperative Care”, 29 March 2018, PGIMER, Chandigarh

S. Arulsevi

1. Clinician laboratorian interface, “Know your lab” CMET CME, 7 February 2018, AIIMS, New Delhi
2. Trauma induced rhabdomyolysis, “16th Annual Meeting of the Society for Free Radical Research India 2018 (SFRRRI 2018) and International Conference on Translational Research in Free Radicals, Micronutrient Antioxidants and Functional Foods”, 18-20 February 2018, AIIMS, New Delhi
3. Urine and semen examination, “BSc nursing” 27 February 2018, AIIMS, New Delhi
4. Lab tests in Neurology, “MBBS Final Semester”, 15 March, 2018, AIIMS, New Delhi
5. Disseminated Intravascular coagulation and hyperfibrinolysis in Traumatic Brain Injury, “4th AIIMS Neurotrauma Conference”, 27-28 October 2017, AIIMS, New Delhi
6. Writing Research paper: Discussion, “Research Ethics and Publications for Doctors (REAP)”, 19 April and 14 June 2017, AIIMS, New Delhi

Sanjeev K Bhoi

1. Airway ultrasound, “WACEM 2017”, 4 October 2017, National Capital Hospital, Colombo

Soumita Bagchi

1. Updates of Oxford classification of IgA nephropathy, “Delhi Nephrology Society—Annual Update”, 21 May 2017, AIIMS, Delhi
2. IgA nephropathy in India: Is it different, “AIIMS Glomerulonephritis Conclave”, 27 October 2017, AIIMS, Delhi
3. Calcium handling by the kidneys: When does it concern the nephrologist, “Indian Society of Nephrology Annual Conference 2017”, 14 December 2017, Delhi
4. A peek into proteomics and metabolomics in CKD, “Indian Society of Nephrology—North Zone Annual Conference 2017”, 18 February 2018, Jaipur, Rajasthan
5. Women as organ donor, “Nursing Symposium—World Kidney Day 2018”, 8 March 2018, AIIMS, Delhi
6. Nephrotic syndrome in adults, “CME-World Kidney Day 2018”, 9 March 2018, ESI Hospital, Delhi
7. Early initiation of renal replacement therapy could be beneficial in cirrhotics-Against (Debate), “Annual Conference of the Asian Pacific Association for the Study of the Liver 2018”, 16 March 2018, Delhi

Shivanand Gamangati

1. Peripheral vascular disease: Imaging and interventions, “AIIMS-MAMC-PGI Imaging Course on Chest and Cardiovascular Imaging”, 3-4 November 2017, MAMC, New Delhi

2. Response assessment of HCC, “AIIMS Radiology Course—An Update on Abdominal MR Imaging”, 3-4 February 2018, AIIMS, New Delhi
3. Ablative therapies in liver focal lesions, “27th Annual Conference of the Surgical Gastroenterology-IASGCON2017”, 5-8 February 2018, JIPMER, Puducherry
4. Radiological interventions in HVOTO, “Current Perspectives in Liver disease: CPLD 2017”, 7-8 October 2017, AIIMS, New Delhi
5. Biliary Interventions: Advances and evidence based practice guidelines, “Hepato-Biliary Imaging and Interventions CME”, 18 November 2017, ILBS, New Delhi
6. Imaging and interventions in Budd Chiari Syndrome, “71th Annual Conference of IRIA”, 25-28 January 2018, Mumbai
7. Midface Injuries, “Symposium on Clinical Head and Neck Radiology: Case based approach”, 9 December 2017, AIIMS, New Delhi
8. Chemoembolization in HCC: Current status, “1st Indo-US Onco-imaging Conference”, 20-22 March 2018, TMH, Mumbai
9. Imaging in head trauma, “3rd AIIMS-MAMC-PGI Imaging Course on Neuroradiology Including Head and Neck Imaging”, 30 March-1 April 2018, PGIMER, Chandigarh

Subodh Kumar

1. Protocol based trauma management—ATLS principles, “Trauma Congress 2017”, 22 April 2017, Government Medical College, Srinagar
2. Laparoscopic anatomy of groin hernia, “In Training Course in Laparoscopic Hernia Surgery”, 25 July 2015, AIIMS, New Delhi
3. Pelvic trauma—Surgical aspects, “TRAUMASICON 2017”, 10 September 2017, Nagpur
4. Dr H. Lalmohan Singh Oration on Comprehensive management of Blunt abdominal and pelvic Trauma, “ASIMANICON 2017”, 7 October 2017, Imphal, Manipur
5. Management of vascular trauma, “ASIMANICON 2017”, 7 October 2017, Imphal, Manipur
6. Management of Torso Trauma, “EMCON 2017”, 2 November 2017, Jaipur, Rajasthan
7. Laparoscopic anatomy of groin hernia, “In Training course in Laparoscopic Hernia Surgery”, 14 November 2015, AIIMS, New Delhi
8. Management of thoracic trauma, “SURGICON 2017”, 11 November 2017, Lady Hardinge Medical College, Delhi
9. Traumatic Pancreatic ductal disruption, “Mid Term CME of IHPBA”, 24 November 2017, Chandigarh
10. Management of airway in trauma patient, “International Congress of Society of Surgeons of Bangladesh”, 7 December 2017, Dhaka, Bangladesh
11. Management of torso trauma, “Mid Term CME of IHPBA”, 24 November 2017, Chandigarh
12. Management of airway in trauma patient, “International Congress of Society of Surgeons of Bangladesh”, 7 December 2017, Dhaka, Bangladesh
13. Management of chest injuries at a Level I trauma centre, “International Congress of Society of Surgeons of Bangladesh”, 7 December 2017, Dhaka, Bangladesh
14. Laparoscopic anatomy of groin hernia, “In Training course in Laparoscopic Hernia Surgery”, 12 December 2015, AIIMS, New Delhi
15. Training in trauma care in India beyond ATLS, “1st Foundation Day”, 3 January 2018, King’s George Medical University, Lucknow
16. Laparoscopic anatomy of groin hernia, “In Training course in Laparoscopic Hernia Surgery”, 22 January 2018, AIIMS, New Delhi
17. Laparoscopic anatomy of groin hernia, “In Training Course in Laparoscopic Hernia Surgery”, 26 February 2018, AIIMS, New Delhi
18. Role of laparoscopy in trauma, “MASCON 2018”, 10 March 2018, AIIMS, Rishikesh
19. Initial assessment of trauma victim, “Advanced Trauma Life Support Course (ATLS)”, 22 March 2018, RML Hospital, New Delhi
20. Management of cardiac injury, “AIIMS Thoracic Surgery Course (ATSC)”, 27 March 2018, AIIMS, New Delhi

Sushma Sagar

1. Reconstructive issues in Trauma, “30th Surgical Seminar the Management of Patients with War Wounds”, 29 March-2 April 2017, Geneva, Switzerland
2. Introduction to ATLS and course overview, “Advanced Trauma Life Support Provider Course”, 13-15 July 2017, JPNATC, AIIMS, New Delhi
3. How can youth contribute to changing the scenario of road safety in India, “i-SAFE Challenge by IRSC, MoRTH, TRIPP, Delhi Traffic Police”, 19 August 2017, IIT Delhi
4. Soft tissue reconstruction in Trauma and Amputation, “Indian Association of Traumatology and Critical Care, Government Medical College”, 10 September 2017, Nagpur
5. Road safety for bystanders, “IRSC WORKSHOP”, 15 October 2017, JPNATC, Delhi
6. Special situations in bariatric surgery, “1st National PG CME on Bariatric Surgery”, 2 December 2017, AIIMS, Delhi
7. Challenges and gender biases to women surgeons in developing world, “National Symposium on Contribution of Women in Science in India”, 15 February 2018, Kolkata
8. REPAIR study, “Australia India Trauma System Collaboration (AITSC) Wrap Up Conference”, 12 March 2018, AIIMS, New Delhi

Tej Prakash Sinha

1. Emergency care system, “WHO Meeting on Integration”, 13 December 2017, AIIMS, New Delhi

Vijay Sharma

1. Definitive management of Pelvic fracture: Anterior Ring, “2nd AIIMS Pelvic—Acetabulum Cadaveric Course”, 15-16 April 2017, AIIMS, New Delhi
2. Decision making in treatment of acetabulum fractures, “2nd AIIMS Pelvic—Acetabulum Cadaveric Course”, 15-16 April 2017, AIIMS, New Delhi
3. Classification of pelvic ring fractures and its use, “12th Zimmer Mechanobiology Trauma Conference (ZMTC)”, 13-15 July 2017, Bengaluru
4. Which pelvic fractures need fixation? “12th Zimmer Mechanobiology Trauma Conference (ZMTC)”, 13-15 July 2017, Bengaluru
5. Musculoskeletal trauma, “ATLS”, 3-5 August 2017, JPNATC, AIIMS
6. Complex Tibial Plateau fractures, “South Delhi Orthopaedic (SDO) Meeting”, 8 August 2017, New Delhi
7. Fracture proximal Femur with ipsilateral fractures, “East Delhi Orthopaedics Association Meeting”, 10 September 2017”, East Delhi
8. Transverse and T shaped Acetabular fractures, “IOACON, 2017 Pelvic- Acetabulum Workshop”, 26 December 2017, Brilliant Convention Centre, Indore
9. Posterior reduction and fixation technique in Acetabular fractures, “Basic Concepts in Acetabulum Fracture Fixation”, 18 March 2018, AIIMS, New Delhi

Vivek Trikha

1. Current updates of acetabular fractures, “2nd AOPAS 2018”, 23-25 March 2018, Bengaluru
2. My worst case: Lessons learnt, “2nd AOPAS 2018”, 23-25 March 2018, Bengaluru
3. Classification and radiology of acetabular fractures, “44th BOACON 2018”, 9-11 February 2018, Bhagalpur
4. Bicondylar proximal tibia fractures: Current concepts, “44th BOACON 2018”, 9-11 February 2018, Bhagalpur
5. Posteriorly fixation for proximal Tibia fractures, “18th CGIOACON 2018”, 19-21 January 2018, Jagdalpur
6. Proximal humerus fractures: Tips for management, “42nd OOACON 2018”, 13-14 January 2018, Puri
7. The elderly hip fractures: New epidemic, “Delhi Medical Association Annual Meeting”, 24 December 2017, Delhi
8. Reduction and fixation of Tibial condyle fractures, “Fractures Around the Knee”, 26 November 2017, Delhi
9. Anterior Fixation and Reduction in Acetabular Fractures, “23rd POACON 2017”, 18-19 November 2017, Patiala
10. Distal Tibia fractures: How to avoid complications, “Mid Term Trauma Meet of UPOA”, 24 September 2017, Aligarh
11. Infusion and transfusion: What, when, how much? “AOTS 3rd Trauma Update”, 1-3 September 2017, Kolkata
12. ABC fractures: Reduction, approach and outcome, “AOTS 3rd Trauma Update”, 1-3 September 2017, Kolkata

13. Approach, reduction and fixation of anterior ring, "AO Pelvic Course", 27-30 July 2017, Bengaluru
14. Pathophysiology of severely injured pelvic patient, "AO Pelvic Course", 27-30 July 2017, Bengaluru
15. Scapula fracture management, "Delhi Traumacon", 9 July 2017, Delhi
16. Spine and spinal cord injuries, "ATLS", 9 June 2017, Delhi
17. Role of biochemical markers in treating a polytraumatized patient, "AO Trauma Annual Conference", 28-30 April 2017, Chennai
18. Posterior fixation of proximal tibia fractures, "Uttarakhand Annual Conference", 7 April 2017, Rudrapur
19. Radiological anatomy of proximal femur fractures faculty talk at, "Delhi Advanced Trauma Course", 2 April 2017, Delhi

Oral papers/posters presented

1. Kumar A. Extraction and Identification of Amitriptyline, Nortriptyline and Imipramine in biological samples by planar chromatography using different solvent systems, "8th International Conference of Indian Association of Medicolegal Experts-IAMLE-2017", 29-30 September and 1 October 2017, Agra U.P.
2. Kumar A. Determination of Aluminium and Zinc in autopsy samples by iCP-AES: Method validation, "8th International Conference of Indian Association of Medicolegal Experts-IAMLE-2017", 29-30 September and 1 October 2017, Agra U.P.
3. Kumar A. Problems in Toxicological analysis in phosphide poisoning cases, "2nd Annual national Conference of Medicolegal Experts Association of Madhya Pradesh", 13-14 January 2018, LN Medical College and JK Hospital, Bhopal, MP
4. Kumar A. Quantitative estimation of zinc in fatal zinc phosphide poisoning cases using Inductively Coupled Plasma-Atomic Emission Spectrophotometry (ICP-AES), "24th All India Forensic Science Conference", 10-12 February 2018, Gujarat University, Ahmedabad, Gujarat
5. Kumar A. Percutaneous Direct Embolization of Pulmonary Arterial Pseudoaneurysm: Mixed Bag of Success and Failure, "4th World Congress of Thoracic Imaging", 18-21 June 2017, Boston, United States of America
6. Kumar A. Rare Focal Lesions of Liver: Can Imaging come to our rescue, "103rd Annual Meeting RSNA 2017", 26 November-1 December 2017, Chicago, USA
7. Kumar A. MR Enterographic Features of Bowel Tuberculosis and Changes after Therapy, "103rd Annual Meeting RSNA 2017", 26 November-1 December 2017, Chicago, USA
8. Kumar A. Can ADC Be Used as a Surrogate Marker of Response to Therapy in Intestinal Ulcer-constrictive Diseases? "103rd Annual Meeting RSNA 2017", 26 November-1 December 2017, Chicago, USA
9. Kumar A. Perioperative internal Iliac artery balloon occlusion in the setting of placenta accreta and its variants: What the Interventional radiologist needs to know, "103rd Annual Meeting RSNA 2017", 26 November-1 December 2017, Chicago, USA
10. Kumar A. Interventional radiology in Obstetric emergencies, "103rd Annual Meeting RSNA 2017", 26 November-1 December 2017, Chicago, USA
11. Kumar A. Additive value of arterial phase in CT evaluation of splenic injuries in blunt abdominal trauma, "103rd Annual meeting of Radiological Society of North America 2017", 26 November-1 December 2017, Chicago, USA
12. Kumar A. Unidentified bright objects of spleen on arterial phase CT: Differentiating features of this mimicker of splenic vascular injury in blunt abdominal trauma, "103rd Annual Meeting of Radiological Society of North America 2017", 26 November-1 December 2017, Chicago, USA
13. Kumar A. Mimickers of Venous Malformation: Multimodality Imaging review, "17th Asian Oceanian Congress of Radiology and 71st Annual Conference of Indian Radiological and Imaging Association (IRIA)", 25-28 January 2018, Mumbai
14. Kumar A. MRI of brachial plexus injury: Imaging technique and spectrum of findings, "103rd Annual Meeting of Radiological Society of North America", 26 November-1 December 2017, Chicago, USA
15. Kumar A. Imaging and Interventions in Peripheral Vascular Trauma; A comprehensive review for emergency radiology trainee, "103rd Annual Meeting of Radiological Society of North America", 26 November-1 December 2017, Chicago, USA
16. Kumar A. Pulmonary manifestations of Rheumatoid Arthritis: Computed Tomography, "AOCR 2018", 25-27 January 2018, Mumbai
17. Kumar A. Utility of Lipiodol CT for treating Small Hepatocellular Carcinoma, "25th Annual Scientific Meeting of Indian National Association of Liver (INASL)", 3-6 August 2017, New Delhi

18. Kumar A. Radiological Management of Hepatocellular Carcinoma associated with Hepatic Venous Outflow Tract Obstruction, "25th Annual Scientific Meeting of Indian National Association of Liver (INASL)", 3-6 August 2017, New Delhi
19. Kumar A. Role of Diffusion Weighted Imaging in Assessment of tumor response after Loco-regional Therapy in Patients of Hepato-cellular Carcinoma, "25th Annual Scientific Meeting of Indian National Association of Liver (INASL)", 3-6 August 2017, New Delhi
20. Kumar A. Outcome of Transarterial Chemoembolization In Patients of Alpha-fetoprotein Secreting Hepatocellular Carcinoma, "25th Annual Scientific Meeting of Indian National Association of Liver (INASL)", 3-6 August 2017, New Delhi
21. Kumar A. To Study Plasma sHLA-G Levels of HCC Patients Showing INDEL Polymorphism and its Correlation With Response to Locoregional Therapy, "25th Annual Scientific Meeting of Indian National Association of Liver (INASL)", 3-6 August 2017, New Delhi
22. Kumar A. Role of AFP as a therapeutic marker in AFP producing HCC, "58 Annual Conference of Indian Society of Gastroenterology (ISGCON)", 14-17 December, Bhubaneshwar, Orissa
23. Kumar A. Evaluation of Focal Liver lesions by Contrast enhanced ultrasound, "17th Annual International Conference organized by Rajiv Gandhi Cancer Institute and Research Centre (RGCON)", 9-11 February 2018, Rohini, New Delhi
24. Kumar A. Hepatocellular carcinoma associated with Hepatic Venous Outflow Tract Obstruction: A complex entity to treat, "17th Annual International Conference organized by Rajiv Gandhi Cancer Institute and Research Centre (RGCON)", 9-11 February 2018, Rohini, New Delhi
25. Kumar A. Active treatment of elderly patients of Hepatocellular carcinoma: Age need not be a deterrent, "27th Asian Pacific Association for the Study of the Liver (APASL 2018)", 14-18 March 2018, New Delhi, India
26. Kumar A. Lipiodol CT: A technique for treating small hepatocellular carcinomas, "27th Asian Pacific Association for the Study of the Liver (APASL 2018)", 14-18 March 2018, New Delhi, India
27. Kumar A. Emergent Extended transjugular interhepatic portosystemic shunt in Budd chiari syndrome with acute thrombosis of splenoportal axis, "103rd Annual meeting of Radiological Society of North America 2017", 26 November-1 December 2017, Chicago, USA
28. Bindra A. Incidence of posterior wall puncture during ultrasound guided vascular access: Short axis vs long axis view, "New Zealand Anesthesia Annual Meeting 2017", 8-11 November 2017, Energy Events Centre, Rotoru, New Zealand
29. Bindra A. Neuroprotective role of Dexmedetomidine in Epilepsy Surgery: A preliminary study, "Annual Scientific meeting of Neuroanaesthesia and Critical Care Society of Great Britain and Ireland", 18-19 May 2017, London
30. Bindra A. Assessment of non-neurological complications in Traumatic Neurosurgical patients admitted in ICU: A prospective observational study, "Annual Scientific meeting of Neuroanaesthesia and Critical Care Society of Great Britain and Ireland", 18-19 May 2017, London
31. Bindra A. Practical issues in Anesthesia: A nationwide survey in India, "Annual Scientific meeting of Neuroanaesthesia and Critical Care Society of Great Britain and Ireland", 18-19 May, 2017, London
32. Bindra A. Paediatric Traumatic brain injury: Neurointensive care management in a tertiary care trauma centre, "5th Congress of Asian Society for Neuroanesthesia and Critical Care" 17-19 August 2017, Singapore
33. Bindra A. Partial Seizures: A paradox in acute phenytoin toxicity, "5th AIIMS Neuroanesthesia Update", 6-7 October 2017, AIIMS, New Delhi
34. Gupta B. Effect of different anesthetic techniques on NETs in major orthopedic trauma surgeries, "American Society of Anaesthesiologists", 21 October 2017, Boston, USA
35. Singh GP. Pediatric traumatic brain injury: Neuro-intensive care management in a tertiary care trauma centre, "5th Congress of Asian Society for Neuroanesthesia and Critical Care", 17-19 August 2017, Singapore
36. Singh GP. The effect of sevoflurane-air versus sevoflurane-nitrous oxide anaesthesia on length of ICU and hospital stay in patients undergoing cerebellopontine tumour surgery—A randomised controlled trial, "45th Annual Meeting of SNACC Westin Waterfront", 19-20 October 2017, Boston, Massachusetts, USA
37. Singh GP. A comparison of three different techniques of percutaneous tracheostomy (PCT): Landmark technique vs Fibreoptic Bronchoscopic (FOB) guided vs real time Ultrasound Guided (USG), "AIIMS Neuroanaesthesia Update 2017, 5-7 October 2017, AIIMS, New Delhi
38. Singh GP. Incidence of posterior vessel wall punctures during ultrasound guidedvascular access: Short axis versus long axis, "New Zealand Anaesthesia Annual Scientific Meeting 2017", 8-11 November 2017, Energy Event Centre, New Zealand
39. Farooque K. Near Total Corpectomy form Posterior Approach for Burst Fractures, "SICOT 2017", 30 November-2 December, Cape Town, South Africa

40. Soni KD. Laryngeal Stenting-Unusual use of an Endotracheal Tube in a case of Gunshot Injury Neck, "4th SG ANZICS Intensive Care Forum -2017", 20-24 April 2017, Singapore
41. Soni KD. From Emergency Department to Intensive Care Unit, Does the delay matters to Trauma Patient "4th SG ANZICS Intensive Care Forum 2017", 20-24 April 2017, Singapore
42. Soni KD. Predictors of mortality and profile of thoracicinjurypatients requiringmechanical ventilation—A retrospectivestudy, "European Society of Intensive Care Medicine—ESICM LIVES 2017", 23-27 September 2017, Viena
43. Soni KD. Role of ICP Monitoring in patients with head injury—A retropective observational study, "4th AIIMS Neuro Trauma Conference, 26-29 October 2017, New Delhi
44. Goyal K. Non Neurological Complications in Neurotraumapatient in ICU at apex trauma centre: A prospective observational study, "34th Annual Academic Congress of College of Anaesthesiologists 2018", 27-30 January 2018, Colombo, Sri Lanka
45. Goyal K. Incidence of posterior vessel wall punctures during ultrasound guided vascular access short axis vs long axis, "New Zealand Anaesthesia Annual Scientific Meeting 2017 Update 2016", 8-11 November 2017, Rotorua, New Zealand
46. Goyal K. Evaluation of prognostic factors of outcom in severe traumatic brain injury patients following decompressive craniectomy, "Annual Neurocritical Care Update (ANCU)", April 2017, Artemis Hospital, Gurgaon
47. Sokhal N. Perioperative management of giant intracranial aneurysms: A clinical report of 19 cases, "NZ Anaesthesia ASM 2017", 9 November 2017, Energy Events Centre, Rotorua, New Zealand
48. Sokhal N. Incidence of posterior vessel wall punctures during ultrasound guided vascular access: Short axis vs long axis, "NZ Anaesthesia ASM 2017", 9 November 2017, Energy Events Centre, Rotorua, New Zealand
49. Sokhal N. Partial seizures: A paradox in acute phenytoin toxicity, "AIIMS Neuroanesthesia update", 8 October 2017, AIIMS, New Delhi
50. Sokhal N. Iatrogenic seizures during intra-operative trans-cranial motor evoked potential monitoring: A case report, "AIIMS Neuroanesthesia update", 8 October 2017, AIIMS, New Delhi
51. Kumar N. Incidence of Posterior Vessel Wall Punctures During Ultrasound Guided Vascular Access: Short Axis Versus Long Axis Approach, "New Zealand Anaesthesia Annual Scientific Meeting 2017", 8-11 November 2017, Energy Events Centre, Rotorua, New Zealand
52. Kumar N. Comparison of three anaesthetic techniques on emergence and recovery profile in patients undergoing supratentorial craniotomy, "New Zealand Anaesthesia Annual Scientific Meeting 2017", 8-11 November 2017, Energy Events Centre, Rotorua, New Zealand
53. Kumar N. Giant intracranial aneurysm surgery: Factors affecting outcome, "New Zealand Anaesthesia Annual Scientific Meeting 2017", 8-11 November 2017, Energy Events Centre, Rotorua, New Zealand
54. Kumar N. Assessment of non neurological complications in traumatic brain injury patients admitted in neuro intensive care unit: A prospective observational study, "34th Annual Academic Congress of the College of Anaesthesiologists and Intensivists", 27 and 28 January 2018, Colombo, Sri Lanka
55. Singh P. Evolution in management of combined C1 Hangmans fracture New Delhi, "SFNC 2018", 27-30 March 2018, World Trade Centre, Grenoble, France
56. Singh P. Long term outcome of symptomatic paediatric vertebral haemangiomas treated surgically "SFNC 2018", 27-30 March 2018, World Trade Centre, Grenoble, France
57. Singh P. Paediatric supratentorial ependymomas, "SFNC 2018", 27-30 March 2018, World Trade Centre, Grenoble, France
58. Singh P. Intraventricular pilocytic astrocytomas: Our experience in this rare entity, "SFNC 2018", 27-30 March 2018, World Trade Centre, Grenoble, France
59. Singh P. Intracranial Meningeal Hemangiopericytomas: An Analysis of factors affecting outcome from a single Institutional experience with multimodality treatment of 39 Cases, "SFNC 2018", 27-30 March 2018, World Trade Centre, Grenoble, France
60. Singh P. Posterior transpedicular approach for corpectomy and circumferential arthrodesis, "GCS 2017", 3-6 May 2017, Milono Congress Centre, Milan
61. Mathur P. Epidemiological trends of fatal paediatrics trauma: A single centre study, "First Chapter Meeting IAMM Delhi Chapter AIIMS", 25 March 2017, Delhi
62. Mathur P. Evaluation of MIC Creep of antimicrobials against Staphylococcus aureus at a level-1 trauma centre: A five-year study, "2nd IAMM-Delhi Chapter Meet of 2017", 14 October 2017, New Delhi (Award 1st Prize)
63. Mathur P. Antimicrobial resistance pattern of beta hemolytic streptococci in North India—A five year study, "2nd IAMM-Delhi Chapter Meet of 2017", 14 October 2017, New Delhi

64. Mathur P. Trend of antibiotic resistance in *Acinetobacter* spp at a Level I Trauma Centre of India, “2nd IAMM-Delhi Chapter Meet of 2017”, 14 October 2017, New Delhi
65. Mathur P. Profile of bloodstream infections caused by Gram negative bacteria belonging to family Enterobacteriaceae at a tertiary care hospital, “SYSCON 2017-2018, Annual Conference of the Society of Young Scientist® AIIMS”, 11-12 January 2018, Delhi
66. Mathur P. Prevalence of nosocomial infections caused by bacteria belonging to family enterobacteriaceae at an Apex Trauma Centre in 2016, “SYSCON 2017-2018, Annual Conference of the Society of Young Scientist® AIIMS”, 11-12 January 2018, Delhi
67. Mathur P. Utility of serum Procalcitonin (PCT) values in rapid diagnosis of sepsis in critically ill patients at Level I Trauma care system in India, “SYSCON 2017-2018, Annual Conference of the Society of Young Scientist® AIIMS”, 11-12 January 2018, Delhi
68. Mathur P. Prevalence of nosocomial meningitis in neurosurgical patients, “IAMM”, August 2017, Delhi
69. Mathur P. Phenotypic and genotypic characterization of carbapenemases in *Pseudomonas* species, “ECCMID Conference Spain”, 19 April 2018, Spain
70. Mathur P. The incidence of catheter-related urinary tract infections in intensive care unit patients admitted at a Level I trauma centre, “IAMM DC”, 21 March 2018, Delhi
71. Mathur P. Utility of serum procalcitonin in critically ill pediatric patients, “IAMM DC”, 21 March 2018, Delhi
72. Arulselvi S. Biochemical markers (amylase and CRP) in isolated traumatic brain injury, “16th Annual meeting of the Society for Free Radical Research India 2018 (SFRRRI 2018) and International Conference on Translational Research in Free Radicals Micronutrient Antioxidants and Functional Foods”, 18-20 February 2018, AIIMS, New Delhi
73. Arulselvi S. Coagulofibrinolytic and inflammatory changes in response to intramedullary nailing and its impact on outcome, “38th International Society of Orthopaedic Surgery and Traumatology World Congress”, 30 November-2 December 2017, Cape Town, South Africa
74. Arulselvi S. Retrospective review of risk factors and complications associated with pelvic fractures and its impact on clinical outcome: Experience at a Level I trauma care centre in north India, “38th International Society of Orthopaedic Surgery and Traumatology World Congress”, 30 November-2 December 2017, Cape Town, South Africa
75. Arulselvi S. Study of platelet transfusion response amongst trauma patients and its correlation with immediate outcome in a Level I apex trauma centre, “Coagulation disorders and metabolic targets of antiplatelet therapy: An Update Symposium Cum Workshop”, 11 November 2017, MAMC, Department of Biochemistry
76. Arulselvi S. Acute traumatic brain injury induced endotheliopathy and its impact on clinical outcome, “ANTC 2017 4th AIIMS Neurotrauma Conference”, 27-28 October 2017, AIIMS, New Delhi
77. Arulselvi S. Experience of Concussion Screening in Mild TBI (mtbi) Patients on Admission in a Level I Trauma Centre in Northern India, “ANTC 2017 4th AIIMS Neurotrauma Conference”, 27-28 October 2017, AIIMS, New Delhi
78. Arulselvi S. Metastatic thyroid carcinoma in a cervical injury patient: An incidental finding, “ANTC 2017 4th AIIMS Neurotrauma Conference”, 27-28 October 2017, AIIMS, New Delhi
79. Arulselvi S. Study of circulating microparticles (platelet, endothelium derived and tissue factor bearing) in traumatic brain injury and its correlation with tbi associated coagulopathy and mortality, “Hematocon 2017, 58th Annual Conference of the Indian Society of Haematology and Blood Transfusion HAEMATOCON”, 2-5 November 2017, Gotanagar, Guwahati, Assam
80. Arulselvi S. Study of hyperfibrinolysis in acute Traumatic Brain Injury (TBI) patients using Thromboelastography (TEG) and it’s correlation with coagulation markers, “Hematocon 2017, 58th Annual Conference of the Indian Society of Haematology and Blood Transfusion HAEMATOCON”, 2-5 November 2017, Gotanagar, Guwahati, Assam
81. Arulselvi S. Syndecan-1: A marker for traumatic brain injury induced acute coagulopathy and mortality, “The XXIII World Congress of Neurology (WCN 2017)”, 16-21 September 2017, Kyoto, Japan
82. Arulselvi S. Acute inflammatory response in traumatic brain injury and association with early trauma induced coagulopathy, “Neurotrauma 2017 26th Annual Conference of Neurotrauma Society of India”, 11-13 August 2017, OOTY, Coimbatore, Tamil Nadu, India
83. Arulselvi S. Hyperfibrinolysis in isolated severe traumatic brain injury (ISTBI) patients: Prospective study, “Neurotrauma 2017 26th Annual Conference of Neurotrauma Society of India”, 11-13 August 2017, Ooty, Coimbatore, Tamil Nadu, India
84. Arulselvi S. Can early circulating platelet and endothelial microparticles be a prognostic marker for Trauma Induced Coagulopathy (TIC) and mortality in isolated Severe Traumatic Brain Injury (ISTBI), “3rd Indian Ocean Rim Laboratory Haematology Congress”, 18-19 June 2017, Singapore

85. Arulsevi S. Post traumatic fat embolism syndrome: A retrospective autopsy histopathology case series, "ICMLS 2017 National Conference of Indian Confederation of Medical Laboratory Science", 15 and 16 April 2017, Lady Harding Medical College
86. Arulsevi S. Study of early coagulation activation, inhibition, thrombin generation and fibrinolysis in isolated Severe Traumatic Brain Injury (ISTBI) induced coagulopathy and its influence on immediate outcome, "XXVIIIth International Symposium on Cerebral Blood Flow, Metabolism and Function", 1-4 April 2017, Berlin, Germany
87. Arulsevi S. Evaluation of Neutrophil Elastase (NE) as an early prediction marker of trauma induced disseminated intra vascular coagulation (DIC), "XXVIIIth International Symposium on Cerebral Blood Flow, Metabolism and Function", 1-4 April 2017, Berlin, Germany
88. Mittal S. What's the safe corridor for trans-sacral and sacro-iliacscrew placement in Indian population? A preliminary study based on CT scan, "AOTICON 2018", 27-29 April 2018, Lucknow
89. Mittal S. Functional outcome of extra articular distal humerus fracture fixation using a single locking plate: A retrospective study, "20th APOA 2018", 10-14 April 2018, Sueno Congress Centre, Antalya, Turkey
90. Bagchi S. Borderline Cellular Rejection (BCR)—Clinical correlates and impact on graft outcome (Poster), "Indian Society of Nephrology Annual Conference 2017", 13 December 2017, Delhi
91. Bagchi S. Profile of pulmonary infections in renal transplant recipients in a tertiary care centre (Oral), "Indian Society of Nephrology Annual Conference 2017", 14 December 2017, New Delhi
92. Bagchi S. Rituximab treatment of adult patients with steroid resistant Focal Segmental Glomerulosclerosis (FSGS), "Indian Society of Nephrology Annual Conference-2017", 15 December 2017, New Delhi
93. Kumar S. Plight of an Amputee: What stops me from working, "Nat'l Symposium on Contributions of Women in Science in India", 15-16 February 2018, Kolkata
94. Kumar S. Burden of limb loss in patients following trauma: A neglected entity, "Nat'l Symposium on Contributions of Women in Science in India", 15-16 February 2018, Kolkata
95. Kumar S. Outcome of 310 traumatic amputations at Level I trauma center in New Delhi, "Wound Care: From Innovations to Trials (WCICT 2017)", 20-21 June 2017, Manchester, UK
96. Kumar S. Assessment of Quality of Life among Upper and Lower Limb Amputees admitted at Surgical Unit of Level I Trauma Center, AIIMS, "Trauma Conclave 2018 1st National Conclave on Psychological Trauma, Child Protection and Mental Illness", 27-28 March 2018, AIIMS, Delhi
97. Sagar S. ADDITIVE MANUFACTURING: A new state of art with hydroxyapatite for bone tissue Engineering, "World Congress for Dental and Oral Health (DENTAL 2017)", 3-5 May 2017, Madrid, Spain
98. Sagar S. Burden of Maxillofacial Injuries at Level I Trauma Centre New Delhi, "World Congress for Dental and Oral Health (DENTAL 2017)", 3-5 May 2017, Madrid, Spain
99. Sagar S. Application of facial fat grafting in Post Traumatic facial defects: Our Experience at a Level I Trauma Centre, "World Congress for Dental and Oral Health (DENTAL-2017)", 3-5 May 2017, Madrid, Spain
100. Sagar S. Plight of an Amputee: What stops me from Working, "Nat'l Symposium on Contributions of Women in Science in India", 15-16 February 2018, Kolkata
101. Sagar S. Burden of limb loss in patients following trauma: A neglected entity, "Nat'l Symposium on Contributions of Women in Science in India", 15-16 February 2018, Kolkata
102. Sagar S. Outcome of 310 traumatic amputations at Level I trauma center in New Delhi, "Wound Care: From Innovations to Trials (WCICT 2017)", 20-21 June 2017, Manchester, UK
103. Sagar S. Assessment of Quality of Life among Upper and Lower Limb Amputees admitted at Surgical Unit of Level I Trauma Centre, "Trauma Conclave 2018 1st National Conclave on Psychological Trauma, Child Protection and Mental Illness", 27-28 March 2018, AIIMS, New Delhi
104. Sharma V. Establishment of FFLS in tertiary care Hospital of India, "6th FFN Global Conference", 24-26 August 2017, Malmo, Sweden
105. Sharma V. Tips and Tricks Surgical management of posterior wall fractures of Acetabulum, "Egyptian Orthopaedics Association Annual Conference", 12 December 2017, Cairo, Egypt
106. Trikha V. Management of Morel-Lavallee Lesion Associated with Pelvi- Acetabular Fractures, "38th SICOT World Congress", 30 November-2 December 2017, Cape Town, South Africa
107. Trikha V. Does Surgical Delay Effect the Temporal Expression of Bone Turnover Markers after Intramedullary Nailing of Isolated Femoral Shaft Fracture, "38th SICOT World Congress", 30 November-2 December 2017, Cape Town, South Africa
108. Trikha V. Challenges of Managing Anterior Acetabular Fractures with Modified Stoppa Approach in a Developing Country, "38th SICOT World Congress", 30 November-2 December 2017, Cape Town, South Africa

RESEARCH

Funded projects

Ongoing

1. Reducing burden of injury in India and Australia through development and piloting of improved systems of care, Australia India Trauma Systems Collaboration, Amit Gupta, DST, 4 years, 2014-2018, Rs 3.61 crore
2. An intervention study on comprehensive emergency care and trauma registry for road traffic injuries in India, ICMR—National Task Force Project, Amit Gupta, ICMR, 2.5 years, 2017-2019, Rs 75 lakhs
3. Influence of anesthetic techniques on pro and anti-inflammatory effect in pelvic-acetabular and femur surgery, Babita Gupta, AIIMS, 2 years, 2015-2017, Rs 10 lakhs
4. Early versus Delayed Decompression for Traumatic high Cervical Spinal Cord Injury in Acute Spinal Cord Injury Study, Deepak Agrawal, DST, 4 years, 2014-2018, Rs 24.52 lakhs
5. Optic Nerve Ultrasound in Severe Traumatic Brain Injury, Deepak Agrawal, DST, 2 years, 2015-2017, Rs 36.07 lakhs
6. Determination of the reference range for the elevated PT/INR with normal coagulation factor level and its association with plasma transfusion therapy in head injury patients, Deepak Agrawal, ICMR, 2 years, 2015-2017, Rs 25 lakhs
7. VEGF: As a potential systemic marker of local angiogenic activity and response to gamma knife surgery” for your consideration, Deepak Agrawal, AIIMS, 1 year, 2016-2017, Rs 5 lakhs
8. Randomised Evaluation of Surgery with Craniectomy for patients undergoing Evacuation of Acute Subdural Haematoma (RESCUE-ASDH), Deepak Gupta, University of Cambridge and Cambridge University Hospitals NHS Foundation Trust, 3 years, 2017-2020, Rs 30 lakhs
9. Approaches and Decisions in Acute Pediatric Traumatic Brain Injury Trial, Deepak Gupta, NIH, USA, 5 years, 2015-2020, Rs 1.8 crores
10. Collaborative European Neurotrauma Effectiveness research in TBI: A prospective longitudinal observational study and Collaborative Indian Neurotrauma Effectiveness research in TBI: A prospective longitudinal observational study (Centre and CINTER-TBI), Deepak Gupta, European High Commission and NIH, 5 years, 2015-2020, Rs 10 lakhs
11. International prospective observational study on intracranial pressure in Intensive Care (ICU)—SYNAPSE ICU, Deepak Gupta, European society of intensive care medicine (ESICM), 1 year, 2018-2019
12. Assessment of Cerebral Autoregulation using NIRS in severe traumatic brain injury patients, Keshav Goyal, AIIMS, 2 years, 2016-2018, Rs 5+5 lakhs
13. Effect of Decompressive Craniectomy on Jugular Venous Oximetry in Patients with Severe Traumatic Brain Injury, Navdeep Sokhal, AIIMS, 1 year, 2016-2017, Rs 2.5 lakhs
14. Comparing the use of needle guidance versus free hand technique in performing ultrasound guided central venous cannulation: A prospective randomized trial, Niraj Kumar, AIIMS, 1 year, 2016-2017, Rs 4.6 lakhs
15. Capacity Building and Strengthening of Hospital Infection Control to detect and prevent antimicrobial resistance in India, Purva Mathur, Centers for Disease Control and Prevention, 5 years, 2015-2020, Rs 882.59 lakhs
16. Development and Validation of an Electronic Surveillance System for Surgical Site Infections Developing During Hospital Stay and After Discharge: A Multi-Centric Study, Purva Mathur, ICMR, 3 years, 2017-2020, Rs 131.58 lakhs
17. Role of Post-Trauma Lymphocyte—Monocyte Response and Programmed Death-1 Levels in Early Diagnosis of Sepsis and Prognosticating Outcome in Trauma Patients, Purva Mathur, ICMR, 3 years, 2018-2021, Rs 45.1 lakhs
18. To study the role of novel cell types: Th-9, Th-17 and Th-22 in the final outcome of trauma patients, Purva Mathur, AIIMS, 2 years, 2016-2018, Rs 9.6 lakhs
19. Evaluation of Urinary Biomarkers TIMP-2 and IGFBP7 for early prediction of acute kidney injury after traumatic crush injuries, Richa Agarwal, AIIMS, 2 years, 2016-2018, Rs 7 lakhs
20. Utility on novel Coated Platelets as a marker for early prognostication of neurocognitive impairment following traumatic injury, S Arulselvi, DST-CSIR, 2 years, 2016-2018, Rs 37.11 lakhs
21. Evaluation of micro RNA (miRNA) as a marker for bone healing in osteoporotic traumatic proximal femur fractures: Pilot study (Institute), S Arulselvi, AIIMS, 1 year, 2016-2017, Rs 5 lakhs
22. To study the role of gene expression, activation of cellular signaling pathways and its correlation with clinical outcome among Trauma Hemorrhagic Shock (T/HS), Sanjeev K Bhoi, ICMR, 3 years, Rs 67 lakhs
23. Prevalence and significance of serum galactose deficient IgA1 in Indian patients with IgA nephropathy: A case control study, Soumita Bagchi, AIIMS, 1 year, 2017-2018, Rs 5 lakhs
24. To study the impact of Yoga on Pulmonary Functions, Immune Response and Quality of Life in Chest trauma patients at Level-1 Trauma Centre, Subodh Kumar, DST, 3 years, 2016-2019, Rs 40 lakhs

25. A randomized control trial to study the impact of Yoga Intervention in lower limb amputees following trauma in relation to postsurgical outcome, behaviour and quality of life at Level I Trauma Center, Sushma Sagar, DST, 3 years, 2017-2020, Rs 54 lakhs
26. To evaluate Results of Soft Tissue Reconstruction and Augmentation with Structural Fat Grafting in Patients with Post Traumatic Facial Disfigurement, Sushma Sagar, DST, 3 years, 2015-2018, Rs 30 lakhs

Completed

1. Evaluation of efficacy, safety and outcome of splenic artery embolization in traumatic splenic injuries, Atin Kumar, AIIMS, 2 years, 2015-2017, Rs 5 lakhs
2. To study the cerebroprotective effects of Dexmedetomidine in patients undergoing epilepsy surgery—A biomarker guided study, Ashish Bindra, AIIMS, 2 years, 2012-2014, Rs 2.62 lakhs
3. Assessment of effect of cerebral perfusion pressure augmentation in severe head injuries by monitoring of regional energy metabolism by cerebral microdialysis, Ashish Bindra, AIIMS, 2 years, 2016-2018, Rs 4.95 lakhs
4. Monitoring cognition of healthcare workers in emergency and intensive care setting and its relation to medical errors, Deepak Agrawal, DST, 4 years, 2012-2016, Rs 59.86 lakhs
5. Automated assessment of hand hygiene complication in healthcare settings using Kinect Camera, Deepak Agrawal, DBT, 1 year, 2014-2015, Rs 24 lakhs
6. Economic and Social burden of Managing Traumatic Brain Injuries (TBI) in adult aged 18-50 years in India, Deepak Agrawal, DHR, 1 year, 2014-2015, Rs 8 lakhs
7. Thromboelastometry (TEG): Utility and Cost-effectiveness in diagnosing of infection in Neurosurgery Intensive Care Unit (ICU) as compared to established biomarkers, Deepak Agrawal, AIIMS, 1 year, 2014, Rs 10 lakhs
8. Matrix metalloproteinase (MMPS) as biomarkers for fusion following spinal instrumentation, Deepak Agrawal, AOSPINE, 1 year, 2014, 5500 CHF
9. Acute thalamic involvement in severe head injury-An autopsy study with histopathological correlation, Deepak Agrawal, AIIMS, Rs 1 lakh
10. A Registry for Comparing Catheter-Related Infection Rates Among Various Shunt Systems in the Treatment of Hydrocephalus, Deepak Agrawal, Codmon Corporation, USA, Rs 10 lakhs
11. Comparison of fiberoptic endotracheal intubation with and without the use of air-Q as a conduit in patients with cervical spine injury: A pilot study, Gyanendra Pal Singh, AIIMS, 2 years, 2015-2017, Rs 2.16 lakhs
12. Evaluation of Urinary Biomarkers TIMP-2 and IGFBP7 for early prediction of acute kidney injury after traumatic crush injuries, Kapil Dev Soni, AIIMS, 1 year, 2016, Rs 5 lakhs
13. Does real time ultrasonography during bronchoscopy guided percutaneous tracheostomy confer any benefit; a preliminary randomised controlled trial, Richa Agarwal, AIIMS, 3 years, 2013-2016, Rs 0.83 lakhs
14. Identification of novel circulating procoagulant microparticles in traumatic brain injury patients and their involvement in Pathophysiology of Early Trauma Induced Acute Coagulopathy, S Arulselvi, DBT, 3 years, 2014-2017, Rs 49.95 lakhs
15. Study of coagulation response in thrombocytopenic head injury patients receiving platelet transfusion, S Arulselvi, ICMR, 2.5 years, 2015-2017, Rs 16.12 lakhs
16. Study of platelet dysfunction in trauma patients requiring platelet transfusion, S Arulselvi, ICMR, 2 years, 2015-2017, Rs 0.5 lakhs
17. Project on Capacity Building for Advanced Trauma Life Support in India (PPCB-ATLSI), Subodh Kumar, NDMA, 3 years, 2016-2017, Rs 1.32 crores
18. Reducing the Burden of Injury in India and Australia through Development and Piloting of Improved Systems of Care, Subodh Kumar, DST, 4 years, 2013-2017, Rs 2.74 crores
19. Role of Th1, Th2, neutrophils and monocytes in the Outcome of Patients with Chest Trauma, Subodh Kumar, AIIMS, 2 years, 2016-2018, Rs 9 lakhs
20. Cleft lip and palate anomaly in India: Clinical profile, Risk factors and current status of treatment—Hospital based surveys, Sushma Sagar, ICMR, 5 years, 2013-2017, Rs 35 lakhs

Departmental projects

Ongoing

1. Role of Interventional Radiology in Obstetric Related Hemorrhage
2. Multimodality imaging evaluation of chronic mass forming mastitis and role of ultrasound-guided core needle biopsy in determining the etiology

3. Randomised controlled trial of uterine artery embolization vs Abdominal hysterectomy for symptomatic uterine fibroids in patients who have completed their family
4. Imaging of infantile brachial plexopathy
5. Diagnostic and Prognostic role of MRI in acute traumatic cervical cord injury
6. Toxicological analysis and distribution pattern of alcohol and different drugs in various biological samples and their neurobiological effects in suicidal deaths
7. Age Estimation Between age 1-18 years by radiological study of Epiphyseal Union around Elbow and Wrist joints
8. Supportive management of IgA nephropathy—A prospective study
9. A study to find minimum effective volume of 0.5% ropivacaine for ultrasound guided costoclavicular block
10. To study the efficacy of serratus anterior plane block in patients undergoing trunk based flap surgeries—A pilot study
11. Early Gamma Knife with concurrent temozolamide in high grade Gliomas—A controlled study
12. Role of Gamma Knife in Midbrain AVM's
13. Effect of early mobilization in mechanical ventilated patients admitted in surgical trauma ICU: A randomized controlled trial
14. Evaluation of Urinary Biomarkers TIMP-2 and IGFBP7 for early prediction of acute kidney injury after traumatic crush injuries
15. Correlation of the gastric residual volume determined by ultra sound and acceptance of enteral tube feed in medical-surgical ICU: An observational study
16. Evaluation of effect of intravenous Dexmedetomidine on intraoperative blood loss during intracranial meningioma surgery: A randomized controlled study
17. Comparison of propofol and ketofol on transcranial motor evoked potentials in patients undergoing thoracolumbar spine surgery
18. Use of intratracheal lignocaine to reduce emergence reaction in the patients undergoing endoscopic transphenoidal pituitary surgery: A randomized controlled study
19. Primary Versus Delayed Primary Closure in patients undergoing lower limb amputation following trauma: A randomized control study
20. Assessment of splenic immune function in patients with blunt splenic injury
21. A study to grade management related complications in acutely injured patients and their correlation with the outcomes at a Level I trauma centre
22. To study management, outcomes and quality of life in patients with pelvic fracture at Level I trauma centre
23. Abbreviated discharge protocol in blunt liver and splenic trauma: A pilot study
24. To study the correlation between clinical parameters and Intra-abdominal pressure and their effect on the non-operative management of patients with blunt trauma abdomen at Level I trauma centre
25. Outcome correlation of initial arterial blood gas analysis in isolated thoracic injury
26. QI project—To improve the compliance of VAP bundle in ICU
27. Role of T-helper cells and neutrophils in the outcome of patients with chest trauma
28. Effect of phrenic nerve stimulation on diaphragmatic strength and thickness in mechanically ventilated patients
29. Effect of early mobilization in mechanical ventilated patients admitted in surgical trauma ICU: A randomized controlled trial
30. Prospective observational study of transfusion practices in severely injured trauma patients in Emergency Department in Level I Trauma Center
31. Histology of Lumbar Inter Vertebral Disc in Degenerative Disc Disease and its Correlation with Clinical and Radiological Findings
32. Effect of virtual reality therapy on lower limb amputee balance ADL and pain
33. Multiple causative factors for the trauma injury and its geospatial distribution
34. Management and Outcome of Mesh Laparostomy in patient with Abdominal Trauma at Level I Trauma Centre
35. Role of T-helper cells and neutrophils in the outcome of patients with chest trauma
36. Reconstruction of Post Traumatic Facial Defects using Adipose Tissue derived Mesenchymal Stem Cells seeded on 3D printed Hydroxyapatite Scaffold guided by CAD Models in Zygomatico-Orbito-Maxillary Complex Fractures
37. A Study to Assess Pancreatic Endocrine and Exocrine Functions in Patients with Pancreatic Trauma

38. To study the role of T helper-9, T helper-17, T helper-22, T- Regulatory lymphocytes in Post-Trauma Immunopathogenesis
39. Assessment of post-trauma cytokine producing potential of monocytes for early diagnosis of organ dysfunction and sepsis
40. Effect of phrenic nerve stimulation on diaphragm strength and thickness: A randomized controlled trial
41. To study the effect of Yoga on Pulmonary functions, Respiratory muscle strength and endurance, chest wall mobility, inflammatory markers and Quality of life in blunt chest trauma patients and their correlation with thoracic trauma severity score at Level I trauma centre
42. To study clinical and immunological parameters in predicting short term outcomes in polytrauma patients admitted to Trauma Surgery
43. To study splenic functions and complications in patients with blunt splenic injury at Level I trauma
44. Evaluation of the role of a Capacity building program for initial assessment and management of trauma patients in Emergency Department in improving knowledge, skills and attitude of Doctors and Nurses
45. A study to grade management related complications in acutely injured patients and their correlation with the outcomes at a Level I trauma center
46. To study management, outcomes and quality of life in patients with pelvic fractures at Level I trauma center
47. Abbreviated discharge protocol in patients with blunt liver and splenic injury: A pilot study
48. Primary versus delayed primary closure in patients undergoing lower limb amputation—A randomized controlled study
49. Effects of regional anesthesia on perioperative inflammatory cytokines alteration and clinical complications
50. Assessment of efficacy of ultrasound guided corner pocket versus two aliquots injection techniques for supraclavicular block in upper limb orthopaedic surgeries: A prospective, randomized study
51. Estimation of minimum effective local anaesthetic [0.75% Ropivacaine] in Target intracluster injection approach of ultrasound guided supraclavicular block: A prospective dose estimation study
52. Effect of Neuroradiologic interventions on regional cerebral oxygenation in patients with anterior circulation aneurysms: An observational Study
53. Serum lactate, base deficit and glucose levels as prognostic markers of severe traumatic brain injury
54. Intraoperative use of dexmedetomidine in large vascular Meningiomas
55. Cardiovascular complications after traumatic spinal cord injury
56. To study the risk factors and causes of extubation failure in head injury patients
57. Effect of decompressive craniectomy on jugular venous oximetry (SJVO2) in patients with severe Traumatic Brain Injury (TBI)
58. The role of point of care ultrasound as an adjunct to diagnostic test in evaluation of acute dyspnoea patients presenting to Emergency Department
59. Assessment of cardiac activity by bedside ultrasound to predict outcome in cardiac arrest patients in Emergency Department
60. Ultrasound guided ryle's tube insertion and confirmation vs conventional blind technique
61. To find the ability of ultrasound in detecting cervical spine injuries in proven cases of cervical spine injury detected by CT/ MRI
62. Water bath evaluation technique for ultrasound of distal hand and foot injuries in emergency department
63. To determine by ultrasound the optic nerve sheath diameter in paediatric patients with increased intracranial pressure compared with control group
64. To study the role of T helper-9, T helper-17, T helper-22 and T-Regulatory lymphocytes in post-trauma immunopathogenesis and outcome
65. To study clinical and immunological parameters in predicting short term outcomes in polytrauma patients admitted to Trauma Surgery
66. To study the effect of Yoga on Pulmonary functions, Respiratory muscle strength and endurance, Chest wall mobility, Inflammatory markers and Quality of life in blunt chest trauma patients and their correlation with ThoracicTrauma Severity Score at Level I trauma centre
67. Evaluation of clinical predictors and outcomes in patients with open abdomen in trauma
68. Evaluation of the role of a Capacity Building Program for Initial Assessment and Management of Trauma patients in Emergency Department in improving knowledge, skills and attitude of Doctors and Nurses

69. Primary Versus Delayed Primary Closure in patients undergoing lower limb amputation following trauma: A randomized control study
70. A study to grade management related complications in acutely injured patients and their correlation with the outcomes at a Level I trauma centre
71. Outcome correlation of initial arterial blood gas analysis in isolated thoracic injury
72. Assessment of splenic immune function in patients with blunt splenic injury
73. Management and Outcome of Mesh Laparostomy in open abdomen in patient with Abdominal Trauma at Level I trauma center
74. To study splenic functions and complications following blunt splenic trauma at Level I trauma center
75. A study to assess Pancreatic Endocrine and Exocrine functions in patients with Pancreatic Trauma
76. Effect of phrenic nerve stimulation on diaphragmatic strength and thickness
77. Effect of Virtual Reality Therapy in improving Balance and Quality of life in Lower limb amputation
78. Role of T-helper cells and neutrophils in the outcome of patients with chest trauma
79. Reconstruction of Post-Traumatic Facial Defects Using Adipose Tissue Derived Mesenchymal Stem Cells Seeded on 3D Printed Hydroxyapatite Scaffold Guided by CAD Models in Zygomatico-orbito maxillary complex fractures PhD
80. Prevalence exposure to risk factors among Road crash arrived at ED and it's geo-spatial distribution
81. Feasibility and implementation of hospital based trauma registry for RTI at different levels of health care setting and it's effects on quality of patient care
82. Randomized trial comparing two techniques of fiberoptic orotracheal intubation under general anaesthesia: Fiberoptic intubation with and without the use of air-Q intubating laryngeal airway
83. To compare the effect of goal directed fluid therapy versus standard fluid regimen on the cuff leak volume in patients undergoing spine surgery
84. Comparison of Propofol versus sevoflurane anaesthesia in subarachnoid haemorrhage patients undergoing clipping for aneurysm
85. Comparison of C-MAC video-laryngoscope with D-Blade, C-MAC video-laryngoscope with standard blade, and Macintosh Laryngoscopes for intubation with cervicospineimmobilization: A randomized study
86. Correlation between invasive and non-invasive technique of ICP measurement in children with traumatic brain injury: An observational study
87. Evaluation of a capacity building programme to develop Trauma ED in a tertiary care center
88. To study clinical and immunological parameters in predicting short term outcomes in polytrauma patients admitted in Trauma Surgery
89. Feasibility and implementation of hospital based SED trauma registry for road traffic injuries at different levels of health care setting and its effects on quality of patient care
90. Multiple causes of Road Traffic Accidents (RTA) and its geophysical distribution using geo information system
91. To evaluate the functional outcome, histological and electron microscopic features of the induced membrane in patients of post traumatic bone defects managed with Masquelet technique

Completed

1. Role of contrast enhanced ultrasound in the evaluation of solid organ injuries in blunt abdominal trauma
2. Role of Interventional Radiology in Obstetric Related Hemorrhage
3. Multimodality imaging evaluation of chronic mass forming mastitis and role of ultrasound-guided core needle biopsy in determining the etiology
4. Randomised controlled trial of uterine artery embolization vs Abdominal hysterectomy for symptomatic uterine fibroids in patients who have completed their family
5. Imaging of infantile brachial plexopathy
6. Diagnostic and Prognostic role of MRI in acute traumatic cervical cord injury
7. Retrospective study for evaluating the Oxford classification of IgA nephropathy in the Indian population
8. Retrospective study for evaluating the profile of biopsy proven kidney disease in elderly patients in India
9. Retrospective study for evaluating the clinical profile and treatment response and outcome of adult patients with primary FSGS
10. The profile and risk factors of infections requiring hospitalisation in the first year after renal transplantation

11. To delineate the pattern of biopsy proven renal disease in a tertiary care hospital in India
12. Pulmonary infections in renal transplant recipients: Prospective cohort observational study
13. To study the efficacy of ultrasound guided caudal morphine for providing perioperative analgesia in patients undergoing lumbosacral spine surgery
14. Therapeutic Application of Bone Marrow Derived Stem Cell in Complete Spinal Cord Injury
15. Study of Traumatic Brain Injury induced secondary gastrointestinal changes
16. Pituitary dysfunction following stereotactic radiosurgery for secretory pituitary adenomas
17. Cardiovascular complications after traumatic spinal cord injury, Neurosurgery
18. An evaluation of diaphragmatic movement by M-mode sonography as a predictor of successful extubation during routine surgical procedures, Anaesthesia, Radio diagnosis
19. Comparison of C-MAC video-laryngoscope with D-Blade, C-MAC video-laryngoscope with standard blade, and Macintosh Laryngoscopes for intubation with cervical spine immobilization: A randomized study, Neuroanesthesia
20. Outcome of patients of chest trauma suffering from COPD—Our experience at Level I trauma centre
21. Identification of novel circulating procoagulant microparticles in traumatic brain injury patients and their involvement in Pathophysiology of Early Trauma Induced Acute Coagulopathy
22. Study of traumatic brain injury induced secondary gastrointestinal changes
23. Study of platelet dysfunction in trauma patients requiring platelet transfusion
24. To study Cytokines(IL-1 β , IL-6, IL-8, IL-10 and TNF- α) and Biomarkers (vWF& CC-16) in patients with chest trauma and their correlation with Thoracic Trauma Severity Score and patient's outcome
25. Assessment of post-trauma cytokine producing potential of monocytes for early diagnosis of organ dysfunction and sepsis
26. Prospective study of surgical site infection in orthopaedic trauma patients
27. Ambi-spective Cohort study to evaluate the oncologic and aesthetic outcomes of Skin sparing mastectomy with implant
28. Early and rapid detection of ubiquitin C-terminal hydrolase-1 in serum of brain trauma patients using citrate-capped gold nanoparticles: A novel technique for diagnosing severity of brain injury
29. Indicators of clinical outcome in patients of diffuse axonal injury—A retrospective analysis
30. Comparison of intraoperative complications and neurological outcomes in patient undergoing awake craniotomy with or without intraoperative MRI-guided resection of brain lesion: Our institutional experience

Collaborative projects

Ongoing

1. A prospective study comparing PET CT scan to dynamic MRI in assessment of the graft revascularisation and healing in arthroscopic anterior cruciate ligament reconstruction, Orthopedics
2. Quantification of pcl retained in cruciate retaining total knee arthroplasty and its effect on functional outcome, Orthopedics
3. Functional and radiological outcome in acetabular fractures in patients undergoing modified Stoppa's approach, Orthopedics
4. Clinicoradiological correlation between ACL deficiency and knee joint hyperextension, Orthopedics
5. Role of molecular imaging in musculoskeletal tuberculosis, Orthopedics
6. Comparative study between tc-99m skeletal scintigraphy, whole body MRI and pet/ct scan for detecting skeletal metastasis in patients with osteosarcoma and Ewings sarcoma, Orthopedics
7. Applicability of laparoscopic ultrasound in various intraabdominal pathologies, a prospective observational study, Surgery
8. To study splenic functions and complications in patients with blunt splenic injury at level-I trauma centre, Trauma Surgery
9. A three arm randomized controlled study to compare sexual functions following open mesh hernioplasty, laparoscopic Totally Extra Peritoneal (TEP) and Trans Abdominal Pre-Peritoneal (TAPP) repair of groin hernia, Surgery
10. Evaluation of the suitability and outcome of profunda artery perforator flap for different defects, Plastic Surgery
11. Age estimation between 1-18 years by radiological study of epiphyseal union around the elbow and wrist joints, Forensic Medicine and Toxicology

12. Evaluation of prevalence, regional variations, comorbidities, risk factors and variations in response to treatment modalities among Indian women with PCOS; A multicenter study across India; ICMR taskforce study, Endocrinology and metabolism
13. Morphometric and Morphoscopic Study of Ear and Nose in Brahmin and Rajput population of Mandi, Himachal Pradesh—A Forensic Anthropological Investigation, Department of Anthropology, Panjab University, Chandigarh
14. Detection and genotype distribution of BK polyomavirus in renal transplant recipients, Microbiology
15. Study of muscle enzyme elevation in neurosurgery and its relevance in postop acute kidney injury: A pilot study, Neuroanaesthesia
16. An immunohistochemical and ultrastructural study of glomerular capillary endothelial injury in cellular rejection, Pathology
17. Membranous nephropathy: A study of immunofluorescence, electron microscopy and PLA2R profile with clinical correlation, Pathology
18. To understand the cause of defective monocytes functions in post traumatic sepsis patients, Emergency Medicine
19. An intervention Study on Comprehensive Emergency Care and Trauma Registry for Road Traffic Injuries in India: Jai Prakash Narayan Apex Trauma Centre (JPNATC), AIIMS, Trauma Surgery
20. Risk factors and outcome of patients with ventilator associated events and complications in trauma ICU, Anaesthesia and critical care
21. Bronchoalveolar lavage fluid cytokine bead array profile for prognostication of ventilated trauma patients, Lab Medicine
22. Study of platelet dysfunction in trauma patients requiring platelet transfusion, Orthopaedics
23. Optimizing blood inventory management at a super speciality blood centre in India—A case study, CNC Blood Bank
24. Bone regeneration and soft tissue healing using tissue engineering with Mesenchymal Stem Cells (MSC) derived from adult adipose tissue and their impact on reconstruction of post-traumatic cranial defects, Plastic surgery
25. Effect of Lidocaine infusion on hemodynamics and recovery in patients undergoing endoscopic pituitary surgery: A multicentre, randomized control trial, Department of Anaesthesiology, Health Sciences Centre, University of Manitoba, Winnipeg, Canada
26. Prospective study on the effectiveness of chlorhexidine gluconate impregnated patch (BIOPATCH R) in reducing the incidence of central line associated blood stream infection, Microbiology, JPNATC, AIIMS
27. Surveillance of Blood Stream Infections (BSI) at a referral Indian hospital, Microbiology, JPNATC, AIIMS
28. A week in Neurocritical Care Unit: Point prevalence observational study in Neurocritical care: PRINCE Study; Baylor College of Medicine, Houston, Texas
29. Role of T-helper cells and neutrophils in the outcome of patients with chest trauma
30. To study the effect of Yoga on Pulmonary functions, Respiratory muscle strength and endurance, Chest wall mobility, Inflammatory markers and Quality of life in blunt chest trauma patients and their correlation with Thoracic Trauma Severity Score at Level I trauma centre
31. To study clinical and immunological parameters in predicting short term outcomes in polytrauma patients admitted to Trauma Surgery
32. To study splenic functions and complications following blunt splenic trauma at Level I trauma centre
33. To study the impact of Yoga on pulmonary functions, immune response and quality of life in chest trauma patients at Level I trauma centre
34. Role of Th1, Th2, neutrophils and monocytes in the outcome of patients with Chest trauma
35. To study the role of T-helper lymphocytic response in the final outcome of polytrauma patients with pelvic fractures
36. Cloning Expression and Purification of a highly antigenic recombinant antigen from *Toxoplasma gondii* and its evaluation for the diagnosis of human and animal toxoplasmosis
37. Raising mono and polyclonal antibodies against novel antigens of *Mycobacterium tuberculosis* and their diagnostic value in clinical samples
38. Development of new molecular test(s) for rapid diagnosis of India specific Pre- XDR/XDR-TB
39. To see the prevalence of microsporidia in stool samples of HIV sero negative adults, pediatric patient with diarrhoea
40. Isolation and Characterization of *Leishmania* or *Leishmania* like parasite(s) from seropositive goat
41. Molecular epidemiology of *Mycobacterium tuberculosis* by spoligotyping and 24-Locus mycobacterial interspersed repetitive unit variable number tandem repeat typing from different geographical regions of India

42. Development of a Loop Mediated Isothermal Amplification (LAMP); Assay for rapid detection of Mycobacterium tuberculosis and NTMs from clinical samples
43. Prevalence of Beijing and Non-Beijing genotypes of Mycobacterium tuberculosis isolated from different human body sites
44. Development and validation of an electronic surveillance system for surgical site infections developing during hospital stay and after discharge: A multicenter study, Lab Medicine
45. Capacity Building and Strengthening of Hospital Infection Control to detect and prevent antimicrobial resistance in India, Lab Medicine
46. Controlled clinical trial to assess the effectiveness of topical application of C1 herbal oil on superficial external wound and split thickness skin graft donor, Plastic Surgery

Completed

1. To study the clinical and radiological outcome of posterior and posterolateral decompression and instrumented interbody fusion using locally harvested bone graft in traumatic fracture dislocation of the thoracolumbar spine, Orthopedics
2. Computerised Tomography based morphometric analysis of subaxial cervical spine pedicles in asymptomatic individuals, Orthopedics
3. Evaluation of carotid intimal medial thickness in patients of chronic kidney disease and their correlation with biochemical parameters, endothelial function, left ventricular hypertrophy and CKD progression, Nephrology
4. Evaluation of Carotid Intimal Medial Thickness (CIMT) in stable renal transplant recipients and change in CIMT after renal transplantation, Nephrology
5. Epithelial-to-Mesenchymal Transitions (EMTs) in Ependymoma, Pathology
6. Identification of novel circulating procoagulant microparticles in traumatic brain injury patients and their involvement in Pathophysiology of Early Trauma Induced Acute Coagulopathy, Neurosurgery

PUBLICATIONS

Journals: 147

Abstracts: 9

Chapters in Books: 8

PATIENT CARE

I.	Total Bed Strength:	243		
	Ward beds:	181		
	ICU beds 2nd floor:	12	ICU beds 3rd floor:	20
	Triage:	30	New Private Ward:	11
	Total functional beds:	213		
II	Statistics at a Glance			
	Total E.D. Attendance:	75,188	Total mass casualty incidents:	9
	Average per day:	206	Total admissions:	6910
	Average admissions/day:	19	Average length of stay:	8 days
	Follow-up OPD cases:	48,657		
III	Total Cases in E.D.:	75,188		
	Males:	49,784	Females:	17,314
	Male child:	5285	Female child:	2794
	Other:	11	MLC:	40,609
	NMLC:	34,579		
	Specialty Wise			
	Yellow:	16,461	Green:	50,242
	Red:	5081	OPD:	3187
	Radiology:	35	Black:	182
IV	Follow-up OPD cases:	48,657		
	New:	19,426	Old (Revisit):	29231
	Male:	32,729	Female:	10090
	Male Child:	3977	Female Child:	1861

	<i>Specialty-wise break-up</i>			
	Orthopedics:	26,900	Trauma Surgery and Critical care:	8514
	Neurosurgery:	6301	PRS:	6942
V	Total No. of Admissions:	6910		
	Regular:	6668	Short admission:	242
	MLC:	4649		109
	NMLC:	2019		133
	<i>Specialty-wise break-up</i>			
	Orthopedics:	2201		44
	Trauma Surgery and Critical care:	1933		143
	Neurosurgery:	1658		9
	Pain Clinic:	1		0
	PRS:	872		45
	ENT:	3		1
VI	Total Operations done:	8142		
	Major:	7891	Minor:	251
	<i>Specialty-wise break-up</i>			
	Orthopedics:	3998	Trauma Surgery and Critical care:	2087
	Neurosurgery:	1263	Urology:	33
	PRS:	761		
VII	Total Discharges:	6445		
	MLC:	4255	NMLC:	2190
	Male:	4839	Female:	1047
	Male Child:	341	Female Child:	218
	Department wise distribution			
	Orthopaedics:	2147	Surgery:	1900
	Neurosurgery:	1524	PRS:	871
	ENT:	3		
VIII	Days of Care:	53,098		
	Orthopaedics:	15,716	Surgery:	15666
	Neurosurgery:	17,887	PRS:	3821
	ENT:	8		
IX	Total Deaths Registered:	874	Brought Dead Cases:	182
	Total Deaths at TC (Deaths Registered–Brought Dead):	874 – 182 = 692		
	Deaths under 48 hours:	344	Deaths over 48 hours:	348
	Gross death rate:	11%	Net death rate:	6%
	Bed occupancy rate:	68%	Average length of stay:	8 days
	Bed turnover rate:	30 patients/bed		

Emergency Services Reception and Central Registration and Admission

Multifunctional Emergency Services Reception, Central Registration and Admission Office is round the clock (24 x 7) running front office of JPNATC. It works day and night in close coordination with Emergency Department, Control Room and Main Medical Record Section. It is the starting point in emergency patient care system of JPNA Trauma Centre of AIIMS New Delhi.

Emergency Services Reception successfully disposed off approximately 2 lakh enquiries related to emergency patient care, revisits, administration and hospital related services from patients, attendants, relatives, police, staff and general public. Central Registration Counter registered 72488 patients as new emergency cases and 2360 as revisits with 432 patients on HOLI Festival (also issued Emergency Passes and Bra Code stickers). It also received 37,306 MLCs from Emergency Department, verified and further issued to Police officials and main MRS. Central Admission Counter admitted 6553 patients as regular admissions to ICUs/Wards. It also admitted 201 patients as short admissions (Day care patients). Central Inquest clearance Counter also issued 840 inquest clearances (Post-mortem and post-mortem waive off requests). It also processed 883 death papers, verified with AADHAR and issued body handover slips for release of bodies from mortuary.

Beside it is doing Mock drill registrations, cardiology consultation coordination and single window facilitation for EHS emergency patients.

As new innovations during this period, New Emergency Registration Formats and New Admission Formats have been introduced and implemented successfully. For restricted and controlled entry into Emergency, as per TRIAGE i.e. Green, Yellow and Red colour passes introduced and it greatly reduced crowd in emergency and incidences of violence. 3 new wards (including 2 new private ward's) admission process smoothly integrated. Next level of technological up gradation achieved through **Electronic Patient Information Display Screen, Dual Display Monitors, Two-way Counter Communication System, Digital multifunctional printer/ scanner/copier**. All this advancement resulted in better emergency patient care experience for patients and visitors alike.

Follow Up OPD Registration Counter

FOPD and EHS Section caters to all related and regular activities like Medical Certificate, Fitness Certificate and Reimbursement Certificate (Receiving, Issuing, MS signature, Verification, Guide to Patients etc.), Handling Doctor's stamp, Query solving to patient and other related activities as assigned by Faculty in-Charge. Patient friendly measures at Follow-Up OPD Counter have been taken by further streamlining of Reimbursement Certificate (Form A/B) issue Process/Procedures. EHS counter has been introduced in this current year.

Main Medical Record Division

In addition to above, **Medical Record Section (MRS) of JPNATC which is the FIRST Government Hospital** who had started Online Registration of Deaths at NDMC since year 2008 is running successfully and also coordinating the amendments pertaining to deceased/discharged and admitted patient after due legal procedure (**Total Death registration-874 and name correction-557**). **ICD-10 coding of all deaths reported at JPNATC was also done online**. MRS is regularly disposing of summons from various Hon'ble Courts in Delhi as well as other neighboring states. **Total 1746 (Within Delhi – 1478 and 275-outside Delhi)** summons were disposed off during this period. MRS is also handling various Insurance Policy matters of patients who attended JPNATC in both case whether alive or dead. **Total 32** such cases were disposed off during this period. During the preceding year MRS has entertained **532** police requests for Discharge records/Bed Head Ticket and also issuing X-rays; And coordinating for collection of X-rays from Radio-diagnosis unit and handing over to police. **Total 1122** such cases were disposed off during this period. MRS is furthermore involved in issuing information (for assistance/compensation etc.) to Delhi State/Central Government pertaining to the patients/victims attended JPNATC during the year. The replies of questions raised under Right to Information Act 2005 by various applicants, were also provided by MRS **in 90** cases. The custody of **34,579 electronic MLCs** lying with Police Post JPNATC have been taken in a phased manner. Retrieval of case files for faculties/residents/nursing staff/lab staff/computer facility as and when requested was done for **1750 cases for research purpose**. **Total 18** Disability Certificates were issued to the patient as per guidelines/order of Hon'ble Courts. Besides this around **45-50 corrected discharge/death summaries** were issued to patient after amendment in CPRS.

In the financial year 2017-2018, MRS has conducted three CME-cum-Workshops on topic 'Health Record Science and Informatics at JPNATC' for MRD staff of all hospitals of Delhi and adjoining states.

Laboratory tests done in the department of Laboratory medicine, JPNA Trauma Centre, AIIMS

Total Tests done = 11,75,676

1. Hematology

Hemoglobin:	47,763	TLC:	47,763
Differential count:	47,763	HCT:	47,763
RBC:	47,763	MCH:	47,763
MCHC:	47,763	MCV:	47,763
RDW:	47,763	Platelet count:	47,763
Reticulocyte count:	1129	ESR:	4162
RBC morphology:	2621	Blood parasite:	2861
		Total	4,88,403

Coagulation

PT:	34,300	APTT:	34,300
TT:	410	Fibrinogen:	410
Thromboelastography (TEG):	1690	D-dimer:	425
		Total	71,535

Clinical pathology

Urine routine and microscopy:	4020	Urine myoglobin:	1126
CSF microscopy:	2110	Fat globules:	105
		Total	7,361

Total tests conducted in hematology section = 5,67,299

2. Biochemistry

Sugar:	15,495	Urea:	48,259
Creatinine:	48,259	Calcium:	41,152
Phosphorous:	41,152	Uric acid:	29,484
Sodium:	48,873	Potassium:	48,873
TBIL:	32,916	DBIL:	32,916
Total protein:	32,938	Albumin:	32,938
SGOT:	32,938	SGPT:	32,938
ALP:	32,938	Cholesterol:	4615
Amylase:	4193	HDL:	941
LDL:	960	TG:	960
VLDL:	960	CK:	177
CRP:	1208	Mg:	3280
Lipase:	55	CK-MB:	10
CSF Sugar:	827	CSF Protein:	827
Peritoneal fluid sugar:	3	Peritoneal fluid protein:	17
Urine sugar:	17	Urine protein:	5
Urinary spot Sodium:	235	Urinary creatinine:	110
Peritoneal fluid amylase:	5	24 hrs urine protein:	13
24 hrs urine sugar:	13	Urine osmolality:	36
S. osmolality:	12	Drain fluid amylase:	8
Drain fluid protein:	6		
		Total:	5,71,872

ABG

PO2:	3650	PCO2:	3650
PH:	3650	H+:	3650
Potassium (K):	3650	Sodium (Na):	3650
Calcium (Ca):	3650	Cl:	3650
		Total:	29,200

Total tests conducted in biochemistry section = 6,01,072

3. Microbiology

Total cultures:	14,175	Hospital infection control samples:	5310
Serology sample (screening):	4779	Serology sample (confirmatory):	3186
Procalcitonin assay:	7252	Total identifications:	3657
Total sensitivity:	3657		

Total tests conducted in microbiology section = 42,016

4. Histopathology

Hematoxylin and Eosin:	1822	Special Stains:	466
Specimen processed:	895	No. of blocks:	1761
Histopathology slides:	2351	Cytopathology slides:	90
		Total tests conducted in Histopathology =	7295

Investigations done in Radiology Department, JPNATC, AIIMS

Month/ year	X-ray Cas.	X-ray Cas.	OPD X-ray	Ward X-ray	Special Investigations				USG	Portable X-ray
	Non MLC	MLC			CT	MRI	DSA	Fluoroscopy		
April 2017	3534	2083	851	154	1510	106	9	19	2089	1704
May 2017	3920	2136	1066	166	1692	121	2	15	2325	1489

Month/ year	X-ray Cas.	X-ray Cas.	OPD X-ray	Ward X-ray	Special Investigations				USG	Portable X-ray
June 2017	1768	2197	774	148	1563	106	10	11	2117	1610
July 2017	3616	2192	1109	144	1650	95	10	08	2162	1601
August 2017	3544	2191	1162	157	1905	113	6	17	2210	1746
September 2017	4161	2445	1629	161	1976	105	10	15	2284	1629
October 2017	4060	2536	1293	159	1973	85	15	16	2367	1718
November 2017	4050	2035	1273	175	1686	100	7	20	2214	1716
December 2017	4342	1964	1196	173	1781	110	14	11	2138	1646
January 2018	3524	2057	1464	159	1886	72	9	25	2066	1765
February 2018	3816	2099	1203	136	1804	10	9	15	2243	1632
March 2018	4076	2671	1254	144	2272	109	14	22	2933	1889
Total	44,411	26,606	14,274	1876	21,698	1132	115	194	27,148	20,145

Statistics of Blood Donation Complex, Blood Bank, JPNATC, AIIMS

Month	Donor		Replacement Donors			Voluntary Donors			Indoor Voluntary Donor	Outdoor Voluntary Donor Camp
	Screened	Bled	Male Donor	Female Donor	Total	Male Donor	Female Donor	Total		
April 2017	953	739	556	4	560	163	16	179	115	64
May 2017	870	689	582	2	584	102	3	105	105	nil
June 2017	991	785	589	6	595	186	4	190	97	93
July 2017	757	575	430	3	433	139	3	142	102	40
August 2017	1156	919	669	5	674	231	14	245	92+82	71
September 2017	948	752	618	7	625	109	18	127	84	43
October 2017	918	814	663	4	667	141	6	147	87	60
November 2017	1063	896	707	11	718	167	11	178	101	77
December 2017	966	799	626	4	630	164	5	169	128	41
January 2018	1047	872	769	3	772	96	4	100	100	nil
February 2018	1069	880	767	5	772	106	2	108	108	nil
March 2018	1168	986	820	8	828	153	5	158	101	57
Total	11906	9706	7796	62	7858	1757	91	1848	1302	546

No. of voluntary blood donation camps 11

Statistics of Component Separation Laboratory, Blood Bank, JPNATC

Month	Pack RBC Prepared	Fresh Frozen Plasma Prepared	Platelets Prepared	Cryoprecipitate prepared	Quality Control of Blood and Components
April 2017	739	702	666	30	1% of all units
May 2017	689	674	661	51	1% of all units

Month	Pack RBC Prepared	Fresh Frozen Plasma Prepared	Platelets Prepared	Cryoprecipitate prepared	Quality Control of Blood and Components
June 2017	785	714	687	68	1% of all units
July 2017	575	557	525	nil	1% of all units
August 2017	919	825	797	42	1% of all units
September 2017	752	723	717	24	1% of all units
October 2017	814	775	767	55	1% of all units
November 2017	896	832	810	nil	1% of all units
December 2017	799	759	745	62	1% of all units
January 2018	872	818	798	66	1% of all units
February 2018	880	800	734	44	1% of all units
March 2018	986	832	821	48	1% of all units
Total	9706	9011	8728	490	

Statistics of Infectious Marker Laboratory and Donor Counselling, Blood Bank, JPNATC

Month	HIV		HBsAg		HCV		VDRL		MP	
	Done	Reactive	Done	Reactive	Done	Reactive	Done	Reactive	Done	Reactive
April 2017	716	nil	714	8	721	6	737	nil	689	nil
May 2017	761	2	766	11	760	1	791	nil	739	nil
June 2017	810	2	811	15	813	5	855	2	806	nil
July 2017	579	4	580	6	583	5	634	3	575	nil
August 2017	911	nil	919	9	919	11	980	nil	909	nil
September 2017	744	nil	750	13	754	7	777	2	744	nil
October 2017	848	nil	858	9	859	7	843	3	827	nil
November 2017	913	nil	915	9	921	8	975	3	907	1
December 2017	804	2	809	15	814	6	847	nil	797	nil
January 2018	870	nil	878	7	882	11	915	3	864	nil
February 2018	1028	1	1019	16	1020	5	917	1	870	nil
March 2018	1132	nil	1110	5	1110	6	1042	3	995	1
Total	10,116	11	10,129	123	10,156	78	10,313	20	9722	2

Number of Donor and Patient Grouping Done

Month	Donor Grouping	Patient Grouping	Total
April 2017	739	1063	1802
May 2017	689	1124	1813
June 2017	785	1101	1886
July 2017	575	1215	1790
August 2017	919	1356	2275
September 2017	752	1251	2003
October 2017	814	1230	2044
November 2017	896	1297	2193
December 2017	799	1260	2059
January 2018	872	1276	2148
February 2018	880	1335	2215
March 2018	986	1470	2456
Total	9706	14,978	24,684

Emergency Issue Counter, Blood Bank, JPNATC

Cross-Matching and Blood/Component data

Month	Samples Received	Samples Received for Cross-match	Cross-match Done	PRBC Issued	FFP Issued	PRC Issued	Cryo Issued
April 2017	1063	943	2137	717	397	563	15
May 2017	1124	1052	1708	741	368	602	54
June 2017	1101	1033	1342	794	669	701	30
July 2017	1215	1117	880+3AIIMS	786	1300	446	5
August 2017	1356	1228	799+8 AIIMS	957	746	698	25
September 2017	1251	1098	677 +6 AIIMS	860	730	738	60
October 2017	1230	1129	580+7 AIIMS	931	526	746	23
November 2017	1297	1154	765+15AIIMS	960	683	815	53
December 2017	1260	1143	573+3 AIIMS	866	647	709	41
January 2018	1276	1138	401 +2 AIIMS	853	582	659	47
February 2018	1335	1184	664 +7 AIIMS	807	606	687	52
March 2018	1470	1261	599 +2 AIIMS	1036	1274	814	80
Total	14,978	13,480	11,178	10,308	8528	8178	485

CT Ratio=1.2:1

Blood and Components issued to other hospital Blood Banks (Main AIIMS, CNC, GB PANT, LNH, ESI, Dr Hedgewart)

Month	Blood		FFP		PRC		Cryo	
	Issued	Received	Issued	Received	Issued	Received	Issued	Received
April 2017	11	33	nil	nil	28	6	nil	nil
May 2017	26	4	nil	nil	204	nil	nil	nil
June 2017	18	56	200	nil	60	15	nil	nil
July 2017	3	92	890	nil	nil	78	nil	nil
August 2017	18	74	185	nil	nil	75	nil	nil
September 2017	8	45	100	nil	45	43	nil	nil
October 2017	5	117	20	nil	12	39	nil	nil
November 2017	3	105	nil	nil	45	10	nil	nil
December 2017	32	114	150	nil	19	47	nil	nil
January 2018	36	51	70	nil	52	nil	nil	nil
February 2018	16	6	150	nil	nil	40	nil	nil
March 2018	nil	53	790	nil	nil	15	nil	nil
Total	176	750	2555	nil	465	368	nil	nil

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor Rajesh Malhotra was awarded the **GOSICON Oration** on “Come As You Are Go As You Were—Putting Our Old Back on their feet” during 5th International Conference of GOSI (GOSICON) on 14-16 September 2017 at Chandigarh; Delivered Keynote Lecture—FFN Session on Joint Replacement in Osteoporosis: Challenges and Strategies during the Current Concepts in Arthroplasty 2017 at All India Institute of Medical Sciences, New Delhi on 12-13 August 2017; **Guest of Honour** in National Symposium on “**Violence against Medical Professionals in India**”, a joint programme organized by Academy of Hospital Administration and Indian Medical Association, on 29 April 2017 at IMA Auditorium—Indian Medical Association, ITO, New Delhi; Awarded “**DMA Medical Excellence Award 2017**” from Delhi Medical Association on 2 July 2017 during the Doctor’s Day Celebration in New Delhi; Best Research Award for research entitled “Trunionosis following THA—Spectrum of involvement and a novel classification” presented at **1st Annual Arthroplasty Conference of Hyderabad from 24-25 February 2018 at Hyderabad**; **Guest of Honor** for International Exemplary Research and

Performance (IERP) Awards 2018 at New Delhi on 26 February 2018; **Task Forces:** Member for DBT Committee of “Task Force on ‘Nanobiotechnology’” June 2017; Chairman of Expert Group for Department of Biotechnology (DBT) Task Force on Bio Engineering Projects 2018; Expert for INMAS TD proposal for funding project entitled “Development of Strategies for Combat Casualty Management” for funding in Defence Research and Development Organization (DRDO), New Delhi; Member Task Force on Cost Effective Interventions for addressing leading causes of DALYs by Ministry of Health and Family Welfare; The first meeting was held on 5 December 2017; Participant in Stakeholders’ Consultative Workshop on “Managing Disabilities: Role of Assistive Technologies (ATs)” on 14-15 December 2017 at Parvasi Bhartiya Kendra, Dr Jose P Rizal Marg, Chanakya Puri, New Delhi; Chairman for Task force meeting to Develop Operational Guidelines for the integration of Burns and Trauma Care Services into Comprehensive Primary Health Care Service Package; Expert for ICMR-BIRAC Advisory Committee; Chairperson of Expert Group constituted by Ministry of Health and family Welfare for Developing Emergency Department Guidelines at 200 bedded District Hospital; Expert for Committee constituted by The Ministry of Health and Family Welfare to examine the issues relating to faulty ASR Hip Implants manufactured by M/s. DePuy International Limited, UK; Awarded Fellowship of National Academy of Medical Sciences (**FNAMS**); Awarded Fellowship of National Academy of Sciences (**FNASc**); Expert for INMAS TD proposal for funding project entitled “Development of Strategies for Combat Casualty Management” for funding in Defence Research and Development Organization (DRDO), New Delhi; Chairman for Task force meeting to Develop Operational Guidelines for the integration of Burns and Trauma Care Services into Comprehensive Primary Health Care Service Package on 11 January 2018, New Delhi; Chairperson of Expert Group for Developing Emergency Department Guidelines at 200 bedded District Hospital.

Professor Adarsh Kumar delivered ATS Iyengar Oration during Silver Jubilee—25th Annual Conference of Karnataka Medicolegal Society “KAMLS 25-2017” held on 1-3 December 2017 at Bengaluru; Elected as Governing Council Member of Indo-pacific Association of Law Medicine and Science (INPALMS) for 2016-2019 at Bali, Indonesia; Nominated as Board of Studies-External Expert Member (Forensic Medicine and Forensic Sciences) by Kasturba Medical College, Manipal Academy of Higher Education, Manipal, Karnataka for 2017-2019; Elected as Governing Council Member of Asia Pacific Medicolegal Association (APMLA) for two years 2016-2018; Nominated as Board of Studies-External Expert Member (Forensic Sciences) for 2017-2019 by Amity University, Noida, UP; Chairman, Scientific Committee in “8th International Conference on Medical Negligence and Litigation in Medical Practice—IAMLE-2017” held on 29 September-1 October 2017 at Agra organized under auspices of Indian Association of Medicolegal Experts; Medicolegal Expert to National Human Rights Commission; Medicolegal Expert to Central Bureau of Investigation; Member, Editorial Board of various journals—International Editorial Board Member, HSOA Journal of Forensic, Legal and Investigative Sciences (USA), Egyptian Journal of Forensic Sciences, Egypt, Adli Tip Bulletin, Turkey; Associate Editor, Medicolegal Update, Journal of Research in Medical Education and Ethics; Web Editor, International Journal of Health Research and Medicolegal Practice; Member Editorial Board, Journal of Indian Society of Toxicology, Journal of Karnataka Medicolegal Society, Indian Journal of Community and Family Medicine, Indian Journal of Forensic Medicine and Toxicology, Journal of Forensic Chemistry and Toxicology.

Professor Atin Kumar delivered NG Gadekar Oration of Indian Radiological and Imaging Association for 2018.

Dr Ashish Bindra conducted Cadaveric Interventional Pain Management Workshop on 28 July 2017 at Cadaveric Training and Research Facility, JPNA Trauma Centre, New Delhi.

Professor Chhavi Sawhney won Best Paper Award at RSACPCON 2017: Ultrasonographic assessment of topographic anatomy of brachial plexus at infraclavicular fossa.

Professor Deepak Agrawal was awarded the **Max Impact Awards**—Project with **Maximum Social Impact Category** for AIIMS Appointment system (2017); Awarded **Skoch Smart Governance Award** for Nurse Initiated Follow up teleconsultation in AIIMS (2017); Awarded **Skoch Smart Governance Award** for portable ventilator (2017); Awarded the best paper title for co-authoring the study titled **Effectiveness of a video based consent program** at CEUTEH 2017 held in New Delhi from 11-13 September 2017; Awarded the best paper title for co-authoring the study titled **Effectiveness of Nurse Initiated Follow up using Tele-consultation: Patient satisfaction at CEUTEH 2017** held in New Delhi from 11-13 September 2017; Awarded the best poster title for co-authoring the study titled **Effect of online continuous medical education program in improving the knowledge of nurses regarding Glasgow Coma Scale at CEUTEH 2017** held in New Delhi from 11-13 September 2017; Awarded the best paper title for co-authoring the study titled incidence of Peripheral Intravenous Catheter (PIVC) induced thrombophlebitis among pediatric population in tertiary hospital at CEUTEH 2017 held in New Delhi from 11-13 September 2017.

Dr G.D. Satyarthee received Research Faculty Awards 2018 and Outstanding Reviewer Award 2017.

Dr Kapil Dev Soni was expert participant in Formulation of Standard Treatment Guidelines (STG) for Major Trauma. Ministry of Health and Family welfare, Government of India—year 2017; Development and running of Trauma ICU Registry at Trauma ICU; Joined Fellowship in Clinical Research Methodology and Evidence based Medicine conducted by Clinical Epidemiology Unit of AIIMS (ND) in collaboration with CMET.

Dr Navdeep Sokhal successfully conducted **Cadaveric pain workshop** as a **workshop co-ordinator** on 28 July 2017; Presented paper in international conference named NZ Anaesthesia ASM 2017 at Rotorua, New Zealand.

Professor S. Arulselvi co-authored a Paper presentation on a study “Acute traumatic brain injury induced endotheliopathy and its impact on clinical outcome” in ANTC 2017, 4th AIIMS Neurotrauma Conference, held in AIIMS, New Delhi from 27-28 October 2017 and won the First Paper Award; Co-authored a Paper presentation on a study “Experience of Concussion Screening in Mild TBI (MTBI) Patients on Admission in a Level I Trauma Centre in Northern India” in ANTC 2017, 4th AIIMS Neurotrauma Conference, held in AIIMS, New Delhi from 27-28 October 2017 and won the First Best Poster Award; Co-authored a Paper presentation on a study “Metastatic thyroid carcinoma in a cervical injury patient: An incidental finding” in ANTC 2017, 4th AIIMS Neurotrauma Conference, held in AIIMS, New Delhi from 27-28 October 2017 and won the Second Best Poster Award.

Professor Shivanand Gamangatti received Academic Excellence Award at IRIA Annual Meet (Delhi), Delhi Imaging Update held at LHMC, New Delhi from 23-25 February 2018.

Professor Subodh Kumar received AIIMS Excellence Research Award in Clinical Research Category for the paper by Parajuli P, Kumar S, Gupta A, et al. entitled Role of Laparoscopy in Patients with Abdominal Trauma at Level I Trauma Center published in Surg Laparosc Endosc Percutan Tech 2018;28:20-25; Awarded Dr H. Lalmohan Singh Oration on “Comprehensive management of Blunt abdominal and pelvic Trauma” by the Association of Surgeons of India Manipur Chapter during ASIMANICON held in October 2017; Awarded prestigious membership of National Academy of Medical Sciences from 27-28 October 2017 at Amritsar; Member of Advisory Committee for setting up of JIPMER Institute of Trauma Care and Rehabilitation; External Expert for Standing Selection Committee of All India Institute of Medical Sciences, Rishikesh, 2017.

Professor Sushma Sagar was nominated member from AIIMS to attend Managing Disabilities: Role of Assistive technologies organized by ICMR supported by WHO titled Stakeholder’s Consultative workshop on 14-15 December 2017, Parwasibhartiyakala Kendra Delhi; Invited to visit ALC (Artificial Limb Centre) Pune to upgrade the Amputation Rehabilitation for Trauma patients at JPNATC Appeared on FM Rainbow on live air show titled Road safety for all on 19 December 2017 and 27 March 2018, Appeared on Doordarshan for panel discussion on Safety on Deepawali Festival.

Professor Vivek Trikha was awarded fellowship of Royal College of Surgeons (Glasgow); Associate Editor of Indian Journal of Orthopaedics national Journal of Indian Orthopaedic Association (Pubmed indexed journal).

10.6. National Drug Dependence Treatment Centre

Professor and Chief

R.K. Chadda

Professors

Raka Jain
Sonali Jhanjee

Rakesh Lal

Anju Dhawan
Atul Ambekar

Associate Professors

Yatan Pal Singh Balhara
Ashwani K Mishra

Gauri Shanker Kaloiya

Ravindra Rao
Rachna Bhargava

Assistant Professors

Prabhu Dayal
Rizwana Quraishi

Biswadip Chatterjee
Siddharth Sarkar
Roshan Bhad

Alok Agrawal
Piyali Mandal

Group A Officers Scientist

Dr Monica Mongia

Medical Social Service Officer

Mr Deepak Yadav

Mr Braham Prakash
Mr Ratnesh Kumar

Mr Dinesh Kumar

Senior Administrative Officer

Mr Ajay Kumar

Accounts Officer

Ms Meenakshi Dabral

Assistant Nursing Superintendent

Ms Radhamani Niar (From July 2017)

Assistant Store Officer

Mr Bhawani Ram (Till October 2017)

Mr ML Arya (From October 2017)

HIGHLIGHTS

NDDTC has been the WHO Collaborating Centre on Substance Abuse since 2012. During 2017-2018, the Centre has progressed with regard to treatment, training and research in area of drug abuse. A total of 164,342 patients were seen: 10,536 new patients and 1,53,806 old patients inclusive of regular OPD, 4 community clinics and 3 speciality clinics. The NDDTC laboratory attended to more than 90,000 samples during the year in its toxicology, haematology, biochemistry and HIV screening labs. The laboratory has currently the facility to detect 19 types of addictive substances.

NDDTC in collaboration with the Ministry of Social Justice and Empowerment, Government of India and 10 medical institutes from all across the country is conducting a national survey on the extent and patterns of substance use in India. NDDTC is also involved in developing and implementing training mechanism for use of Essential Narcotic Drugs (ENDs) for treatment of opioid dependence. This activity is funded by the Department of Revenue, Ministry of Finance, Government of India. NDDTC is also conducting a multicentric study on 'Detection of New Psychoactive Substances among Substance Abuse Treatment Seekers in India', funded by the Department of Revenue, Ministry of Finance, Government of India.

Many faculty members are technical experts and also holding key positions in national and international professional bodies and editorial boards in prestigious peer reviewed journals. Several faculty members are recipient of professional honors and awards.

Currently, national and international agencies are funding ongoing research projects in the centre. More than 100 articles in various peer reviewed national and international journals and many books\chapters in books\reports have been published during this period.

NDDTC and Department of Psychiatry, AIIMS, New Delhi organized two national level conferences during this year, titled “First National Conference on Addiction Psychology” (7-8 September 2017) and “First National Conference on Addiction Psychiatry” (27-29 November 2017). Both the programmes were well attended by about 250 and 400 delegates from respectively from various parts of the country. A half-day Symposium on “Women and substance use” was organized on 13 April 2017 on the occasion of 14th Annual Day of NDDTC. On the eve of “World No Tobacco Day” theme Symposium titled “Capacity Building for Tobacco Cessation” was organized on 30 May 2017. Besides this, a national level CME titled “Emerging Issues in Substance Use Disorders” was also organized in association with National Academy of Medical Sciences (NAMS) on 22 July 2017.

The centre offers two specialized doctoral level programmes in addiction psychiatry, Doctorate of Medicine (DM) and PhD. First PhD was awarded last year. DM programme has an intake of 5 every year.



EDUCATION

Under Graduate

MBBS students are posted for a day in the centre during their psychiatry posting.

Postgraduate

Residents doing MD (Psychiatry) are posted for in the centre for 6 months.

Eleven candidates are doing DM in Addiction Psychiatry.

PhD and Post Graduate teaching

- *Journal discussion: Weekly
- *CCR and CGR two in every semester
- Seminar: Weekly
- Case Conference: Weekly
- Seminars/Journal Club: Weekly (at NDDTC, GZB)

**Joint activities of the Department of Psychiatry and the Centre*

Lectures delivered

R. K. Chadda

1. Newer Antipsychotics: Unaddressed Issues, 26th Annual Conference of Punjab and Chandigarh Branch of the Indian Psychiatric Society, 13-14 May 2017, Ludhiana
2. Schizophrenia: Psychosocial Interventions, Annual Conference of Indian Association of Private Psychiatrists: Delhi Chapter, 21 May 2017, New Delhi
3. Panel discussion on enhancing the reach of and quality of addiction treatment services in India, National CME on Emerging Issues in Substance Use Disorders, 22 July 2017, New Delhi
4. Vascular dementia, 13th Annual Conference of the Indian Association for Geriatric Mental Health, 15-16 September 2017, Chandigarh
5. Expert group meeting on Harm Reduction and Stimulants, International Drug Policy Consortium, 4-6 October 2017, Bangkok, Thailand
6. Challenges to mental health in South Asia: Solutions from Social Psychiatry, Symposium in XVIIIth World Congress of Psychiatry, 8-12 October 2017, Vienna, Austria
7. Expert group meeting of the NIHR Psychosis Research Group, Warwick India Canada (WIC) Meeting, 18-19 October 2017, New Delhi
8. Innovative approaches in Psychosocial Rehabilitation, Symposium in World Congress of Mental Health, 2-5 November 2017, New Delhi
9. Consultation liaison psychiatry in Low Resource Settings, World Congress of Mental Health, 2-5 November 2017, New Delhi
10. Drug addiction: Challenges and solutions, Symposium on Drug Addiction, 15 November 2017, New Delhi
11. Bio-psycho-social Interventions for Patients with FEP in Low Resource Settings: Overview, Symposium in 24th National Conference of the Indian Association for Social Psychiatry, 17-19 November 2017, Guwahati
12. Substance use disorders: Challenges to social psychiatry, First National Conference on Addiction Psychiatry, 27-29 November 2017, New Delhi
13. Pharmacovigilance in Substance Use Disorders, Symposium in First National Conference on Addiction Psychiatry, 27-29 November 2017, New Delhi
14. Towards the development of the Regional Programme for South Asia (2018-2021), First Expert Group Meeting of UNODC ROSA, 18-19 December 2017, New Delhi
15. Panel discussion on National and International Perspectives on Drug Control, First National Conference on Addiction Psychiatry, 27-29 November 2017, New Delhi
16. Mental health promotion: Contribution of ancient Indian scripts, Annual National Conference of the Indian Association of Clinical Psychologists, 23-25 February 2018, Greater Noida
17. Mental health, Public Lecture for CRPF Personnel, 16 March 2018, Greater Noida

Raka Jain

1. Laboratory profile of substance abusing women at NDDTC, 14th Annual Day Celebration of NDDTC, 13 April 2017, Ghaziabad
2. New psychoactive substances: An emerging shift in forensic practice, IAMLE 2017, 8th International Conference on Medical Negligence and Litigation in Medical Practice, 8th International Conference on Recent Advances in Forensic Sciences, Forensic Medicine and Toxicology, 30 September-1 October 2017, Agra
3. New psychoactive substances: Laboratory assessment, National CME on Emerging Issues in Substance Use Disorders, 22 July 2017, New Delhi
4. An overview of drug abuse testing and its relevance to clinical practice, Global Initiative of Academic Networks (GIAN) Workshop, on Neuropharmacology of Addiction (Ministry of Human Resource Development MHRD) Government of India), 11 October 2017, Chandigarh
5. Newer Psychoactive substances: The Emerging Face of Drug Abuse, 1st National Conference on Addiction Psychiatry (NCAP) 2017, 27-29 November 2017, New Delhi
6. Dried urine spot and hair testing in substance use disorder, 1st National Conference on Addiction Psychiatry (NCAP) 2017, 27-29 November 2017, New Delhi
7. Lab testing for nicotine-CO monitor and Urine Cassette test, Symposium: Capacity Building for Tobacco Cessation, 30 May 2017, New Delhi

Rakesh Lal

1. Management of child and adolescent substance abuse, International Conference of Management of Substance abuse in Adolescent and Youth, 14-16 April 2017, New Delhi
2. Alcohol abuse management in India, WHO forum on alcohol and addictive behavior, 26-28 June 2017, Geneva
3. Management of comorbidity, 19th International Society of Addiction Psychiatry Annual Conference, 26-29 October 2017, Abu Dhabi
4. Symposium on comorbidity in Substance Abuse, National Conference of Indian Association of Social Psychiatry, 17-19 November 2017, Guwahati
5. Management of substance abuse—Public health approach, 1st National Conference of Addiction Psychiatry, 27-29 November 2017, New Delhi
6. Long term management of alcohol use disorders, 10th SAARC International Psychiatry Conference, 15-17 December 2017, Kolkata
7. Management of opioid abuse in India, 3rd Meeting of UNODC Informal International Scientific Network, 12-13 March 2018, Vienna

Anju Dhawan

1. Management of volatile substance and alcohol use disorder, Training of Medical Officers of NCT of Delhi on management of Adolescent Substance Use, 25 January 2018, New Delhi
2. Schools and drug abuse prevention, Training of School Teachers from Sikkim, 19 February 2018, New Delhi

Sonali Jhanjhee

1. E-cigarettes and adolescents: Controversies and current status, National CME on “Emerging Issues in Substance Use Disorders”, 22 July 2017, New Delhi
2. Tobacco use disorder, Annual National Conference on Addiction Psychology, 7 September 2017, Ghaziabad
3. Addiction process and Tobacco cessation interventions, Workshop on Tobacco Intervention Initiative, 24 September 2017, New Delhi
4. Addiction problems at the workplace, Public Lecture on World Mental Health Day: Mental Health at Workplace, 10 October 2017, New Delhi
5. The rationale of opioid substitution treatment, MHRD GIAN Program on Addiction at Panjab University, Chandigarh, 11 October 2017, Chandigarh
6. Basics of tobacco de-addiction, Updates in Management of Head and Neck Cancer, 4 November 2017, New Delhi
7. Tobacco prevention and cessation with global tobacco control, Student Mentorship Programme, 19 December 2017, New Delhi
8. E-cigarette use in adolescence: Issues and challenges, First National Conference on Addiction Psychiatry, 27 November 2017, New Delhi
9. De-addiction counselling, NRT and Pharmacotherapy for tobacco addiction, Training Programmes for Dental Professionals on Tobacco Cessation, 21 January 2018, New Delhi

Atul Ambekar

1. Abuse of pharmaceutical drugs, Training Programme for Drug Law Enforcement Officers, National Academy of Customs, Excise and Narcotics (NACEN), 31 May 2017, Faridabad
2. Alcohol Control: Identifying opportunities for civil society action in the current policy context, National Civil Society Consultation on Non-Communicable Diseases (NCDs) in India, 11 July 2017, New Delhi
3. Enhancing the reach and quality of addiction treatment services in India, National CME on Emerging Issues in Substance Use Disorders, 22 July 2017, New Delhi
4. Beyond Alcohol: Issues and Strategies, Meeting of Indian Psychiatric Society, Bihar (in the context of Alcohol Prohibition), 24 July 2017, Patna
5. Cannabis dependence: Neurobiology and treatment approaches, Annual Conference of Indian Association for Biological Psychiatry, 19 August 2017, Chandigarh
6. Opioid use disorders: An overview, 1st National Conference of Addiction Psychology, 7 September 2017, New Delhi
7. Issues related to pharmaceutical drugs abuse, Training Programme for Drug Law Enforcement Officers from Tanzania, National Academy of Customs, Indirect Tax and Narcotics (NACIN), 10 November 2017, Faridabad
8. Trends in Drug Laws and Policies, National Conference of Addiction Psychiatry, 27 November 2017, New Delhi

9. Co-morbid cannabis use disorder and gaming disorder, WHO Meeting on Public health Implications of Addictive Behaviors, 1 December 2017, Istanbul, Turkey
10. Harm reduction in India: Implementation and experiences, National Workshop on Harm Reduction for Injecting Drug Users in India, 4 December 2017, New Delhi
11. Drug use epidemiology: Methodological issues, Training Programme on “Advanced Sampling Techniques” for officers of Indian Statistical Service, National Statistical Systems Training Academy (NSSTA), 7 December 2017, Noida
12. Pharmaceutical drug use—South Asia, Training programme for officers from Department of Narcotics Control, Bangladesh organized by NACIN, Government of India, 13 December 2017, Faridabad
13. An overview of drug use disorders, Training Programme for Drug Law Enforcement officers from Government of Myanmar, Narcotics Control Bureau, 23 February 2018, New Delhi
14. Rational use of opioids, National Conference of Indian Association of Palliative Care, 25 February 2018, New Delhi
15. Opioid substitution treatment: An overview of theory and evidence base, Workshop on Drug Use Pattern in Sri Lanka, 27 February 2018, Colombo, Sri Lanka
16. Drug demand reduction strategies, Training programme for Drug Law Enforcement officers from Bhutan, organized by NACIN, Government of India, 13 March 2018, Faridabad
17. Integrating substance use in comprehensive public health care, Task Force Meeting on Integrating Mental Health and Epilepsy in Comprehensive Public Health Care, 14 March 2018, Bengaluru
18. Alcohol use disorder: Demand reduction strategies, South East Asia Region Course on Public Health Approaches for Non-Communicable Disease, 21 March 2018, New Delhi
19. National drug use survey: An overview, National Conference of Drug Law Enforcement Agencies, 24 March 2018, New Delhi
20. Traumatic life events, substance abuse, delinquency and mental illness, National Conclave on “Psychological Trauma, Child Protection and Mental Illness”, 28 March 2018, New Delhi

YPS Balhara

1. Anxiety disorders, Training of Addiction Professionals from Thailand, Cambodia, Laos on Universal Treatment Curriculum for Substance Use Disorders (UTC), 26 May 2017, Bangkok
2. Substance-induced mental disorders, Training of Addiction Professionals from Thailand, Cambodia, Laos on Universal Treatment Curriculum for Substance Use Disorders (UTC), 29 May 2017, Bangkok
3. Common co-occurring medical disorders, Training of Addiction Professionals from Thailand, Cambodia, Laos on Universal Treatment Curriculum for Substance Use Disorders (UTC), 29 May 2017, Bangkok
4. Treatment engagement and retention, Training of Addiction Professionals from Thailand, Cambodia, Laos on Universal Treatment Curriculum for Substance Use Disorders (UTC), 30 May 2017, Bangkok
5. Administering and coding the ASSIST, Training of Addiction Professionals from Thailand, Cambodia, Laos on Universal Treatment Curriculum for Substance Use Disorders (UTC), 30 May 2017, Bangkok
6. Clinical utility of the ASI, Training of Addiction Professionals from Thailand, Cambodia, Laos on Universal Treatment Curriculum for Substance Use Disorders (UTC), 31 May 2017, Bangkok
7. Administering the medical status section of ASI, Training of Addiction Professionals from Thailand, Cambodia, Laos on Universal Treatment Curriculum for Substance Use Disorders (UTC), 31 May 2017, Bangkok
8. Administering the Employment/Support section of ASI, Training of Addiction Professionals from Thailand, Cambodia, Laos on Universal Treatment Curriculum for Substance Use Disorders (UTC), 31 May 2017, Bangkok
9. Administering the Alcohol/Drug section of ASI, Training of Addiction Professionals from Thailand, Cambodia, Laos on Universal Treatment Curriculum for Substance Use Disorders (UTC), 31 May 2017, Bangkok
10. Developing Person-Centered Treatment Plan, Training of Addiction Professionals from Thailand, Cambodia, Laos on Universal Treatment Curriculum for Substance Use Disorders (UTC), 1 June 2017, Bangkok
11. Documentation for addiction professionals, Training of Addiction Professionals from Thailand, Cambodia, Laos on Universal Treatment Curriculum for Substance Use Disorders (UTC), 2 June 2017, Bangkok
12. Role of chirality in Neuropsychiatry, Meeting for Development of Association of Physicians of India (API) Position Statement on Role of Chiral Molecules in Clinical Practice, 2 July 2017, Mumbai
13. Essentials for documentation for addiction professionals, Training of Cambodian National Trainers on Universal Treatment Curriculum for Substance Use Disorders (UTC), 31 July 2017, Phnom Penh

14. Administering and Coding the ASSIST, Training of Cambodian National Trainers on Universal Treatment Curriculum for Substance Use Disorders (UTC), 31 July 2017, Phnom Penh
15. Behavioural addictions: Neurobiology and psychiatric interventions, National CME on Emerging Issues in Substance Use Disorders, 22 July 2017, New Delhi
16. Effective use of the ASSIST in brief interventions, Training of Cambodian national trainers on Universal Treatment Curriculum for Substance Use Disorders (UTC), 1 August 2017, Phnom Penh
17. Introducing the client to the ASI, Training of Cambodian National Trainers on Universal Treatment Curriculum for Substance Use Disorders (UTC), 2 August 2017, Phnom Penh
18. Administering the General Information Section of ASI, Training of Cambodian National Trainers on Universal Treatment Curriculum for Substance Use Disorders (UTC), 2 August 2017, Phnom Penh
19. Interviewer Severity Ratings for ASI, Training of Cambodian National Trainers on Universal Treatment Curriculum for Substance Use Disorders (UTC), 3 August 2017, Phnom Penh
20. Developing Person-Centered Treatment Plan, Training of Cambodian National Trainers on Universal Treatment Curriculum for Substance Use Disorders (UTC), 3 August 2017, Phnom Penh
21. Writing Narrative Summaries and Person—Centered Plans, Training of Cambodian national trainers on Universal Treatment Curriculum for Substance Use Disorders (UTC), 4 August 2017, Phnom Penh
22. Developing practice integration plan, Training of Cambodian National Trainers on Universal Treatment Curriculum for Substance Use Disorders (UTC), 4 August 2017, Phnom Penh
23. Behavioral Addictions, First National Conference on Addiction Psychology, 8 September 2017, Ghaziabad
24. Key co-occurring disorders definitions, Training on Universal Treatment Curriculum for Substance Use Disorders (UTC) for South Africa, 9 October 2017, Pretoria
25. Major depressive disorder, Training on Universal Treatment Curriculum for Substance Use Disorders (UTC) for South Africa, 10 October 2017, Pretoria
26. Personality disorders, Training on Universal Treatment Curriculum for Substance Use Disorders (UTC) for South Africa, 10 October 2017, Pretoria
27. Attention Deficit-Hyperactivity Disorder (ADHD), Training on Universal Treatment Curriculum for Substance Use Disorders (UTC) for South Africa, 10 October 2017, Pretoria
28. Common co-occurring medical disorders, Training on Universal Treatment Curriculum for Substance Use Disorders (UTC) for South Africa, 11 October 2017, Pretoria
29. Counselor characteristics and style, Training on Universal Treatment Curriculum for Substance Use Disorders (UTC) for South Africa, 12 October 2017, Pretoria
30. Counselor self-disclosure, Training on Universal Treatment Curriculum for Substance Use Disorders (UTC) for South Africa, 12 October 2017, Pretoria
31. Reflective listening, Training on Universal Treatment Curriculum for Substance Use Disorders (UTC) for South Africa, 13 October 2017, Pretoria
32. Rolling with resistance, Training on Universal Treatment Curriculum for Substance Use Disorders (UTC) for South Africa, 13 October 2017, Pretoria
33. Strategies for change—Decisional balancing, Training on Universal Treatment Curriculum for Substance Use Disorders (UTC) for South Africa, 14 October 2017, Pretoria
34. Group counselling, Training on Universal Treatment Curriculum for Substance Use Disorders (UTC) for South Africa, 16 October 2017, Pretoria
35. Family psychoeducation, Training on Universal Treatment Curriculum for Substance Use Disorders (UTC) for South Africa, 17 October 2017, Pretoria
36. LSD/Acid, National CME on ‘Newer Drugs: Newer Challenges’, 24 October 2017, Bengaluru
37. Special population issues for consideration and co-occurring medical and mental disorders, Training on Universal Treatment Curriculum for Substance Use Disorders (UTC) at the 1st International Society for Substance Use Prevention and Treatment Professionals (ISSUP), Philippines Conference, 7 November 2017, Manila
38. Counseling Practice for Addiction professionals, Training on Universal Treatment Curriculum for Substance Use Disorders (UTC) at the 1st The International Society for Substance Use Prevention and Treatment Professionals (ISSUP), Philippines Conference, 8 November 2017, Manila
39. Professional Issues for Addiction professionals, Training on Universal Treatment Curriculum for Substance Use Disorders (UTC) at the 1st The International Society for Substance Use Prevention and Treatment Professionals (ISSUP), Philippines Conference, 9 November 2018, Manila

40. Behavioral Addictions: Concept, 1st National Conference of Addiction Psychiatry, 29 November 2017, New Delhi
41. Newer Drugs, Newer Challenges, 27th Annual Conference of Delhi Psychiatric Society (DPS), 24 December 2017, New Delhi
42. Substance use disorders among elderly, 15th Annual Conference of the Indian Academy of Geriatrics—Nursing Conference (GERICON 2017), 16 December 2017, New Delhi
43. Substance use and abuse at workplace, Workshop on Mental Health at Workplace organized by College of Nursing, 6 March 2018, AIIMS, New Delhi
44. Behavioral addictions: Concept and Nosological Status, 44th Annual National Conference of Indian Association of Clinical Psychologists, 23 February 2018, Greater Noida

Gauri Shanker Kaloiya

1. Ensuring safety for children with disabilities, Three days Continuing Rehabilitation Education (CRE) Program, 16 March, 2018, Rohtak
2. Stress management during Exams, Good Evening India, Door Darshan (DD) Kendra, India, 5 March 2018, New Delhi
3. Management of cannabis use disorder and mental illness, 70th Annual National Conference of Indian Psychiatric Society (ANCIPS), 5-8 February 2018, Ranchi
4. Management of stress and addiction, Training Program for Superannuating Officers of CBI, 19 January 2018, Ghaziabad
5. Health promotion for excellence: Substance addiction and organizations, 21 December 2017, Kharagpur
6. Stress management and health behaviour, 5 Days Training Program for newly joined Sub-Inspectors of CBI, 7 December 2017, Ghaziabad
7. Management of cannabis use, 1st National Conference on Addiction Psychiatry, 27-29 November 2017, New Delhi
8. Management of alcohol use and depression, 24th National Conference of Social Psychiatry, 17-19 November 2017, Guwahati
9. Introduction to students' welfare activities at AIIMS, 1st Faculty Mentorship Program, for Faculty Members of VMMC and Safdarjung Hospital, 25 October 2017, New Delhi
10. Psychological profiling and interviewing techniques, 5 Days Training Course for CBI Officers, 17-21 July 2017, Ghaziabad

Ravindra Rao

1. Effectiveness of opioid substitution therapy: What works and what doesn't, National CME on Opioid Substitution Therapy, organized by Indian Psychiatric Society, Addictive disorders—Specialty section, 6 January 2018, Imphal
2. Prevention and control of drug abuse, Lecture Delivered at LNJN National Institute of Criminology and Forensic Sciences, 31 October 2017, New Delhi
3. Deaddiction—Future from here on, Annual Conference of Punjab and Chandigarh Branch of Indian Psychiatric Society 2017, 13-14 May 2017, Ludhiana
4. Drug de-addiction: Physical and mental impact, Lecture delivered for “3 Months Certificate Course on Drug De-addiction and Counselling” organized by National Institute of Social Defence, Ministry of Social Justice and Empowerment, Government of India, 15 May 2017, New Delhi
5. Sensitization programme on drug abuse in Amity University, National Institute of Social Defence, Ministry of Social Justice and Empowerment, Government of India, 2018, New Delhi

Ashwani Mishra

1. National level sampling methodology, Regional Training of Trainers, National Survey on Extent and Pattern of Substance use in India, by Ministry of Social Justice and Family Empowerment (MOSJ&E), Government of India, 3 November 2017, Delhi
2. Sampling methodology—North East Regions, Regional Training of Trainers, National Survey on Extent and Pattern of Substance use in India, by Ministry of Social Justice and Family Empowerment (MOSJ&E), Government of India, 24 October 2017, Imphal
3. Sampling methodology—Central Regions, Regional Training of Trainers, National Survey on Extent and Pattern of Substance use in India, by Ministry of Social Justice and Family Empowerment (MOSJ&E), Government of India, 10 October 2017, Ranchi
4. Sampling methodology—Western Regions, Regional Training of Trainers, National Survey on Extent and Pattern of Substance use in India, by Ministry of Social Justice and Family Empowerment (MOSJ&E), Government of India, 9 October 2017, Bengaluru

5. Scientific talk on sampling methodology—Northern Regions, Regional Training of Trainers, National Survey on Extent and Pattern of Substance use in India, by Ministry of Social Justice and Family Empowerment (MOSJ&E), Government of India, 3 October 2017, Delhi
6. Household mapping and listing, National Training of Trainers for the Northern Regions, National Survey on Extent and Pattern of Substance use in India, by Ministry of Social Justice and Family Empowerment (MOSJ&E), Government of India, 18 September 2017, Delhi
7. Basics of statistics and biostatistics, In House Departmental Workshop, 19 August 2017, Delhi
8. Data analysis using excel, In House Departmental Workshop, 19 August 2017, Delhi
9. Elements of descriptive statistics, Food and Safety Department, Government of NCT of Delhi, 6 June 2017, Delhi
10. Techniques of data screening, Food and Safety Department, Government of NCT of Delhi, 6 June 2017, Delhi
11. Data analysis on SPSS, Food and Safety Department, Government of NCT of Delhi, 6 June 2017, Delhi
12. Regression analysis, Food and Safety Department, Government of NCT of Delhi, 7 June 2017, Delhi
13. Analyzing repeated measurement in health sciences, Food and Safety Department, Government of NCT of Delhi, 7 June 2017, Delhi
14. Factor analysis, Food and Safety Department, Government of NCT of Delhi, 7 June 2017, Delhi
15. District selection and state stratification plan, National Consultation Workshop, National Survey on Extent and Pattern of Substance use in India, by Ministry of Social Justice and Family Empowerment (MoSJE), Government of India, 5 May 2017, Delhi

Rachna Bhargava

1. Child sexual abuse, Training of Counselors and Staff of CCI, 6 July 2017, Shimla
2. Crime and violence: Psychological aspects, Advance Course on Investigations and Detection of Crime by Central Detective Training School, 19 July 2017, Ghaziabad
3. Dealing with victims of sexual abuse, Training of Counsellors and Staff of CCI, 5 August 2017, Delhi
4. Understanding stress and its management, Panel Discussion on World Mental Health Day, 10 October 2017, New Delhi
5. Parenting in the web world, Symposium in 14th Biennial Conference of Indian Association of Child and Adolescent Mental Health (IACAM), 25 November 2017, Kolkata
6. Psychological interventions in behavioral addiction, Symposium in 1st National Conference of Addiction Psychiatry, 29 November 2017, New Delhi
7. Dealing with children with problematic children, Training of Counsellors and Staff of CCI, 7 December 2017, Guwahati
8. Identification of mental health needs in children, Training of Counsellors and Staff of CCI, 21 December 2017, Port Blair
9. Identification of behavioral problems and substance use in children, Training of Teachers by DIET, 28 December 2017, New Delhi
10. Counselling, training of medical officers under adolescent health, Department of Family Welfare, 5 February 2017, Delhi
11. Scope of clinical psychologists, Lecture for Undergraduates and Postgraduates, 6 February 2019, New Delhi
12. Understanding human psychology in dispute resolution, Training for Mediators of Courts, Delhi Judicial Academy, 16 February 2018, New Delhi
13. Understanding counselling, Training to Principal Counsellors /Judges of Family Courts, Delhi Judicial Academy, 24 February 2018, New Delhi

Prabhoo Dayal

1. Relapse prevention, First Annual National Conference on Addiction Psychology 2017, 7-8 September 2017, Ghaziabad

Alok Agarwal

1. Identification of co-morbidities and mental health issues among patients with substance use disorders, Workshop on Substance Abuse Prevention—Case Management and Treatment Modalities, 1 June 2017, New Delhi
2. Basics of drugs and drug-use disorders, Relapse Prevention and Management, Orientation Workshop by National Institute of Social Defence, 22 August 2017, New Delhi

3. Principles of treatment of drug dependence treatment, Drug Abuse Prevention and Treatment, Orientation Workshop by National Institute of Social Defence, 4 September 2017, New Delhi
4. Addictive disorders: Assessment and management: Community-based approaches, First National Conference on Addiction Psychology, 8 September 2017, Ghaziabad
5. Overview of opioid substitution treatment, Drug Abuse Prevention and Treatment, Orientation Workshop by National Institute of Social Defence, 9 September 2017, New Delhi
6. Methodological issues in studying drug use epidemiology in India, National Conference on Addiction Psychiatry, 27 November 2017, New Delhi
7. Harm reduction in substance use disorders: Concept and approaches, National Conference on Addiction Psychiatry, 28 November 2017, New Delhi

Biswadip Chatterjee

1. Children with substance abuse, Capacity building programme of CCI staff and other stakeholders on Handbook on Counseling, 6 April 2017, Shimla
2. Drug treatment and addiction, 3 Months Certificate Course on Drug De-addiction and Counseling, 7 June 2017, New Delhi
3. Application of counselling skills in special situations—Children with substance abuse, Programme for Training of CCI Staff of Delhi, 1 August 2017, New Delhi
4. Counselling in children with difficult situations and substance abuse, Workshop on Continuing Professional Development (CPD) of Counselors and Head of Child Care Institutions of Tamil Nadu, 28-30 August 2017, Ooty
5. Catering to psychological needs of adolescents using drugs, Annual National Conference on Addiction Psychology (ANCAP-2017), 7-8 September 2017, Ghaziabad
6. Addiction and the reward circuit and brain communication: Impact of drug on brain/how brain react, 5 Days Training Course on “Drug Abuse Prevention and Counseling”, 18-20 September 2017, New Delhi
7. Methods (Routes of administration: Occasional use, Experimental use and dependence, stages of drug dependence, 5 Days Training Course on “Drug Abuse Prevention and Counseling”, 18 September 2017, New Delhi
8. Screening and assessment of client, 5 Days Training Course on “Drug Abuse Prevention and Counseling”, 20 September 2017, New Delhi
9. Brief Intervention, 5 Days Training Course on “Drug Abuse Prevention and Counseling”, 20 September 2017, New Delhi
10. Drug and Substance use in children—An overview, Intersectoral Convergence and Sensitization Programme on Substance Use in Children, 10 November 2017, Amritsar
11. Counselling in children with difficult situations and substance abuse, Continuing Professional Development (CPD) of Counselors and Superintendents of CCIs, 7-8 December 2017, Guwahati
12. Management of alcohol dependence—Uncomplicated and complicated withdrawal, Induction Training for Staff of Drug Treatment Clinics (DTCs), 15-19 January 2018, Mumbai
13. Management of alcohol dependence—Long term: Anticraving, Deterrents, Induction Training for Staff of Drug Treatment Clinics (DTCs), 15-19 January 2018, Mumbai
14. Assessment and diagnosis of opioid dependence—Role play, Induction Training for Staff of Drug Treatment Clinics (DTCs), 15-19 January 2018, Mumbai
15. Agonist Maintenance—Standard Operating Procedures, Induction Training for Staff of Drug Treatment Clinics (DTCs), 15-19 January 2018, Mumbai
16. Brief Intervention for Alcohol Abuse, Induction Training for Staff of Drug Treatment Clinics (DTCs), 15-19 January 2018, Mumbai
17. Screening and assessment of adolescent substance use, Training of Medical Officers under Adolescent Friendly Health Clinics scheme, 25 January 2018, Delhi
18. Management of acute withdrawal of opioid use disorder, Training of Medical Officers under Adolescent Friendly Health Clinics scheme, 2 February 2018, Delhi
19. Long term management of opioid use disorder, Training of Medical Officers under Adolescent Friendly Health Clinics scheme, 2 February 2018, Delhi
20. School, classroom, community and home influences on substance use, 20 February 2018, New Delhi
21. Substance Use and HIV in children, Northeast regional consultation on Social protection for children and adolescents infected and affected with HIV/AIDS, 14 March 2018, Guwahati

22. Application of Counseling skills in special situations-Children with Substance Abuse/child sexual abuse/suicidal behavior etc., Continuing Professional Development (CPD) of counselors and Superintendents of CCIs of Shillong, 22 March 2018, Shillong
23. Identification of Mental Health needs of children, Continuing Professional Development (CPD) of counselors and Superintendents of CCIs of Tura, 24 March 2018, Tura
24. Application of Counseling skills in special situations-Children with Substance Abuse/child sexual abuse/suicidal behavior etc., Continuing Professional Development (CPD) of counselors and Superintendents of CCIs of Tura, 24 March 2018, Tura

Piyali Mandal

1. Gender sensitive interventions: An overview, Emerging Issues in Substance Use Disorders, 22 July 2017, New Delhi
2. Concept of drug abuse and types of drugs, Training of Medical Officers of NCT of Delhi on Management of Adolescent Substance Use, 23 January 2018, Delhi
3. Management of tobacco and cannabis use disorders, Training of Medical Officers of NCT of Delhi on management of Adolescent Substance Use, 2 February 2018, Delhi
4. Skills of dealing with Adolescents facing substance abuse, Substance abuse awareness and treatment for teachers of senior schools under Jamia Milia Islamia, 22 December 2017, Delhi

Siddharth Sarkar

1. Suicide prevention in India: Miles to go before we sleep, 113th Annual Meeting of the Japanese Society of Psychiatry and Neurology, 22-24 June 2017, Nagoya (Japan)

Roshan Bhad

1. Psycho active substances—Characters and consequences, Invited lecture at NISD, 2 June 2017, Delhi
2. Training Programme for Household Survey, Haryana, National Drug Use Survey, 18-20 January 2018, Delhi
3. Training Programme for Household Survey, Delhi, National Drug Use Survey, 14-15 February 2018, Delhi
4. OST Training Programme for Medical Officers, Invited Lecture NACO OST Training Programme, DSACS Conference Hall, Dr BSA Hospital, Rohini, 19-20 February 2018, Delhi
5. Training Programme for Household Survey, Uttarakhand, National Drug Use Survey, 19-20 March 2018, Delhi

Oral papers/posters presented

1. Ambekar A, Rao R, Agrawal A, Mishra A. Do drug policies impede the availability of treatment of opioid dependence in India (and more so for non-injecting opioid users)? Analysis of epidemiological data from Punjab, India, International Society for the Study of Drug Policy Conference 2017 (ISSDP 2017), 16 May 2017, Aarhus
2. Bhad R. Substance Use in Lesbian, Gay, Bisexual and Transgender (LGBT) Population: Management Issues and Challenges, 1st Annual National Conference of Addiction Psychology, 8 September 2017, Ghaziabad
3. Bhad R. Epidemiology of Substance Use Disorders, 1st National Conference of Addiction Psychiatry 2017, 27-29 November 2017, New Delhi
4. Bhad R. Harm Reduction in Substance Use Disorders, 1st National Conference of Addiction Psychiatry 2017, 27-29 November 2017, New Delhi
5. Chadda RK, Sarkar S, Dhagudu NK, Ranjan R. Pharmacovigilance: Relevance to Addiction Psychiatry, First National Conference of Addiction Psychiatry, 27-29 November 2017, New Delhi
6. Chatterjee B, Thanapal S, Yadav D. Beyond drug dependence treatment: Facilitating rehabilitation and understanding recovery, 1st National Conference on Addiction Psychiatry, 27-29 November 2017, New Delhi
7. Chatterjee B, Rao R, Quraishi R. Genetic aspects of addictive disorders, 70th Annual National Conference of Indian Psychiatric Society, 5-8 February 2018, Ranchi
8. Chatterjee B, Dhawan A, Chopra A, Bhargava R, Pattanayak RD, Tikoo VK. Profile, pattern and correlates of inhalant use among children in India, 11th World Congress on Adolescent Health, 27-29 October 2017, New Delhi
9. Chawla N, Mandal P, Chatterjee B, Dhawan A. Tramadol induced Pica: A case report, 1st National Conference of Addiction Psychiatry, 28 November 2017, New Delhi
10. Dayal P. Tobacco and cannabis co-use: Challenges to tobacco cessation, First National Conference on Addiction Psychiatry, 27-29 November 2017, New Delhi
11. Dayal P. Cannabis use and mental illness: The hen and egg dilemma, 70th Annual National Conference of Indian Psychiatric Society, 5-8 February 2018, Ranchi

12. Dayal P, Balhara YPS. A Naturalistic Study of Predictors of Retention in Treatment among Emerging Adults Entering First Buprenorphine Maintenance Treatment for Opioid Dependence, WPA XVIIth World Congress of Psychiatry, 8-12 October 2017, Berlin
13. Ghosh S, Jain R, Jhanjee S, Rao R, Mishra AK. Alcohol Biomarkers and Their Relevance in Clinical Settings—A Narrative Review, 1st National Conference on Addiction Psychiatry 2017, 27-29 November 2017, New Delhi
14. Ghosh S, Jain R, Jhanjee S, Rao R, Mishra AK. Do routine laboratory parameters correlate with alcohol consumption? A cross-sectional study from India, Annual Conference of Indian Pharmacological Society, 15-17 February 2018, Mumbai
15. Gupta R, Singh R, Ambekar A, Grover T, Jain R, Sharma A. An association study of neurotransmitter gene markers with alcohol dependence, 1st National Conference on Addiction Psychiatry 2017, 27-29 November 2017, New Delhi
16. Gupta R, Singh R, Ambekar A, Grover T, Jain R, Sharma A. Meth Methylation status of dopa dopamine pathways *DAT* and *SNCA* genes in alcohol and opioid dependence *SNC*, 1st National Conference on Addiction Psychiatry 2017, 27-29 November 2017, New Delhi
17. Jain R, Rao R, Jhanjee S, Ghosh S, Mishra AK. Alcohol biomarkers and their relevance in clinical settings: A narrative review, 1st National Conference on Addiction Psychiatry 2017, 27-29 November 2017, New Delhi
18. Jain R, Verma A. Laboratory Profile of Women Substance Users Seeking Treatment at Tertiary Care Center in North India: A Retrospective Study, 19th International Society of Addiction Medicine (ISAM 2017), 26-29 October 2017, Abu Dhabi
19. Jhanjee S. Tobacco use in heroin dependent patients on buprenorphine maintenance in an urban community, 19th ISAM Annual Conference Addiction Medicine: New Frontier, 26-29 October 2017, Abu Dhabi
20. Jhanjee S. Understanding the correlates of successful abstinence in a randomized double-blind placebo-controlled trial of varenicline for smokeless tobacco dependence in India, 17th World Conference on Tobacco or Health, 7-9 March 2018, Cape Town
21. Jhanjee S. Evaluation of a training workshop on tobacco cessation: Capacity building initiative in India, 17th World Conference on Tobacco or Health, 7-9 March 2018, Cape Town
22. Jhanjee S. Illness narratives of female substance users from an Indian urban slum: A clinical and social perspective on presentation and rehabilitation, College on Problems of Drug Dependence Annual Meeting 2017, 21 June 2017, Montreal
23. Jhanjee S. Opioid substitution treatment in Tihar prisons, First National Conference on Addiction Psychiatry, 27-29 November 2017, New Delhi
24. Khatoon R, Kaloiya GS, Singh G. Cognitive Behavior Therapy for Management of Emotional Intelligence among Patient with Dissociative Disorder, Trauma Conclave, 27-28 March 2018, New Delhi
25. Lal R, Kaloiya GS, Sarkar S. Depression and alcohol use disorder: Addressing the complex interface, 24th National Conference of Indian Association for Social Psychiatry, 18 November 2017, Guwahati
26. Mandal P. Women and drug use: Addressing the treatment need, 1st National Conference of Addiction Psychiatry, 27-29 November 2017, New Delhi
27. Mandal P, Kuppili PP, Bhargava R, Pattanayak R, Dhawan A. Clinical profile and retention on pharmacological treatment among opioid dependent adolescents: A retrospective chart review, 11th World Congress of Adolescent Health, 27-29 October 2017, New Delhi
28. Mandal P, Rao R, Chatterjee B. Drug use problem: Focusing on the population groups with specific needs, 1st National Conference on Addiction Psychiatry, 27-29 November 2017, New Delhi
29. Menon V, Mukherjee A, Sarkar S. Immuno-inflammatory pathways in depression: From biological mechanisms to clinical practice, 70th Annual National Conference of Indian Psychiatric Society, 8 February 2018, Ranchi
30. Mishra AK. Basics of Randomized Controlled Trial: Issues and Perspectives, 1st National Conference on Addiction Psychiatry, 27-29 November 2017, New Delhi
31. Mishra AK. Sampling Methodology: National Survey, 1st National Conference on Addiction Psychiatry, 27-29 November 2017, New Delhi
32. Mishra AK, Ambekar A, Lal R, Rao R, Gupta S. A cross-sectional, community-based study to assess the relationship between type of alcoholic beverage used and alcohol-related negative consequences, 1st National Conference on Addiction Psychiatry, 27-29 November 2017, New Delhi
33. Mishra AK, Dhawan A, Kaloiya GS, Singh G, Balhara YPS. Whether Cognitive therapy is feasible for Alcohol Dependence Syndrome (ADS) Patients Visiting Tertiary Care Centre of Northern India? 1st National Conference on Addiction Psychiatry, 27-29 November 2017, New Delhi

34. Mishra AK. What are the needs for Psychology Students? I Conference on Addiction Psychology, 8 September 2017, Ghaziabad
35. Pakhre A, Kumar S, Singh J, Bhargava R, Balhara YPS. Internet Gaming Disorder and Co-occurring Mental Disorders: A Case Series from Behavioral Addictions Clinic (BAC), AIIMS, New Delhi, Annual National Conference of the Indian Psychiatric Society, 7 February 2018, Ranchi
36. Quraishi R. Neurobiology and genetics of substance use, 1st National Conference on Addiction Psychiatry, 27-29 November 2017, New Delhi
37. Raghav R, Jain R, Roy TS, Dhawan A, Kumar P. Alteration in Regulation of Tryptophan Hydroxylase in Morphine Dependent Rats after Nalbuphine Treatment, Society for Neuroscience 2017, 11-15 November 2017, Washington DC
38. Raghav R, Jain R, Roy TS, Dhawan A, Kumar P. Effect of nalbuphine co-administration on tryptophan hydroxylase in morphine dependent rats, Annual Conference of Indian Pharmacological Society, IPSCON-2017, 15-17 February 2018, Mumbai
39. Raghav R, Jain R, Roy TS, Dhawan A, Kumar P. Co-administration of nalbuphine with morphine decreases the incidence of morphine related side effects, 1st National Conference on Addiction Psychiatry 2017, 27-29 November 2017, New Delhi
40. Rao R, Gupta SK, Ramashankar P, Agrawal A, Ambekar A, Dhawan A. Factors affecting Long-term Retention on Opioid Agonist Maintenance Treatment in a Community Drug Treatment Clinic: A Retrospective Cohort Study from India, American Academy of Addiction Psychiatry: 28th Annual Meeting and Scientific Symposium, 7-10 December 2018, San Diego
41. Saini R, Panda UK, Chatterjee B. Stigma and Substance Use Disorders: An Overview, 24th National Conference of Indian Association for Social Psychiatry (NCIASP-2017), 17-19 November 2017, Guwahati
42. Sarkar S. Concerned parents, belligerent adolescent: Providing support to distressed parents, 24th National Conference of Indian Association for Social Psychiatry, 18 November 2017, Guwahati (**won Balint Award**)
43. Sarkar S, Manjunatha N, Shashidhara HN, Gupta S. Addiction psychiatry at primary care., First National Conference of Addiction Psychiatry, 28 November 2017, New Delhi
44. Sarkar S, Patra BN, Patil V, Gupta S. Urban Rural Differences in Ethics Related Perspectives among Patients with Mental Health Issues? 9th International Conference on Psychiatry, 11 December 2017, Cox's Bazar
45. Sarkar S, Bhad R, Mallik L. Expanding the focus on addiction psychiatry training in South Asia, 9th International Conference on Psychiatry, 12 December 2017, Cox's Bazar
46. Sarkar S, Verma R, Bhad R. The nuts and bolts of performing a peer review, 70th Annual National Conference of Indian Psychiatric Society, 7 February 2018, Ranchi
47. Siddiqui MZ, Jabeen A, Jhanjee S, Jain R. Effect of Delphinium denudatum in substance abuse disorder: A narrative review, 1st National Conference on Addiction Psychiatry (NCAP) 2017, 27-29 November 2017, New Delhi
48. Singh G, Kaloiya GS. Implication of dysfunctional cognition in substance use, 44th National Annual Conference of Clinical Psychologists, 23-25 February 2018, Greater Noida
49. Singh G, Kaloiya GS, Dhawan A, Balhara YPS, Mishra AK. The Unfortunate Connection between Childhood Trauma and Addiction in Adulthood: A Case Study, Trauma Conclave, 27-28 March 2018, New Delhi
50. Singh R, Gupta R, Ambekar A, Grover T, Jain R, Sharma A. Association of monoamine pathway gene polymorphisms with Alcohol Dependence, 1st National Conference on Addiction Psychiatry 2017, 27-29 November 2017, New Delhi
51. Singh S, Balhara YPS, Sarkar S, Singh J, Gautam N. What makes patients with co-occurring psychiatric and substance use disorder complete in-patient treatment: Findings from a tertiary care treatment center in India, 1st National Conference on Addiction Psychiatry, 27-29 November 2017, New Delhi
52. Singh S, Lal R, Balhara YPS, Deepak KK, Chandran DS. Reduced heart rate variability in alcohol use disorder: Relationship with severity of depressive symptoms in post-acute alcohol withdrawal state, Annual National Conference of the Indian Psychiatric Society, 6 February 2018, Ranchi
53. Singh V, Kaloiya GS. Expressed Emotions (EE) and substance use, 44th National Annual Conference of Clinical Psychologists, 23-25 February 2018, Greater Noida
54. Sood A, Atul A, Mishra AK. Can economic analysis of household income and expenditure inform alcohol policies? Analysis of household data from nationally representative sample from India, The International Society for the Study of Drug Policy Conference 2017 (ISSDP 2017), 16 May 2017, Aarhus
55. Verma A, Jain R, Dhawan A, Lakshmy R. Evaluation of protein mediated oxidative stress among adolescent inhalant users seeking treatment at a tertiary care centre of North India, Annual Conference of Indian Pharmacological Society, IPSCON-2017, 15-17 February 2018, Mumbai

56. Verma A, Jain R, Dhawan A, Lakshmy R. Assessment of Oxidative DNA damage among Adolescent Inhalant Users Seeking Treatment at a Tertiary care Centre, 1st National Conference on Addiction Psychiatry (NCAP) 2017, 27-29 November 2017, New Delhi

RESEARCH

Funded projects

Ongoing

1. Field Testing of International Standards for Treatment of Substance Use Disorders, Rakesh Chadda, World Health Organization (Geneva), 1 year, 2017-2018, Rs 3.25 lakhs
2. Detection of New Psychoactive Substances in Treatment Seekers in India—A Multicentric Study, Rakesh Chaddha, Ministry of Finance, 3 years, 2017-2020
3. Role of *Delphinium denudatum* (Jadwar) in a Rat Model of Nicotine Dependence, Raka Jain, AYUSH, 3 years, 2017-2019, Rs 29.16 lakhs
4. A multicentre double blind placebo controlled parallel group study to examine safety and efficacy of Naltrexone implant compared to oral Naltrexone for management of alcohol dependence, Rakesh Lal, Rusan pharmaceuticals, 3 years, 2017-2020
5. Survey on alcohol and drug use among students, Anju Dhawan, Ministry of Social Justice and Empowerment, Government of India, 0.75 years, 2018
6. National Survey on Extent and Pattern of Substance Use in India, Atul Ambekar, Ministry of Social Justice and Empowerment, Government of India, 2 years, 2016-2018, Rs 22.41 crores
7. Field Testing of ICD-11 Classification for Disorders related to Substance Use and Addictive Behaviours, Atul Ambekar, World Health Organization (Geneva), 1 year, 2017-2018, Rs 3.25 lakhs
8. Developing Training Mechanisms for use of Essential Narcotic Drugs (Methadone) for the treatment of Opioid Dependence, Atul Ambekar, Department of Revenue, Ministry of Finance, Government of India, 2 years, 2017-2019, Rs 76.22 lakhs
9. A comparative study of status of reproductive and sexual health and prevalence of sexual dysfunction among young individuals with mental and substance use disorder related disability, Yatan Pal Singh Balhara, ICMR, 1.5 years, 2015-2018, Rs 8.04 lakhs
10. Bone mineral density and chronic alcoholism and changes following Disulfiram Deaddiction Therapy, Yatan Pal Singh Balhara, DBT, 3 years, 2017-2019, Rs 8.3 lakhs
11. Strengthening cross-border and community responses to illicit drugs in south Asia (XSAJ81), Yatan Pal Singh Balhara, UNODC, 1 year, 2017-2018, Rs 5.94 lakhs
12. Development of Cognitive Retraining Module for Improving Cognitive Deficits of Abstinent Patients with Alcohol Dependence Syndrome, Cannabis Dependence Syndrome and Opioid Dependence Syndrome in a Tertiary Care De-Addiction Centre of Northern India, Gauri Shanker Kaloiya, DST, 3 years, 2017-2020, Rs 20.19 lakhs
13. Portrayal of psychoactive substance use in Bollywood movies: A mixed methods study, Ravindra Rao, AIIMS, 1.5 years, 2016-2017, Rs 1.44 lakhs
14. Extent of internet use amongst adolescence with non-psychotic disorders: A case control study, Rachna Bhargava, AIIMS, 2 years
15. Feasibility of transporting blood/serum samples onto filter paper to screen for biomarkers of harmful alcohol use among opioid dependent patients on agonist maintenance treatment: A pilot study in community setting, Rizwana Quraishi, AIIMS, 2 years, 2016-2018, Rs 2.8 lakhs
16. Comparison of serum Corticotrophin Releasing Factor (CRF) level in detoxified Opioid-dependent subjects with healthy controls, Biswadip Chatterjee, AIIMS, 2 years, 2017-2019, Rs 2.6 lakhs
17. Psycho-social correlates of drug use among attendees of Women's Clinic of National Drug Dependence treatment Centre, Piyali Mandal, AIIMS, 2 years, 2017-2019, Rs 0.5 lakhs
18. Relationship of serotonin pathway polymorphisms with self-harm behaviour among patients with opioid dependence, Siddharth Sarkar, DST, 2 years, 2017-2019, Rs 20.8 lakhs
19. Comparative assessment of stress and coping among adolescent with recent inhalant abuse: A case control study, Roshan Bhad, AIIMS, 2 years, 2017-2019, Rs 3.5 lakhs
20. Validation of Teen Addiction Severity Index, Renu Sharma, AIIMS, 2 years

Completed

1. Mapping and size estimation of street children who use drugs in Delhi, Anju Dhawan, Ministry of Social Justice and Empowerment, Government of India, 2 years, 2015-2017, Rs 18.18 lakhs

2. To develop recommendations on identification and management of behavioural addictions, Yatan Pal Singh Balhara, WHO, 1 year, 2018, Rs 0.96 lakh
3. Technical support to develop training modules and training of the health care professionals from Maldives on rolling out naltrexone assisted treatment of Substance Use Disorders, Yatan Pal Singh Balhara, WHO Maldives, 1 year, 2017, Rs 2.26 lakhs
4. To set up Naltrexone Treatment Services for Management of Substance Use Disorders in Maldives, Yatan Pal Singh Balhara, WHO, 1 year, 2017, Rs 2.9 lakhs
5. Serum BDNF levels in patients with opioid dependence during the early withdrawal period: A case control study, Siddharth Sarkar, AIIMS, 1 year, 2016-2017, Rs 3 lakhs

Departmental projects

Ongoing

1. An exploratory study to assess the association between Nicotine Metabolite Ratio (NMR) and Smokeless Tobacco Use parameters
2. A Pilot Follow-up Study on Retention and Outcome of Patients with Opioid Dependence after Discharge from Treatment Centre
3. Association between C Reactive Protein Level and Alcohol Consumption Among patients of Alcohol Use Disorder: A Cross Sectional Exploratory Study
4. A Cross-Sectional Observational Study to Assess Help seeking behaviour for Alcohol Use Disorders among Patients with Alcoholic Liver Diseases
5. A study of Serum BDNF levels in patients with alcohol dependence during withdrawal
6. A comparative study of serum brain-derived neurotrophic factors levels in-patients with alcohol dependence, depression and co-morbid alcohol dependence and depression
7. An exploratory study of stigma and pathways of care among natural opiate users seeking treatment at tertiary deaddiction centre of India
8. A study of internalized stigma and pathways of care among primary cannabis use disorder patients seeking treatment at tertiary care drug use treatment centre in North India
9. A Comparative Study of Alcohol Biomarkers and their Clinical Applicability in Alcohol Dependence
10. Alcohol related crime and accidents, and their relation to per-capita consumption: A data mining approach
11. An exploratory study of stigma and pathways of care among natural opiate users seeking treatment at tertiary de-addiction centre of India
12. A Prospective Study to Evaluate the Effectiveness of Alcohol Use Disorders Identification Test (AUDIT) Assisted Brief Intervention for Alcohol use disorders at primary care setting in India
13. A naturalistic comparison of retention in treatment among young adults entering Naltrexone and Buprenorphine treatment for opioid dependence
14. A prospective study to assess Treatment retention rate and Predictors of Treatment retention among patients with Opioid use disorders
15. A comparative study of pattern and severity of substance use and co-morbidity among out-patient youth and older adult opioid users
16. Assessment of Biochemical Measures in adolescent Inhalant users
17. A comparative study of Ethyl Glucuronide (EtG) and Fatty Acid Ethyl Ester (FAEE) with other conventional biomarkers in Alcohol Dependent subjects
18. A mixed method study to examine treatment outcome, retention and dropout among Opioid Dependent Patients on Maintenance Treatment in Two Community-Based Addiction Treatment Clinics
19. Cognitive Representations and Feasibility of Cognitive Therapy among Individuals with Alcohol Dependence Syndrome
20. Cognitive Representation and efficacy of Cognitive Therapy in individuals with alcohol dependence syndrome
21. Comparative appraisal of data collection methods and related epidemiological models for smoking drinking and tobacco chewing among adolescent children in India
22. Cross-sectional comparative study of clinical profile, severity of dependence and quality of life in treatment-seeking opioid users
23. Cognitive Functioning in Buprenorphine maintained Opioid Dependent Patients at Peak and Trough Blood Buprenorphine Levels: An Experimental Study

24. Development of Cognitive Behaviour based intervention module for adolescents in conflict with law
25. Delay Discounting Rates among Patients with Alcohol and Opioid Dependence: A Cross Sectional Comparative Study
26. Depression, anxiety, quality of sleep and mental adjustment style among adult myeloma patients in active treatment and maintenance phase
27. Effectiveness of Intravenous Naloxone in Attenuating Agonist Effects of Intravenous Buprenorphine: A Double blind, Within-subject, Randomized, Cross-over Study in Opioid Dependent Subjects
28. Effect of Cannabis on serum Brain Derived Neurotrophic Factor level and its relation with psychosis – A cross-sectional exploratory study
29. Family Burden, QOL in family members of Alcohol Dependence Syndrome
30. Family Interventions Addressing Expressed Emotions in Treatment Seeking Men with Opioid Dependence
31. Factors affecting outcome in terms of agonist versus antagonist management in adolescents with opioid dependence
32. Feasibility of transporting blood/serum samples onto filter paper to screen for biomarkers of harmful alcohol use among opioid dependent patients on agonist maintenance treatment: A pilot study in community setting
33. Gambling disorder and its socio-demographic correlates among treatment seeking patients with alcohol use disorders
34. Intravenous Naloxone on Opioid Agonist Effects of Intravenous Buprenorphine: A Double-blind, Within-subject, Randomized, Cross-over Study among Opioid Dependent Subjects
35. Knowledge, Risk factors and experience of non-fatal overdose among Injecting Drug Users: A community-based, cross-sectional study
36. Neurological soft signs and their correlates among patients with cannabis use disorder with and without psychosis: a cross-sectional comparative study
37. Outcome assessment of patients initiated on opioid agonist maintenance treatment: A longitudinal comparative study
38. Prevalence and characteristics of self-harm and suicidal attempts among patients with substance use disorder at a tertiary care hospital
39. Psychological Correlates of Caregiving among the caregivers of patients with Schizophrenia
40. Pattern of opioid use and treatment seeking behavior among attendees of adolescent clinic at a tertiary care addiction treatment centre: A retrospective chart review
41. Stigma among men and women seeking treatment for substance use disorder and their family members: A cross-sectional comparative study
42. Serum Brain Derived Neurotrophic Factor levels in Alcohol Dependent patients during withdrawal
43. Study of subjective sleep parameters in opioid dependent patients maintained on methadone-based opioid substitution therapy
44. Serum BDNF levels in patients of First Episode Schizophrenia: A Pilot Study
45. Study of sleep parameters in Opioid Dependent patients maintained on Buprenorphine
46. Substance Use in Children and Adolescents with Attention Deficit Hyperactive Disorder: An Exploratory Study
47. Stress, coping and strain among family members of patients with substance use disorder and its correlation with patient's treatment outcome: A prospective study from India
48. The clinical and laboratory predictors of Alcohol withdrawal syndrome
49. Tobacco use in alcohol dependent patients

Completed

1. An efficient method for simultaneous detection of cotinine, pentazocine and pheniramine in urine of substance users by Gas-chromatography-Nitrogen Phosphorus detector
2. Association between serum C-reactive protein level and alcohol consumption among patients of Alcohol Use Disorders: a cross-sectional, exploratory study
3. Assessment of biochemical and hematological profile of opioid dependent patients receiving Buprenorphine/Buprenorphine –naloxone combination
4. Assessment of substance use and factors associated with tobacco use in an urban college going women students: An exploratory study
5. Assessment of Biochemical Measures in Adolescent Inhalant Users
6. An observational study to assess stigma among patients with substance use disorders, and its association with quality of life, help-seeking and disability

7. Economic analysis of Opioid Substitution Therapy under National AIDS Control Programme – a cross-sectional comparative study
8. Effectiveness of Screening and Brief Intervention For Moderate/High Risk Alcohol Use Among Patients On Buprenorphine Maintenance: A Clinical and Alcohol-Biomarker Study
9. fMRI changes associated with cue-induced craving in tobacco smokers
10. Out-patient Management of Acute Opioid Withdrawal with Buprenorphine in Community-Based Setting: A Retrospective Chart Review
11. Oral Methadone versus Sublingual buprenorphine for treatment of Acute Opioid Withdrawal: A Randomized, Double-blind, Double-Dummy, Controlled Study
12. Platelets Monoamine Oxidase B activity levels and Cognitive functions in patients with alcohol Dependence: An exploratory study
13. Translation, Adaptation and Validation of entire Alcohol Use Disorders Identification Test (AUDIT) manual (including questionnaire) in Hindi language (agreement executed between WHO and NDDTC)
14. Urinalysis based evaluation of compliance and pattern of drug use among opioid dependent subjects prescribed tramadol at a tertiary care treatment centre

Collaborative projects

Ongoing

1. Rehabilitation of children vulnerable to substance abuse through prevention and care support in and around Yamuna Pushta area, Delhi, Department of Women and Child Development, Delhi Government
2. Sensitization of students in Delhi Government School against substance abuse, Department of Women and Child Development, Delhi Government
3. Study of Aspirin and Clopidogrel Resistance by platelet aggregation and its Association with Adverse Outcomes in Indian Stable Coronary Artery Disease Patients, Cardiology
4. Study on the association of polymorphism, methylation and expression status of the genes of monoamine pathways in Alcohol dependence, Anatomy
5. Comparative appraisal of data collection methods and related epidemiological models for smoking, drinking and tobacco chewing among adolescent children in India, Biostatistics
6. Proteomics of CSF for the identification of protein signatures in the dopamine dictated states of schizophrenia and Parkinson's disease, Biophysics
7. Genetic polymorphisms of serotonergic pathways genes and their association studies with disease severity and response to escitalopram treatment in patients with major depressive disorder, Institute of Genomics and Integrative Biology

Completed

1. Newer approaches for imaging and analysis of addiction using Functional Magnetic Resonance Imaging, IIT Delhi
2. Rapid Assessment of Drug Use Pattern among People Who Use Drugs and People Who Inject Drugs in Sri Lanka, National STD AIDS Control Program, Ministry of Health, Government of Sri Lanka

PUBLICATIONS

Journals: 68 Abstracts: 16 Chapters in Books: 9 Books: 2

PATIENT CARE

I. Outpatient services

OPD	New Cases	Follow-Up Visits	Total
1. General, NDDTC	9597	59,069	68,666
2. Specialty			
a) Children and Adolescents clinic	84	398	482
b) Dual Diagnosis Clinic	120	450	570
c) Tobacco Cessation Clinic	63	515	578
d) Women Clinic	37	161	198
e) Family Empowerment Clinic	5	NIL	5
Total for Specialty OPDs	309	1524	1833

3. Community Clinics			
Trilok Puri, New Delhi	298	23,851	24,149
Sunder Nagri, New Delhi	334	69,660	69,994
Kotla Mubarakpur, New Delhi	436	3108	3554
Total for Community Clinics	1068	96,619	97,697
4. Grand total (1+2+3)			

II. Ward Services

1. Total no. of admissions	1201
2. Total no. of discharges	1102
3. Bed occupancy	95%
4. Average length of ward stay	13 days
5. Total no. of patient visiting day care ward	2874

III. Other Patient Care Statistics

1. Total no. of deaths	NIL
2. Average no. of admissions per working day	4
3. Average no. of OPD attendance per working day, NDDTC (new patients)	32
4. Average no. of OPD attendance per working day, NDDTC (old patients)	200
5. Average no. of OPD attendance per working day, Trilok Puri community clinic (new patients)	1
6. Average no. of OPD attendance per working day, Trilok Puri Community Clinic (old patients)	81
7. Average no. of OPD attendance per working day, Sunder Nagri Community Clinic (new patients)	1
8. Average no. of OPD attendance per working day, Sunder Nagri Community Clinic (old patients)	235
9. Average no. of OPD attendance per working day, Kotla Mubarakpur Community Clinic (new patients)	436
10. Average no. of OPD attendance per working day, Kotla Mubarakpur Community Clinic (old patients)	3108

Yearly record of Biochemistry Laboratory

1. Biochemistry tests: 37,785
2. Haematological: 18,058
3. HIV investigations: 248

Yearly record of Drug Screen Laboratory

	Drugs	Nos.
1.	Morphine Test	4194
2.	Codeine Test	2889
3.	Buprenorphine Test	3674
4.	Proxymon Test	3314
5.	Avil Test	3039
6.	Naltrexone Test	2889
7.	Pentazocine Test	3039
8.	Benzodiazepines Test	6278
9.	Cotinine Test	390
10.	Cannabis Test	1265
11.	Barbiturate Test	25
12.	Cocaine Test	50
13.	Inhalant Test	10
14.	Tramadol	3169
Total number of drugs tested in urine		34,225

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor R.K. Chadda delivered NN De Oration: Mental Health Services in Disaster Affected Population in Low Resource Settings, 24th National Conference of the Indian Association for Social Psychiatry, Guwahati, 17-19 November 2017; Received Venkoba Rao Oration Award of the Indian Association for Social Psychiatry for the year 2017, to be delivered in 2018; Chair, Technical Resource Group on Injection Drug Users; Member, Executive Committee, National Academy of Medical Sciences (India); Acting Treasurer, National Academy of Medical Sciences (India), September 2016-June 2017; Member, Editorial Board, BJP International; Coordinator, Public Lecture on Depression: Let's Talk, 7 April 2017, AIIMS, New Delhi, on occasion of World Health Day; Chair, Organizing Committee, National CME on Emerging Issues in Substance Use Disorders, NAMS Auditorium, 22 July 2017; Chair, Organizing Committee, First National Conference on Addiction Psychology, 7-8 September 2017, AIIMS, New Delhi; Chair, Organizing Committee, First National Conference on Addiction Psychiatry, 27-29 November 2017, AIIMS, New Delhi; Chair, Organizing Committee, First National Conclave on Psychological Trauma, Child Protection and Mental Illness, 27-28 March 2018.

Professor Raka Jain as an expert committee member of the WHO Expert Advisory Panel on Drug Dependence (Dependence Liability Evaluation), provided expert advice to WHO and attended the 2nd Working Group of the Expert Committee on Drug Dependence (ECDD) WHO Headquarters Geneva, Switzerland, 8-10 May 2017; As an expert committee member of the WHO Expert Advisory Panel on Drug Dependence (Dependence Liability Evaluation), provided expert advice and attended the World Health Organization (WHO) "Thirty-ninth Expert Committee Meeting on Drug Dependence (39th ECDD, 6-10 November 2017, WHO Headquarters, Geneva, Switzerland; Organizing Secretary of First National Conference on Addiction Psychiatry", Organized by National drug Dependence Treatment Centre and Department of Psychiatry, AIIMS, New Delhi (27-29 November 2017); Chaired the session in Symposiums entitled "Neurobiology and genetics of drug abuse" and "Recent advances in Drug abuse toxicology" in 1st National Conference on Addiction Psychiatry (NCAP) 2017, All India Institute of Medical Sciences, New Delhi (27-29 November 2017); Chaired a theme Symposium entitled "Addictive disorders: Assessment and management" In "Annual National Conference on Addiction Psychology (ANCAP) 2018" NDDTC, AIIMS, New Delhi (7-8 September 2017); Chaired the session entitled "Forensic Psychiatry, Toxicology and Pharmacology" In IAMLE 2017, 8th International Conference on Medical Negligence and Litigation in Medical Practice, 8th International Conference on Recent Advances in Forensic Sciences, Forensic Medicine, Agra (30 September-1 October 2017).

Professor Anju Dhawan was member of the International Society of Addiction Medicine Education and Training Committee.

Professor Sonali Jhanjee was Organizing Secretary of the "First National Conference on Addiction Psychiatry" from 27-29 November 2017; Organizing Secretary of the "Training workshop on capacity building in Tobacco cessation" on 30 May 2017 on the occasion of the World No Tobacco Day; Part of an Advisory Committee to finalize "Guidelines for setting up Tobacco Cessation Centres at Dental Colleges and the technical specifications of the Breath Carbon Monoxide Monitor"; Got a scholarship to present my scientific paper in the World Conference on Tobacco or Health (WCTOH) which was held in Cape Town, South Africa from 7-9 March 2018; Invited as an expert in WHO FCTC Secretariat/WHO Addictiveness reduction meeting, 15-16 May 2018, Berlin.

Professor Atul Ambekar provided expert assistance to International Narcotics Control Board (INCB), Vienna in Drafting the document "Treatment and rehabilitation of drug use disorders: Essential component of demand reduction" as a part of Annual Report of INCB 2017; Provided expert advice to United Nations Office on Drugs and Crime (Vienna) for the document "International Standards for Prevention of Drug Use" and attended the Expert Group Meeting at Vienna, Austria (June 2017); Provided expert advice to World Health Organization (Geneva) on Public Health Issues related to Addictive Behaviours and attended the Expert Group Meeting at Istanbul, Turkey (December 2017); Provided expert advice to the Department of State, Government of USA on training curriculum for treatment of women with substance use disorders and attended the Expert Group Meeting at Washington DC, USA (February 2018); Nominated as member of National Technical Resource Group, Injecting Drug Use—National AIDS Control Organization, Government of India; Nominated as member of Global Burden of Disease (GBD), India Mental and Neurological Health Expert Group—Public Health Foundation of India; Nominated as member of National Task Force for Integrating Mental Health in Comprehensive Primary Health Care—Ministry of Health and Family Welfare, Government of India; Nominated as member of Subject Expert Committee (Psychiatry and Neurology)—Central Drug Standards Control Organization, Government of India; Nominated as member International Advisory Committee, 19th Congress of International Society for Biomedical Research on Alcoholism (ISBRA 2018), 9-13 September 2018, Kyoto, Japan; Nominated as Member, Board of Directors, Asia Pacific Society for Alcohol and Addiction Research (APSAAR); Nominated as Member, National Advisory Board, Indian Association of Private Psychiatry (IAPP); Nominated as Convenor, Addictive Disorder Sub-specialty, Indian Psychiatric Society (IPS).

Dr G.S. Kaloyia started Family Empowerment Clinic at NDDTC for the family members of persons with substance use disorders; Hon. General Secretary of Indian Association of Clinical Psychologists (IACP): 2018-2020; Participated in First Expert Group Meeting towards the development of the Regional Program for South Asia (2018-2021) organized by UNODC Regional Office for South Asia (UNODC ROSA) on 18 and 19 December 2017, New Delhi, India; Member of NOC Expert Group of Central Adoption Resource Authority (CARA), Ministry of Women and Child Development, GOI.

Dr Ravindra Rao was involved in accreditation process of Integrated Rehabilitation Centre for Addicts (IRCA) for the Ministry of Social Justice and Empowerment, Government of India.

Dr Ashwani Kumar Mishra was scientific reviewer for prestigious National and International Journals—"The Indian Journal of Medical Research", "Health", "Substance Use and Misuse", "Acta Botanica Brasilia"; Served as examiner for paper on "Research Methodology" for MPhil-Clinical Psychology at "Institute of Human Behaviour and Allied Sciences (HIBAS)"; Examiner for the recruitment of Technical Assistant (Statistics), for the Model Rural Health Scheme, CHC, Muga, under the scheme of Department of Health Research (DHR), Government of India; Continued elected membership for the "International Statistical Institute", "International Association for Statistical Education", "International Society for Clinical Biostatistics"; Member of the draft committee for preparation of 'Guideline on Multiplicity Issues in Clinical Trials', European Medicines Agency, Science Medical Health, UK and Member for Delphi Survey on "Adaptive designs CONSORT Extension (ACE) Project", Medical Research Council (MRC) Hubs for Trial Methodology Research (HTMR) Adaptive Designs Working Group (ADWG), CONSORT, UK; The most significant research contribution is in the form of serving as Co-Investigator under the National Survey on Extent and Pattern of Substance Use in India, a commissioned study by the Ministry of Social Justice and Family Empowerment (MOSJ&E), Government of India, for implementing the sampling methodology at national level.

Dr Prabhoo Dayal was nominated expert member for Regional Expert Group Consultation on the Development of the UNODC Regional Programme for South Asia (RPSA), was held on 18 and 19 December 2017 in Delhi; Chaired a scientific session during First Annual Conference on Addiction Psychiatry, held at AIIMS New Delhi India from 27-29 November 2017; Chaired free paper session during First National Psychological Trauma Conclave 2018 held at AIIMS New Delhi India from 27-28 March 2018; Organizing Secretary: The First Annual Conference on Addiction Psychology, held at NDDTC, Ghaziabad, India from 7-8 September 2017; Member: Organizing Sub-Committee: The First Annual Conference on Addiction Psychiatry, held at AIIMS New Delhi India from 27-29 November 2017 and First National Psychological Trauma Conclave 2018 held at AIIMS New Delhi India from 27-28 March 2018; Member, International Society of Substance Use Professionals.

Dr Alok Agrawal provided expert advice to Ministry of Social Justice and Empowerment, Government of India for accreditation of Integrated Rehabilitation Centres for Addicts through National Accreditation Board for Hospitals and Healthcare Providers (NABH); Provided expert advice to State AIDS Control Society, Government of Punjab on improving quality of harm reduction services for Injecting Drug Users; provided expert advice to DG, Tihar Prisons on strengthening of treatment and rehabilitation services for drug users in prison settings; Member, Editorial Board, National Journal of Social Defence, National Institute of Social Defence, Ministry of Social Justice and Empowerment, Government of India.

Dr Biswadip Chatterjee was faculty in charge of the Rehabilitative Services of NDDTC, this year we have collaborated with the Alcohol Anonymous and Narcotic Anonymous and started regular peer support group sessions for the treatment-seeking substance users and their caregivers; The Rehabilitative Service of NDDTC has also collaborated with the ENACTUS, the Delhi University Branch of an international organization by the same name, With their collaboration, effort is made to place the treatment-seeking patients to various skill impartment centers under Pradhan Manti Kaushal Vikas Yojana (PMKVY) and provide skillful employment.

Dr Siddharth Sarkar won the Balint Award of the Indian Association for Social Psychiatry.

Dr Saurabh Singh won the Anil Malhotra Award of the Indian Association for Social Psychiatry.

10.7. Neurosciences Centre

Chief

Kameshwar Prasad

Neurology

Professor and Head

Kameshwar Prasad

Professors

M.V. Padma Srivastava
Achal Srivastava

Manjari Tripathi
Garima Shukla
Mamta Bhushan Singh

Vinay Goyal
Rohit Bhatia

Associate Professor

Deepti Vibha

Assistant Professors

Vishnu V.Y.
Awadh Kishor Pandit

Roopa Rajan

Deepa Dash
Rajesh Kumar Singh

Neurosurgery

Professor and Head

Shashank Sharad Kale

Emeritus Professors

Prakash Narain Tandon

Ajit K. Banerji

Professors

P. Sarat Chandra
Manmohan Singh

Ashish Suri
Deepak Agrawal (JPNATC)

Rajinder Kumar
Deepak Gupta (JPNATC)

Associate Professors

Gurudutt Satyarthee
(JPNATC)
Vivek Tandon

Pankaj Kumar Singh
(JPNATC)
Sachin Borkar

Assistant Professors

Hitesh Gurjar
Rajeev Sharma
Dattaraj Sawarkar
Amol Raheja

Aman Jagdewan
Shweta Kedia
Kanwaljeet Garg
Satish Verma

Shashwat Mishra
Ramesh Doddamani
Manoj Phalak
Rajesh Meena

Neuroimaging and Interventional Neuroradiology

Professor and Head

S.B. Gaikwad

Professor

Ajay Garg

Associate Professor

S. Leve Joseph Devarajan

Assistant Professor

Anuj Prabhakar

Chief Technical Officer

Neelam Dewan

Neuroanaesthesiology

Professor and Head

Arvind Chaturvedi

Professors

Mihir Prakash Pandia
Girija Prasad Rath

Rajendra Singh Chouhan
Hemanshu Prabhakar

Assistant Professors

Gyaninder Pal Singh (JPNATC)
Keshav Goyal (JPNATC)
Indu Kapoor

Ashish Bindra (JPNATC)
Navdeep Sokhal (JPNATC)
Surya Kumar Dube

Niraj Kumar (JPNATC)
Charu Mahajan
Varun Jain

Clinical Neuro-psychology

Additional Professor

Ashima Nehra

Neurobiochemistry

Assistant Professor

Ashok Sharma

Pathology–Neuropathology Section

Professors

Chitra Sarkar

Mihir Chand Sharma

Additional Professor

Vaishali Suri

Hospital Administration

I.B. Singh

Chief Medical Officer

Anjali Hazarika

Neurology

HIGHLIGHTS

In this academic year, the Department of Neurology took the lead to conduct the first AIIMS-PGI update in neurology: A continuing medical education program intended at imparting state-of-the-art information on a variety of neurological conditions to residents in training. The fact that this conference was conducted on a self contributory model, without external funding, deserves a special mention as it provided an excellent platform free of conflicts of interests for deliberations. This CME Program is intended to be an ongoing activity with venues alternating between AIIMS, New Delhi and PGIMER,

Chandigarh yearly. This year also saw our department starting a rural outreach neurology clinic at Ballabgarh, with weekly once neurology OPD run there by the department. The department consolidated the gains initiated in 2016-17, further enhancing our outpatient and inpatient services with the integration of a new permanent faculty (Assistant Professor) into the department. The 'tatal' appointment system for neurology OPD has been successfully implemented and resulted in easing the process for neurology consultation for patients without prior appointment.

EDUCATION

The teaching and training capacities were upgraded with the induction of six new senior residents, which is designed to raise the number of qualified neurologists graduating to about 12 per year. As part of the continuous cumulative assessment for senior residents, a feedback and scoring system for resident presentations was introduced this year. In addition to the routine teaching responsibilities, faculty from the Department of Neurology have been involved in conduct of several interdisciplinary workshops and training sessions within AIIMS. To enhance the quality of patient care services and provide senior residents with hands-on experience in administrative and supervisory responsibilities for inpatient services, a system of ward senior resident was introduced. The senior most resident will assume this responsibility in a rotational manner while posted in the Neurology Wards. Orientation booklets were designed for residents for formulating standard operating protocols for basic patient care.

CMEs/Workshops/Symposia/National and International Conferences

1. World Multiple Sclerosis Day Program, 30 May 2017, New Delhi
2. World Stroke Day Program, 29 October 2017, New Delhi
3. CME, NSICON, 1-3 December 2017, Nagpur
4. Workshop during 6th International Conference of Physical Therapy, 10 December 2017, New Delhi
5. Botulinum toxin workshop: Botulinum toxin in spasticity, Annual Stroke Masterclass, 23 September 2017, Gurgaon
6. Video-EEG Monitoring Workshop, 19-20 January 2018, New Delhi
7. AIIMS—PGI Neurology Update, 27-28 January 2018, New Delhi

Lectures delivered

Kameshwar Prasad

1. Workshop on critical appraisal therapy, meta-analysis and diagnostic test study, McMaster Evidence Based Clinical Practice Workshop, 5-9 June 2017, Hamilton, Canada
2. Blood pressure management after acute stroke, Stroke Summer School, 18 August 2017, Chennai
3. Current evidence on thrombolytic therapy in acute stroke, Stroke Conference, 6 August 2017, Delhi
4. Workshop on Population based Stroke Registry Core Form of the National Stroke Registry Programme, 2 August 2017, Bengaluru
5. Challenges and opportunities and establishing based cohort studies in developing countries, Erasmus Summer Programme, 24 August 2017, Rotterdam, Netherland
6. New definition of epilepsy and stroke, 25th Annual Conference of the Indian Academy of Neurology, 7-10 September 2017, Chennai
7. Teaching evidence-based practice, Global Evidence Summit 2017, 13-16 September 2017, South Africa
8. Overview of trial designs interactive session, Indian Society of Gastroenterology, 28 October 2017, Hyderabad
9. A primer of epidemiology sample size calculation for clinical trials, Basic Research Methodology Course at MGUMST, 22-23 November 2017, Jaipur
10. Preventing noncommunicable diseases: Realizing sustainable development goals, First World NCD Congress, 5 November 2017, Chandigarh
11. Systematic review and meta-analysis: An introduction, 25th Annual Conference of Indian Society for Medical Statistics, 1 November 2017, Lucknow
12. Challenges in developing stroke guidelines, IUSSTF-Workshop, 1-3 December 2017, New Delhi
13. Critical appraisal of therapy paper and GRADE methodology, Workshop on EBM and Strategic Initiatives, 9-10 December 2017, UAE
14. EBM and guidelines, Principles of evidence based medicine and its applicability in India, 17 January 2018, Bengaluru
15. Confounding and interaction: Distortion or truth, 16th Asia Pacific Evidence- Based Medicine and Nursing (APEBMN) Conference, 6-9 February 2018, Singapore
16. Treatment guidelines (Medical) for the CNS tuberculosis, TROPICON 2018, 31 March 2018, Lucknow
17. Stem cells in stroke, where are we in 2018, XII Indian National Stroke Conference, 18 March 2018, New Delhi

M.V. Padma Srivastava

1. Brain as a connecticome: Improving stroke outcomes through biomedical engineering, Biomedical Engineering Workshop on Stroke, 14 April 2017, Bengaluru
2. The essence of a changing world, TEDx Meet at IIT Mandi, 14 May 2017, Mandi
3. Management of acute stroke, IAN Summer School, 3 June 2017, Kolkata
4. Medical management of acute stroke, Annual Congress of Society of Neurovascular Intervention (SNVICON-17), 16 June 2017, Bengaluru
5. Pregnancy and multiple sclerosis, MS Summit, 2 July 2017, Ahmedabad
6. Panel discussion on emergency care of stroke, EMINDA Conference, 16 July 2017, New Delhi
7. Personalized management of multiple sclerosis, ICTRIMS, 13 August 2017, New Delhi
8. Management of ICH management of CVST, Indian Stroke Association Summer School, 18-20 August 2017, Chennai
9. Restoration therapies in stroke: Bench to bedside convened the Stroke Symposium, Indian Academy of Neurology Conference, 14 September 2017, Chennai
10. Post stroke pain, Pain Symposium, 15 October 2017, Hyderabad
11. Women and healthy brain, Women Sensitization Workshop, 3 November 2017, Guwahati
12. Affordable stroke care in India, Joint WFN/WSD Session in the World NCD Congress, 4 November 2017, PGIMER, Chandigarh
13. Clinicopathological Conference, APICON Delhi Chapter, 19 November 2017, New Delhi
14. Stroke prevention, Neuro Update, 24 December 2017, Ahmedabad
15. Reversible dementias, CME at PGIMER, 20 January 2018, Chandigarh
16. Restorative prospects after stroke, WCNr 2018, 10 February 2018, Mumbai
17. Anticoagulant induced ICH, APICON CME, 22 February 2018, Bengaluru
18. Lecture on popular science, National Science Day Program at IASST, 27 February 2018, Guwahati
19. Women and mental health, Society of Cardiac Anesthesia, 8 March 2018, New Delhi

Manjari Tripathi

1. Neurobiology of sleep and awake state, Annual International Conference of Indian Sleep Disorders Association, 7 April 2017, Coimbatore
2. Latest evidence based medicine, 4th Edition of Epilepsy Masterclass, 8-9 April 2017, Goa
3. Role of EEG in epilepsy surgery, Neuro-Update, 15 April 2017, Agra
4. Epilepsy, Indian Academy of Neurology Summer School, 3 June 2017, Kolkata
5. Stronger together: Advocating together for research, comprehensive care and involvement of patient with epilepsy, 32nd International Epilepsy Congress, 2-6 September 2017, Barcelona, Spain
6. Video EEG in neurology, 25th Annual Conference of the Indian Academy of Neurology, 8 September 2017, Chennai
7. Annual Research Day, 3rd JIPMER Annual Research Day—2017, 11 September 2017, Puducherry
8. Insomnia, Symposium on Yoga Nidra, Insomnia, 22 September 2017, Goa
9. Magnetoencephalography (MEG), 6th Asian-Oceanian Congress of Clinical Neurophysiology, 9 November 2017, Bengaluru
10. Seizures in critically ill patients, 32nd Biennial Convention of ASNS and 39th Annual Convention of PNA, 8-11 November 2017, Manila, Philippines
11. EEG and epilepsy, Nepalese Academy of Neurology Symposium, 5 January 2018, Kathmandu, Nepal
12. Pharmacogenomics of the adverse effects of antiepileptic drugs, 19th Annual Conference of Indian Epilepsy Association and Indian Epilepsy Society, 2-4 February 2018, Bengaluru
13. Women in neurology, WINNERS-2018 Neurology Symposium, 9 March 2018, Udaipur
14. Mental health in epilepsy, 2nd Meeting of the Task Force on Integrating Mental Health and Epilepsy in CPHC, 14 March 2018, Bengaluru
15. Psychogenic non epileptic seizures can be diagnosed by assessing behavior without EEG recording, 12th World Congress on Controversies in Neurology, 23-24 March 2018, Warsaw, Poland

Vinay Goyal

1. When does one use only zinc in Wilson's Disease, Hepaticon 2017, 25 March 2017, Mumbai
2. Panalist for taskforce: INSL consensus meeting on Wilson's Disease, Hepaticon 2017, 26 March 2017, Mumbai
3. Approach to mononeuritis multiplex, Andhra Medical College KGH, 30 April 2017, Visakhapatnam
4. Video quiz, Movement disorders, API, 13 May 2017, Ahmedabad
5. Myasthenia gravis, case based approach, API, 14 May 2017, Ahmedabad
6. Workshop on botulinum toxin in writer's cramp, Movement Disorders Update and Botulinum Toxin Workshop, 21 May 2017, Gurgaon
7. Botulinum toxin in spasmodic dysphonia, Movement Disorders Update and Botulinum Toxin Workshop, 21 May 2017, Gurgaon
8. Neurostimulation in hyperkinetic movement disorders, 5th MIND Update, 27 May 2017, Dehradun
9. Complications of DBS, Movement Disorders Update Clinics and Management, 9 July 2017, Hyderabad
10. Emergency situation in movement disorder, 2nd Neurocritical Care Update, 23 July 2017, Jaipur
11. Approach to a patient of PD, Neurology Update, API Branch, 23 July 2017, Lucknow
12. DBS in movement disorders, Doon Neuro Club, 24 July 2017, Dehradun
13. Hands on DBS in PD, Indian Neurosurgical Education and Research Trust, 25 July 2017, Dehradun
14. DBS in PD: Patients selection and pre operative counselling, DBS Workshop, Indian Neurosurgical Education and Research Trust, 25 July 2017, Dehradun
15. Management of hyperkinetic movement disorders, World Neurosciences Summit, Basic and Beyond, 18 August 2017, Delhi
16. Diagnosis and management of upper limb spasticity: Role of Botulinum toxin, World Neurosciences Summit, Basic and Beyond, 19 August 2017, Delhi
17. Workshop and Hands on Training on Botulinum Toxin, World Neurosciences Summit, Basic and Beyond ISTART, 20 August 2017, Delhi
18. Management of tremor, 25th IANCON, 2017, 8 September 2017, Chennai
19. Atypical Parkinson's: When to suspect? ANEICON, 2017, 11 September 2017, Bhubaneswar
20. Rational approach to management of Parkinson's Disease, ANEICON, 2017, 12 September 2017, Bhubaneswar
21. TMS: Clinical application in neurology, Preconference Workshop, Hands on Training Workshop on Transcranial Magnetic Stimulation: A Non-invasive Therapeutic Strategy for Neurological Disorders, 28 October 2017, Bhubaneswar
22. DBS in movement disorders beyond PD, NSICON, 30 November 2017, Nagpur
23. Plasmapheresis in myasthenia gravis, 2nd Annual Malaysian Plasmapheresis Conference: Role of Immunodulatory Treatment with Plasmapheresis in Central and Peripheral Nervous System Disorders, 9 December 2017, Kuala Lumpur, Malaysia
24. When is right time to DBS in PD, Neuro-update, 24 December 2017, Ahmedabad
25. DBS update, IAN Midterm, 14 January 2018, Raipur
26. Challenges in clinical diagnosis of movement disorders: Expanding spectrum of multiple system atrophy, 4th Annual Conference of MDSI, MDSICON, 19 January 2018, Hyderabad
27. PD is curable: No, 4th Annual Conference of MDSI, MDSICON, 21 January 2018, Hyderabad
28. Update on DBS, AIIMS-PGI Neurology Update, 27 January 2018, Delhi
29. Management of MUSK myasthenia gravis, 2nd Annual Conference of Delhi Neurological Association, DNACON, 3 February 2018, Delhi
30. Optimising results of post stroke spasticity, World Neuro Rehabilitation Conference, 8 February 2018, Mumbai

Achal K Srivastava

1. Pediatric epilepsy: Advances, 14th Annual State Conference of IAP, Uttarakhand PEDICON 2017, 29 April 2017, Haldwani, Uttarakhand
2. Advances in the management of epilepsy, CME Neuro Update 2017, 18 November 2017, Allahabad, Uttar Pradesh
3. Simplifying the complicated world of ataxias, 22nd World Congress of Parkinson's Disease and Related Disorders, 14 November 2017, Ho Chi Minh City, Vietnam
4. Genetics of ataxia: Clinical steps through the growing maze, 3rd Annual Conference of Movement Disorder Society of India MDSICON-2018, 20 January 2018, Hyderabad

5. Approach to hereditary ataxia, AIIMS-PGI Neurology Update 2018, 28 January 2018, New Delhi
6. Hereditary ataxia Indian scenario and management update, Indore Neuro Club Meeting, 11 March 2018, Indore

Garima Shukla

1. Approach to excessive daytime sleepiness and its investigation (including MSLT, MWT), Sleepcon 2017—Annual Meeting of the Indian Sleep Disorders Association, 7 April 2017, Coimbatore, Tamil Nadu
2. Kleine levin syndrome—Update on presentation, differentials and management, SLEEPCON 2017—Annual Meeting of the Indian Sleep Disorders Association, 7 April 2017, Coimbatore, Tamil Nadu
3. The brain in sleep—Glimpses into the abyss of HypnosISDA Oration, SLEEPCON 2017—Annual Meeting of the Indian Sleep Disorders Association, 8 April 2017, Coimbatore, Tamil Nadu
4. Sleep apnea—Implications in cardio-cerebro-vascular risk, Neuro Update CME, 10 September 2017, Surat, Gujarat
5. Abnormal motor behavior in and around sleep, among the young, Indian Society for Sleep Research 2017 Silver Jubilee Conference, 22 September 2017, Goa
6. Seizures versus non-epileptic events in sleep, among adolescents, World Sleep Congress 2017 Symposium Titled “Sleep in adolescents—the missing link”, 9 October 2017, Prague, Czech Republic
7. Restless legs syndrome-progress and pitfalls, 3rd International Conference of Sleep Disorders, 29 October 2017, Jalandhar, Punjab
8. Parasomnias and restless legs syndrome, 6th Asian-Oceanian Congress of Clinical Neurophysiology, 10 November 2017, Bengaluru
9. Narcolepsy, Respicon 2017, 30 November 2017, New Delhi
10. Restless legs syndrome, AIIMS PGI Neurology Course, 27 January 2018, New Delhi
11. Sleep evaluation for the general neurologist—Relevance and methodology, SLEEPCON 2018 Course Director: Workshop Titled “Sleep in Neurological and Psychiatric disorders”, 30 March 2018, Puri, Odisha
12. Restless legs syndrome in neurological disorders—Clinical significance, diagnosis and treatment, SLEEPCON 2018 Course Director: Workshop Titled “Sleep in Neurological and Psychiatric disorders”, 30 March 2018, Puri, Odisha

Rohit Bhatia

1. Decompressive craniectomy: Often missed the deadline, Indian Stroke Association Conference, 17-19 March 2017, Amritsar
2. Future clinical trials of stroke, Indian Stroke Association Conference, 17-19 March 2017, Amritsar
3. Cardioembolic stroke, Indian Stroke Association Summer School, 19 August 2017, Chennai
4. Decompressive craniectomy in ischemic stroke, Indian Stroke Association Summer School, 19 August 2017, Chennai
5. Switching therapy in MS, Challenges and options, ICTRIMS Conference, 13 August 2017, New Delhi
6. Clinical trials in stroke care: Lessons learnt in last 5 years, Annual Meeting of Indian Academy Neurology, 8 September 2017, Chennai
7. Low NIHSS and M1 occlusion, Annual Stroke Master Class, 23 September 2017, New Delhi
8. Platelets, clotting factors and surgery in ICH, Annual Stroke Master Class, 23 September 2017, New Delhi
9. Decompressive craniectomy, Right patients, Right time, International Stroke and Cerebrovascular Diseases Symposium (ISCDS), 27 October 2017, New Delhi
10. BP lowering trials in ICH, International Stroke and Cerebrovascular Diseases Symposium (ISCDS), 27 October 2017, New Delhi
11. Autoimmune causes of dementia, National Academy of Medical Sciences, December 2017, New Delhi
12. Current perspectives in management of acute ischemic stroke, APICON, 23 February 2018, Bengaluru

Mamta Bhushan Singh

1. Epilepsy in resource limited regions, 2017 Annual Meeting AAN, 28 April 2017, Boston
2. Epilepsy primary care—The missing link, 2017 IANCON, 8 September 2017, Chennai

Deepti Vibha

1. An overview of study designs, Workshop on Research Methodology, Writing and Communication, 11 April 2017, New Delhi

2. Design, conduct and analysis of diagnostic test studies, Workshop on Research Methodology, Writing and Communication, 12 April 2017, New Delhi
3. Brain death, In Service Training of Nurses on Deceased Organ and Tissue Donation, 7 June 2017, New Delhi
4. Neurological complications after liver transplantation, 3rd CLBS Liver Symposium, 16 September 2017, New Delhi
5. Acute ischemic stroke, AIIMS Neurological Life Support, 8 October 2017, New Delhi
6. EEG: Dilemmas and interpretations, Neurocritical Care Workshop, 29 October 2017, New Delhi
7. AIDS and neurological complication, National Neurology Update, 18 November 2017, Kanpur
8. Study designs overview, Operational Research Workshop (Advanced Level), 22 November 2017, Ballabgarh, Haryana
9. Cohort studies, Operational Research Workshop (Advanced Level), 22 November 2017, Ballabgarh, Haryana
10. Prevention and detection of memory problems, 16th Annual Caregivers' Meet for Alzheimer's Disease, 10 December 2017, New Delhi
11. Brain death, In Service Training of Nurses on Deceased Organ and Tissue Donation, 23 January 2018, New Delhi
12. Idiopathic intracranial hypertension, AIIMS—PGI Neurology Update, 27 January 2018, New Delhi
13. Practical approach for the management of side effects of AEDs, Interactive Workshop on Epilepsy Management, 23 February 2018, New Delhi
14. Acute ischemic stroke, AIIMS Neurological Life Support, 26 February 2018, New Delhi
15. Critical analysis of systematic review and meta-analysis, Workshop on Evidence Based Medicine, 1 March 2018, New Delhi

Vishnu VY

1. Future directions in dementia, CME on Dementias: Memory Loss and Beyond by NAMS, 19 December 2017, New Delhi
2. ICH management in the setting of antiplatelet and anticoagulation use, International Stroke and Cerebrovascular Diseases Symposium in Conjunction with International Congress of Interventional Neurology, 27-28 October 2017, New Delhi
3. Treatment of inflammatory myopathies, AIIMS-PGI Neurology Update, 27-28 January 2018, New Delhi
4. Focused neurological examination, ANLS—2018, 28-29 January 2018, New Delhi

Roopa Rajan

1. Dystonic Tremor: The borderland of dystonia, tremor and parkinsonism, MDS-AOS Symposium for Young Neurologists and Emerging Researchers Grooming for Interaction and Excellence in Science (SYNERGIES), 19 May 2017, Sydney, Australia
2. Non-motor symptoms in Parkinson's Disease, Continuing Medical Education Program Indian Medical Association, Thrissur Branch, 12 June 2017, Thrissur, Kerala, India
3. The link between mitochondrial dysfunction, channelopathies and movement disorders, 3rd MDSICON, 20 January 2018, Hyderabad, India
4. Approach to dystonia—Current classification, AIIMS PGI Neurology Update, 27 January 2018, New Delhi, India

Deepa Dash

1. Approach to myelopathy with normal MRI, AIIMS PGI Update, 28 January 2018, Delhi, India
2. EEG-Dilemmas' and interpretation, AIIMS Neurocritical Workshop, 28 October 2017, Delhi, India
3. Real life dilemmas and interesting case presentation, ICTRIMS 2017, 13 August 2017, Delhi, India
4. Approach to a patient with non traumatic weakness, AIIMS Neurological Life Support (ANLS) Provider C, 29 January 2017, Delhi, India
5. Immunization of health care workers, Workshop on "Hospital Infection Control and Prevention", 15 March 2018, Delhi, India

Awadh Kishor Pandit

1. Restless legs syndrome and cardio-cerebrovascular diseases: Associations and comparison with the Wills Ekblom Disease? In the symposium entitled "Restless legs syndrome among various neurological disorders: Associations versus Causality", International Conference of Sleep Medicine and Research (ISSR 2017), 20-23 September 2017, International Centre, Dona Paula, Goa

2. Meningitis and encephalitis, AIIMS Neurological Life Support (ANLS) Provider Course, 7-8 October 2017, JPN Apex Trauma Centre, AIIMS, New Delhi
3. Meningitis and encephalitis, AIIMS Neurological Life Support (ANLS) Provider Course, 25-26 February 2018, JPN Apex Trauma Centre, AIIMS, New Delhi
4. Guidelines in antiplatelets and lipid lowering therapies, AIIMS-PGI Update 2018, 27-28 January 2018, Dr Ramalingaswamy Board Room, AIIMS, New Delhi
5. Role of IVIG and plasmapheresis in autoimmune conditions, Medical Surgical Nursing Update 2018, 9-10 March 2018, CMET, AIIMS, New Delhi

Rajesh Kumar Singh

1. Advances in muscular dystrophies treatment, AIIMS PGI Neuro Update, 28 January 2018, New Delhi

Oral papers/posters presented

1. Paul D, Dixit A, Srivastava A, Tripathi M, Banerjee J, Prakash D, Sarkar C, Chandra PS. Activation of Transforming Growth Factor Beta (TGF β /SMAD3) signalling in Mesial Temporal Lobe Epilepsy (MTLE) patients, ECON 2018, The 19th Joint Annual Conference of IEA and IES, 2-4 February 2018, Patna
2. Paul D, Dixit A, Srivastava A, Tripathi M, Banerjee J, Prakash D, Sarkar C, Chandra PS. Alteration of Transforming Growth Factor Beta (TGF β /SMAD3) signalling in Mesial Temporal Lobe Epilepsy (MTLE) patients, 11th Symposium on Frontiers in Biomedical Research, 19-21 February 2018, New Delhi
3. Srivastava A, Banerjee A, Dixit A, Banerjee J, Prakash D, Sarkar C, Chandra PS. Differential modulation of cytokine/chemokine regulatory networks in patients with Hippocampal Sclerosis (HS) and Focal Cortical Dysplasia (FCD). ECON 2018, The 19th Joint Annual Conference of IEA and IES, 2-4 February 2018, Patna
4. Banerjee A, Dixit A, Kumar K, Sharma D, Tripathi M, Srivastava A, Paul D, Prakash D, Sarkar C, Banerjee J, Chandra PS. Epigenomic analysis of resected brain tissues identifies aberrant signalling pathways in patients with focal cortical dysplasia, ECON 2018, The 19th Joint Annual Conference of IEA and IES, 2-4 February 2018, Patna
5. Sharma D, Srivastava A, Aparna Banerjee Dixit A, Jyotirmoy Banerjee J, Tripathi M, Chandra PS. Gene expression analysis of drug transporters and biotransformation enzyme in patients with mtle and fcd: A comparative study, ECON 2018, The 19th Joint Annual Conference of IEA and IES, 2-4 February 2018, Patna
6. Sharma D, Dixit AB, Banerjee J, Tripathi M, Chandra PS. An integrative analysis of genome-wide profiling of DNA methylation and gene expression in focal cortical dysplasia, 32nd International Epilepsy Congress, 2-6 September 2017, Barcelona
7. Bansal S, Srivastava AK. Assessment of autonomic function during ictal and interictal period of migraine, 20th Annual Conference of Delhi Neurological Association DNACON—2018, 3 February 2018, New Delhi
8. Shakya S, Faruq M, Srivastava AK. 'Clinical and Mutation Spectrum of AOA2: An Indian Perspective', 20th Annual Conference of Delhi Neurological Association DNACON—2018, 3 February 2018, New Delhi
9. Sonakar AK, Srivastava AK, Faruq M. Genetic profiling of a case of adult onset Cerebellar ataxia: Tracing the origin of mutation to an ancestral founder population of Saharanpur district of Uttar Pradesh, 20th Annual Conference of Delhi Neurological Association DNACON—2018, 3 February 2018, New Delhi
10. Singh HN, Swarup V, Srivastava AK. Differential gene expression analysis reveals pathway based functional association of dysregulated genes in Friedreich's ataxia, 22nd World Congress of Parkinson's Disease and Related Disorders, 13 November 2017, Ho Chi Minh City, Vietnam
11. Swarup V, Singh R, Singh HN, Faruq M, Srivastava AK. Identification of MicroRNAs and their target genes modulating Spinocerebellar Ataxia Type-2 (SCA2) pathogenesis, 22nd World Congress of Parkinson's Disease and Related Disorders, 13 November 2017, Ho Chi Minh City, Vietnam
12. Singh, I, Shakya S, Singh RK, Goyal V, Srivastava AK. Prevalence of Hemochromatosis (HFE) gene mutations in Friedreich's ataxia patients and peripheral neuropathy, 22nd World Congress of Parkinson's Disease and Related Disorders, 13 November 2017, Ho Chi Minh City, Vietnam
13. Sonakar AK, Srivastava AK, Faruq M, Srivastava AK. Phenotypic differences in genetically characterized Spinocerebellar Ataxia Type 2 (SCA2): A largest case series from India, 22nd World Congress of Parkinson's Disease and Related Disorders, 13 November 2017, Ho Chi Minh City, Vietnam
14. Suroliya V, Srivastava AK, Faruq M. New insight in the screening of tandem repeats among spinocerebellar ataxia patients, 22nd World Congress of Parkinson's Disease and Related Disorders, 14 November 2017, Ho Chi Minh City, Vietnam

15. Shakya S, Srivastava AK, Faruq M, Kumar D. Twofold load of tandem repeat expansion and their impact on ADCA patients, 22nd World Congress of Parkinson's Disease and Related Disorders, 14 November 2017, Ho Chi Minh City, Vietnam
16. Singh R, Sonakar AK, Srivastava AK, Faruq M. Modifiers of age at onset in Spinocerebellar Ataxia Type 2 (SCA2): CAG length of other SCA loci do not influence age at onset in SCA2, 22nd World Congress of Parkinson's Disease and Related Disorders, 14 November 2017, Ho Chi Minh City, Vietnam
17. Narang MK, Srivastava AK, Rajan R, Singh MB, Shukla G, Srivastava MVP, Pandit AK, Vibha D. Tremor in Spinocerebellar Ataxia Type 12 (SCA-12) mimics essential tremor (ET), 22nd World Congress of Parkinson's Disease and Related Disorders, 15 November 2017, Ho Chi Minh City, Vietnam
18. Ahmad I, Srivastava AK, Faruq M, Srivastava MVP. To study the genotype—Phenotype correlation of Friedreich's Ataxia (FRDA) patients in Indian population, 22nd World Congress of Parkinson's Disease and Related Disorders, 15 November 2017, Ho Chi Minh City, Vietnam
19. Bhat P, Goyal V, Srivastava AK, Behari M. Effects of repetitive transcranial magnetic stimulation at three cortical sites in Parkinson's Disease: A randomized study, XXIII World Congress of Neurology, 16 November 2017, Kyoto, Japan
20. Singh I, Shakya S, Singh RK, Istaq A, Goyal V, Garima S, Srivastava AK. Association between iron related gene polymorphisms and Friedreich's Ataxia (FRDA) Disease and peripheral neuropathy in Indian cohort, XXIII World Congress of Neurology, 20 November 2017, Kyoto, Japan
21. Srivastava AK, Narang M, Rajan R, Singh M, Pandit A, Vibha D, Shukla G, Padma M. Tremor in Spinocerebellar Ataxia (SCA) type 12, XXIII World Congress of Neurology, 17 November 2017, Kyoto, Japan
22. Srivastava AK, Faruq M, Shakya S, Singh I, Swarup V. Tandem repeats beyond the clinical diagnosis in ADCAs, International Congress of Parkinson's Disease and Movement Disorders in Vancouver, 7 June 2017, Vancouver, Canada
23. Shakya S, Negi P, Garg A, Prasad M, Faruq M, Srivastava A. Spinocerebellar ataxia type-17, International Congress of Parkinson's Disease and Movement Disorders in Vancouver, 4 June 2017, Vancouver, Canada
24. Tamuli D, Godiyal A, Jaryal A, Srivastava A, Deepak K. The spectrum of composite autonomic severity score in SCA1, SCA2 and SCA3 patients, International Congress of Parkinson's Disease and Movement Disorders in Vancouver, 5 June 2017, Vancouver, Canada
25. Kumar D, Faruq M, Srivastava A, Mukerji M, Mukherjee O. Induced pluripotent stem cells based in-vitro modelling of Spinocerebellar Ataxia Type-12 (SCA-12), International Congress of Parkinson's Disease and Movement Disorders in Vancouver, 5 June 2017, Vancouver, Canada
26. Gupta A, Shukla G, Sharma G, Roy A, Bhargava B, Goyal V, Behari M. Why is Obstructive sleep apnea in people with Resistant Hypertension missed so often? A clinical and polysomnographic case-control study, World Sleep Congress, 10 October 2017, Prague, Czech Republic
27. Bhatia R, Bali P, Sisodia P, Garg A, Warriar A, Sharique M, Padma MV, Prasad K, Vishnubhatla S, Vivekanandan S. Role of blood biomarkers to differentiate between ischemic stroke and intracerebral hemorrhage, Annual Meeting of the Indian Stroke Association, Indian National Stroke Congress, March 2017, Amritsar
28. Bhatia R, Bali P, Sisodia P, Garg A, Warriar A, Sharique M, Padma MV, Prasad K, Vishnubhatla S, Vivekanandan S. Blood biomarkers to differentiate ischemic stroke and intracerebral hemorrhage, Annual Meeting of the Indian Academy Neurology, September 2017, Chennai
29. Bhatia R, Bali P, Sisodia P, Garg A, Warriar A, Sharique M, Padma MV, Prasad K, Vishnubhatla S, Vivekanandan S. Blood biomarkers in predicting outcomes after ischemic stroke and intracerebral hemorrhage, Annual Meeting of the Indian academy Neurology, September 2017, Chennai
30. Singh MB, Kumar S, Goyal V, Padma MV, Vishnubhatla S, Prasad K, Shukla G, Patterson V. Classification of epilepsy into focal and generalized: How necessary are investigations? A cross-sectional study, World Congress Neurology 2017, 20 September 2017, Kyoto, Japan
31. Singh MB, Samant S, Patterson V, Agavane V, Patterson V. Use of a tablet-based epilepsy diagnosis app by computer-naïve health workers: Our experience in a tribal Indian community, 2017 Annual Meeting AAN, 26 April 2017, Boston
32. *Misra S, Kumar A, Kumar P, Mohania D, Prasad K, Vibha D. To determine the diagnostic performance characteristics of blood based protein biomarkers for the differentiation of stroke using high-throughput proteomics approach: A study protocol (poster), 3rd European Stroke Organization Conference 2017, 16-18 May 2017, Prague, Czech Republic [Travel Grant awarded]
33. Misra S, Kumar A, Vibha D, Mohania D, Sagar R, Prasad K. Role of blood leukocyte count as a biomarker for predicting outcome after spontaneous intracerebral hemorrhage: A prospective cohort study (poster), 3rd European Stroke Organization Conference 2017, 16-18 May 2017, Prague, Czech Republic

34. Vibha D, Agarwal A, Prasad K, Bhatia R, Singh MB. Predictors of poor visual outcome in patients with Idiopathic Intracranial Hypertension (IIH): An ambispective cohort study (platform), 25th Annual Conference of the Indian Academy of Neurology, 9 September 2017, Chennai
35. Misra S, Kumar A, Talwar P, Sharma R, Vardhan G, Vibha D, Prasad K. Brain natriuretic peptide, Matrix metalloproteinase-9, S100B, C-Reactive protein biomarkers for differentiating stroke from stroke mimics: A systematic review and meta-analysis (platform), 25th Annual Conference of Indian Academy of Neurology, September 2017, Chennai
36. *Misra S, Kumar A, Kumar P, Yadav AK, Mohania D, Sagar R, Prasad K, Vibha D. Blood biomarkers to distinguish ischemic from hemorrhagic stroke: A systematic review (platform), 23rd World Congress of Neurology 2017, September 2017, Kyoto, Japan
37. Garg D, Vibha D, Pandit AK, Prasad K, Rajan R, Srivastava AK. The tale of an ataxic man: An unusual blast from the past (poster), MDSICON, January 2018, Hyderabad
38. Misra S, Kumar A, Talwar P, Sagar R, Kumar P, Raj R, Vibha D, Prasad K. Glial fibrillary acidic protein, Brain natriuretic peptide, Matrix metalloproteinase-9, S100B biomarkers for differentiating ischemic stroke and hemorrhagic stroke: A systematic review and meta-analysis (platform), 20th Annual Conference of Delhi Neurological Association, February 2018, New Delhi
39. Vishnu V, Vinny P, Balaini N, Modi M, Radotra B, Lal V. Computer algorithm as a supporting tool for clinical decision making on a mobile platform, World Congress of Neurology, 16-21 September 2017, Kyoto, Japan
40. Patil A, Vishnu V, Naheed D, Pulikottil V, Pandit A, Goyal M, Modi M, Lal V. Rapidly progressive dementia: An eight-year (2008-2016) retrospective study, World Congress of Neurology, 16-21 September 2017, Kyoto, Japan
41. Patil A, Vishnu V, Naheed D, Goyal M, Modi M, Lal V. Infections masquerading as dementia: An eight year retrospective study, American Academy of Neurology, 22-28 April 2017, Boston
42. Rajan R, Anandapadmanabhan R, Srivastava A, Prasad K. An automated algorithm for analysis of hand-drawn archimedean spirals in tremor syndromes: A pilot study, MDSICON, 20 January 2018, Hyderabad [2nd prize for platform presentation]
43. Rajan R, Zafer SM, Krishnan S, Kesavapisharady K, Kishore A. Interleaved stimulation for freezing of gait in advanced Parkinson's Disease: A pilot study, 21st International Congress of Parkinson's Disease and Movement Disorders, 7 June 2017, Vancouver, Canada
44. Rajan R, Zafer SM, Krishnan S, Kishore A. Pattern and predictors of tremor in patients with primary dystonia, 21st International Congress of Parkinson's Disease and Movement Disorders, 8 June 2017, Vancouver, Canada
45. Dash D, Tripathi M, Tripathi M, Ihtisham K, Padma MV, S. Clinical profile and treatment outcome of patients with non-paraneoplastic autoimmune encephalitis: A prospective cohort study, Annual Conference of Indian Academy of Neurology Conference, 25 October 2017, Chennai
46. Dash D, Tripathi M, Tripathi M, Ihtisham K. Clinical spectrum and treatment outcomes of patients with anti LGI-1 associated encephalitis, World Congress of Neurology, 18 September 2017, Kyoto, Japan
47. Dash D, Tripathi M, Tripathi M, Ihtisham K, Srivastava S. Spectrum of movement disorders in patients of autoimmune encephalitis of non-neoplastic aetiology, Annual Conference of Movement Disorder Society of India, 20 January 2018, Hyderabad, India
48. Pandit AK, Prasad K, Kumar A, Kumar P, Mishra S. An exploratory study to investigate the association between short-term exposure to air pollution on the occurrence of ischemic or hemorrhagic stroke in a case crossover study design, 25th Annual Conference of the Indian Academy of Neurology, 7-10 September 2017, Chennai

RESEARCH

Funded projects

Ongoing

1. Fever, hyperglycemia, swallowing and hypertension management in acute stroke: A cluster randomized controlled trial (Indian Quality Improvement in Stroke Care Study) under Indian Stroke Research Network, Kameshwar Prasad, ICMR, 1.5 years, 2018-2019, Rs 78,85,676/-
2. Biomarkers to enhance the accuracy and precision of prediction of short-term and long-term outcome after spontaneous intracerebral haemorrhage: A prospective cohort study, Kameshwar Prasad, DBT, 5 years, 2014-2019, Rs 1,19,400,00/-
3. Deciphering the genetic aetiology of stroke in Indians using whole exome sequencing using an established and already externally fully funded multicentric Indian stroke biobank, Kameshwar Prasad, DBT, 4 years, 2014-2018, Rs 1,97,00,000/-

4. Identification of genetic risk factors of stroke in Indian population: Candidate gene approach, Professor Kameshwar Prasad, DBT, 5 years, 2014-2019, Rs 64,44,000/-
5. Identification of genetic loci of ischemic stroke by screening single nucleotide polymorphism of genes associated with inflammation: A case control study, Kameshwar Prasad, ICMR, 2 years, 2017-2019, Rs 17,10,692/-
6. A population based prospective cohort study to unravel the causes of stroke and cognitive decline: A cross cultural perspective, Kameshwar Prasad, DBT, 8 years, 2014-2022, Rs 3116.38 lakhs
7. Next generation gene sequencing to determine association between certain functional exonic variations and young onset Ischemic stroke, Kameshwar Prasad, ICMR, 3 years, 2017-2020, Rs 52,95,848.00/-
8. Development of diagnostic grid for prediction of infarction in patients with Tuberculous meningitis, MV Padma Srivastava, DST, 3 years, 2015-2018, Rs 59,99,040/-
9. Randomized, double-blind evaluation in secondary stroke prevention comparing the efficacy and safety of the thrombin inhibitor dabigatranetexilate 110 or 150 mg (twice daily) versus acetylsalicylic acid (100 mg once daily) in patients with embolic stroke of undetermined source (ESUS 1160.189), MV Padma Srivastava, Boehringer Ingelheim Private Limited, 3 years, 2016-2019, Rs 11,53,077/-
10. Effect of Dual-Task Exercise in Conjunction with Fluoxetine and Transcranial Direct Current Stimulation (tDCS) on Postural Stability and Gait in Stroke Patients, MV Padma Srivastava, ICMR, 2 years, 2017-2019, Rs 50,60,406/-
11. Mapping, Researching and Addressing the Gaps in Scientific Awareness and Health Practices Regarding Stroke in Hp: Applying Novel, Interactive/Demonstrative Science Communication, MV Padma Srivastava, DST, 2 years, 2016-2019, Rs 40,45,020/-
12. Effect of Yoga on Physical, Physiological and Functional Health in Post Stroke Recovery: A RCT, MV Padma Srivastava, DST, 2 years, 2017-2019, Rs 43,23,840/-
13. Eloquent cortex mapping in chronic intractable epilepsy using nTMS, fMRI and MEG; A comparative study, Manjari Tripathi, DST, 3 years, 2015-2018, Rs 26,33,368/-
14. Validation of a rapid diagnostic method for the detection of HLA allele and its association with cutaneous drug reactions in persons with epilepsy, Manjari Tripathi, DBT, 3 years, 2013-2017, Rs 1,82,000/-
15. Center of Excellence—EPILEPSY—Magnetoencephalography (MEG) Program, Manjari Tripathi, 5 years, 2011-2018, Rs 40,98,96,000/-
16. Neuroimaging hyposmia in Movement disorder, Vinay Goyal, DST, 3 years, 2014-2017, Rs 46,33,800.00/-
17. Elucidation of molecular pathogenesis in SCAs using IPS cell model and next gen sequencing, Achal Kumar Srivastava (Clinical-Principal Investigator), CSIR, 5 years, 2012-2017, Rs 4 crores
18. "Identification of microRNAs Signatures and Their Target Genes Modulating Spinocerebellar Ataxia Type-2 (SCA-2) Pathogenesis", Achal Kumar Srivastava, DBT, 3 years, 2015-2018, Rs 86.95 lakhs
19. "Deep targeted clinical sequencing of mitochondrial genome and exomes to unravel the causal and modifier variations in patients with cerebellar ataxias", Achal Kumar Srivastava, DHR, 3 years, 2016-2019, Rs 80 lakhs
20. Targeting specific sleep abnormalities in patients with different epilepsy syndromes (TLE) to improve their cognitive performance—A randomized controlled study, Garima Shukla, Department of Health Research, GOI, 3 years, 2014-2017, Rs 47 lakhs
21. Prevalence of symptomatic and asymptomatic CAD in patients with stroke and TIA's, Rohit Bhatia, ICMR, 3 years, 2014-2017, Rs 32 lakhs
22. Genetic and clinical factors associated with aspirin resistance in Indian population with Ischemic Stroke, Rohit Bhatia, DBT, 3 years, 2017-2020, Rs 58 lakhs
23. Identification of genetic causal and risk alleles in Amyotrophic lateral sclerosis and ALS-frontotemporal dementia, Deepti Vibha, Intramural, 3 years, 2016-2018, Rs 4 lakhs
24. A Prospective, Multicentric, Randomized, Double Blind, Parallel, Saline Controlled Phase II Clinical Study to Compare the Safety and Efficacy of PMZ-1620 Therapy along with Standard Supportive Care in Subjects of Acute Ischemic Stroke, Deepti Vibha, Pharmazz India Private Limited, 6 months, 2018, Rs 4 lakhs
25. A randomized double blind study of prophylactic leviteracetam for the prevention of post stroke seizures (PROLEVIS), Vishnu VY, DST-SERB, 3 years, Not started, Rs 29 lakhs
26. Citicoline in Acute Ischemic Stroke undergoing revascularization therapy, Dr Vishnu VY, AIIMS, Intramural, 2 years, April 2017-March 2019, Rs 2,50,000/-
27. Automated hand-drawn spiral analysis platform as a tool to differentiate tremor syndromes, Roopa Rajan, DST-SERB, 3 years, 2017-2020, Rs 42,00,000/-
28. Botulinum Toxin injection for treatment of dystonic hand tremor: A randomized, placebo-controlled, parallel group trial, Roopa Rajan, AIIMS Institute Research Grant, 1 year, 2018-2019, Rs 4,82,000/-

29. “Association of host leukotriene A4 hydrolase gene polymorphism with the clinical outcome of patients with Tubercular meningitis”, Deepa Dash, AIIMS Intramural Project, 1 year, 2018, Rs 4,90,000/-
30. An exploratory study to identify candidate CSF biomarkers in Idiopathic Intracranial hypertension with vision loss. Awadh Kishor Pandit, Intramural—AIIMS, New Delhi, 1 year, 2017, Rs 2.5 lakhs

Completed

1. ‘Sleep quality and circadian sleep rhythm abnormalities among children suffering from autism spectrum disorders: A case-control study, Garima Shukla, Department of Health Research, GOI, 3 years, 2014-2017, Rs 73 lakhs

Departmental projects

Ongoing

1. To study the molecular correlation of Friedreich’s Ataxia phenotype through mitochondrial genome and transcriptome analysis
2. Deco-evolution of autosomal recessive cerebellar ataxias in India: A clinical genetic approach and phenotypic-genotypic correlation
3. Characterization of tremor and gait in Spinocerebellar Ataxia type 12
4. Interventions for stigma for persons in epilepsy in India
5. Ketogenic diet in patients with epilepsy
6. Efficacy of comparative Magnetoencephalography (MEG) vs Electroencephalography (EEG) Source Localization and propagation of Interictal Epileptic Discharges (IEDs) in patients with drug resistant epilepsy
7. Effect of kynurenic acid on modulation of synaptic transmission in patients with mesial temporal lobe epilepsy
8. Deciphering the role of transforming growth factor beta signalling and Matrix Metalloproteinase 9 in mesial temporal lobe epilepsy patients
9. A study on the effect of gaba a receptor alterations in cortical dysplasia
10. Deciphering the role of transforming growth factor beta signalling and Matrix Metalloproteinase 9 in mesial temporal lobe
11. Randomized investigation of the role of repetitive transcranial magnetic stimulation in Parkinson’s Disease
12. Cognitive, Behavioral And Sleep Related Adverse Effects Due To Antiepileptic Drugs In Difficult To Treat Epilepsy
13. Association of epileptic focus location and focal epilepsy etiology with predilection of seizures to occur during sleep/wake states
14. Yoga as an add on therapy in migraine. (CONTAIN). Randomised control trial
15. Validation of ICH score in patients with ICH
16. Citicholine in patients with ischemic stroke undergoing interventions. Randomised trial
17. Effect of mobile and internet use on headache: A cross sectional study
18. Comparison of regimens of dexamethasone in tubercular meningitis—A randomized control trial
19. Comparison of diagnostic accuracy between neurology residents and a novel neurology app on an iOS platform: A multi-center cross-sectional study

Completed

1. To study the molecular pathophysiology of neurodegenerative disease Spinocerebellar Ataxia type 12
2. Musk Myasthenia gravis
3. Triamcinolone in meralgia paresthetica
4. New onset RLS in patient with acute neurological illnesses
5. Stroke related education to Emergency Department (ED) Staff—An acute stroke care quality improvement initiative
6. Leukoaraiosis and microbleeds and relationship to hematoma expansion and outcome
7. Clinical spectrum of patients with polyneuropathy presenting at a tertiary care center in North India—An ambispective cohort study

Collaborative projects

Ongoing

1. Effect of small molecules on the protein expression in PBMCs in FRDA patients to identify target proteins for therapeutic evaluation (2016-2019), Biochemistry

2. An international pilot study of an internet based platform to run epilepsy trials (EPINET), University of Auckland, New Zealand
3. Global audit of treatment of refractory status epilepticus, Registry, UK-Italy
4. Proteomics of CSF for the identification of protein signatures in dopamine dictated states of Parkinson's Disease and schizophrenia, Biophysics
5. Identification of biomarker in PD using MRI techniques, NMR
6. Mapping functional and biochemical correlates in brain of patients with Parkinson's Disease with mild cognitive decline, NMR
7. Proteomic study on Parkinson's Disease and schizophrenia, Biophysics
8. Proteomic study on Parkinson's Disease, Biophysics
9. To study the effect of platelet rich plasma in leprosy induced peripheral neuropathy, Dermatology and Venereology
10. A randomised controlled trial to study the efficacy of exercises in early stage Parkinson's Disease, PMR
11. Genetic studies in patients with ALS, IIT Delhi
12. Understanding pathobiology of multiple sclerosis: Biomarkers, Genetic and Phenotypic Signatures

Completed

1. The study of mitochondrial DNA mutation and reactive oxygen species in Parkinson's Disease, Laboratory Medicine
2. Thesis on myasthenia gravis, Nursing
3. Effect of acute deep brain stimulation of subthalamic nucleus on selective attention in Parkinson's Disease, Physiology
4. Efficiency of microbiological techniques in aiding clinical diagnosis of adult tuberculous meningitis and drug resistance, Microbiology
5. Comprehensive neuropsychological rehabilitation in post stroke aphasia, Neuropsychology

PUBLICATIONS

Journals: 68 Abstracts: 27 Chapters in Books: 6

PATIENT CARE

The Department of Neurology provides outpatient, inpatient and emergency care to patients suffering from neurological illnesses. In addition to general neurology care, subspecialty services are provided in the fields of Stroke, Epilepsy, Movement Disorders, Neuromuscular Disorders. The department provides state of the art care throughout the subspecialties of neurology and is one of the highest volume centers in the country for acute stroke care, epilepsy surgery and functional neurosurgery for movement disorders. All the acute care for stroke in the emergency setting including thrombolytic therapy is being provided free of cost to the patient.

Number of patients seen in various services

Services	Number of patients
Outpatient new cases	30,970
Outpatient follow up cases	51,296
Inpatient admissions	2,709
Inpatient day care	2,309

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Dr Kameshwar Prasad: 'Certificate of Appreciation' from National University Hospital System, Singapore; Invited as Visiting Professor to deliver special lecture at Summer School, Rotterdam.

Professor MV Padma Srivastava was awarded the National Award for Science and Technology Communication from DST, Government of India for the year 2017; Awarded the Fellowship to Indian Academy of Neurology (FIAN), in 2017; Resource faculty for Stroke Care Pathways in state of Himachal Pradesh, and Stroke Management Programs under NCD at Raipur, Telangana, Chandigarh; Resource faculty for IAS Professional Course (Foundation course), Phase I held in LBSNAA in Mussourie on 30 April 2017.

Professor Vinay Goyal received Distinguished Service Award, RNT Medical College Udaipur Alumni, Delhi Chapter, New Delhi, 29 November 2017.

Professor Achal K Srivastava received 3rd Paper Presentation Award for ‘Assessment of Autonomic Function during Ictal and interictal Period of Migraine’ during 20th Annual Conference of Delhi Neurological Association DNACON—2018 at New Delhi, 3-4 February 2018; Received 1st Prize in e-Poster Presentation for work entitled ‘Clinical and Mutation Spectrum of AOA2: An Indian Perspective’ during 20th Annual Conference of Delhi Neurological Association DNACON—2018 at New Delhi, 3-4 February 2018.

Professor Garima Shukla was invited as Visiting Professor at Division of Neurology, Department of Medicine, Queen’s University, Kingston, ON, Canada, June 2017; Appointed as full Professor, Epilepsy and Sleep Specialist, Division of Neurology, Department of Medicine, Queen’s University, Kingston, ON, Canada—November 2017—proceeding on assignment, May 2018; Elected to Executive Committee, International Restless Legs Study Group—October 2017; Nominated Chair, Scientific Program, SLEEP 2018 (Annual Meeting of the Associated Profession Sleep Societies, Baltimore, USA) (one of three); Invited as Workshop Director for workshop on ‘Sleep in Neurological and Psychiatry practice’, at the Annual Meeting of the Indian Sleep Disorders Association, SLEEPCON 2018, held in March 2018.

Professor Rohit Bhatia led CNS TB Group. National guidelines for extrapulmonary tuberculosis in India.

Deepthi Vibha participated as panelist in public lectures on Stroke and Multiple Sclerosis at AIIMS, New Delhi; was selected as faculty in Clinical Epidemiology Unit, AIIMS, New Delhi; expert in Technical Committee from Neurology for PMSSY Phase-III project; Member of the AIIMS Annual Report Committee; Senior Resident Quiz Moderation, 20th Annual Conference of Delhi Neurological Association, 4 February 2018, New Delhi.

Vishnu VY received DST—SERB Early Career Research Award 2017.

Roopa Rajan was selected as Member of the International Parkinson and Movement Disorder Society Task Force on the management of movement disorders: Interdisciplinary and integrated care; DST—SERB Early Career Research Award 2017.

Deepa Dash was member of the guidelines for assessment and certification of specified disabilities in RPWD Act 2016-Sub Committee on Neurological Disability.

Rajesh Kumar Singh participated as expert panelist on multiple sclerosis in JLN Auditorium, AIIMS on World MS Day—31 May 2017; Part of expert panel for making guidelines for the procedure to be followed during administering ECT to a mentally ill person in jail custody—20 August 2017.

Neurosurgery

HIGHLIGHTS

In the year 2017-18, Department of Neurosurgery organized many workshops and CME’s focused on learning newer advances in the field of neurosurgery. Stalwarts like Professor Richard Fessler and Professor Takizawa came to perform surgeries with us.

A team of more than 25 doctors from various disciplines were led by Professor A.K. Mahapatra and first successful separation of craniopagus twins was performed in the country. Professor A.K. Mahapatra retired as Chief of Neurosciences Center and Professor B.S. Sharma also took voluntary retirement. The Department of Neurosurgery was nurtured and achieved great heights under the able leadership of both these greats.

EDUCATION

On weekly basis, seminar/journal club/case presentation/mortality presentations were organized for the MCh residents.

Department’s faculty took great interest in teaching; following activities were organized during the year 2017-2018.

Innovative Training Programs—Department was instrumental in organizing following training programs

1. **Neurosurgery Simulation-based Short Term Skills Training Program:** Neurosurgery Skills Training Facility (NSTF) and Neurosurgery Education and Training School (NETS) is functioning and they have organized following training sessions-
 - Simulation-based neurosurgery skills training sessions: 1277
 - Cadaver-based skull base dissection: 8 sessions and 92 participants
 - Simulation-based short term neurosurgery skills training = 29
 - o 4 weeks short term training = 16
 - o 2 weeks short term training = 13

- E-learning in neurosurgery skills training = 29
 - o Surgical videos = 1,11,879 views (476 Likes, 978 Shares)
 - o Website views = 24,792 views
 - o Discussion forum = 8,669 likes
- 2. Teaching and training many faculty, students and nurses at our institute and other places in various workshops organized by organ retrieval and banking organization

CMEs/Workshops/Symposia/National and International Conferences

1. 2nd Japan-India Advanced Skull Base and Neurovascular Workshop, 18-20 September 2017, AIIMS, New Delhi: 54 participants
2. 4th AIIMS Neurotrauma Conference 2017, 26-29 October 2017, AIIMS, New Delhi
3. 30th AIIMS Annual Micro Neurosurgery Workshop, 15-17 February 2018, AIIMS, New Delhi
4. 7th Live Operative Workshop and Symposium on Complex Spinal Trauma held at JPNATC, AIIMS on 6 and 7 May 2017
5. 7th International CME and Workshop on Cost Effective Use of Technology in e-health care held from 11-13 September 2017
6. AIIMS Advanced Ultrasound Trauma and Life Support Course held from 9-10 September 2017
7. 1st AIIMS Live Operative O-ARM Workshop held on 4 February 2017, New Delhi
8. Symposium on Life after Spinal Cord Injury at JPNATC, AIIMS on 5 September 2017
9. Workshop on Research Ethics and Publications (REAP), held on 6 February 2017, AIIMS, New Delhi
10. Workshop on Research Ethics and Publications (REAP), held on 19 April 2017, New Delhi
11. Workshop on Research Ethics and Publications (REAP), held on 8 September 2017 at AIIMS, New Delhi
12. Workshop on Personality Development Communication and Presentation Skills (PDCP) held on 18 January 2017, AIIMS, New Delhi
13. Annual AIIMS Spine Surgery Workshop, 16-18 November 2017 at AIIMS, New Delhi

Lectures delivered

S.S. Kale

1. Complications of odontoid screw fixation OR complications of surgery for CV junction trauma, 26th Society of Neurosurgeons of South Africa Congress 2017, 3-6 August 2017, Coastlands Durban, South Africa
2. Complications of cranio-vertebral junction surgery—Lessons learnt in 10 years, 26th Annual Conference of Neurotrauma Society of India, 11-13 August 2017, Ooty, Tamil Nadu
3. Dreaded complications in spine surgery—Tips and tricks to prevent and manage, 11th Combined Meeting of Asia Pacific Spine Society and Asia-Pacific Pediatric Orthopedics Society, 8th Biennial Meeting of the International Federation of Pediatric Orthopedic Societies and Premeeting of International Society for the Advancement of Spine Surgery, 22-24 September 2017, Panji, Goa
4. Thoracolumbar spine injury-guidelines and evidence based management, Asian Australasian Society of Neurological Surgeons, Neurotrauma Education Course and Workshop (AASNS), 4-5 November 2017, Bhubaneswar, Odisha
5. Recent guidelines, advances and evidences for management of patient with CV junction injuries, Asian Australasian Society of Neurological Surgeons, Neurotrauma Education Course and Workshop (AASNS), 4-5 November 2017, Bhubaneswar, Odisha
6. Syndromic cervical kyphosis, The 11th Annual Meeting of the Asia-Pacific Cervical Spine Society (APCSS), 8-10 November 2017, Cairo, Egypt
7. Spine instrumentation—Basic essentials, The 4th Walter E Dandy Neurosurgical Society India Chapter International Educational Course, 3rd Walter E Dandy Micro Vascular Anastomoses Hands-on Workshop and Practical Anatomy of the Spine Workshop, 4-6 January 2018, Agra, UP
8. Surgical anatomy of posterior lateral approaches to the dorsal spine, The 4th Walter E Dandy Neurosurgical Society India Chapter International Educational Course, 3rd Walter E Dandy Micro Vascular Anastomoses Hands-on Workshop and Practical Anatomy of the Spine Workshop, 4-6 January 2018, Agra, UP
9. ALIF, The 4th Walter E Dandy Neurosurgical Society India Chapter International Educational Course, 3rd Walter E Dandy Micro Vascular Anastomoses Hands-on Workshop and Practical Anatomy of the Spine Workshop, 4-6 January 2018, Agra, UP
10. CV junction-overview, 7th Annual Conference of Neurological Surgeons' Society of India, 23-25 February 2018, Scientific Convention Centre, KGMU, Lucknow, UP

11. Syndromic cervical kyphosis. 9th International Neurosurgical Conference, 9-10 March 2018, BSM Medical University, Dhaka, Bangladesh
12. Concomitant cervical and lumbar spondylosis, 9th International Neurosurgical Conference, 9-10 March 2018, BSM Medical University, Dhaka, Bangladesh
13. Syndromic cervical kyphosis, 9th Annual Meeting of Cervical Spine Research Society Asia Pacific Section, 22-24 March 2018, New Delhi
14. Concomitant cervical and lumbar spondylosis, 9th Annual Meeting of Cervical Spine Research Society Asia Pacific Section, 22-24 March 2018, New Delhi

P.S. Chandra

1. Reducing atlanto-axial dislocation and basilar invagination using new innovative techniques: The DCER Principle, The Hannover International Neurosurgical Congress 2017, 17-19 June 2017, International Neuroscience Institute, Germany
2. Intraoperative ruptured aneurysm: Management, 7th International Neurosurgery Update, 24-25 June 2017, Mumbai
3. Lectures on epilepsy surgery, the 17th ASEAN Congress of Neurological Surgery and the 7th National Congress of Indonesian, 19-22 July 2017, University of Malaya, Kuala Lumpur, Malaysia
4. “MRI negative epilepsy: Evaluation and surgical management” and as an expert panelist for “Post-surgical treatment of epilepsy” during “Session IX: Epilepsy: Surgical aspects”, Epilepsy Conclave 2017, 5 and 6 August 2017, Hyderabad
5. “Identifying epileptogenic networks for devising surgical strategies for drug refractory epilepsy”, 3rd JIPMER Research Day, 10-11 September 2017, JIPMER, Puducherry
6. “Optimizing the role of SEEG to localize epileptogenic focus in MRI negative drug resistant epilepsy, 15th Annual Conference of Indian Society of Stereotactic and Functional Neurosurgery, 15-16 September 2017, Department of Neurosurgery, PGIMER, Chandigarh
7. Minimally invasive epilepsy surgery and reducing basilar invagination using DCER, The Congress of Neurological Surgeons, 7-11 October 2017, Boston, USA
8. Robotic guided endoscopic trans nasal transseptal approach to sellar-suprasellar tumors, 19th Annual Skull Base Surgery Society Conference (SKULLBASECON 2017), 27-29 October 2017, Kochi, Kerala

Ashish Suri

1. Lecture and 3D video—Upper brainstem lesions: Surgical approaches, 3D Neuroanatomy and Neurosurgical Approaches Course, 2-6 March 2017, Alicante, Spain
2. Strategies for clipping aneurysms, 2nd International Neurosurgery Course, 7-10 March 2017, Magala, Spain
3. Foramen magnum meningioma, 2nd International Neurosurgery Course, 7-10 March 2017, Magala, Spain
4. High grade gliomas—Truths vs Hype, Annual Conference of the Congress of Neurological Surgeons CNS-2017, 7-11 October 2017, Boston, Massachusetts, USA
5. Low grade gliomas in adults—Surgical techniques, Annual Conference of the Congress of Neurological Surgeons CNS-2017, 7-11 October 2017, Boston Massachusetts, USA
6. Trends in aneurysm treatment in India, Annual Conference of the Congress of Neurological Surgeons CNS-2017, 7-11 October 2017, Boston, Massachusetts, USA
7. Simulation based skills training in neurosurgery: Indian experience, Annual Conference of the Congress of Neurological Surgeons CNS-2017, 7-11 October 2017, Boston, Massachusetts
8. Surgical treatment of cushings disease: Experience of 123 patients, Annual Conference of the Congress of Neurological Surgeons CNS-2017, 7-11 October 2017, Boston, Massachusetts, USA
9. Moya moya disease: Single center experience of 136 patients, Annual Conference of the Congress of Neurological Surgeons CNS-2017, 7-11 October 2017, Boston, Massachusetts, USA
10. Endoscopic endonasal approach for giant pituitary adenoma: A single surgeon experience of 37 cases, Annual Conference of the Congress of Neurological Surgeons CNS-2017, 7-11 October 2017, Boston, Massachusetts, USA
11. Spheno-petro-clival meningioma operated by modified anterior transpetrosal rhomboid approach: A single surgeon experience of 38 patients, Annual Conference of the Congress of Neurological Surgeons CNS-2017, 7-11 October 2017, Boston, Massachusetts, USA
12. Simulation in neurosurgery: Proposal for skills training curriculum, Annual Conference of the Congress of Neurological Surgeons CNS-2017, 7-11 October 2017, Boston, Massachusetts, USA
13. Anterior transpetrosal: Clinical applications, anatomy and techniques, 3D Neurofest, 26-28 January 2017, Narayana Multispecialty Hospital, Jaipur, Rajasthan

14. Endoscopic third ventriculostomy: Complications and long term outcome in adults and children, Annual Meeting of Delhi Neurological Association DNACON-2017, 4-5 February 2017, India Habitat Centre, New Delhi
15. Anterior transpetrosal approach, Japan India Advanced Skull Base and Neurovascular Workshop, 13-15 February 2017, AIIMS, New Delhi
16. Intraventricular endoscopy, Japan India Advanced Skull Base and Neurovascular Workshop, 13-15 February 2017, AIIMS, New Delhi
17. CNS revascularization: Surgical techniques, Japan India Advanced Skull Base and Neurovascular Workshop, 13-15 February 2017, AIIMS, New Delhi
18. Approaches to cavernous sinus: Challenges and controversies, Neurotology and Lateral Skull Base Surgery Workshop, 24-26 February 2017, Nanavati Hospital, Mumbai, Maharashtra
19. Anterior transpetrosal approach, Neurotology and Lateral Skull Base Surgery Workshop, 24-26 February 2017, Nanavati Hospital, Mumbai, Maharashtra
20. AASPN video session—How I do it: ETV, 2nd Congress of Asian Australasian Society for Pediatric Neurosurgery and INDSPN2017 28th Annual Conference of Indian Society for Pediatric Neurosurgery, 24-26 March 2017, Mumbai, Maharashtra
21. Interactive video session with experts: Moya moya disease: Surgical technique, 2nd Congress of Asian Australasian Society for Pediatric Neurosurgery and INDSPN2017 28th Annual Conference of Indian Society for Pediatric Neurosurgery, 24-26 March 2017, Mumbai, Maharashtra
22. AASPN video session—How I do it: ETV, 2nd Congress of Asian Australasian Society for Pediatric Neurosurgery and INDSPN2017 28th Annual Conference of Indian Society for Pediatric Neurosurgery, 24-26 March 2017, Mumbai, Maharashtra
23. ETV—Complications and outcome, 4th Annual Conference of Neuroendoscopy Society of India, 7-9 April 2017, Jaipur, Rajasthan
24. Giant pituitary adenomas—Surgical challenges, 4th Annual Conference of Neuroendoscopy Society of India, 7-9 April 2017, Jaipur, Rajasthan
25. Extended endoscopic endonasal approaches to chordomas—Video session, 4th Annual Conference of Neuroendoscopy Society of India, 7-9 April 2017, Jaipur, Rajasthan
26. Microvascular anastomosis, 1st AIIMS Bhopal Microneurosurgery Skills Training Workshop, 19 August 2017, AIIMS, Bhopal, Madhya Pradesh
27. Cavernous sinus and anterior transpetrosal approach surgical anatomy and clinical applications, 2nd Japan India Advanced Skull Base and Neurovascular Workshop, 18-20 September 2017, AIIMS, New Delhi
28. Surgical videos: Endoscopic endonasal skull base approach, 2nd Japan India Advanced Skull Base and Neurovascular Workshop, 18-20 September 2017, AIIMS, New Delhi
29. Surgical video: Clipping of complex aneurysms, 2nd Japan India Advanced Skull Base and Neurovascular Workshop, 18-20 September 2017, AIIMS, New Delhi
30. Surgical videos—Revascularization surgery, 2nd Japan India Advanced Skull Base and Neurovascular Workshop, 18-20 September 2017, AIIMS, New Delhi
31. Microsurgical clipping strategies for giant aneurysms, 17th Annual Meeting of Cerebrovascular Society of India (NEUROVASCAN-2017), 16-17 September 2017, New Delhi
32. Central skull base—Controversies and challenges, 19th Annual Conference of the Skull Base Surgery Society of India, 27-29 October 2017, Kochi, Kerala
33. Training programs for skull base surgery development, 19th Annual Conference of the Skull Base Surgery Society of India, 27-29 October 2017, Kochi, Kerala
34. Basic microscopic and endoscopic training, 66th Annual Conference of the Neurological Society of India NSICON 2017, 30 November to 3 December 2017, Nagpur
35. Simulation in neurosurgery, Indo Japan Neurosurgical Meeting, 3-4 March 2018, Hyderabad
36. 3D neurosurgery operative video presentation, Indo Japan Neurosurgical Meeting, 3-4 March 2018, Hyderabad

Manmohan Singh

1. Surgical management of movement disorders, National Conference of Movement Disorders, 8 April 2017, Kanpur, UP
2. Management of cavernous sinus tumors, 4th Brain and Spine Workshop, 15-16 June 2017, Jabalpur
3. Complications of gamma knife radiosurgery, 15th Conference of Indian Society for Stereotactic and Functional Neurosurgery, 14-16 September 2017, Chandigarh

4. Intracranial extracranial bypass surgery, Indo Japan Neurosurgery Skull Base and Vascular Meeting, October 2017, AIIMS, New Delhi
5. Cavernous sinus lesions-surgical management, 19th Annual Skull Base Surgery Society Meeting, 27-29 October 2017, Kochi, Kerala

Deepak Gupta

1. Surgical advances in TBI care, Kerala Neurosurgery Society, 8-9 April 2017, Kerala
2. Multimodality monitoring in TBI, Neuro Symposium Neurotrauma, 19-21 April 2017, China
3. Pediatric head trauma, Short Term Fellowship, 1-8 June 2017, Italy
4. ICP monitoring in TBI, Neurotrauma 2017, 11-13 August 2017, Ooty, Tamil Nadu
5. Front orbital advancement in craniostyosis, NSICON 2017, 30 November-3 December 2017, Nagpur
6. Indian data on CENTRE TBI global registry, CINTER TBI Meeting, 10-12 September 2017, Belgium
7. Complex spine trauma, Nepal Neuro Conference, 22-23 October 2017, Nepal
8. T4T AO neuro faculty course, AO Course, 12-13 August 2017, Hong Kong
9. Craniopagus twin complexities, INDSPN 2018, 31 January-4 February 2018, Hyderabad
10. Case based discussion of IONM in spine trauma, IONM, 22-24 February 2018, Kolkata
11. Decompressive craniectomy evidence based guidelines, Indo Japan Joint Conference, 3-4 March 2018, Secunderabad

Deepak Agrawal

1. Legal, ethical and administrative issues in telemedicine and electronic consultations, Conclave on “Legal and Ethical Challenges in Healthcare Ecosystem”, 20 May 2017, Manekshaw Convention Centre, New Delhi
2. Smart healthcare in the era of digital India, Elets 7th Healthcare Leaders Forum, 30 June 2017, New Delhi
3. Innovations and breakthrough technology in health care, 7th International CME and Workshop on Cost Effective Technology in Health Care, 11-13 September 2017, All India Institute of Medical Science, New Delhi
4. Post gamma knife increased tumor size in vestibular schwannomas: Progression or pseudoprogression, 15th Conference of the Indian Society for Stereotactic and Functional Neurosurgery, 15-16 September 2017, PGIMER, Chandigarh
5. Android based cost effective ventilator, 2nd Annual Max Healthcare Patient Safety Conference, 22-23 September 2017, New Delhi

Vivek Tandon

1. Brain death and its certification, Orientation of Stake Holders on Deceased Organ and Tissue Donation and Transplantation, 8 May 2017, IGIMS, Patna
2. Head injury management—Case based discussion, AO Neurotrauma Workshop, October 2017, AIIMS, New Delhi
3. Post traumatic hydrocephalus, Annual Neurotrauma Conference, October 2017, AIIMS, New Delhi
4. Fusion for lumbar spinal stenosis—Protective or an unessential burden? SPINECON 2018, 2 February 2018, Gurgaon
5. Odontoid fractures in elderly, SPINECON 2018, 2 February 2018, Gurgaon
6. Tumor board—Glioma surgery, Masterclass in Glioma Surgery, 28 January 2018, Tata Memorial Hospital, Mumbai
7. Use of neuromonitoring and neuroimaging for glioma resection, Delhi Neurological Association Meet, 10 March 2018, AIIMS, New Delhi
8. Optimizing the extent of resection in gliomas, 7th NSSICON, 24 February 2018, KGMC, Lucknow
9. IDEM resection using MIS techniques, AIIMS Spine Surgery Workshop, 17 November 2018, AIIMS, New Delhi
10. Electromagnetic field: Myths and facts, Public Awareness Program by Department of Telecommunications India, 27 February 2018, SNMS, Jaipur

Pankaj Singh

1. Evolution in management of C1 hangmans fracture, 7th AIIMS Complex Spine Live Operative Workshop, 6-7 May 2017, AIIMS, New Delhi
2. Evolution in management of hangmans fracture, ANTC, 26-29 October 2017, AIIMS, New Delhi

Sachin Borkar

1. Free hand versus C-arm/O-arm guided pedicle screw placement in complex thoracolumbar trauma, Annual Conference of Neurotrauma Society of India, 13 August 2017, Sterling Fernhill, Ooty

2. Cranial nerve 360 degree anatomy, World Neurosciences Summit, 18-20 August 2017, New Delhi
3. Approach to a surgical lesion, World Neurosciences Summit, 18-20 August 2017, New Delhi
4. Effectiveness of preoperative facial nerve DTI tractography for preservation of facial nerve function in surgery for large vestibular schwannoma: Interim results of a prospective randomized study, XVI WFNS World Congress, 20-25 August 2017, Convention Center, Istanbul
5. Complex spinal deformities: Challenges, opportunities and outcome. Annual Meeting of Neuro-Spinal Surgeons' Association (NSSA) India, 29 September-1 October 2017, New Delhi
6. Complex thoracolumbar spinal trauma: Current management overview and what is new? Annual Neurotrauma Conference (ANTC-2017), 26-29 October 2017, New Delhi
7. Effectiveness of preoperative facial nerve DTI tractography for preservation of facial nerve function in surgery for large vestibular schwannoma: Interim results of a prospective randomized study, Annual Meeting of Neurological Society of India, 30 November-3 December 2017, Nagpur
8. Cervical lateral mass screw placement, Cadaveric Workshop during y, (Oral), SPINECON-2018; 1st Annual Master Course in Spine Surgery, 2-4 February 2018, Gurgaon
9. Cervical disc arthroplasty, SPINECON-2018; 1st Annual Master Course in Spine Surgery, 2-4 February 2018, Gurgaon
10. Traumatic atlanto-axial dislocation, SPINECON-2018; 1st Annual Master Course in Spine Surgery, 2-4 February 2018, Gurgaon
11. Primary vertebral body tumors: Diagnosis and management (Oral), SPINECON-2018; 1st Annual Master Course in Spine Surgery, 2-4 February 2018, Gurgaon
12. Cervical disc replacement versus ACDF (Oral), AIIMS Microneurosurgery Workshop, 13-15 February 2018, AIIMS, New Delhi

Hitesh Kumar

1. Solid hemangioblastoma of posterior fossa—nuances of management, NEUROVASCON 2017 (Cerebrovascular Society of India), 17 September 2017, Delhi
2. Subarachnoid hemorrhage—diagnosis and management, CME, Neuroclub, 15 April 2017, Agra

Shashwat Mishra

1. STA-MCA bypass, recipe for success, NEUROVASCON 2017 (Cerebrovascular Society of India), 16 September 2017, Delhi
2. The role of revascularisation surgery, Post COSS trial, Annual Conference of Neurological Society of India, 2017, 30 November 2017, Nagpur
3. Revascularisation surgery: Art and science of STA-MCA bypass, Agra Neuro Club Annual Update, 2017, 15 April 2017, Agra
4. The surgical strike to the enemy zone—How to approach the lesion, World Neurosciences Summit 2017, 18 August 2017, New Delhi
5. Time to take a circular journey—The cranial nerves, World Neurosciences Summit 2017, 18 August 2017, New Delhi

Shweta Kedia

1. Spine injury, Advanced Trauma Life Support (ATLS), 4-6 May 2017, JPNATC, AIIMS, New Delhi
2. Paediatric trauma, Advanced Trauma Life Support (ATLS), 4-6 May 2017, JPNATC, AIIMS, New Delhi
3. Raised intra cranial pressure management, 2nd AIIMS Neurological Life Support (ANLS), October 2017, JPNATC, AIIMS, New Delhi
4. Raised intra cranial pressure management, 3rd AIIMS Neurological Life Support (ANLS), February 2018, JPNATC, AIIMS, New Delhi
5. Diagnosis and identification of brain stem death, ORBO, June 2017, CMET, AIIMS, New Delhi
6. Diagnosis and identification of brain stem death, ORBO, November 2017, CMET, AIIMS, New Delhi
7. Intra cranial pressure monitoring and cerebral microdialysis, Neurocritical Care Workshop, Neuroanaesthesia Update, October 2017, JPNATC, New Delhi
8. Abdominal trauma, ATLS, July 2017, JPNATC, New Delhi
9. Head trauma, ATLS, July 2017, JPNATC, New Delhi

Dattaraj Sawarkar

1. Diagnosis and certification of brain stem death criteria, CME on Brain Stem Death, 17 May 2017, CMET, AIIMS, Delhi
2. Management of odontoid fractures, AIIMS Annual Complex Spine Workshop 2017, May 2017, JPATC, AIIMS, Delhi

Manoj Phalak

1. Brain metastasis—Neurosurgical perspective, Neurooncology Postgraduate Update, IRCH, 28 October 2017, AIIMS, New Delhi
2. Spine surgery—Challenging cases, 7th Annual AIIMS Spine Surgery Workshop 2017, 17 November 2017, AIIMS, New Delhi
3. Diagnosis and certification of brain death, Deceased Organ and Tissue Donation—For Residents, 13 February 2018, CMET, AIIMS, New Delhi
4. Diagnosis and certification of brain death, Deceased Organ and Tissue Donation—For Residents, 20 March 2018, CMET, AIIMS, New Delhi
5. Diagnosis and certification of brain death, Deceased Organ and Tissue Donation—For Nurses, 20 September 2017, AIIMS, New Delhi

Oral papers/posters presented

1. Bir M, Gupta U, Patel SK, Netam R, Singh A, Kedia S, Borkar S, Kale SS, Chandran D, Rath GP, Jaryal AK. D Wave is better than TcMEP (Transcranial Motor Evoked Potential) for intraoperative monitoring of motor tract during neurosurgery of spine, Annual Conference of Association of Physiologist and Pharmacologist of India, October 2017, India
2. Borkar SA, Chandra PS. A newer technique to reduce AAD and BI (Oral), Delhi Spine Society Bimonthly Meeting, January 2018, IHC, New Delhi, India
3. Borkar SA. Degenerative lumbar spondylolisthesis: When to fuse? Annual AIIMS Spine Workshop, 16-18 November 2017, AIIMS, New Delhi, India
4. Borkar SA, Kale SS. CVJ anomalies in achondroplasia, India, Delhi Spine Society Bimonthly Meeting, 17 November 2017, New Delhi, India
5. Borkar SA, Kale SS. Pediatric CVJ and cervical spine anomalies: Problems and bailout, Cervical Spine Research Society (CSRS)—Asia Pacific Section Annual Meeting, 22-24 March 2018, Gurgaon, India
6. Borkar SA, Kumar Ambuj, Mahapatra AK. Mature teratoma of petrous temporal bone (E-poster), XVI WFNS World Congress, 25 August 2017, Istanbul
7. Borkar SA. Post-laminectomy cervical kyphosis; (Oral), Annual Meeting of Delhi Spine Society, 31 March-1 April 2018, Manesar, India
8. Borkar SA. Recent Advances in neurosurgery. AIIMS Nursing Update, 8-9 March 2018, AIIMS, New Delhi, India
9. Borkar SA, Samala R, Garg A, Suri A. Facial nerve DTI tractography in large vestibular schwannomas: Is it useful? Delhi Neurological Association Monthly Meeting, March 2018, AIIMS, New Delhi, India
10. Borkar SA, Samala R, Suri A, Kale SS. Extramedullary foramen magnum tumors: Technical nuances and outcome. Cervical Spine Research Society (CSRS)—Asia Pacific Section Annual Meeting, 22-24 March 2018, Gurgaon, India
11. Borkar SA, Sangani MS, Kale SS. Tandem spinal stenoses: Institutional experience, (E-poster), XVI WFNS World Congress, 25 August 2017, Convention Center, Istanbul
12. Borkar SA. Surgical site infection, Hospital Infection Control Conference, 15-16 March 2018, AIIMS, New Delhi, India
13. Sawarkar D, Sharma BS. Tips and tricks in neuroendoscopy, NEUROENDOCON 2017 (Annual Conference of Neuroendoscopy Society of India), 7-9 April 2017, Jaipur, India
14. Sawarkar D, Sharma BS, Suri A, Chandra PS, Kale SS, Mahapatra AK. Three dimensional neuroendoscopy: Our preliminary experience, NSICON 2017, 30 November-3 December 2017, Nagpur, India
15. Sawarkar D, Sharma BS, Suri A, Chandra PS, Kale SS. 3-D endoscopic pituitary surgery: Tips and tricks and our preliminary experience, NEUROENDOCON 2018, 31 March-4 April 2018, Jabalpur, MP, India
16. Sawarkar D, Singh PK, Sharma BS. Management of pneumosella: A rare complication of endoscopic pituitary surgery, NEUROENDOCON 2017 (Annual Conference of Neuroendoscopy Society of India), 7-9 April 2017, Jaipur, India

17. Sawarkar D, Verma SK, Singh PK, Kale SS, Sharma BS, Mahapatra AK. Endoscopic decompression of tension pneumosella causing hypothalamic dysfunction post excision of giant pituitary adenoma—Report of extremely rare complication and review of literature, IFNE Congress 2017, 1-3 November 2017, Century City Conference Centre, Cape Town, South Africa
18. Sawarkar D, Verma SK, Kale SS, Sharma BS, Mahapatra AK. Endoscopic management of fourth ventricle neurocystocercosis: Case series of four cases and description of new technique, IFNE Congress 2017, 1-3 November 2017, Century City Conference Centre, Cape Town, South Africa
19. Doddamani RS, Meena R, Sawarkar D, Singh PK, Chandra PS, Kale SS. Pediatric supratentorial ependymomas, SFNC 2018, 27-30 March 2018, World Trade Center, Grenoble, France
20. Doddamani RS, Bajaj J, Shabari KV, Tandon V, Chandra PS. Minimally Invasive Management of Hypothalamic Hamartomas, ECON 2017 (Epilepsy Conference), 2-4 February 2018, NIMHANS, Bengaluru, India
21. Doddamani RS, Meena R, Sawarkar D, Chandra PS, Kale SS. Remote cerebellar hematoma following supratentorial surgery, NSICON 2017, 28 November 2017, Nagpur, India
22. Doddamani RS, Meena RK, Sawarkar D, Chandra PS, Kale SS. Pediatric supratentorial ependymoma, SFNC Grenoble Alpes-2018, 28-30 March 2018, World Trade Centre, Grenoble, France
23. Doddamani RS, Meena RK, Sawarkar D, Chandra PS, Kale SS. Remote cerebellar hematoma following supratentorial surgery, NSICON 2017, 28 November 2017, Nagpur, India
24. Ependymomas, SFNC Grenoble Alpes-2018, 28-30 March 2018, World Trade Centre, Grenoble, France
25. Garg K, Chandra P, Kale S. Atypical symptoms of cervical spondylosis—Is ACDF helpful? Neurological Society of India Conference, 30 November 2017, Nagpur, India
26. Garg K, Singh PK, Chandra PS, Kale SS. Intraventricular pilocytic astrocytoma's: Our experience in this rare entity, SFNC 2018, 27-30 March 2018, World Trade Center, Grenoble, France
27. Garg K, Singh P, Chandra P, Kale S. Intraventricular pilocytic astrocytomas: Our experience in this rare entity, Society of French Neurosurgery Annual Meeting, 28 March 2018, Neurochirurgie Grenoble 2018, Grenoble, France
28. Kedia S, Goyal K. Non neurological complications in neuro trauma ICU, ISCCM, Best of Brussels, July 2017, Pune, India
29. Kedia S, Gupta D, Suri V, Singh MM, Suri A, Chandra PS, Kale SS. Clinical outcomes in pineal region masses: 10 years institutional review, ISPN, 8-12 October, Denver, USA
30. Kedia S. Paediatric head injury, 26-28 October 2017, ANTC, Delhi
31. Kedia S. Why do chiari surgeries fail? IndsPNCON, February 2018, Hyderabad
32. Kumar A, Shete A, Agarwal D, Singh PK, Chandra PS, Kale SS. Intracranial meningeal hemangiopericytomas: An analysis of factors affecting outcome from a single institutional experience with multimodality treatment of 39 cases. SFNC 2018, 27-30 March 2018, World Trade Center, Grenoble, France
33. Kumar A, Shete A, Agarwal D, Singh PK, Chandra PS, Kale SS. Intracranial Meningeal Hemangiopericytomas: An analysis of factors affecting outcome from a single institutional experience with multimodality treatment of 39 cases, SFNC 2018, 27-30 March 2018, World Trade Center, Grenoble, France
34. Kumar A, Garg M, Singh PK, Mahalingkar R, Satyarthi GD, Agarwal D, Gupta D, Kale SS, Sharma BS, Mahapatra AK. Posterior transpedicular approach for corpectomy and circumferential arthrodesis in traumatic lumbar vertebral body fractures: Surgical technique and single institutional experience, GCS 2017, 3-6 May 2017, Milano Congress Center, Milan, Italy
35. Kumar A, Garg M, Singh PK, Mahalingkar R, Satyarthi GD, Agarwal D, Gupta D, Kale SS, Sharma BS, Mahapatra AK. GCS 2017, 3-6 May 2017, Milano Congress Center, Milan, Italy
36. Kumar A, Gupta D, Kedia S, Kale SS. "Pineal Region Tumors, Clinical Spectrum after a decade's experience", IndsPNCON, February 2017, Hyderabad, India
37. Kumar H. Management of solid hemangioblastoma of posterior fossa, CNS 2017, 7-11 October 2017, Convention Centre, Boston, Massachusetts, USA
38. Mishra S, Kale SS. Anterior clinoidectomy for anterior skull base meningiomas: Fab or Fad? Congress of Neurological Surgeons, 2017, 7-11 October 2017, Boston Convention Center, Boston, Massachusetts, USA
39. Singh PK, Verma SK, Garg M, Sawarkar DP. Evaluation of correction of radiological parameters (angulation and displacement) and accuracy of C2 pedicle screw placement in unstable hangman's fracture with intraoperative C T based navigation, 11th Combined Meeting of APSS (Asia Pacific Spine Society) and APPOS (Asia Pacific Pediatric Orthopedic Society), 24 September 2017, Panjim, Goa
40. Phalak M, Kale SS. Spinal dural avf surgical nuances, Spine society—Delhi Chapter Annual Meeting, 31 March 2018, Manesar, Guragon, Delhi NCR, India

41. Phalak M, Sharma R. PRES following cervical spine intramedullary cyst drainage, Cervical Spine Research Society Annual Conference 2018, 22 March 2018, Gurgaon, India
42. Raheja A, Bowers CA, MacDonald JD, Shelton C, Gurgel R, Brimley C, Couldwell WT. Middle fossa approach for vestibular schwannoma: Good hearing and facial nerve outcomes with low morbidity, 19th Annual Conference of SBSSI, 28 August 2017, Kochi, India
43. Raheja A, Karsy M, Eli I, Guan J, Couldwell WT. Endonasal operative corridor expansion by sphenoidal pneumosinus dilatans in tuberculum sellae meningiomas, 19th Annual Conference of SBSSI, 29 October 2017, Kochi, India
44. Raheja A, Singh PK, Nambirajan A, Sharma MC, Sharma BS. Diffuse leptomeningeal spread of supratentorial recurrent pilocytic astrocytoma in a child, International Cancer Conference, 19 October 2018, Kathmandu, Nepal
45. Raheja A, Sinha S, Samson N, Bhoi S, Subramanian A, Sharma P, Sharma BS. Serum biomarkers as predictor of long term outcome in severe traumatic brain injury, 26th Annual Conference of NTSI, 12 August 2017, Ooty, India
46. *Raheja A, Suri A, Darbari S, Rai HIS. Successful management of four complex giant MCA aneurysms with STA-MCA bypass, clip reconstruction and trapping, 17th Annual Conference of CVS, 15 September 2017, New Delhi, India
47. Sharma BS, Verma SK, Kumar A, Dattaraj SP, Kale SS, Mahapatra AK. Endoscopic controlled keyhole approaches for clipping of anterior circulation aneurysms: A single centre experience over 2 years, IFNE 2017—8th World Conference of Neuroendoscopy, 3 November 2017, Century City Conference Centre, Cape Town, South Africa
48. Sharma R, Borkar SA, Kale SS. Outcome predictors of cervical laminoplasty, Annual Meeting of Delhi Neurological Association, 2-4 February 2018, IHC, Delhi, (Awarded Best Paper - 3rd Prize)
49. Sharma R. Autonomic disturbances in severe traumatic brain injury, 4th AIIMS, Neurotrauma Conference, 28 October 2017, AIIMS, New Delhi, India
50. Sharma R. Neuroinfection—An interesting case discussion, AO—Neuro Course-NEUROTRAUMA, 27 November 2017, JLN Auditorium, AIIMS, New Delhi, India
51. Singh PK, Sawarkar DS, Chandra PS, Kale SS, Verma S, Kumar A. Long term outcome of symptomatic pediatric vertebral hemangiomas treated surgically, SFNC 2018, 27-30 March 2018, World Trade Center, Grenoble, France
52. Singh PK, Sawarkar DS, Chandra PS, Kale SS, Verma S, Kumar A. Evolution in management of combined C1 Hangmans fracture New Delhi, India, SFNC 2018, 27-30 March 2018, World Trade Center, Grenoble, France
53. Singh PK, Sawarkar DS, Chandra PS, Kale SS, Verma S, Kumar A. Long term outcome of symptomatic paediatric vertebral haemangiomas treated surgically, SFNC 2018, 27-30 March 2018, World Trade Center, Grenoble, France
54. Singh S, Kumar H. A penetrating orbital-craniobasal injury navigating anatomy of anterolateral skull base, Neurotrauma 2017, 11-13 August 2017, Coimbatore, India
55. Sinha S, Raheja A, Samson N, Goyal K, Bhoi S, Selvi A, Sharma P, Sharma BS. A randomized placebo controlled trial of progesterone with or without hypothermia in patients with acute severe traumatic brain injury, 66th Annual Conference of NSI, 1 December 2017, Nagpur, India
56. Tandon V, Sharma R, Gupta D, Kale SS. Role of ETV vs Shunt in post-traumatic hydrocephalous, XVI WFNS World Congress, 20-25 August 2017, Istanbul
57. Tandon V, Sharma R, Gupta D, Kale SS. Role of ETV vs Shunt in post-traumatic hydrocephalous, EANS, 14-18 October 2017, Convention Center, Lido, Grenoble, France

RESEARCH

Funded projects

Ongoing

1. Injury Mechanisms in Blast and Blunt Traumatic Brain Injuries-a comparative study based on Clinical data and numerical analysis, S.S. Kale, Science and Technology Office of Naval Research Global, 3 years, July 2015-18, Rs 29,68,005
2. Centre of excellence for epilepsy, P Sarat Chandra, Department of Biotechnology, 7 years, 2011-2018, Rs 40,58,96,000.00/-
3. Role of kynurenic acid, a glutamate receptor inhibitor, in hyperexcitability associated with mesial temporal lobe epilepsy, P Sarat Chandra, Department of Biotechnology, 3 years, 2017-2020, Rs 65,38,201.00/-
4. Advanced epilepsy research: A multidisciplinary approach, P Sarat Chandra, PSA, Government of India, 3 years, 2018-2021, Rs 3,75,00,000.00/-

5. Neurosurgery Skills Training Facility with 3D Endoscopic and 3D Microscopic Facility and Central Repository Server for Archival, Streaming and Teleconferencing, Ashish Suri, Department of Science and Technology: Ministry of Science and Technology, Government of India, AIIMS+ CSE-IIT-D, 5 years, 2013-2018, Rs 650 lakhs
6. Development of 3D/stereoscopy based virtual reality simulation platform for endoscopic neurosurgery training and pre-operative neurosurgical planning, Professor Ashish Suri, Department of Health Research (DHR), Indian Council of Medical Research (ICMR), Ministry of Health and Family Welfare, Government of India, AIIMS+ CSE-IIT-D, 3 years, 2014-2017, Rs 211 lakhs
7. Support to Indian Institutes to Conduct Training Programme in the area of Operational Research Neurosurgery Skills Training, Ashish Suri, Department of Health and Research (DHR), Indian Council of Medical Research (ICMR), Ministry of Health and Family Welfare, Government of India, AIIMS+ CSE-IIT-D, 5 years, 2016-2020, Rs 99 lakhs
8. National Bioscience Award for Career Development 2015, Ashish Suri, Department of Biotechnology (DBT), Ministry of Science and Technology, Government of India, 3 years, 2016-2018, Rs 17 lakhs
9. TATA Innovation Fellowship Award 2015, Ashish Suri, Department of Biotechnology (DBT), Ministry of Science and Technology, Government of India, 5 years, 2016-2020, Rs 45 lakhs
10. Randomised Evaluation of Surgery with Craniectomy for patients undergoing Evacuation of Acute Subdural Haematoma (RESCUE-ASDH), Deepak Gupta, University of Cambridge and Cambridge University Hospitals NHS Foundation Trust, 3 years, 2017-2020, Rs 30 lakhs
11. Approaches and Decisions in Acute Pediatric Traumatic Brain Injury Trial (ADAPT), Deepak Gupta, NIH, USA, 5 years, 2015-2020, Rs 1.8 crores
12. Collaborative European Neurotrauma Effectiveness research in TBI: A prospective longitudinal observational study and Collaborative Indian Neurotrauma Effectiveness research in TBI: A prospective longitudinal observational study (Centre and CINTER –TBI), Deepak Gupta, European High Commission and NIH, 5 years, 2015-2020, Rs 10 lakhs
13. Early versus Delayed Decompression for Traumatic high Cervical Spinal Cord Injury in Acute Spinal Cord Injury Study, Deepak Agrawal, DST, 4 years, 2014-2018, Rs 24,52 800/-
14. “Optic Nerve Ultrasound in Severe Traumatic Brain Injury”, Deepak Agrawal, DBT, 3 years, 2015-2017, Rs 36,07,380/-
15. “Determination of the reference range for the elevated PT/INR with normal coagulation factor level and its association with plasma transfusion therapy in head injury patients, Deepak Agrawal, ICMR, 2 years, 2015-2017, Rs 25,00,000/-
16. VEGF: As a potential systemic marker of local angiogenic activity and response to gamma knife surgery for your consideration, Deepak Agrawal, AIIMS, 1 year, 2016-2017, Rs 5,00,000/-
17. Lateral approaches to Lumbar Spine: Cadaveric Feasibility study in Indian population, Dr Sachin Borkar, AIIMS Intramural, 1 year, 2018-19, Rs 4.5 lakhs
18. Investigating The Role of GABA: A Receptor Subunits Alteration in Focal Cortical Dysplasia, Hitesh Kumar, AIIMS, 2 years, 2018-2019, Rs 5 lakhs
19. The feasibility of endoscopic Anterior Odontoid screw fixation—A Cadaveric pilot study, Shweta Kedia, AO Spine, 1 year, July 2017, 6000 CHF
20. Correlation of multimodality monitoring with outcome in patients of severe head injury undergoing decompressive craniectomy, Dattaraj Sawarkar, AIIMS, 2 years, 2017-2019, Rs 5 lakhs
21. Deciphering the role of Histone Deacetylases (HDACs) in mesial temporal lobe epilepsy, Ramesh S Doddamani, AIIMS, Delhi, 2 years, 2016-2018, Rs 9 lakhs
22. Microsurgical comparison of operative exposure of internal acoustic canal through middle fossa and retrosigmoid hearing preservation skull base approaches—A laboratory investigation, Amol Raheja, AIIMS intramural grant, 1 year, 2018 onwards, Rs 5,00,000/-
23. Quantitative analysis of the variants of the Far Lateral approach in Neurosurgery, Rajesh Kumar Meena, Professor Ashish Suri, Intramural project (AIIMS), 2 years, 2017-2019, Rs 4,75,000/-

Completed

1. A study to assess the role of serum biomarkers in predicting the severity and functional outcome after acute traumatic spinal cord injury, Amol Raheja, AIIMS Intramural grant, 2 years, 2015-17, Rs 4,00,000/-

Departmental Projects

Ongoing

1. A study on the effect of GABA: A receptor alterations in cortical dysplasias
2. Cervical alignment following laminoplasty
3. Early gamma knife with concurrent temozolamide in high grade gliomas—A Controlled Study
4. Effectiveness of preoperative facial nerve diffusion tensor imaging tractography for preservation of facial nerve function in surgery for large vestibular schwannomas: A Prospective Randomized Study
5. Image guided biopsy of brain lesions: Diagnostic yield and complications
6. International prospective observational study on intracranial pressure in Intensive Care (ICU)—SYNAPSE ICU, Deepak Gupta, European Society of Intensive Care Medicine (ESICM), 12 weeks, 2018-2019
7. Outcome and complications of brain AVMs planned with DSA/MRI vs MRI alone
8. Outcome of surgery in spontaneous hypertensive basal ganglia bleed
9. Radiosurgical outcome of AVM planned on DSA and MRI versus MRI alone
10. Role of ETV vs shunt in posttraumatic hydrocephalus
11. Role of gamma knife in midbrain AVM's
12. Role of post-operative CT scanning in post-operative cranial surgeries
13. Standard MRI Imaging is inadequate in drug resistant epilepsy: Retrospective analysis
14. Utility of postoperative ct scans in elective postoperative neurosurgical patients

Completed

1. Fractionated radiosurgery in brain lesions
2. Therapeutic application of bone marrow derived stem cell in complete spinal cord injury
3. Study of traumatic brain injury induced secondary gastrointestinal changes
4. Pituitary dysfunction following stereotactic radiosurgery for secretory pituitary adenomas
5. Follow up study on the effect of risk stratified, Protocol Based Perioperative Antibiotic Prophylaxis on Post-Operative Infections in a Tertiary Care Neurosurgical Department over 10 years
6. Outcomes of ventriculoperitoneal shunt surgery in patients with hydrocephalus
7. Outcome of mid brain AVMs following gamma knife
8. Clinical outcomes in pineal region masses: 10 years institutional review

Collaborative Projects

1. Neurosurgery Skills Training Facility with 3D Endoscopic and 3D Microscopic Facility and Central Repository Server for Archival, Streaming and Teleconferencing. Anatomy, Forensic Medicine, IIT-Delhi: CSE
2. Development of 3D/stereoscopy based virtual reality simulation platform for endoscopic neurosurgery training and pre-operative neurosurgical planning, Anatomy, Forensic Medicine, IIT-Delhi: CSE

PUBLICATIONS

Journals: 108

Chapters in Book: 1

PATIENT CARE

Department of Neurosurgery has two units with general neurosurgical ward under each unit (35 X 2 beds). There are two ICUs with 23 beds. There are now 7 elective operation theatres and one exclusive operation theatre in trauma centre. We offer world class neurosurgical facilities in all neurosurgical sub-specialties, which include—Vascular surgery, epilepsy surgery, minimally invasive cranial and spinal neurosurgery, pediatric neurosurgery, functional neurosurgery, neuro-oncosurgery, skull base and complex spinal surgeries. We have advanced imaging modalities (intraoperative MRI and O-arm) and navigational devices (like Stealth Station and ROSA). Department of Neurosurgery has also started an outpatient Spine clinic which deals with all diseases related to spine including degenerative, deformity, tumors, etc. It is held on Saturdays from 9 am to 12 pm. Department has set-up Stem Cell Translational and Neurosciences Laboratory (STN Lab) 100 square feet of laboratory space at Jai Prakash Apex Trauma Center. This includes a neurotrauma translational lab, molecular lab, stem cell processing lab and immunology lab. PhD Scholars, Graduate students and research associates and nurses have separate desks in the main laboratory area.

Following number of patients were treated by us during the year 2017-2018.

1. Outpatient department,
 - a) Total New Cases: 50,490
 - b) Total Old cases: 85,810
 - c) Pediatric new cases; 3,351
 - d) Pediatric old cases: 7,077
 - e) Total cases: 1,36,300
2. Gamma knife performed: 582
3. Total number of surgeries CNC: 3,164
4. Total Number of cases in Brain Suite: 286
5. Number of elective surgeries (JPNATC): 1,262
6. Total number of surgeries: 4,426

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor SS Kale chaired the session on spinal vascular malformation, Neurovascon 2017, 16-17 September 2017, Dwarka, Delhi; Convener of Vertebral Body Tumor Symposium, 66th Annual Conference of Neurological Society of India, 1-2 December 2017, Nagpur.

Professor P.S. Chandra became the Member of Commission of Surgical Therapy for Epilepsy for developing countries in the International League Against Epilepsy (ILAE). The Center of Excellence for Epilepsy, under his able leadership received good appreciation from the reviewers and was provided extension for a period of another 5 years for phase II. His randomized study in pediatric epilepsy surgery got published in NEJM (impact factor 73) along with Department of Neurology. The paper was quoted as the top 10 Neurology breakthroughs of 2017 (Lancet). This is first such paper from Neurosciences India in NEJM. He was also conferred the JIPMER research award and gave the annual JIPMER research oration (September 2017).

Professor Ashish Suri received Sun Pharma Research Award for Medical Sciences—Clinical Research; Adjunct Professor, School of Information Technology, Indian Institute of Technology, Delhi; Executive Member NSI, Neurological Society of India; Executive Member: World Federation of Neurosurgical Societies, Skull Base Committee; Executive Member: N.E.S (I) Neuroendoscopy Society of India; Convener CNS—NSI (Congress of Neurological Surgeons - Neurological Society of India) Simulation Workshop; Expert DBT Bio-Engineering Task Force; Expert ICMR Neuroscience Translational Research Task Force.

Professor Deepak Gupta was Invited Guest faculty: Deliberation on Surgical Advances in Traumatic Brain Injury and Impact of evidence based practice in outcome improvement, in recognition and appreciation of his outstanding contribution in Neurosurgery at Annual Conference of the Kairaly Neurosciences Society, 8 April 2017, Trivandrum; Successfully separated Craniopagus twins in October 2017 (First successful craniopagus twin surgery of India); Selected as Honorary Secretary of Indian Society of Pediatric Neurosurgery (INDSPN).

Professor Deepak Agrawal was awarded the Max Impact Awards—Project with Maximum Social Impact Category for AIIMS Appointment system (2017); Awarded Skoch Smart Governance Award for Nurse Initiated Follow up tele-consultation in AIIMS (2017); Awarded Skoch Smart Governance Award for portable ventilator (2017); Co-developed world's cheapest fully functional ventilator, which was featured in print and electronic media and displayed at CEUTEH 2017 Conference held at AIIMS (September 2017).

G.D. Satyarthee received Outstanding Reviewer Award 2017, Brain Research Journal; Certificate of Outstanding Reviewer 2018, Journal of Clinical Orthopaedics and Trauma, Elsevier, Amsterdam, Netherlands; Who's Who in the World Award, 2018 by Marquis Who's Who, America; Life Time Achievement Award, 2018 by Marquis Who's Who, America.

Sachin Borkar was selected as a Delegate for AO Spine Indian Subcontinent Council for the term 2018-2020; Nominated as Treasurer of Indian Society of Peripheral Nerve Surgery (ISPNS); Best Paper Award (3rd Prize) during Annual Conference of Delhi Neurological Association (DNA), 3-4 February 2018, New Delhi, India (Co-author).

Shweta Kedia was awarded the 'Cleveland Clinic Steiner' Fellowship in Neuro oncology and Gamma Knife Radiosurgery by Leksell Gamma Knife Society, 2017.

Manoj Phalak received Best Outgoing Student Award—for Diploma in applied epidemiology 2016-17 session at NIHFW, New Delhi.

Amol Raheja won second best poster prize for presentation at the 17th Annual Meeting of Cerebrovascular Society, India. The title of the study was “Successful management of four complex giant MCA aneurysms with STA-MCA bypass, clip reconstruction and trapping”.

VISITING SCIENTIST

18-20 September 2017: Japanese delegation of senior Japanese Neurosurgeons

1. Professor Kenji Ohata, Osaka, Japan
2. Professor Tetsuyosho Horiuchi, Shinshu, Japan
3. Professor Katsumi Takizawa, Asikawa, Japan
4. Professor Hiroyoshi Akutsu, Tsukuba, Japan
5. Professor Shuho Tanaka, Tsukuba, Japan

Professor Richard Fessler (USA) came as a guest faculty for the AIIMS Microneurosurgery Workshop in February 2018.

Professor Katsumi Takizawa came for the surgery of craniopagus twins.

Dr Nilaksha from Sri Lanka visited as a delegate for AIIMS spine surgery workshop.

Neuroimaging and Interventional Neuroradiology

HIGHLIGHTS

- A state-of-the-art 128 slice dual energy CT scanner installed replacing the 10-year-old 6-slice CT scanner.
- With the new CT low-dose CT protocols with modelled iterative reconstruction, a dose reduction potential of up to 60% and faster acquisition in clinical routine are now possible with the best image quality ensured. This has enhanced patient compliance, especially in children and where breath hold acquisition is required.
- CT Fluoroscopy to help guided-Biopsies and CT perfusion to assess cerebral perfusion especially in acute stroke have been started with the installation of the new CT scanner.
- The existing 1.5T MR was upgraded to ‘silent MR’ system which has helped perform silent MR protocols which reduce patient’s anxiety during scan; reduce scan time and incidence of rescans as the patients are relaxed and cooperate to stay still during long examinations. The high gradient coil switching noise of previous system was a serious bother for many patients, especially during high-end acquisition techniques. With the upgrade, this irritant is largely removed and wide bore of the magnet has reduced claustrophobia in patients significantly.
- PACS network is operational in wards and OPD rooms of NSC with upgrade of the PACS server and installation of viewing stations in wards, ICUs and the clients in OPD rooms with Wi-Fi access. Reporting of all neuro-imaging procedures made on-line with improved organization of the reporting room, making it easier to report, edit, sign out and network all studies on-line. Auto-requisitioning enabled from NSC wards on-line for CTs, MRIs, US and DSAs etc. Auto fetching of case records from PACS enabled for Neuroradiology Conferences. Private imaging films digitized and integrated into PACS on registration of patient UHID.

EDUCATION

CMEs/Workshops/Symposia/National and International Conferences

1. The 19th Annual Conference of Indian Society of Neuroradiology, 3-5 November 2017, at Gurgaon, NCR

Undergraduates: Provided materials and guidance to faculty for UG lectures and seminars for 6th semester MBBS students on topics: Introduction to neuroradiology techniques, basics of brain tumour imaging, stroke imaging and congenital anomalies of the CNS. Basics of neuro imaging interpretation taught during their elective posting in neuroradiology.

Postgraduates: Post graduate students of MD Radiology posted in the Department of Neuroradiology on rotation are trained on reporting neuroimaging (CT and MRI) and introduced to all neuroimaging protocols and are encouraged to perform them under supervision of the faculty. DM (Neuroradiology) students are trained to perform all neuroimaging procedures and assist in interventional therapeutic neuroradiology procedures, which are then discussed with them on daily basis. They are also trained to take post procedure care and management of patients undergoing neuro-interventional therapeutic procedures in the ICUs and wards. Seminars, journal clubs and case discussions are organized routinely for their orientation to the current developments and improve their iterative skills. Senior residents regularly present neuro-radiological findings in interdepartmental conferences with Neurology and Neurosurgery departments daily which allow them to understand clinical neuroimaging interpretation skills and the art of presentation. They are posted in the biplane Neuro-interventional suites for at least one year on a rotational basis and are trained on neuro-angiographic and neuro-interventional skills.

Lectures delivered

S.B. Gaikwad

1. Tips and tricks of endovascular repair of challenging cerebrovascular cases, World Live Neurovascular Conference (WLNC), 15-17 May 2017, Los Angeles, USA
2. Guest faculty and panelist, World Live Neurovascular Conference (WLNC), 15-17 May 2017, Los Angeles, USA
3. Coil migration-great safe (neuro complications), 14th Annual Monsoon meeting, 17-20 August 2017, Goa
4. Giant Intracranial aneurysm: Flow diverter in situ thrombosis, 14th Annual Monsoon Meeting, 17-20 August 2017, Goa
5. Haemorrhagic complications following flow diverter implant in giant ICA aneurysm, 14th Annual Monsoon Meeting, 17-20 August 2017, Goa
6. Neuroradiology-mechanical thrombectomy-AIIMS series, The Young Scholar Award (TYSA), 3 September 2017, Delhi
7. Guest for inauguration FUNCTION, 1st PGIMER Interventional Neuroradiology Conference (PINCON), 6-7 October 2017, Chandigarh
8. Chairman-lecture series: Management of complex aneurysms, 1st PGIMER Interventional Neuroradiology Conference (PINCON), Session-9:15-10:45, 6 October 2017, Chandigarh
9. Short case presentations: Management of complex aneurysms, 1st PGIMER Interventional Neuroradiology Conference (PINCON), 6 October, Chandigarh
10. Endovascular management of intracavernous ICA aneurysms: Giant problem-smart solutions, 14th Congress of the World Federation of Interventional and Therapeutic Neuroradiology (WFITN), 16-19 October 2017, Budapest, Hungary
11. Intracranial Dural AVFs: A single centre, 14th Congress of the World Federation of Interventional and Therapeutic Neuroradiology (WFITN), 16-19 October 2017, Budapest, Hungary
12. Guest faculty, 57th Annual Conference of National Academy of Medical, 27-29 October 2017, Sri Guru Ram Das University of Health Sciences, Amritsar, Punjab
13. Awarded fellowship of NAMS, 57th Annual Conference of National Academy of Medical, 28 October 2017, Sri Guru Ram Das University of Health Sciences, Amritsar, Punjab
14. Mechanical thrombectomy in acute ischaemic stroke, 19th Annual Conference of Indian Society of Neuroradiology (ISNR 2017), 3-5 November 2017, Gurgaon
15. Program Director, Neuroradiology Workshop, 6-8 January 2018, National Institute of Neurosciences and Hospital, Dhaka, Republic of Bangladesh
16. Neuroimaging in stroke, Neuroradiology Workshop, 6-8 January 2018, National Institute of Neurosciences and Hospital, Dhaka, Republic of Bangladesh
17. Acute stroke management: Neuro interventionists perspective, Neuroradiology Workshop, 6-8 January 2018, National Institute of Neurosciences and Hospital, Dhaka, Republic of Bangladesh
18. Carotid angioplasty and stenting: Neurointerventionists perspective, Neuroradiology Workshop, 6-8 January 2018, National Institute of Neurosciences and Hospital, Dhaka, Republic of Bangladesh
19. Spinal cord vascular malformations, Neuroradiology Workshop, 6-8 January 2018, National Institute of Neurosciences and Hospital, Dhaka, Republic of Bangladesh
20. Imaging of epilepsy, The Fourth AIIMS-MAMC-PGI Imaging Course Series 3rd Course Neuroradiology Including Head and Neck Imaging, 30 March-1 April 2018, PGIMER, Chandigarh

Ajay Garg

1. Assessing response in high-grade glioma, Glioma Update 2017, 8 April 2017, Parliament Street, New Delhi
2. How to assess CT scan in patients with acute stroke, Seminar and Workshop of Acute Ischemic Stroke Management "New Update", 16 July 2017, Rumah Sakit Dokter Soetomo, Fakultas Kedokteran Unair, Surabaya, Indonesia
3. "Alberta" CT scoring in acute stroke, Seminar and Workshop of Acute Ischemic Stroke Management "New Update", 16 July 2017, Rumah Sakit Dokter Soetomo, Fakultas Kedokteran Unair, Surabaya, Indonesia
4. Early CT scan diagnostic for ischemic stroke, The 17th ASEAN Congress of Neurological Surgery and the 7th National Congress of Indonesian Society of Neurological Surgeons in Conjunction with the 1st International Fujita Bantane Interim Meeting of Neurosurgery, 19 July 2017, Balikpapan, East Kalimantan, Indonesia
5. Recent advances in imaging sequences for guiding management in acute stroke, Joint Sessions of the 5th Asia-Pacific Congress of Interventional Oncology, Annual Aorta and Endovascular Course 2017 and 4th Annual meeting of the Society of Emergency Radiology, 26 August 2017, New Delhi

6. Infections in CNS, Neurology PG Teaching Course, 3 September 2017, Delhi
7. Intracranial infections in immunocompromised patient, Update on Neuro-radiology and Head and Neck Imaging, 2 October 2017, Delhi
8. 2016 WHO classification of CNS tumors—How is it going to change neuroradiology practice? 18th Annual Conference of Indian Society of Neuroradiology, 4 November 2017, Delhi NCR
9. MRI prediction of molecular aberrations, NSICON-2017, 3 December 2017, Nagpur
10. Radiology in dementias, Dementias: Memory Loss and Beyond, 19 December 2017, NAMS House, Near AIIMS, New Delhi
11. Enigma of radiation necrosis vs recurrence-radiologist's perspective and dilemmas, YROC 2018, 12 January 2018, Delhi
12. Imaging in infection, inflammation and demyelination, SHINE 2018, 24 and 25 February 2018, Institute of Neurology, Chennai, Tamil Nadu
13. Clinicopathological meeting: Radiology discussant, SHINE 2018, 24 and 25 February 2018, Institute of Neurology, Chennai, Tamil Nadu
14. MR sequences and its clinical applications with reference to neurosurgery, SHINE 2018, 24 and 25 February 2018, Institute of Neurology, Chennai, Tamil Nadu
15. Neuroradiology fast forward, AIIMS-PGI Neurology Update 2018, 27-28 January 2018, Dr Ramalingaswami Board Room, AIIMS, New Delhi
16. Supratentorial tumors, AIIMS MAMC PGI Neuroradiology Course 2018, 30 March 2018, Lecture Theatre 1, PGIMER, Chandigarh
17. Infratentorial tumors, AIIMS MAMC PGI Neuroradiology Course 2018, 30 March 2018, Lecture theatre 1, PGIMER, Chandigarh
18. Spinal neoplasms, AIIMS MAMC PGI Neuroradiology Course 2018, 30 March 2018, Lecture Theatre 1, PGIMER, Chandigarh
19. Interesting film session (Craniospinal Imaging), AIIMS MAMC PGI Neuroradiology Course 2018, 30 March 2018, Lecture Theatre 1, PGIMER, Chandigarh

Leve Joseph Devarajan

1. Workshops and hands-on demonstrations on cerebral vascular malformations, Joint Sessions of the 5th Asia-Pacific Congress of Interventional Oncology, Annual Aorta and Endovascular Course 2017 and 4th Annual meeting of the Society of Emergency Radiology (APCIO 2017), 25-27 August 2017, New Delhi
2. Short case presentations: When standard treatment is not enough, 1st PGIMER Interventional Neuroradiology Conference (PINCON), 6-7 October 2017, Chandigarh
3. Non-traumatic neurological emergencies—Basics of radiological evaluation and intervention, II AIIMS Neurological Life Support (ANLS) Course, 7-8 October 2017, ATLS Lab, JPNATC, AIIMS, New Delhi
4. Vein of galen aneurysmal malformations, 19th Annual Conference of the Indian Society of Neuroradiology, 3-5 November 2017, Gurgaon NCR
5. Management of intracranial dural AVMs, 20th Annual Conference of Indian Society of Vascular Interventional Radiology-ISVIR 2018, 12-15 February 2018, SGP Institute of Medical Sciences, Lucknow
6. Traumatic and non-traumatic neurological emergencies—Basics of radiological evaluation and intervention, 3rd AIIMS Neurological Life Support (ANLS) Course, 25-26 February 2018, ATLS Lab, JPNATC, AIIMS, New Delhi

Anuj Prabhakar

1. Cerebral aneurysms, PINCON, 6-7 November 2017, Chandigarh
2. Spinal imaging, ISNR 2017, 4 November 2017, Delhi
3. Functional imaging, AIIMS MAMC PGI Course Series, 30 March-1 April 2018, Delhi
4. Normal cerebral angiography, AIIMS MAMC PGI Course Series, 30 March-1 April 2018, Delhi

Oral papers/posters presented

1. Leve Joseph Devarajan S, Nishchint Jain, Ajay Garg, Shailesh B Gaikwad. Cranial dural arterio-venous fistulae-management, 55th Annual Meeting of American Society of Neuroradiology, 24-27 April 2017, Convention Centre, Long Beach, California

2. Leve Joseph Devarajan S, Nishchint Jain, Ajay Garg, Shailesh B Gaikwad. Cerebral pial arterio-venous fistulae, 55th Annual Meeting of American Society of Neuroradiology, 24-27 April 2017, Convention Centre, Long Beach, California
3. Subash Phuyal, Leve Joseph Devarajan S, Nishchint Jain, Ajay Garg, Shailesh B Gaikwad. Clinical and angiographic features of moya moyo disease and their implication in predicting severity, progression and outcome, 19th Annual Conference of the Indian Society of Neuroradiology, 3-5 November 2017, Gurgaon NCR
4. Leve Joseph Devarajan S, Nishchint Jain, Somorendra Shambunduram Ajay Garg, Shailesh Gaikwad. Intracranial dural arterio venous fistulae—An institutional experience and proposal of a new anatomico functional classification system, 13th Asian-Australasian Federation of Interventional and Therapeutic Neuroradiology 2018, 7-9 March 2018, Kota Kinabalu Sabah, Malaysia
5. Leve Joseph Devarajan S, Nishchint Jain, Jayaseelan Nadarajah, Ajay Garg, Shailesh Gaikwad. Endovascular management of dissecting aneurysms of great arteries of the neck—An institutional experience, 13th Asian-Australasian Federation of Interventional and Therapeutic Neuroradiology 2018, 7-9 March 2018, Kota Kinabalu Sabah, Malaysia

RESEARCH

Funded projects

Ongoing

Completed

1. Efficacy of imaging assessment of neoangiogenesis and permeability to differentiate treatment related changes from tumor recurrence in high-grade glioma, Ajay Garg, ICMR, 3 years, 2014-17, Rs 14 lakhs

Departmental projects

Ongoing

1. Role of Pseudocontinuous Arterial Spin Labelling in the evaluation of resting state cerebral perfusion in patients with critical cervical ICA stenosis before and after carotid artery stenting

Completed

1. Role of computed tomography perfusion in differentiation of post treatment effects from tumor recurrence in patients with high grade gliomas: A prospective descriptive study

Collaborative projects

Ongoing

1. Elucidating the science of yoga as a therapeutic intervention in post stroke recovery: Study of brain using the technique of magnetic resonance. Neurology
2. Role of citicoline in acute ischemic stroke-A randomised control trial. Neurology

Completed

1. Unraveling the causes of stroke and cognitive decline in the general population—A cross-cultural perspective study. Neurology
2. Prevalence of symptomatic and asymptomatic coronary artery disease in patients with stroke and transient ischemic attacks. Neurology

PUBLICATIONS

Journals: 12

Chapters in Books: 3

PATIENT CARE

The department works 24x7, 365 days for patient care work and regularly attends to emergencies like subarachnoid haemorrhage, stroke, acute encephalopathies, myelopathies, traumatic or iatrogenic cerebro-vascular injuries etc. All requests for CT scan from out patients and in-patients are done the same day and often immediately, so that decision can be promptly taken for patient management. There is no waiting for CT scans in this department. DSAs are regularly done for cerebral and spinal vascular studies for patients attending the Neurosciences Centre and also other departments like ENT and Ophthalmology. Similarly Neurointerventional therapeutic management is routinely carried out for patients of the Neurosciences Centre as well as those referred from ENT, Ophthalmology, Paediatrics, Cardiology, Orthopaedics

amongst others. Besides, CT scans are done in the ICUs for patients on life support or ventilator using the mobile CT scanner. Bedside x-rays are routinely done using digital portable x-ray unit or CR unit and images are uploaded to the PACS network. Portable Ultrasound is done whenever required for sick and immobile patients in the wards and ICUs of the Neurosciences Centre. All consultants and residents access PACS images through IP enabled protocol and hence can view the images from home or anywhere using internet or even using their smart phones. The departmental conference room has been upgraded for multimodality image viewing using high resolution Dicom compatible projection system, so that clinical consultants and residents can easily see their patient's images in chronological sequence and in comparison mode on the large projection screen. Even old images and scanned private images can be viewed efficiently instantaneously which helps quick decision making.

Neuroimaging and Interventional procedures performed during the year 2017-18

CT Scans	Routine	6,889
	Emergency	10,157
	CT Angiography	1,211
	Image Guided	1,032
	Mobile CT	833
	PERFUSION	39
	HRCT	46
	Total	20,143
Digital Subtraction Angiography	Cerebral and Spinal DSAs	7
	Therapeutic Neuro-Interventional procedures: (Cerebra Aneurysms, Cerebral and Spinal AVM embolizations, Carotid revascularization etc.)	354
	Diagnostic DSA	953
	Cerebral Intra-arterial Thrombolysis/clot retrieval in stroke	
Total	1,314	
Ultrasound Examinations/Doppler studies		2,794
MRIs	NSC MRI	2,221
	Gama Knife planning	936
	Intra-Operative MRI (OT)	125
	NMR facility	1,811
	Total	5,093
X Rays		12,589

Total for the year = 42,033

Cases discussed and reviewed in Neuroradiology conferences for patient care decision making

	No. of cases	Weekly Frequency	Total
Epilepsy case conference	8@	2	15/week
Neurosurgery conferences	20@	4	80/week
Neurology conferences	15@	6	90/week
Neuropathology conference	4@	biweekly	8/week
		Total	193/week

Total = 52,069 cases per year

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor S.B. Gaikwad was selected as Fellow of National Academy of Medical Sciences and was bestowed upon with this award in Sri Amritsar on 28 October 2017; Awarded Gold medal on 3 November 2017 during the inaugural function of 19th Annual Conference of Indian Society of Neuroradiology, for his contribution as President of ISNR; Invited as Program Director to conduct "Neuroradiology workshop" at National Institute of Neurosciences and Hospital, Dhaka, Republic of Bangladesh. Professor S.B. Gaikwad also delivered 4 didactic lectures during the workshop.



VISITING SCIENTIST

1. Dr J.de Vries, Neurosurgical Centre, Canisius-Wilhelmina-Hospital (CWZ) and the University Medical Center, St. Radboud, Nijmegen, Holland
2. Dr Gyula Gal, University Hospital, Odense, Odense, Denmark
3. Dr Naci Kocer, Istanbul University, Istanbul, Turkey

Neuroanaesthesiology

HIGHLIGHTS

Anaesthetic management for 3,824 (2,989 at the Neurosciences Centre and 835 at the JPNATC) neurosurgical procedures was performed. Anaesthetic management for 436 neuroradiological procedures was performed. Intensive care management of 4689 ICU patients (3675-NSC; 1014-TC3 ICU, JPNATC) was performed. A total of 7,920 patients were seen in Pre-Anaesthesia Check-up (PAC) clinic OPD at NSC. A total of 750 patients (190 new and 564 old) were seen in pain clinic OPD, NSC and 385 of them were treated with nerve blocks.

Five candidates were awarded D.M. (Neuroanaesthesiology) degree and one candidate was awarded fellowship in Neurocritical care. Six new candidates joined D.M. course and three candidates joined the Neurocritical care fellowship cases. Thirty seven senior residents (both academic and non-academic) received training in the department. Seventeen postgraduate students (including 5 from Lady Hardinge Medical College) and 24 senior residents from other anaesthesia departments received neuro-anaesthesia training. Two neuroanaesthesia fellows from Max Hospital, Saket, New Delhi received short term training in neuroanaesthesia and neurocritical care.

Nineteen research projects (1 funded and 18 departmental) were completed while 41 research projects (8 funded, 33 departmental and 8 collaborative) were going on.

Faculty and residents published 51 articles in various national and international scientific journals. Twenty one abstracts were published in international scientific journals. Twenty four chapters in books were written by faculty. Four books were written/edited by 3 faculty members.

Two faculty members continued to be executive editors of a national journal.

EDUCATION

A. Postgraduate Teaching

1. Thirty seven senior residents (24 DM—Neuroanaesthesiology students and 13 Non-academic senior residents) from our department received neuroanaesthesia training
2. Twelve MD—Anaesthesiology students from Anaesthesiology Department, AIIMS received neuroanaesthesiology training in the department, as an integral part of their curriculum
3. Twenty four senior residents (12 from Department of Anaesthesiology, AIIMS and 12 from Department of Anaesthesiology Dr Brairch received training in neuroanaesthesiology for variable periods as a part of interdepartmental rotation on mutual exchange basis
4. Five senior residents received training for neurocritical care fellowship
5. Department is organizing classes four times a week (Mondays, Tuesdays, Thursdays and Fridays) seminars, journal club and case presentations (for one hour at a time) as a part of departmental teaching program

Conferences, Seminars, Workshops organized by the department

1. AIIMS Neuroanaesthesia Update-2017 between 5-10 October 2017
2. AIIMS Cadaveric Airway Workshop, 17 December 2017, JPNATC, AIIMS, New Delhi
3. AIIMS Cadaveric Airway Workshop, 5 March 2017, JPNATC, AIIMS, New Delhi
4. 2nd AIIMS Neurological Life Support (ANLS), 25-26 April 2018, JPNATC, AIIMS, New Delhi

Lectures delivered

Arvind Chaturvedi

1. Practical considerations in pediatric neuroanesthesia, AIIMS Neuroanaesthesia Update 2017, 7 October 2017, New Delhi
2. Practical considerations in neuroanesthesia, Guest Faculty in ESI Post Graduate Institute of Medical Sciences and Research, 27 November 2017, Kolkata
3. Annual Neurocritical Care Update, Artemis Hospitals, Cervical Spine Injury with Spinal Shock, 23 March 2018, Gurgaon

R.S. Chouhan

1. Annual AIIMS Neuroanaesthesia Update held at New Delhi, India from 6-7 October 2017
2. 2nd Annual Neurocritical Care Update—2018 held at Gurgaon, Haryana from 22-24 March 2018

Girija Prasad Rath

1. Separating craniopagus twins: Perioperative experience, 69th Annual State Conference of Indian Medical Association Odisha State Branch, 17-18 February 2018, SLN Medical College, Koraput, India

2. Separating craniopagus conjoined twins: AIIMS experience, Annual Conference of Indian Society of Neuroanaesthesiology and Critical Care (ISNACC 2018), 20-22 January 2018, Mumbai, India
3. Awake neurosurgery, Sarawak Ultrasound for Neurosurgery 2018, 11-12 January 2018, Sarawak General Hospital, Kuching, Malaysia
4. Principles of transcranial doppler, Sarawak Ultrasound for Neurosurgery 2018, 11-12 January 2018, Sarawak General Hospital, Kuching, Malaysia
5. Management of CVA: Role of anaesthesiologists, Annual Conference of Indian Society of Anaesthesiologists (ISACON 2017), 26 November 2017, Biswa Bangla Convention Centre, Kolkata, India
6. Screening and optimization of brain-dead organ donors, In Training of Resident Doctors on Deceased Organ and Tissue Donation, 14 November 2017, CMET, AIIMS, New Delhi, India
7. Evoked potentials, 5th Congress of Asian Society for Neuroanaesthesia and Critical Care (ASNACC 2017), 17-19 August 2017, Singapore
8. Trigeminal neuralgia, Cadaveric Pain Workshop, 28 July 2017, JPNA Trauma Centre, AIIMS, New Delhi, India

Gyaninder Pal Singh

1. Keeping up to pace with NOACs and their impact in neurocritical care, MNCC 2017, 1-2 April 2017, Medanta, Gurgaon
2. Depth of consciousness, NCMS 2017, 9 July 2017, NIMHANS, Bengaluru
3. Neuromonitoring, RSACPCON 2017, 16-17 September 2017, GSVM Medical College, Kanpur
4. Postoperative recovery profile in neurosurgical patients: Which is the better choice, Inhalational vs TIVA, Annual Neurocritical Care Update 2018, 22-24 March 2018, Artemis, Gurgaon

Ashish Bindra

1. Panel: Pediatric neurological injury, Medanta Neurocritical Care Update, 1 April 2017, Medanta—Medicity, Gurgaon
2. Stellate ganglion block, AIIMS Cadaveric Chronic Pain Management Course, 28 July 2017, JPNA Trauma Centre, New Delhi
3. ICP monitoring: What's cooking inside, 22-24 March 2018, Gurgaon
4. Management of status epilepticus, AIIMS Neurological Life Support, 26 February 2018, JPNA Trauma Centre, AIIMS, New Delhi
5. Monitoring in neuroanaesthesia, PG Assembly, 19 February 2018, GB Pant Hospital, New Delhi

Niraj Kumar

1. Caudal block, AIIMS, CADAVERIC—Interventional Pain Management Workshop, 28 July 2017, JPNATC, AIIMS, New Delhi
2. Vascular access, AUTLS, 4 August 2018, JPNATC, AIIMS, New Delhi
3. Preparations and seldinger technique, ultrasound guided vascular access, 5 August 2017, JPNATC, AIIMS, New Delhi
4. PCT, NAC 2017, 8 September 2017, VMMC and Safdarjung Hospital, New Delhi
5. Concepts on head-to-toes secondary management and monitoring, CEUTEH-2017, 10 September 2017, JPNATC, AIIMS, New Delhi
6. USG guided vascular access, AIIMS Neuroanesthesia Update 2017, 6-7 October 2017, AIIMS, New Delhi
7. Spinal cord injury, ANLS, 6-7 October 2017, JPNATC, AIIMS, New Delhi
8. Diagnosis and certification of brain stem death criteria, ORBO, 11 November 2017, CMET, AIIMS, New Delhi
9. Ultrasonography in anesthesia—way forward and road blocks, 27th ISACON East Zone 2017, 13-15 October 2017, Jamshedpur
10. Anesthesia in sitting position, NCOTT, 29 October 2018, AIIMS, New Delhi
11. Ultrasound as an aid to airway, Cadaver Airway Workshop *Course Director, 17 December 2018, JPNATC, AIIMS, New Delhi
12. Vascular access, AIIMS-EM-SONO, 18-19 December 2017, JPNATC, AIIMS, New Delhi
13. Spinal cord injury, ANLS, 25-26 February 2018, JPNATC, AIIMS, New Delhi
14. Ultrasound in neurological emergencies. ANLS, 25-26 February 2018, JPNATC, AIIMS, New Delhi
15. Lower limb blocks, C-AURA, 28 February 2018 to 1 March 2018, JPNATC, AIIMS, New Delhi

Keshav Goyal

1. Neuromonitoring and TBI; Panel discussion, 3rd Medanta Neurocritical Care Conference (MNCC) 2017, 2 April 2017, Medanta—The Medicity, Gurgaon, Haryana
2. Spine and spinal cord trauma, Advanced Trauma Life Support (ATLS), May 2017, JPNATC, AIIMS, New Delhi
3. Airway and ventilation, Advanced Trauma Life Support, May and July 2017, JPNATC, AIIMS, New Delhi
4. Musculoskeletal system, Advanced Trauma Life Support (ATLS), June 2017, JPNATC, AIIMS, New Delhi
5. Focussed Assessment Sonography in Trauma (FAST), Advanced Trauma Life Support (ATLS), July 2017, JPNATC, AIIMS, New Delhi
6. Considerations in elderly trauma victims, Advanced Trauma Life Support (ATLS), July 2017, JPNATC, AIIMS, New Delhi
7. Fibreoptic bronchoscopy guided intubation: A tool for difficult airway management, 3rd Cadaveric Airway Workshop, 2017, JPNATC, AIIMS, New Delhi
8. Facet joint block: Considerations and tips, 2nd Cadaveric Pain Workshop, July 2017, JPNATC, AIIMS, New Delhi
9. Traumatic brain injury: Acute emergency management, *Course Director and Coordinator 2nd AIIMS Neurological Life Support (ANLS), October 2017, JPNATC, AIIMS, New Delhi
10. Pediatric TBI-Panelist, Pediatric Neurocare—Neurosciences Masterclass, 18-19 November 2017, Global Hospital, Chennai
11. Sodium and fluid management in surgical ICU patients, 1st Acute Critical Care Course, 29-30 December 2017, MGM Medical College, Jaipur, Rajasthan
12. ICP monitoring, ISNACC, 18-21 January 2018, Mumbai
13. Non neurological complications in neurotrauma patients in ICU at apex trauma centre: A prospective observational study, 34th Annual Academic Congress 2018, 27-30 January 2018, Colombo, Sri Lanka

Navdeep Sokhal

1. Musculoskeletal trauma, ATLS, 7 July 2017, JPNATC, New Delhi
2. Stellate ganglion block, Cadaveric Pain Conference, 28 July 2017, JPNATC, New Delhi
3. USG guided arterial line cannulation, AIIMS Neuroanesthesia Update, 8 October 2017, AIIMS, New Delhi
4. Percutaneous tracheostomy, Airway management Workshop: Cadaver Training and Research Facility, 17 December 2017, JPNATC, New Delhi
5. Infrascan: Hand held CT scan, AIIMS Neurological Life Support, 26 February 2018, JPNATC, New Delhi
6. Skill stations/Workshop conducted
 - a. Focused assessment sonography in trauma, ATLS, 6 July 2017, JPNATC, New Delhi
 - b. Musculoskeletal trauma assessment and management, ATLS, 7 July 2017, JPNATC, New Delhi
 - c. Stellate ganglion block, Cadaveric Pain Conference, 28 July 2017, JPNATC, New Delhi
 - d. Percutaneous tracheostomy live, Airway Management Workshop: Cadaver Training and Research Facility, 17 December 2017, JPNATC, New Delhi
 - e. Infrascan: Hand held CT scan, AIIMS Neurological Life Support, 26 February 2018, JPNATC, New Delhi

Charu Mahajan

1. Is anesthesia bad for newborn, Annual Conference of the Central Zone and UP Chapter of Indian Society of Anaesthesiologists held at KGMC, 1-3 September 2017, Lucknow
2. Cerebral microdialysis, Jaipur Society of Anesthesiology, Workshop on Neuro-monitoring, 24 September 2017, Jaipur
3. Neurological examination, Neuro-critical Care and Emergency Neurological Life Support Refresher and Certificate Course' organized by Indraprastha Apollo Hospitals, 17-19 November 2017, New Delhi
4. Subarachnoid haemorrhage, Neurocritical Care and Emergency Neurological Life Support Refresher and Certificate Course' organized by Indraprastha Apollo Hospitals, 17-19 November 2017, New Delhi
5. Cerebral microdialysis, Neurocritical Care and Emergency Neurological Life Support Refresher and Certificate Course' organized by Indraprastha Apollo Hospitals, 17-19 November 2017, New Delhi
6. PBLD on SAH, ISNACC 2018, held at Mumbai, 19-21 January 2018, Mumbai

Indu Kapoor

1. Transcranial doppler monitoring, Jaipur Society of Anesthesiology Workshop on Neuro-monitoring, 2017, Jaipur
2. Basics of neuropharmacology in neurocritical care, Neuro-critical Care and Emergency Neurological Life Support Refresher and Certificate Course' organized by Indraprastha Apollo Hospitals, 2017, New Delhi
3. Spinal cord injury, Neurocritical Care and Emergency Neurological Life Support Refresher and Certificate Course' organized by Indraprastha Apollo Hospitals, 2017, New Delhi
4. Cerebral oximetry, Neurocritical Care and Emergency Neurological Life Support Refresher and Certificate Course' organized by Indraprastha Apollo Hospitals, 2017, New Delhi
5. Traumatic brain injury, Post Graduates Assembly Conducted by GB Pant and Lok Nayak Hospital, 2018, New Delhi

Surya Kumar Dube

1. Donor screening and optimization, In Service Training Course of Resident Doctors on Deceased Organ and Tissue Donation organized by ORBO, AIIMS, New Delhi, 19 April and 17 May 2017. 13 February and 20 March 2018, AIIMS, New Delhi
2. Current evidence for the percutaneous interventions for trigeminal neuralgia, 6th International Conference on Pain Management, 9 September 2017, Dona Paula, Goa
3. Double lumen tube, AIIMS Cadaveric Airway Workshop, 17 December 2017, JPNATC, AIIMS, New Delhi
4. Needle stick injury, Workshops on Hospital Infection Control and Prevention, 15 March 2018, AIIMS, New Delhi
5. Catheter associated blood stream infection, Workshops on Quality Care and Infection Control Strategies, 16 March 2018, AIIMS, New Delhi
6. Ventilator associated pneumonia, Workshops on Quality Care and Infection Control Strategies, 16 March 2018, AIIMS, New Delhi

Varun Jain

1. Live Workshop—Moderator, AIIMS Neuroanaesthesia Update 2017, 6 October 2017, Delhi
2. Quiz competition moderator, AIIMS Neuroanaesthesia Update 2017, 6 October 2017, Delhi
3. Interactive case discussion—Moderator, AIIMS Neuroanaesthesia Update 2017, 6 October 2017, Delhi
4. Status epilepticus, 2nd AIIMS Neurological Life Support, 8 October 2017, Delhi
5. Status epilepticus, 3rd AIIMS Neurological Life Support, 26 February 2018, Delhi

Oral papers/posters presented

1. Agarwal S, Sokhal N, Goyal N, Bindra A. Partial seizures: A paradox in acute phenytoin toxicity. AIIMS Neuroanaesthesia Update, 8 October 2017, AIIMS, New Delhi
2. Barkha B, Singh GP, Chaturvedi A. A comparison of three different techniques of percutaneous tracheostomy (PCT): Landmark technique vs fiberoptic bronchoscopic (FOB) guided vs real time ultrasound guided (USG), AIIMS Neuroanaesthesia Update 2017, 5-7 October 2017, AIIMS, New Delhi
3. Barkha B, Singh GP, Pandia MP, Kumar A. Indicators of clinical outcome in patients of diffuse axonal injury—A retrospective analysis, AIIMS Neuroanaesthesia Update 2017, 5-7 October 2017, AIIMS, New Delhi
4. Bindu B, Bindra A, Rath GP, Prabhakar H, Kulkarni SS, Kumar S. Practical issues in anaesthesia—A nationwide survey in India, Annual Scientific Meeting of Neuroanaesthesia and Neurocritical Care Society of Great Britain and Ireland (NACCSGIBI), 2017, Institute of Electrical Engineers, London, UK
5. Bindu B, Bindra A, Rath GP, Prabhakar H, Kulkarni SS, Kumar S. Practical issues in anaesthesia: A nationwide survey in India, Annual Scientific Meeting of Neuroanaesthesia and Critical Care Society of Great Britain and Ireland, 18-19 May 2017, London
6. Bindu B, Kaushal A, Prabhakar H, Chaturvedi A. Neuroprotective role of dexmedetomidine in epilepsy surgery: A preliminary study, Annual Scientific Meeting of Neuroanaesthesia and Critical Care Society of Great Britain and Ireland, 18-19 May 2017, London
7. Bindu B, Pandia M, Singh G. Nitrous oxide anesthesia on length of ICU and hospital stay in patients undergoing cerebellopontine tumour surgery: A randomized controlled trial, 45th Annual Meeting of the Society for Neuroscience in Anesthesiology and Critical Care, Boston, 19-20 October 2017, Boston, USA
8. Bindu B, Pandia MP, Singh GP. The effect of sevoflurane-air versus sevoflurane-nitrous oxide anaesthesia on length of ICU and hospital stay in patients undergoing cerebellopontine tumour surgery—A randomised controlled trial, 45th Annual Meeting of SNACC Westin Waterfront, 19-20 October 2017, Boston, Massachusetts, USA

9. Dhanda A, Dhakal R, Bindra A, Singh GP, Rath GP, Gupta D, Mathur P. Pediatric traumatic brain injury: Neurointensive care management in a tertiary care trauma centre, 5th Congress of Asian Society for Neuroanesthesia and Critical Care, 17-19 August 2017, Singapore
10. Dhanda A, Dhakal R, Bindra A, Singh GP, Rath GP, Gupta D, Mathur P. Pediatric traumatic brain injury: Neuro-intensive care management in a tertiary care trauma centre, 5th Congress of Asian Society for Neuroanesthesia and Critical Care, 17-19 August 2017, Singapore
11. Dube SK, Rath GP. Anaesthetic management for tetralogy of fallot with cerebral abscess: Our institutional experience, 14th Conference of Asian Society of Pediatric Anesthesiologists, 3 June 2017, Mumbai, Maharashtra
12. Goyal K, Hazarika A, Sokhal N, Bindra A, Kumar N, Rath GP, Bithal P. Non neurological complications in neurotrauma patients in ICU at apex trauma centre: A prospective observational study, 34th Annual Academic Congress of College of Anaesthesiologists 2018, 27-30 January 2018, Colombo, Sri Lanka
13. Goyal K, Hazarika A, Sokhal N, Bindra A, Kumar N, Rath GP. Assessment of non neurological complications in traumatic brain injury patients admitted in neuro intensive care unit: A prospective observational study, 34th Annual Academic Congress of the College of Anaesthesiologists and Intensivists, 27 and 28 January 2018, Colombo, Sri Lanka
14. Goyal K, Khandelwal A, Hazarika A, Sokhal N, Bindra A, Kumar N, Rath GP, Bithal P. Non-neurosurgical complications in traumatic neurosurgical ICU patients: A prospective observational study, 34th Annual Scientific Congress of College of Anaesthesiologists and Intensivists of Sri Lanka, January 26-28, 2018, Colombo, Sri Lanka
15. Goyal K, Tomar GS, Hazarika A, Sokhal N, Bindra A, et al. Assesment of non-neurological complications in traumatic neurosurgical patients admitted in ICU: A prospective observational study, Annual Scientific Meeting of Neuroanaesthesia and Critical Care Society of Great Britain and Ireland, 18-19 May 2017, London
16. Goyal K, Tomar GS, Soni KD, Agarwal R, Singh GP, Parbhakar H, Chaturvedi A. Prognostic value of serially estimated serum procalcitonin levels in traumatic brain injury patients with or without extra cranial injury—A longitudinal observational study, AIIMS Neuroanaesthesia Update 2017, 5-7 October 2017, AIIMS, New Delhi
17. Jain V, Sapra H. Systemic Intravenous thrombolysis for massive pulmonary embolism after intracranial surgery for traumatic brain injury, AIIMS Neuroanaesthesia Update 2017, 6-7 October 2017, Delhi
18. Kaushal A, Bindra A, Kumar N, Goyal K, Rath GP. Evaluation of prognostic factors of outcom in severe traumatic brain injury patients following decompressive craniectomy, Annual Neurocritical Care Update (ANCU), April 2017, Artemis Hospital, Gurgaon
19. Khandelwal A, Chauhan V, Singh GP, Rath GP. A retrospective analysis of perioperative factors affecting outcome in children with cervical spine injury, 19th Annual Conference of Indian Society of Neuroanaesthesiology and Critical Care (ISNACC 2018), 19-21 January 2018, Mumbai, India
20. Khandelwal A, Kapoor I, Mahajan C, Prabhakar H. Effect of positive end-expiratory pressure on optic nerve sheath diameter in pediatric patients with traumatic brain injury, Neuroanesthesia Update 2017, 2017, Delhi
21. Khandelwal A, Singh GP, Chaturvedi A. A report of two cases of intraparenchymal haemorrhage following infant feeding tube guided evacuation of chronic subdural haematoma, AIIMS Neuroanaesthesia Update 2017, 5-7 October 2017, AIIMS, New Delhi
22. Kumar N, Pal GP, Goyal K, Sokhal N, Bindra A. Incidence of posterior vessel wall punctures during ultrasound guided vascular access: Short axis vs long axis, NZ Anaesthesia ASM 2017, 9 November 2017, Energy Events Center, Rotorua, New Zealand
23. Netam RK, Bir M, Gupta U, Patel SK, Singh A, Mehta N, Rath GP, Kale SK, Singh MM, Chandra PS, Jaryal AK. Intraoperative elicitation of D wave and TcMEP in patients with preoperative neurological deficits undergoing spine surgeries, 2nd Indian Course on Intra-operative Neurophysiology, 22-24 February 2018, Park Clinic, Kolkata, India
24. Pandia M, Chouhan V, Kumar N, Sokhal N. Comparison of three anaesthetic techniques on emergence and recovery profile in patients undergoing supratentorial craniotomy, New Zealand Anaesthesia Annual Scientific Meeting 2017, 8-11 November 2017, Energy Events Centre, Rotorua, New Zealand
25. Pandia MP, Chauhan V, Kumar N, Sokhal NK. Comparison of three anaesthetic techniques on emergence and recovery profile in patients undergoing supratentorial craniotomy, New Zealand Anaesthesia ASM, 8-11 November 2017, Rotorua, New Zealand
26. Singh A, Bir M, Gupta U, Patel SK, Netam RK, Mehta N, Rath GP, Kale SK, Singh MM, Tandon V, Jaryal AK. Comparison of high frequency monopolar and bipolar direct cortical stimulation protocols for motor mapping during neurosurgeries, 2nd Indian Course on Intra-operative Neurophysiology, 22-24 February 2018, Park Clinic, Kolkata, India
27. Sokhal N, Sokhal S, Mishra RK, Rath GP, Kumar N. Giant intracranial aneurysm surgery: Factors affecting outcome, New Zealand Anaesthesia Annual Scientific Meeting 2017, 8-11 November 2017, Energy Events Centre, Rotorua, New Zealand

28. Sokhal N, Sokhal S, Mishra RK, Rath GP. Perioperative management of giant intracranial aneurysms: A clinical report of 19 cases, NZ Anaesthesia ASM 2017, 9 November 2017, Energy Events Center, Rotorua, New Zealand
29. Sokhal S, Biswal P, Goyal K, Sokhal N. Iatrogenic seizures during intra-operative trans-cranial motor evoked potential monitoring: A case report. AIIMS Neuroanesthesia Update, 8 October 2017, AIIMS, New Delhi

Funded projects

Ongoing

1. Assessment of accuracy of continuous non-invasive versus invasive method of hemoglobin estimation in patients undergoing pituitary surgery Indu Kapoor, AIIMS, 1 year, 2016-, Rs 4,81,600
2. Assessment of Cerebral Autoregulation using NIRS in severe traumatic brain injury patients, Keshav Goyal, AIIMS, 2 years, January 2016-2018, 5 lakhs + 5 lakhs
3. Assessment of effect of cerebral perfusion pressure augmentation in severe head injuries by monitoring of regional energy metabolism by cerebral microdialysis, Ashish Bindra, AIIMS Intramural, 2 years, 2016-2018, Rs 4.95 lakhs
4. Comparing the use of needle guidance versus free hand technique in performing ultrasound guided central venous cannulation: A prospective randomized trial, Niraj Kumar, AIIMS, 1 year, 2016-2017, Rs 4,60,000
5. Comparison of Fiber-optic Endotracheal Intubation with and without the use of air-Q as a conduit in patients with cervical spine injury: A pilot Study, Gyaninder Pal Singh, AIIMS, New Delhi (Intramural Grant), 3 years, 2015-2018, Rs 2 lakhs and 16 thousands
6. Comparison of fibreoptic endotracheal intubation with and without the use of air-Q as a conduit in patients with cervical spine injury: A pilot study, Gyaninder Pal Singh, Research section AIIMS, 2 years, 2015-2017, Rs 2,16,000
7. Effect of Decompressive Craniectomy on Jugular Venous Oximetry in Patients with Severe Traumatic Brain Injury, Navdeep Sokhal, Intramural, 2 years, 2016-17, Rs 2.5 lakhs
8. Effect of magnesium and lignocaine on postcraniotomy pain: A comparative, randomised, double-blinded, placebo-controlled study Charu Mahajan, AIIMS, 2 years, 2015-, Rs 75,000
9. Study of muscle enzyme elevation in neurosurgery and its relevance in post operative acute kidney injury: A pilot study, Surya Kumar Dube, AIIMS, New Delhi (Intramural Grant), 1 year, 2018-2019, 2 lakhs 57 thousands
10. Use of indirect calorimetry to assess outcome in stroke patients: A comparison of standard versus weight-based formula, Girija Prasad Rath (PI), GE Health Care Pvt Ltd, 2 years, 2016-2018, Nil, (Equipment)
11. Use of indirect calorimetry to assess outcome in stroke patients: A comparison with standard weight-based formula, Girija Prasad Rath, 2 years, 2016-2018

Departmental projects

Ongoing

1. A comparison of two non-invasive methods for intraoperative estimation of cardiac output in neurosurgical patients under general anaesthesia
2. Anesthetic management in patients with Tetralogy of Fallot (TOF) with cerebral abscess: A retrospective study
3. Assessment of airway in patients with acromegaly undergoing surgery: Predicting successful tracheal intubation
4. Cardiovascular complications after traumatic spinal cord injury
5. Comparison of Propofol and Ketofol on Transcranial motor evoked potential in patients undergoing Thoracolumbar spine surgery
6. Comparison of C-MAC video-laryngoscope with D-Blade, C-MAC video-laryngoscope with standard blade, and Macintosh Laryngoscopes for intubation with cervical spine immobilization: A randomized study
7. Comparison of fibreoptic endotracheal intubation with and without the use of air-Q as a conduit in patients with cervical spine injury: A pilot study
8. Comparison of propofol versus sevoflurane anaesthesia in subarachnoid haemorrhage patients undergoing clipping for aneurysm
9. Correlation between invasive and non-invasive technique of ICP measurement in children with traumatic brain injury: An observational study
10. Effect of decompressive craniectomy on Jugular Venous Oximetry (SJVO2) in patients with severe Traumatic Brain Injury (TBI)—Funded by AIIMS, Rs 5 lakhs
11. Effect of dexmedetomidine on dynamic cerebral autoregulation in patients with supratentorial tumors under sevoflurane anesthesia

12. Effect of dexmedetomidine on dynamic cerebral autoregulation in patients with supratentorial tumors under sevoflurane anesthesia
13. Effect of Neuroradiologic interventions on regional cerebral oxygenation in patients with anterior circulation aneurysms: An observational study
14. Effect of two anaesthetic regimes with dexmedetomidine as adjuvant on transcranial electrical motor evoked potentials during spine surgery: A pilot study
15. Evaluation of effect of intravenous dexmedetomidine on intraoperative blood loss during intracranial meningioma surgery: A randomized controlled study
16. Evaluation of effects of intraoperative dexmed etomidine on intraoperative blood loss during intracranial meningioma surgery
17. Evaluation of intratracheal lignocaine as compared to normal saline to reduce emergence reactions in the patients undergoing endoscopic transphenoidal pituitary surgery: A double blind randomized controlled trial
18. Intraoperative use of dexmedetomidine in large vascular Meningiomas
19. Measurement of neutrophil gelatinase associated lipocalin (N-GAL) for contrast-induced nephropathy/acute kidney injury following neuroradiological procedure/s in patients with aneurysmal subarachnoid hemorrhage: A preliminary study.
20. Randomized trial comparing two techniques of fiberoptic orotracheal intubation under general anaesthesia: Fiberoptic intubation with and without the use of air—Q intubating laryngeal airway
21. Serum lactate, base deficit and glucose levels as prognostic markers of severe traumatic brain injury
22. Serum lactate, base deficit and glucose levels as prognostic markers of acute brain injury
23. The effect of anaesthetic exposure in presurgical period on delayed cerebral ischemia, and neurological outcome in patients with aneurysmal subarachnoid haemorrhage undergoing clipping of aneurysm—A prospective observational study
24. The effect on dexmedetomidine on ECoG in patients undergoing epilepsy surgery under desflurane anesthesia
25. To compare the effect of goal directed fluid therapy versus standard fluid regimen on the cuff leak volume in patients undergoing spine surgery.
26. To compare the effects of dexmedetomidine and Lignocaine on intracranial and systemic pressure dynamics after chest physiotherapy and tracheal suctioning in patients with severe traumatic brain injury. A randomized, blinded pilot study
27. To study the effect of Goal Directed Therapy (GDT) based fluid regimen on the cuff leak volume in patients undergoing thoracic, lumbar and thoraco-lumbar spinal surgery
28. To study the risk factors and causes of extubation failure in head injury patients
29. Use of intratracheal lignocaine to reduce emergence reaction in the patients undergoing endoscopic transphenoidal pituitary surgery: A randomized controlled study

Completed

1. A comparison of the effectiveness of dexmedetomidine versus propofol infusion for sedation during awake craniotomy
2. A comparison of two non-invasive methods for intraoperative estimation of cardiac output in neurosurgical patients under general anaesthesia
3. A randomized controlled trial to compare the effect of sevoflurane/nitrous oxide versus sevoflurane/air in patients undergoing cerebellopontine angle tumour surgery
4. An Optic Nerve Sheath Diameter (ONSD) response to End Tidal Carbon Dioxide [EtCo₂] concentration in patients under general anesthesia: A randomized controlled pilot study
5. Comparison of full outline of unresponsiveness [FOUR] score and conventional scores in predicting outcome in aneurysmal subarachnoid hemorrhage
6. Comparison of intraoperative complications and neurological outcomes in patient undergoing awake craniotomy with or without intraoperative MRI-guided resection of brain lesion: Our institutional experience
7. Comparison of three anaesthetic techniques on emergence and recovery profile in patients undergoing supratentorial craniotomy
8. Early and rapid detection of ubiquitin C-terminal hydrolase-1 in serum of brain trauma patients using citrate-capped gold nanoparticles: A novel technique for diagnosing severity of brain injury

9. Effect of goal directed intraoperative fluid therapy on hospital stay in patients undergoing excision of large intracranial tumours
10. Effect of nitrous oxide on Bispectral Index values at equi-MAC concentrations of sevoflurane and desflurane
11. Effect of Peak End Expiratory Pressure [PEEP] on Optic Nerve Sheath Diameter [ONSD] in pediatric patients with traumatic brain injury
12. Indicators of clinical outcome in patients of diffuse axonal injury—A retrospective analysis
13. Perioperative management of pediatric brain tumors: A retrospective analysis
14. To compare the effects of dexmedetomidine and lignocaine on intracranial and systemic pressure dynamics after chest physiotherapy and tracheal suctioning in patients with severe traumatic brain injury. A randomized, blinded pilot study

Collaborative projects

Ongoing

1. A week in neurocritical care unit: Point prevalence observational study in Neurocritical care: PRINCE Study. July 2014. (IEC/NP-190/2014 RP-03/2014)
2. An evaluation of diaphragmatic movement by M-mode sonography as a predictor of successful extubation during routine surgical procedures. Anesthesia, Radiodiagnosis, Baylor College of Medicine, Houston, Texas
3. Cardiovascular complications after traumatic spinal cord injury. Neurosurgery
4. Comparison of C-MAC video-laryngoscope with D-Blade, C-MAC video-laryngoscope with standard blade, and Macintosh Laryngoscopes for intubation with cervical spine immobilization: A randomized study, Neuroanesthesia
5. Effect of Lidocaine infusion on hemodynamics and recovery in patients undergoing endoscopic pituitary surgery: A multicentre, randomized control trial. Anaesthesiology, Health Sciences Centre, University of Manitoba, Winnipeg, Canada
6. Effect of two anaesthetic regimes with dexmedetomidine as adjuvant on transcranial electrical motor evoked potentials during spine surgery: A pilot study. Physiology
7. Prospective study on the effectiveness of chlorhexidine gluconate impregnated patch (BIOPATCH R) in reducing the incidence of central line associated blood stream infection (CLABSI). Microbiology, JPNATC, AIIMS
8. Surveillance of blood stream infections (BSI) at a referral Indian hospital. Microbiology, JPNTC, AIIMS

PUBLICATIONS

Journals: 48 Abstracts: 19 Chapters in Books: 8 Books: 4

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor Arvind Chatuvedi was selected Reviewer of American Journal of Cardiovascular Drugs; Reviewer of Sultan Quaboos University Medical Journal (SQUMJ), Oman; Chaired Prestigious Professor Gode's Oration in Annual Meeting of ISNACC at Mumbai in January 2018; Continued as Executive Council Member of ISNACC.

Professor M.P. Pandia led the team for neuroanesthesia and intensive care for the successful completion of first case of craniopagus surgery in India where both the kids survived.

Professor R.S. Chouhan won 1st Prize for poster entitled "Successful management of life threatening airway obstruction caused by rapidly enlarging giant dissecting pseudoaneurysm of carotid artery" at the TMC (Tata Memorial Centre) National Conference on "The Difficult Airway" held on 2 December 2017 at Tata Memorial Institute, Mumbai.

Professor Girija Prasad Rath organized the "AIIMS TCD Workshop", in collaboration with faculty from the University of Washington, Seattle, USA. Actively contributed for the 'AIIMS Neuroanaesthesia Update 2017' as Member of Organizing Scientific Committee; Nominated as Member of Communications Committee of Society for Neuroscience in Anesthesiology and Critical Care (SNACC, USA); also nominated as Assistant Editor, SNACC Newsletters; continued to hold the post of Executive Editor, Journal of Neuroanaesthesiology and Critical Care (JNACC), Editorial Board Member of Indian Journal of Anaesthesia (IJA), Northern Journal of ISA (NJISA), The Indian Anaesthesists' Forum, and World Journal of Anaesthesiology (WJA), Associate Editor of Indian Journal of Clinical Anaesthesia (IJCA), and Web Editor, Indian Society of Neuroanaesthesiology and Critical Care (ISNACC); continued to serve as the International Advisory Board Member of Anesthesia Essays and Researches (AER) and Anesthesiology and Pain Medicine (AAPM), and peer-reviewer of reputed international journals such as Minerva Anesthesiologica, Journal of Neurosurgical Anesthesiology, Neurocritical Care, and Journal of Clinical Anesthesia; continued to be involved (Core faculty) in the in-service training programme (organized by ORBO, AIIMS) of nurses and resident doctors for deceased organ and tissue donation; Invited speaker for the international scientific events such as Neuroanaesthesia Symposium (NAS 2017) and Sarawak Ultrasound for Neurosurgery (SUN 2018)

at Kuching, Sarawak, Malaysia; and Scientific Meeting of Asian Society for Neuroanesthesia and Critical Care (ASNACC 2017) at Singapore; Felicitated by the Director, AIIMS, New Delhi for contributing to the perioperative management of first successful craniopagus (twins) separation surgery in India.

Ashish Bindra conducted Cadaveric Interventional Pain Management Workshop on 28 July 2017 at Cadaveric Training and Research Facility, JPNA Trauma Centre, New Delhi.

Niraj Kumar was Instructor (Faculty) of—ATLS, ANLS, AIIMS—EM-SONO, AUTLS Courses; Course director of Cadaveric Airway Management Course—(17 October 2017) at JPNATC, New Delhi.

Keshav Goyal was visited Neurological intensive care as an observer to Cleveland Clinic, Ohio, USA from March 2018; Member of core Faculties of AIIMS Advanced Life Care Support (ACLS); Introductory course in September 2015 at JPNATC, New Delhi; Course director of 2nd and 3rd AIIMS Neurological Life Support (ANLS) October 2017 and March 2018 at JPNATC, New Delhi; Received Independent Expert status to certify brain stem death at AIIMS (ORBO/CNC/2016/4878/3 August 2016); Executive member of organizing committee of AIIMS Neuroanaesthesia update 2017; 2nd and 3rd Cadaveric difficult airway workshop; 2nd Cadaveric chronic pain workshop; 2nd (7-8 October) and 3rd (25-26 January), AIIMS Neurological Life Support (ANLS): Course Director and Coordinator; Neuromonitoring workshop during ANTC 2017.

Navdeep Sokhal successfully conducted Cadaveric pain workshop as a workshop co-ordinator on 28 July 2017.

Surya Kumar Dube successfully completed the course and became instructor for AHA ACC BLS/ACLS Course; Awarded as “Hand Hygiene Champion” for appropriate performance and maximal adherence to hand hygiene practice during patient care amongst all the faculties at JPNATC, AIIMS, New Delhi.

Neurobiochemistry

HIGHLIGHTS

One master student and one PhD student pursuing their dissertation; introduced new diagnostic test BRCA screening (3 founder mutation) in diagnostic division; in-patient diagnostic and patient-care services have been improved in Division of Neurobiochemistry; participated as a content provider for Biophysics subject in ePG-Pathshala, an MHRD, National Mission on Education through ICT (NME-ICT) venture to develop e-content at postgraduate level that will help to improve the education system in India; working as a coordinator for National Cancer Institute-India, Jhajjar Campus, AIIMS, with Professor G.K. Rath; participating as an expert member of National Institute of Neurosciences at Jhajjar Campus, AIIMS.

EDUCATION

Theory as well as practical classes for: MBBS; MSc; MD; MSc (Biotechnology); Paramedical teaching.

CMEs/Workshops/Symposia/National and International Conferences:

None

Lectures delivered

Ashok Sharma

1. Developing the Cancer Testis/Germline based Prognostic and Diagnostic Biomarker and Cyber Infrastructure for Early Detection of India Centric Cancer, EDRN Opportunities, Priorities and Collaboration 10th EDRN Scientific Workshop, 6-8 March 2018, Bethesda, USA
2. Epigenetic alterations and Cancer Testis/Germline POTE antigen activation in Epithelial Ovarian Cancer, Symposium on Accelerating Biology 2018: Digitizing Life, 9-11 January 2018, Centre for Development of Advanced Computing (C-DAC), University of Pune
3. Epigenetics and Cancer, Guest lectures, 26 April 2017, The Translational Health Science and Technology Institute (THSTI), Gurgaon, Haryana
4. Genome-Wide DNA Methylation and Genomic Instability Profiling and Evaluating Its Potential as a Biomarker and Immunotherapeutic Target for Ovarian Cancer, 7th Ramalingaswami Conclave, 29-31 August 2017, Institute of Bioresources and Sustainable Development (IBSD), Imphal, Manipur
5. Indian Health Policies (Participate in public discussion), Healthcare Conclave, 14 November 2017, New Delhi
6. Introduction to Epigenetics (Plenary Lectures), Department of Biochemistry, Fest-Biospark 2017, 25 October 2017, Deshbandhu College, Delhi

Oral papers/posters presented:

None

RESEARCH**Funded projects****Ongoing**

1. Genome-Wide DNA Methylation and Genomic Instability Profiling and Evaluating Its Potential as a Biomarker and Immunotherapeutic Target for Ovarian Cancer. Ashok Sharma, DBT-Ramalingaswami Project, 5 years, 2015-2020, Rs 32,50,000/-
2. Nuclear Architecture as an Epigenetic Regulator in Pericentromeric localized Cancer-Testis/Germline Antigen POTE Expression in Ovarian Cancer. Ashok Sharma, Department of Science and Technology, Ministry of Science and Technology, 3 years, 2017-2020, Rs 55 lakhs
3. Estimate the Serum Levels of Cancer-Testis Antigen POTE as a Biomarker in Epithelial Ovarian Cancer, Dr Ashok Sharma, AIIMS Intramural Grant, 2 years, 2016-2018, Rs 10 lakhs

Completed

None

Departmental projects**Ongoing**

1. Cloning and Functional analysis of Cancer Testis Antigen POTE in Epithelial Ovarian Cancer
2. Functional Characterization, Expression, and Clinical Significance of Cancer-Testis/Germline Antigen POTE in Ovarian Cancer

Completed

1. Effect of DNA Methylation in Expression of Cancer-Testis/Germline Gene POTE in Ovarian Cancer
2. DNA Methylation Effect on POTE Expression in Epithelial Ovarian Cancer

Collaborative projects**Ongoing**

1. Role of PARP1 and γ -Glutamylcysteine Synthetase Inhibitor in Cisplatin Sensitivity and Correlation With DNA Methylation in Ovarian Cancer. IRCH, AIIMS
2. Impact of Yoga and Meditation on Epigenetic Profile in Rheumatoid Arthritis. Anatomy
3. The Role of Leukotriene A₄ hydrolase gene Polymorphism and Clinical outcome correlate in Corticosteroids treated Tubercular Meningitis Patients. Neurology
4. One carbon metabolism and cognitive impairment in older Indians. Geriatric Medicine
5. Estimation of novel proteins among older subjects as biomarker for cognitive impairment. Geriatric Medicine

Completed

1. Role of Peroxisome Proliferator Activated Receptor Alpha (Ppar Alpha) In Trophoblast Invasion. Biochemistry

PUBLICATIONS

None

List of chapters in books

None

PATIENT CARE

The Division of Neurobiochemistry was established to provide the best possible diagnosis of their patients' disorders. Division is playing a key role in development of the super specialty in Neuroscience and provides the facility for patient care by performing specialized diagnostic tests, and keeps on looking to add on the latest ones. Our clinical laboratory is one of the best labs in AIIMS, and is equipped with the latest equipments like fully automated analysers for Biochemistry, Molecular-Genetic assays, Hormone Assays, Therapeutic Drug Monitoring, Autoimmunity Panel, Haematology, Coagulation Studies and Sanger Sequencer. The Neurobiochemistry laboratory caters to the inpatients and outpatients of Neurosciences center as well as other departments of AIIMS. The laboratory does blood collection and testing in the area of clinical chemistry, hematology, coagulation, hormones, ELISA for catecholamine, immunoassays and glycosylated hemoglobin along with

specialized diagnostic tests need for neurological disorder patients. The laboratory participates in external quality assurance program for quality assured analytical processes. The numbers of diagnostic test performed in 2017-18 are enclosed as:

Annual Diagnostic Test statement

Hormones

S. No	Description	No. Test
1	T3	9,000
2	T4	9,000
3	TSH	10,800
4	Prolactin	1,800
5	Cortisol	1,500
6	LH	1,200
7	FSH	1,200

Drugs

S. No	Description	No. Test
1	Phenytoin	1,500
2	Valporate	1,680
3	Phenobarbitone	300
4	Carbamazepine	1,200

A. Specialized Test

S. No	Description	No. Test
1	Vit B12	4,800
2.	VITD	3,630
2	Folate	3,000
3	Homocysteine	1,800
4	Ferritin	1,200
5	Ceruloplasmin	280
6	Serum Copper	240
7	Urine Copper	200
8	ACHR	180
9	OCB	250
10	NEURONAL ANTIGEN PROFILE	180
11	GNAGLIOSIDE PROFILE	96
12	Catecholamines	120
13	VMA	428
14	HBAIC	8318
15	NMO	576
16	TPMT assay	96

B. Genetic Test-DX3500 Sequencer**

S.No	Description	No.Test
1	SCA, MND-ALS,CAH,	160
2	MND, Stroke, AML	456
3	BRCA Profiling (3 Founder Mutations)	20

**MLPA based neurological disorder gene panel and Cancer biomarker diagnostic are under process will be start soon.

PROJECT

S. NO	Description	No.Test
1	Vit B12	7500
2	Ferritin	7500
3	Folate	7500
4	Vit D	9000

Community services/camps etc: Not Applicable

AWARDS, HONOURS AND SIGNIFICANT EVENTS

1. The Best Scientific Advisor Award in national workshop on Platelet Activity held on 11 November 2017 at VRLS Board Room, AIIMS, New Delhi
2. Life member of Indian Immunology Society (2018)
3. Life member of Indian DNA Society (2018)
4. Participating as a content provider for Biophysics subject in ePG-Pathshala, an MHRD, National Mission on Education through ICT (NME-ICT) venture
5. Chair the Session, National workshop on Platelet Activity, 11 November 2017, VRLS Board Room, AIIMS, New Delhi

VISITING SCIENTIST

None

Clinical Neuro-Psychology

HIGHLIGHTS

Clinical Neuropsychology (CNP), Neurosciences Center, got national and international recognition. All of this has been possible with the support of team comprising of esteemed seniors, colleagues and students of AIIMS. Work done at CNP on Neuro-Cognitive Rehabilitation Packages for Neurological Conditions-RCT for Use—PAN India received nomination for BMJ Awards: South Asia, 2017. The enthusiasm and willingness of the students have played a major part in delivering 'standard of care'. Outcome from such a service led to multiple awards by the students of Clinical Neuropsychology (10 awards and some of them were international). Recently, the first student of CNP (had public PhD defense on 10 April 2018) has got admission for fellowship program abroad and second student has been offered a fellowship abroad. This shows that there is international recognition for our (team) work. CNP also participated in projects; published papers in international and national journals; edited Psychology Core section in book entitled 'Essentials of Neurointensive Care' by the Oxford University; wrote book chapters for international and national books; presented at Workshops and Symposiums etc. The faculty had an honor to be invited as a Chairperson at Conferences and present as an invited speaker in this conference and many more. Talks were organized as a part of Lecture series on Psychological Sciences by eminent international and national speakers.

EDUCATION

- Undergraduate Teaching/BSc (Assigned and Taken Classes 6) (Hons. 1st year/Post Certificate 1st year) Nursing: 6
 - o BSc (Hons./Post Certificate) Nursing
 - o Post Certificate 1st year
- Post Graduate Teaching
 - o Clinical teaching/tutorials (about 12-16 hours/week)
 - o Short Term Training (Clinical Neuro Psychology): AIIMS: 11

Lectures delivered

1. Bariatric Surgery: Why Do We Need a Psychologist? 2nd International Conference of Foundation for Obesity Research and Metabolic: 2 December 2017 Ramalingaswami Board Room, AIIMS, New Delhi, India
2. Clinico-technology confluence—A future vision of neuropsychology-IACP Supporting Organization Symposium (IFNR-IV), 10th World Congress of Neurorehabilitation, 8 February 2018, Mumbai, India
3. Experience of Concussion Screening in Mild TBI (mTBI) Patients on Admission in a Level I Trauma Centre in Northern India, 4th AIIMS Annual Neurotrauma Conference, 26-29 October 2017, All India Institute of Medical Sciences, New Delhi,

4. Home based Intervention: Indian Scenario. Symposium of Neuropsychology: Entitled, “on Interprofessional Education and Practice in Neurorehabilitation on, ‘Cognitive Rehabilitation”, 5th Annual Conference of IFNRCON 2017, 31 March to 2 April 2017, Mumbai Education Trust (MET), Mumbai, India
5. Impact of Disability-Isolation and Loneliness on Mental Health, Workshop on Nursing update on Well Being in Work Place, February’18, Held at CMET, AIIMS, New Delhi
6. Managing Compassion Fatigue and Burnout, Workshop on Mental Health at Workplace on 5 and 6 March 2018, organized by 2nd Year MSc (Psychiatry) Nursing Students. 6 March 2018, Held at CMET (Education Hall), AIIMS, New Delhi
7. Neuroplasticity and Neuropsychological Rehabilitation: An AIIMS Experience Symposium Entitled: Neural Plasticity: WCMH: Organized by Cosmos Institute of Mental Health and Behavioural Sciences (CIMBS), 2 and 5 November 2017, New Delhi
8. Rehabilitation after Stroke: A Neuropsychologist’s Perspective Symposium Entitled: Recent Advances in Stroke Rehabilitation (WNF/IFNR)(WNF/IFNR): Organized by: World Non Communicable Diseases Federation (WNF), 5 November 2017, Day 2: (Morning Session): 10:30-11:15 Parallel Sessions), PGIMER, Chandigarh Hall 2, India

Oral papers/posters presented

1. Clinico-technology confluence—A future vision of neuropsychology-IACP, 10th World Congress of Neurorehabilitation, Day 2: 8 February, 2018, Mumbai, India
2. Development of Mental Stimulation Exercised Manual: Cognitive Training Program for Elderly, 75th Annual International Convention of Psychologists (ICP), 28-30 July 2017, New York, USA*
3. Development of Neuropsychological Evaluation Screening Tool (NEST): An Education free Cognitive Screening Instrument XXIII World Congress of Neurology (WCN 2017), 16-21 September 2017, Kyoto International Conference Center, Kyoto, Japan
4. Experience of Concussion Screening in Mild TBI (mTBI) Patients on Admission in a Level I Trauma Centre in Northern India, 4th AIIMS Annual Neurotrauma Conference, 26-29 October 2017, All India Institute of Medical Sciences, New Delhi, India
5. From Cognitive Screening to Scanning: Neuropsychology and Neuroimaging In Dementia Diagnosis, at Psychologists Conference, 28-30 July 2017, New York
6. Impact of Disability-Isolation and Loneliness on Mental Health, Workshop on Nursing update on Well Being in Work Place, 5 February, 2018, CMET, AIIMS, New Delhi, India
7. Neuroplasticity and Neuropsychological Rehabilitation: An AIIMS Experience WCMH: Organized by Cosmos Institute of Mental Health and Behavioural Sciences (CIMBS), 2 and 5 November 2017 New Delhi, India
8. Rehabilitation after Stroke: A Neuropsychologist’s Perspective, (WNF/IFNR): Organized by: World Non Communicable Diseases Federation (WNF), 5 November 2017, PGIMER, Chandigarh, India
9. Representation of Linguistic Rules in the Brain: Evidence from Comprehensive Neuropsychological Rehabilitation of Aphasia Patients, International Convention of Psychological Science (ICPS), 25 March 2018, Austria Center Vienna, Vienna, Austria
10. Role of Extended Practice Versus Strategy Training in Training the Untrained Abilities in Patients with Mild Dementia. Alzheimer’s Association International Conference, July 2017, London, England*
11. Using Functional MRI to Track Neuroplasticity after Cognitive Rehabilitation post Traumatic Brain Injury XXIII World Congress of Neurology (WCN 2017), 16-21 September 2017, Kyoto International Conference Center, Kyoto, Japan*

RESEARCH

Funded projects

Ongoing

None

Completed

- 1 Preclinical Predictors of progression of cognitive decline in MCI and AD Using a Multitasking paradigm. Ashima Nehra Wadhawan, Department of Science and Technology Project, 3 years, 2013-2017, Rs 37 lakhs

Departmental projects

Ongoing

- 1 Development of a Neurocognitive Remediation Package and Phase II Trial For Assessment of Its Efficacy In Cognitive Functions Among Patients With Schizophrenia

- 2 Development and Efficacy of Comprehensive Neuropsychological Rehabilitation for Improving Cognition and Quality Of Life in persons with Drug Refractory Epilepsy: A Randomized Controlled Clinical Trial

Completed

- 1 To Study The Effectiveness Of Cognitive Rehabilitation On Memory, Language, Attention And Quality Of Life In Patients With Mild Alzheimer Disease As Compared To Standard Pharmacological Treatment: A Randomized Controlled Clinical Trial
- 2 Development and Effectiveness of 'Holistic and Integrated Neuropsychological Rehabilitation' for improving Cognitive and Psychological Functioning in Patients with Mild and Moderate Traumatic Brain Injury: A Randomized Controlled Clinical Trial
- 3 Development and Effectiveness of 'Comprehensive Neuropsychological Rehabilitation' as an Adjunct to Standard Pharmacological Treatment for Improving Language and Quality Of Life in Patients with Post Stroke Aphasia: A Randomized Controlled Clinical Trial

Collaborative projects

Ongoing

1. A Cross sectional study to evaluate the correlation of Gross motor functions, Hand functions and Quality of life of family of children with cognition in Cerebral Palsy. PMR
2. A study to assess the lived in experiences of critically ill patients who were on mechanical ventilation in medical-surgical ICU. College of Nursing, Anesthesiology
3. Anti Stigma intervention for Indian Persons with Epilepsy. Neurology
4. Comparison of Bidirectional Superior Cavopulmonary Anastomosis with or without cardiopulmonary Bypass. CTVS, Cardio biochemistry
5. Correlation between Improved Cerebral Perfusion and Neurocognitive Changes following Surgical Revascularisation in Moya Moya Disease. NeuroSurgery, Neuroradiology
6. Effect of continuous positive airway pressure therapy on neurocognitive impairment in patients with moderate and severe obstructive sleep apnea. Medicine, NMR, Neuro Radiology, Psychiatry, Cardiac Biochemistry, Bio-Statistics
7. Effect of Short term Yoga based lifestyle intervention on cognition in obesity. Physiology
8. Efficacy, Safety and Tolerability of Modified Atkins Diet (MAD) in Adolescence and Adults with Drug Resistant Epilepsy: Randomized Controlled Trial. Neurology, Pediatrics
9. Evaluation of Impact of Laparoscopic Omega Loop Gastric Bypass (Mini Gastric Bypass) on Weight Loss, Comorbidities and Quality of Life in Super Obese. Surgical Disciplines, Gastroenterology, Anesthesiology
10. Is high-intensity statin use associated with memory impairment? A Prospective observational study. Cardiology, Neurology
11. Social Cognition in Drug Refractory Epilepsy and Effect of Epilepsy Surgery. Neurology
12. Study of cognitive function in patients with chronic kidney disease and the effect of renal transplantation. Nephrology, Physiology
13. Study to Evaluate The Feasibility of Response Adapted Whole Brain Radiotherapy After Methotrexate Based Chemotherapy In Patients of Newly Diagnosed Primary Cns Lymphoma. Radiation Oncology, Medical Oncology, Pathology, Biostatistics, Neurosurgery, Neuroradiology
14. To study the impact of Laparoscopic Mini Gastric By Pass (MGB) ON Weight Loss, Co-morbidities and quality of life in obese patients undergoing bariatric surgery: A Prospective and Retrospective Non Randomized Observational study. General Surgery

PUBLICATIONS

Journals: 6 Abstracts: 4 Chapters in Books: 6

PATIENT CARE

Clinical Neuropsychology is a specialized referral service which focuses on clinical application, including diagnostic formulation, assessment, cognitive retraining in brain functioning following brain attack/insult/injury. Psychological assessment includes neuropsychological assessment/evaluation including clinical diagnosis (as per the Gold Standards), comprehensive interview; behavioural observations, assessment with series of neuropsychological tests, interpretation, report writing neuropsychological formulation including General Intellect (hemispheric assessment), Cognition, Higher Level Executive Skills (e.g. problem solving, reasoning), Attention and Concentration, Memory and Learning, Motor and Sensory Skills, Perceptuo-motor Functioning/Visuo-spatial skills, Mood and Personality (Orbito Frontal Functions), Language/Aphasia Assessment. Neuropsychological retraining including basic function approach to improve the functional skills improving

basic pre-morbid functions of persons' daily life; neuropsychological reorganization including compensation for the deficit when deficient function can neither be reorganized nor restored, clinic based therapy; home based therapy. Community services/camps: Neuropsychological Rehabilitation, Vocational Guidance, Supportive Psychotherapy, Directive Counselling to the patients and family members which is an important aspect of patient care in terms of management of any neurological condition. All these services are covered under the specialized clinics of Neuropsychological Rehabilitation (NR) and Cognitive Disorders and Memory Clinic (CDandM).

Outpatient service (OPD): There are 4 Clinical Neuropsychology OPDs/week, with 3 registries:

1. Clinical Neuropsychology (CNP) Clinic:

a. Monday, Tuesday, Wednesday and Friday:

2. Specialized Clinics:

a. Tuesday: Neuropsychological Rehabilitation (NR) Clinic

Neuropsychological Rehabilitation	Cognitive Retraining/Restructuring
	Basics Skill Training
	Functional Re-training
	Speech and Language Rehabilitation
	Psychosocial Therapy
	Guidance and Counselling
	Individual Therapy
	Family Therapy
	Vocational Guidance
	Holistic/eclectic Approach Therapy (depending on the patient's needs)

b. Wednesday: Cognitive Disorders and Memory (CDM) Clinic

Cognitive Disorders and Memory Clinic	Memory Assessment
	Screening for Cognitive Decline
	Cognitive Rehabilitation for Dementia/Alzheimer's Dementia
	Cognitive Re-training for decline in Memory/Executive Functioning
	Management of Cognitive/Memory Disorders
	Identify and treat pseudo-dementia
	Education: Patients, carers, trainees, colleagues, and the general public.
	Family guidance
	Monitoring of progress and response to therapy

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Ashima Nehra has been Reviewer of Indian Journal of Physiology, Homeopathy research review, Industrial Psychiatry Journal; Invited as resource person by CSIR National Institute of Science, Technology and Development Studies (NISTADS); Member organizing Committee-WFNR; Reviewer Committee Project (BIRAC-CRS-DBT); Member of Institute's Ethics Committee, Institute of Home Economics, (University of Delhi), (2017-2019) (Part of 6 members team with the permission of the Director); Working as Executive Committee member, Indian Association of Clinical Psychologists (representing north zone); External Examiner, Delhi University; Prepared a comprehensive document on 'Policy Making in Education and Child Development' under the direction of advisor ministry of Health and Family Welfare; Chairperson in 'An overview of substance abuse among adolescents: A recent update about extent, management and policy framework,' Symposium 11-28 November 2017, CMET—Hall—B, AIIMS, New Delhi; Cognitive Neurology and Neuropsychology, 10th World Congress of Neurorehabilitation, Day 3-9 February 2018, Powai, Mumbai; 10th World Congress of Neurorehabilitation, Day 2-8 February 2018, Powai, Mumbai; Co-Chair: 10th World Congress of neurorehabilitation, Day 2-9 February 2018, Powai, Mumbai; Was nominated for BMJ Awards South Asia, 2017. Development of Neuro-Cognitive Rehabilitation Packages for Neurological Conditions using Randomized Trials for Use—PAN India, nominated for BMJ Awards South Asia, 2017.

Patents/Copyrights

1. Rehabilitation of Cognition Using Restorative Exercises and Activities Targeted For Elderly (RECREATE) Swati Bajpai and Ashima Nehra. Diary Number: 11397/2017-CO/L filed on 2 August 2017

2. Rehabilitation of Electric Cognitive Functioning Post Traumatic Brain Injury to Retrain and Restore Attention, Concentration, Memory And Functions (RETRACE) Sakshi Chopra and Ashima Nehra. Diary Number: 11400/2017-CO/L filed on 2 August 2017
3. “Rehabilitation of Everyday Language and Cognitive Functioning post Stroke for Aphasia Rehabilitation: An Indian Rehabilitation Program (REPAIR). Harsimar Preet Kaur and Ashima Nehra. Diary Number: 11402/2017-CO/L filed on 2 August 2017

VISITING SCIENTIST

1. Professor Salman Akhtar from Jefferson University Physician, USA
2. Professor C.R. Mukundan, Professor Emeritus at the Institute of Behavioral Sciences, Gujarat Forensic Sciences University

11.1. B.B. Dikshit Library

Professor In-Charge, Library Committee

S. Rajeshwari

Chief Librarian

S. Siva Chidambaram

HIGHLIGHTS

The B.B. Dikshit Library is the main library of AIIMS. It has a mission of providing the right information to the right reader at the right time. The library is open 24 × 7 (356 days) and it has more than 150,000 books and other documents such as bound journals, pamphlets, etc. It caters to around 4,000 regular members. An average of 300 readers visit the library everyday. The library is well equipped with modern facilities to support biomedical education and research. It subscribes/ receives and maintains about 1,495 periodicals/journals in online format and databases. It also subscribes to point-of-care databases such as *Up-to-date*, *BMJ Best Practice* and *Acland Anatomy*. It also has 199 E-Books. These online databases and E-journals can be accessed through IP enabled access on the campus. Few society-based journals can be accessed only through username and password. Necessary access information is disseminated through the library webpage: www.aiims.edu/en/library.html. During the year, the library started providing remote access facility to faculty members and academic resident doctors through the link: <http://elibraryaiimsdelhi.remotexs.in> to access E-resources even outside the campus and the country. Library has its own search engine called 'Single Point Search' web-scale discovery service to retrieve library subscribed electronic resources plus library holdings effectively and it acts as a tool for bibliographic management system for the doctors.

The Library Committee is an advisory body for management of the library. It advises the Chief Librarian regarding procurement of books and subscription of periodicals and databases. The present committee consists of the Professor In-charge as the Chairperson, 7 Professors, 1 Additional Professor, 2 Associate Professors and 1 Assistant Professor from various divisions as members, and the Chief Librarian as the Coordinator. The committee meets regularly.

The Library has an in-house information communication and management system comprising of 3 servers and 46 personal computers. The library uses *Libsys Premia* automation software system that supports data entry and retrieval of books and other documents. All documentation/bibliographic services as well as certain library operations have been computerized, using the integrated library management software. The circulation section of library is computerized through RFID smart card system and online issue return of books with automatic reminder systems through email. The library provides *Current Awareness Service* and *Reference Services*. The library publishes *AIIMS Institutional Repository Bulletin* and the *New books bulletin*, etc. It also provides services such as web-based Open Access Public Catalogue (Web OPAC), Reprography and printout of academic literature. Library imparts orientation and information literacy programs to students, research scholars and doctors regularly.

This year the library added 452 print books, 52 E-books from Oxford Textbooks of Medicine collection and subscribed to new databases: DOSS (Dentistry & Oral Science Sources) and JAMA evidence. It also continued to subscribe to i-Thenticate (an anti-plagiarism web tool), NEJM Journal Watch, HStalks Lecture Series, Web of Science, *BMJ case report* and *Access Medicine database* which includes around 82 basic reference medical books with multimedia option. This year the library initiated a program to establish Electronic Thesis and Dissertation Digital Library by the scanning & digitization of Thesis & Dissertations available in print as well as CD formats through M/s ProQuest. Even though the library is an Academic cum Research Library for Doctors, it has recently developed a collection of around 2250 Hindi books for general reading.

CME/Workshop/Seminar/Conferences

1. Workshop on UpToDate Point of Care Database Activation for Anywhere Access, 13 April 2017.
2. Training programme on iSearch@B.B. Dikshit Library (Single Point Search), 17 April 2017.
3. National Seminar on Access & Availability of Medical Literature in Electronic Environment (AMLEE-2017), 8 June 2017.
4. Librarian Day: On the occasion of birthday of Dr S.R. Ranganathan, 12 August 2017.
5. Online library resource training programme, 10 October 2017, JPN Apex Trauma Centre, AIIMS.
6. Lecture on 'How to Write a Scientific Paper', Gabriella Karger, CEO, Karger, 30 November 2017.
7. Seminar on Efficient Use of E-Resources as a Research Tool for Scholarly Communication, 22 January 2018.

Lectures delivered

S. Siva Chidambaram

1. Access to the Medical Literature in e-environment, NML–ERMED Consortium at ESIC Medical College, Hyderabad, 24 April 2017.
2. Modern Role of Librarian in Health Information System and Services, National Seminar on Role of Libraries in Health Information System and Services, organized by Indian Pharmacopoeia, 26 April 2017, Indian Pharmacopoeia Commission, Ghaziabad.
3. Open Access Movement in Medical Sciences Journals: A Bird Eye View, National Workshop-2017 on ‘Strengthening Open Access Initiatives in India’, 23 June 2017, National Brain Research Centre, Manesar, Gurgaon, Haryana.
4. Discussant, Seminar on Digital Licensing: Smart Decisions for Smart Libraries, 9 August 2017, National Law University, Delhi.
5. Competencies development on information management in modern biomedical libraries, ICSSR Sponsored International Conference on Future of Libraries: From Promises to Practice, organized by Indian Statistical Institute (ISI), 15–17 November 2017, Bengaluru, India.
6. Open Access to Mega Journals in Health Information: Trends, Models & Strategies, 9–10 February 2018, jointly organized by SMS Medical College, Jaipur, RMLA (Rajasthan Medical Library Association) and Jaypee—The Health Sciences Publisher, Jaipur.
7. Finding the Current Best Evidence, in Evidence Based Medicine Workshop-2018 (EBMW-2018), 28 February 2018, AIIMS, New Delhi.
8. DeLCON National Seminar on ‘Role of Libraries and Librarians in Knowledge Society’, 27 March 2018, National Brain Research Centre, Manesar, Gurgaon, Haryana.

Papers published in conference proceedings/oral presentations/poster presentations

1. Priya N, Siva Chidambaram S. Usage statistics is an indicator for collection development in Electronic era: A feasibility study in Dr. B. B. Dikshit Library, AIIMS, New Delhi. In: Proceedings of Sixth International Library & Information Professional Summit (LIPS 2017), Dynamics of Library for Excellence in Electronic Revolution, 6–8 April 2017, Indian Institute of Science Education and Research Mohali, pp. 453-464 (Paper published).
2. Siva Chidambaram S. Role of Medical Librarians in Knowledge Organisation Systems in Systematic Review Process. In: 20th National Convention on Knowledge, Library and Information Networking–NACLIN 2017, organized by DELNET, 28–30 November 2017, India International Centre, New Delhi (Poster)
3. Siva Chidambaram S. Initiating ETD digital library at AIIMS, 4th National Conference iETD 2017, 13–14 December 2017, INFLIBNET Centre, Gandhinagar under University Grants Commission of India (Paper presented).
4. Shrivastava P. Research data services in prominent life sciences and medical libraries around the world. In: Proceedings of HSLA National Conference on Advancement and Challenges Health Science Librarianship: Need of Transformation of Medical & Allied Sciences Librarianship in Digital Era, 18 November 2017, Rajkot, Gujarat (Paper published).
5. Shrivastava P. ETD @ Shodhganga by Universities in Rajasthan. In: Proceedings of National Conference on iETD 2017, 13–15 December, 2017, INFLIBNET, Gandhinagar (Paper published).
6. Shrivastava P. Research Support Services in Health Science Libraries: A Case study of Dr. B. B. Dikshit Library, AIIMS, New Delhi, 3rd National Conference on Management of Modern Libraries (NACML), 9–10 February 2018, Manipal Academy of Higher Education, Manipal.

Conference/Seminars attended

S. Siva Chidambaram

1. Role of Libraries in the Digital India, DELNET Silver Jubilee Lecture, 30 June 2017, DELNET, New Delhi.
2. International Workshop on ‘Knowledge Engineering for Digital Library Design’ UNESCO–National Digital Library of India (NDL), 25–27 October 2017, New Delhi.
3. 20th National Convention on Knowledge, Library and Information Networking–NACLIN 2017, DELNET, 28–30 November 2017, India International Centre, New Delhi.
4. 4th National Conference iETD 2017, 13–14 December 2017, INFLIBNET Centre, Gandhinagar (under University Grants Commission of India).
5. Role of Libraries in Managing Open Education Resources, International Seminar, Ambedkar University Delhi Library, 5 February 2018, Delhi.
6. National Workshop on Copyright Considerations for Digital Libraries, 8–10 February 2018, IIT Kharagpur, Kharagpur, West Bengal.

M.K. Vishwakarma

1. Access and availability of Medical Literature in Electronic Environment (AMLEE-2017), National Seminar, 8 June 2017, AIIMS, New Delhi.
2. National Conference on Role of Academic Libraries for Excellence in Research, 18–20 January 2018, Indian Institute of Science Education and Research (IISER), Bhopal.
3. Role of Libraries in Managing Open Education Resources, International Seminar, Ambedkar University Delhi Library, 5 February 2018, Delhi.

Jahangir Khan

1. National Conference on Role of Academic Libraries for Excellence in Research, 18–20 January 2018, Indian Institute of Science Education and Research (IISER), Bhopal.
2. Role of Libraries in Managing Open Education Resources, International Seminar, Ambedkar University Delhi Library, 5 February 2018, Delhi.

Prashant Shrivastava

1. National Seminar on Role of Libraries in Health Information System and Services, 26 April 2017, Indian Pharmacopoeia Commission, Ghaziabad.
2. Digital Licensing: Smart Future for Smart Libraries, Seminar, 9 August 2017, National Law University, New Delhi.
3. 63rd Annual Conference of Indian Library Association, 23–25 November 2017, B.B. Ambedkar Central University, Lucknow, U.P.
4. 20th National Convention NAELIN 2017, Knowledge, Library and Information Networking, 28–30 November 2017, DELNET, New Delhi.

Ajay Kumar Saroha

1. National Seminar on Role of Libraries in Health Information System and Services, 26 April 2017, Indian Pharmacopoeia Commission, Ghaziabad.
2. Digital Licensing: Smart Future for Smart Libraries, Seminar, 9 August 2017, National Law University, New Delhi.
3. 63rd Annual Conference of Indian Library Association, 23–25 November 2017, B.B. Ambedkar Central University, Lucknow, U.P.
4. 3rd National Conference on Management of Modern Libraries (NACML), 9–10 February 2018, Manipal Academy of Higher Education, Manipal.

Neetu Priya

1. Workshop on IRTPLA SUOL 2.0, Organized by IAS Shimla in collaboration with INFLIBNET, Gandhinagar, 17–21 July 2017.

PUBLICATIONS

Abstract: 1

Book: 1

AWARDS, HONOURS AND SIGNIFICANT EVENTS

The following Library staff received Best Library Service Award-2016 from Director, AIIMS on 8 June 2017: Mr M.K. Vishwakarma, Librarian Gd-I; Mr Jahangir Khan, Librarian Gd-I; Ms Neetu Priya, Librarian Gd-III; Mr Rakesh Rawat, D.E.O. Gd-A; Mr Shiv Lal, Library Attendant Gd-I; Ms Meenakshi Chawla, Library Attendant Gd-II.

Mr S. Siva Chidambaram chaired the Scientific Session at International Conference on Libraries beyond Borders: Innovative Trends, Issues and Challenges in Knowledge Dissemination (ICLBB2017), organized by Christian Medical College, Vellore, 18–19 August 2017, Vellore; chaired Scientific Technical Session in 1st National Convention on Open Access to Health Information: Trends, Models and Strategies for Medical Libraries, 9–10 February 2018, jointly organized by SMS Medical College, Jaipur, RMLA (Rajasthan Medical Library Association) and Jaypee—The Health Sciences Publisher, Jaipur.

Mr M.K. Vishwakarma worked as member, organizing committee: Access and availability of Medical Literature in Electronic Environment (AMLEE-2017), National Seminar, 8 June 2017, AIIMS, New Delhi. (Actively worked as Member of Organizing Committee.)

11.2. Cafeteria

Chairperson

M. Bajpai

Professor, Department of Paediatric Surgery

Member Secretary

V. Darlong

Professor, Department of Anaesthesiology

Accounts Officer

Meenakshi Dabral

General Manager

S.K. Kaushik

Deputy General Manager

K.K. Sharma

The cafeteria is being run at no-profit-no-loss basis to provide wholesome food to employees at AIIMS without any financial assistance from the Institute for Equipment, Furniture, Utensils and other basic requirement of Café.

MANAGEMENT COMMITTEE

A Management Committee is constituted by the Director of AIIMS for policy decisions that pertain to the Cafeteria Department time to time. The following are the members:

Dr M. Bajpai	Chairperson
Dr Neena Malhotra	Member
Dr Binod Kumar Khaitan	Member
Dr Vanlalnghka Darlong	Member
Dr Rajesh Khadgawat	Member
Dr Sumit Sinha	Member
Representative of FAIIMS	Member
Representative of RDA	Member
Representative of Officer Association	Member
Representative of Nurses Union	Member
Representative of Karamchari Union	Member
Dr V. Darlong	Member Secretary
Shri S.K. Kaushik General Manager, Cafe	Co-coordinator

SERVICE FACILITIES

The Cafeteria runs 10 units for services to more than 12,000 employees of AIIMS.

1. Main Cafeteria (24 hours services) situated near Jawahar Lal Nehru Auditorium
2. Main Operation Theater Cafeteria situated at 9th Floor of the Main Hospital
3. CNC Cafeteria, situated at 2nd Floor of the centre
4. Dr R.P. Centre OT Cafeteria situated at 5th Floor of the centre/Ground Floor
5. Centre for Dental Education and Research
6. Dr B.R.Ambedkar Institute Rotary Cancer Hospital
7. Faculty Room Cafeteria situated near Main Cafeteria
8. AIIMS Outreach OPD, Village Badsa, Jhajjar, Haryana
9. Tea/Coffee outlet near computer facility and daily service at Ortho OT
10. AIIMS OPD Canteen established under the management of AIIMS Cafeteria to cater the need of patients and their relatives round the clock

In addition cafeteria provides hospitality services to all higher officers and faculty members on day-to-day requirement, as well as special requirements for important official meetings, Workshop, Symposia, etc.

STAFF STRENGTH

110 employees are appointed in the Cafeteria Department on regular as well as contractual basis.

DEVELOPMENT ACTIVITIES

Multi-storey Cafeteria block has been constructed and has started functioning from 15 August 2017.

FUTURE PLAN

Considering massive expansion in the requirement for catering services at the Institute as a result of tremendous increase in AIIMS staff strength and in view of upcoming blocks in AIIMS campus, the need of highly skilled professional catering/cafeteria services in campus for faculty, resident doctors, nursing staff, other staff and visitors has been felt. The outsourcing of cafeteria services at the Institute is under process and likely to be finalized in near future.

11.3. Central Animal Facility

Professor-in-Charge

S.K. Maulik

Sr. Veterinary Officer

P.K. Yadav

During the year, only rats, mice, rabbits, guinea pigs and hamsters were maintained in the facility.

Small Animal (Rodents):

The number of animals maintained during the year in the facility is given below:

- | | |
|---------------------------------|------|
| 1. Rats (Wistar) | 1313 |
| 2. Rats (Sprague Dawley) | 560 |
| 3. Mice (Swiss) | 501 |
| 4. Rabbits (New Zealand) | 105 |
| 5. Guinea Pigs (Dunkin Hartley) | 65 |

A total of 4365 small animals (Rats 3265, Mice 1267, Rabbits 86 and Guinea pigs 17) were supplied to various departments at AIIMS. A number of animals was also sold to sister institutions in Delhi and outside Delhi (Rats 616, Mice 153, Rabbits 7 and Guinea pigs 11; total 787). Biopsies were done on 68 animals.

Experimental Surgery

Thirty-one surgical procedures were performed by faculty, investigators and students from various departments in the facility. The departments included Surgery, Biomedical Engineering, Neurosurgery, Paediatric Surgery, Laboratory Medicine, Biotechnology, Stem Cell Facility and Pathology.

Institutional Animal Ethics Committee

The Institutional Animal Ethics Committee (IAEC) is approved by the Committee for the Purpose of Control and Supervision of Experiments on Animals (CPCSEA) under the Ministry of Environment, Forests and Climate Change, Government of India. The AIIMS CPCSEA registration No. is 10/GO/ERebi/SL/99/CPCSEA. The IAEC cleared 71 projects on small animals (Rodents) of various investigators at AIIMS during the year 2017-18.

Services Provided

The facility has been maintaining animals belonging to departments of Microbiology, Biomedical Engineering, Biochemistry, Biotechnology, Anatomy, Pathology, Laboratory Medicine, Stem Cell Facility, Neurosurgery, Paediatric surgery, Biophysics, Geriatric medicine, Surgical Disciplines, Neurobiochemistry, Reproductive Biology, Psychiatry and Rheumatology. The facility housed on an average 70 rats, 59 mice, 5 rabbits, 12 guinea pigs and 9 hamsters belonging to the above departments.

Laboratory facilities such as vacuum drying of sera, storage of serum samples, haematology, clinical biochemistry, microscopic investigations and X-rays were provided to the investigators.

The facilities for research with immunodeficient animals (Nude and SCID mice) are in the final stage and will be functional soon.

Educational Programmes Attended

1. Laboratory Animal Health and Quality Improvement through improved sanitation hygiene and sterilization procedures, 24 April 2017, National Centre for Laboratory Animal Sciences (NIN, ICMR) Hyderabad.
2. One day National Conference of CPCSEA on Welfare of Laboratory Animals, 9 January 2018, Indira Paryavaran Bhawan, New Delhi.

11.4. Central Workshop

Faculty Coordinator

Dr Ganga Prasad

(Professor, Department of Anaesthesiology, Pain Medicine and Critical Care)

Chief Technical Officer

Kalu Ram

Senior Technical Officer

Harinder Pal
(Mechanical Section)

Nitin Srivastava
(Electrical and Electronics)

OBJECTIVES

The Central Workshop was established in 1964. It plays an important role in providing smooth and complete patient care. It carries out repair and maintenance of various equipments from different departments. It also fabricates items to be used for medical education, scientific research and patient care at AIIMS. Being the only technical department it also provides technical guidance to various purchase committees of AIIMS.

LOCATION AND TIMING

The Central Workshop is located on the basement, ground floor and first floor in a building adjacent to the laundry and near the mortuary. It also has an extended centre at 7th floor of the Hospital main building. This extended centre (mini workshop) does repairs on urgent basis and has the advantage of being close to the patient care activities, thus saving time and effort of the person taking items for repair.

STRENGTH OF EMPLOYEES

A skilled team of technicians and officers is available in the department to provide the above stated operations. The team provides efficient maintenance of various equipments in the hospital. The various sections of the Central Workshop headed by a Senior Technical Officer/Technical Officer with supporting staff members. The group B and C staff strength is given below:

- Technical Officer: 3
- Technician (Grade I): 6
- Technician (Grade II): 9
- Workshop Assistant: 4
- Office Superintendent: 1
- Store Clerk (UDC): 1
- Khalasi: 6

SERVICES AVAILABLE

The Central Workshop provides the following services to the entire AIIMS, its centres and CRHSP Ballabhgarh:

1. Repair and Maintenance

There are different sections in the Central Workshop involved in repair and maintenance of various equipments. A total of 8538 jobs have been completed during the year. The section-wise descriptions of repaired items are:

S. No.	Section	Number of Jobs	Item Description
1	Electronics	441	Patient Monitors, Infusion Pumps, Regulated Power Supplies, Electronic Weighing M/c, Paper Shredding Machines, Light Sources, E.C.G. Machines, Sealing Machines, Ultrasonic Nebulizer, DVT Pumps, Blue LED Light, Stabilizers, Induction Heater, Nebulizers, Public Address Systems, Operation Table Electronic, Microscopes, Microwave Ovens, Colour Televisions, Humidifier, Foetal Doppler, Air Mattress Pump etc.
2	Electrical	986	Autoclave M/c, Bone Cutters, Bull eye lamp, Boiler, Centrifuge M/c, Suction Machines, Floor Cleaning Machine, Fly killer M/c, Fumigator, Gauge/Plaster Cutters, Grinders, Hot Case, Hot Air Ovens, Hot display counter, Hot Plates, Incubators, Laminar Flow, Mayo stand, Mixer Grinder, Magnetic stirrer, Needle Destroyers, O.T. Lights, Spot Light, Steam Bath, Sterilizers, U.V. Lights, Vacuum Cleaners, X Ray View Box, Vortex Shaker, Water Bath, Wax Bath etc.
3	Mechanical	4583	Surgical Instruments, Tr. Tube, Spray Pumps, Vapor jet Cleaning Machines, Scissors (Gauge Cutting), Bed Side Lockers, I.V. Stands, Patient Trolleys, Patient Beds, Wheel Chairs, Loading Trolleys, Food Trolleys, Side Screens, Instrument Trolleys, Basin Stand, Foot Step, Surgical Drums, Push Cart, Pt. Examination Tables, Hydraulic Trolleys, Test Tube Stands, Revolving Stools etc.
4	Fine instrument	802	Digital B.P. Instrument, Micro Balances, Dial B.P. Instrument, Stethoscopes, Weighing M/c, Compressors, Flow Meters, Oxygen Regulators, Hydraulic Tables, Laryngoscopes etc.
5	Refrigeration	228	Visi Coolers, Deep Freezers, Chilling Unit, Ice Cream Cabinet, Refrigerators, Cold Display Counters, Minicold, Refrigerated BOD Incubator etc.
6	Painting	551	All office and hospital furniture items like Beds, I.V. stands, all type of Trolleys, Wheel chairs, Benches, Footsteps, Patient side lockers, Pigeon Lockers, Patient examination Tables, Push Carts, Almirahs, Racks etc.
7	Carpentry and upholstery	947	All types of stools, sofas, settees, chairs, tables, Trolley Mattress, Patient Couch mattress etc. and their upholstery work. Splints, Wooden Stools and other wooden item jobs etc.
	Total	8538	

2. Fabrication and guidance

In spite of gradually increasing load of repair and maintenance activities, Central Workshop has been able to help in research activities of the institute with design and fabrication of useful gadgets as per specifications provided by various departments. A total of 1020 items were fabricated by the Central Workshop during the year. These were:

S. No.	Item	Quantity	Department
01	Handle for Surgical Equip.	32	Ortho OT, JPNATC OT
02	Temp Chart Holder	90	Main Hospital
03	First responding buzzer system	1	Pathology
04	Instrument Trolley Tray	1	Main Hospital
05	Wooden Splint	508	JPNATC, Emergency
06	Aluminium Clamp	2	CMET
07	Skelton Reconstruction	6	Anatomy
08	Autoclave Clamp	8	Biochemistry

S. No.	Item	Quantity	Department
09	Probe	7	Surgery
10	Aluminium Tray	5	MOT
11	Instrument for Isometric elbow contraction	1	Physiology
12	Lower body pressure device	1	Physiology
13	Manipulator	3	Obst & Gynae
14	Blue Light source	7	Surgery
15	Clamp from Plastic Bottle Neck	350	CMET
	Total	1022	

Short-term training

The Department is actively involved in providing guidance and imparting short-term training (4–6 weeks) to the diploma/undergraduate students of various engineering colleges.

ACHIEVEMENTS

1. The Workshop has received appreciation letters from the Departments of Physiology and Anatomy, AIIMS for the technical support provided in the design and fabrication of Instrument for Isometric Elbow Contraction and Reconstruction of Human skeletons, respectively.
2. The Workshop participated for the first time in the exhibition held on the occasion of AIIMS Institute Day Celebration. According to the theme of the exhibition, the contribution of Central Workshop in saving environment and health was displayed by a poster. Some of the items, fabricated by Central Workshop, were also demonstrated.

11.5. Computer Facility

Professor in-Charge

A. Shariff

Systems Analysts

S.N. Ragu Kumar Satish Prasad Sushil Kumar Meher

Senior Programmers

Sanjay Gupta S.P. Singh Vinay Pande
 Hari Shankar Shyamal Barua

Programmers

Pawan Sharma Tripta Sharma Sushma Dhama Amit Bhati
 Sanjeev Kumar Ankita Saini Geetika Gupta

Nursing Informatics Specialist

Preethi S. and Team

EDUCATION

Postgraduate

Computer programming classes, covering both theory and practical aspects, were conducted for postgraduate students of the Department of Biotechnology and College of Nursing.

Undergraduate

A three-month course on basics of computer, internet, windows applications, computer-aided learning, database, etc. was conducted for first year students of BSc (Hons) Nursing and BSc Nursing (Post-certificate). Computer Orientation Programs for MBBS students were also organized.

Continuing medical education

Members of the faculty participated and delivered lectures in continuing medical education programs, symposia, international and national conferences.

SERVICES

Appointment System

Online appointment: For facilitating online appointments, 52 counters are operational in Patient Reception Center (PRC). In addition one Single Window Exit Counter (SWEC) is functioning at RAK OPD for follow-up patients. During the year 2017-18, the total number of online appointments taken through various modalities is summarized below:

Method of Appointment	New Appointment	Follow-up Appointment
Call Centre	38,893	48,939
Counters	17,05,760	15,89,382
AVC	1496	127
IVRS	4237	37,462
Mobile apps	21,397	67,000
AIIMS portal	22,180	1,27,320
ORS	2,86,436	30,343
Kiosk	1,70,777	1,37,205

The section wise break-up is as follows.

Sections	Total appointment
OPD and Clinic	37,28,177
Radiology	2,68,600
Laboratory	3,05,299

SNOMED CT—36394 SNOWMED CT compliant entries have been recorded in Hospital Information System (HIS) during the year.

Biometric Attendance with Duty Roster: 2500 additional employees have been added to the biometric attendance system during 2017-18.

HOSPITAL COMPUTERIZATION

Hospital Information System: HIS is implemented using eHopsital@NIC software for Management of Appointment and OPD Registration, Admission, Discharge, and Transfers, MRD, Patient Billing, Stores, Laboratory Information System, Dietary, and Blood Bank.

PACS integration with HIS e-Hospital: This helps to send the requisition for radiological investigations such as x-ray, CT, MRI etc. via online to RIS systems. PACS integration had been done for 15 machines during 2017-18.

EHS pharmacy software. During the last year, 32,775 registrations have been done and 29,971 prescriptions were generated through this software.

AIIMS Video Consult (AVC): A total of 122 video consultations have been done by different departments like Cardiology, Oral Medicine, Dietetics, Psychiatry, Neurosurgery, Orthopaedics, Rheumatology, RP Centre and Dermatology.

Nurse Initiated Follow-up Tele-consultation (NIFT): During the past year, 111 video consultations were offered through this initiative.

Management of existing in house modules: Summary of total cases registered under various existing in house modules during 2017-18 is as below:

1. **Online anesthesia register:** 49 case details have been registered by the anesthetist through this application.
2. **Patient Display System (PDS):** 96,563 patient details have been registered for Emergency, New Emergency and Paediatrics.
3. **Quality Assurance Module (QAM):** 2011 entries have been recorded for scheduling conferences, lectures, faculty meetings and also for doctor's grading purpose.
4. **QAM/HA:** 40 entries have been made for grading purpose by HA.
5. **RPC PDS:** 28,576 patient details have been registered for RPC.
6. **OT scheduling:** 59,335 OT scheduling has been done for different departments.
7. **Equipment checklist RPC:** 2792 checklists have been created for equipments in RPC.
8. **E birth certificate:** 2479 birth certificates have been generated through this module.
9. **E blood request:** 92,230 blood requests have been made for arranging blood for patients.
10. **E cath list:** 5949 schedulings have been done for Cath Lab.
11. **E MLC:** 11,456 medical records have been maintained for MLC cases.
12. **E MLC RPC:** 119 medical records have been maintained for MLC cases at RP Centre.
13. **E vitals entry:** E-vital entries for 2,20,915 admitted patients have been recorded through this software.
14. **Penicillin register:** 2602 registrations have been done for scheduling and alerting regarding penicillin intakes.
15. **Gamma knife register:** 636 registrations have been done for gamma knife procedure.
16. **Election e-ballot:** 535 votes were cast for election purpose through this module.
17. **Online admission slip:** A total of 2883 admission slips comprising patients of both OPD and Emergency have been provided in a real platform based upon the availability of beds under different department heads.
18. **QR code in medical and fitness certificate:** This was implemented on 1 June 2017 and managed continuously. Since then 8253 certificates have been generated for AIIMS and 669 for IRCH employees.
19. **E-grievance module:** Grievance module of AIIMS is live since June 2017 and is managed and maintained by in house team. 501 complaints have been made through this portal and 455, i.e. 90.8% have been resolved.
20. **E-Death note:** 5792 death certificates have been generated through this application.
21. **Anesthesia Oncology Management System for IRCH Centre:** A total of 811 cancer patients' information is recorded through this system.
22. **ECG Lab:** This is a newly developed application to maintain census of ECG Lab and 5827 entries have been registered by it.

Nursing Informatics Specialist (NIS): A total of 52 NIS has been posted in all centres of AIIMS and were actively involved in education, patient care, research and computerization activities. They have been actively involved in coordinating for developing testing and implementing various online modules as a part of hospital digitization.

Administration

- Computer facility was involved in maintaining and the use of e-Office in all the sections of administration/finance/engineering/stores including centres.
- Maintaining the Finance Server (Novell)/Administrative Server (Windows) for financial applications like Payroll system, GPF System, Tax Module, Pension System etc. and web based administrative applications such as Hostel Allotment and Registration System, House Allotment for Faculty, Computer Facility Forms, online Payslips, online GPF Statement, online Form 16, Vigilance System, LOI and Award System for ESD, Academics Teaching Schedule and Mail, Employee Data Display, Transport System, etc.

IT infrastructure and Networking, Internet and Intranet management activities

Computer facility provides network management facilities including high speed internet connectivity to various users of AIIMS through NKN connectivity from NIC. It maintains the AIIMS website at aiims.edu and aiims.ac.in and various other servers of AIIMS.

1. About 150 new internet connections have been provided to faculty members, officers and staff of AIIMS.
2. Provided high speed NKN internet connectivity for various Seminars/Conferences/Video Conferences:-
 - a. Wi-Fi facility provided for IASP-ISSP Multidisciplinary Evidenced-Based Pain Management Course on 2-3 May 2017 and 11-12 July 2017 at Director's Board Room.

- b. Live webcasting arranged for Current Concepts in Arthroplasty 2017 on 12-13 August 2017 at Department of Orthopaedics.
 - c. Provision of Skype Facility for video conference for the Department of Psychiatry for meeting of International Scientific Group in the Innovation Hall at CMET, AIIMS on 23 to 24 October 2017.
 - d. Conducted a webinar conference of 17th FERCAP International Conference and 5th FERCI National Conference on 20-22 November 2017 at the AIIMS, New Delhi.
 - e. Tele-conference arranged on 19 December 2017 at CDER Board Room.
 - f. Conducted webcasting of the NUSICON 2018 during 11 and 12 January 2018 at JLN Auditorium.
 - g. Provided Wi-Fi facility for the 20th AIIMS Annual Microsurgery Workshop from 15 to 17 February 2018 at the conference hall of Department of Neurosurgery.
 - h. Provided Wi-Fi connection for 51th Foundation Day Seminar on 10-11 March 2018 at RP Centre. Provided Wi-Fi connectivity at JL Auditorium on 21 to 25 February 2018 for the 25th Silver Jubilee International Conference of Indian Association of Palliative Care.
3. Continued maintenance of aiims.edu website.
 4. The total number of pages updated, created and uploaded on AIIMS website approx. 4400.
 5. The total number of visitors to AIIMS website was approx. Rs 75 lakhs.
 6. Continued management of Unified Threat Management (UTM) firewall done for security of computer networks and application for management at gateway level Anti-Virus, Anti-Spam, IPS/IDS, load balancing and content filtering.
 7. Continued management of the wireless networking zones at around 18 hostel locations, creating Wi-Fi zones for internet, information and online journals access to students and resident doctors. So far approx. 7800 students have availed this facility. Currently 1300 users are registered for this facility.
 8. Continued BBDL OPAC Services and enhancement of library online resources subscribed through BB Dixit Library through AIIMS Website.
 9. Continued management of Wi-Fi zone at BB Dikshit Library for internet and online journal access for students.
 10. High speed internet facility through NKN Lease Line for faculty and students is being maintained on 24/7 basis on the AIIMS network at around 8150 nodes.
 11. Maintenance of Web Server, Proxy Server and Mail Server 24x7x365 days.
 12. Facility management and call maintenance for internet and network user's complaints and resolution 24x7x365 days through help-desk of computer facility.
 13. VPN based access mechanism for e-Hospital Module, CPRS access from outside AIIMS continued management for Ballabgarh, AIIMS centres.
 14. Continued management of IPsec Tunnel for connecting NDDTC, JPNATC, and Centre for Excellence in Epilepsy and Brain Research Centers, Gurgaon.
 15. MAC ID based authentication provided to AIIMS Faculty, Scientists, Assistant and Deputy Nursing Superintendents for Wi-Fi based access to e-Hospital software and internet at wards, OPD, ICU and OTs etc.
 16. Created approx. 100 IDs for SSL VPN access.
 17. Created approx. 120 new email IDs on aims.edu and aims.ac.in domain for faculty members, scientists and officers of AIIMS.
 18. Regular E-mails sent to all faculties regarding various conference, seminars etc.
 19. Visited and drafted Technical Specification for network infrastructure development at CRHSP, Ballabgarh for tendering.
 20. Tender specification for the CAMC of Networking, PC, Peripherals and RC of spares was prepared and was vetted by the technical specification committee for tendering.
 21. Conducted product update sessions by M/s HP, D-Link, Dell, Hitachi, etc., in the seminar room of computer facility for updating technical strategy for the new upcoming blocks at Masjid Moth and NCI, Jhajjar.
 22. Implementation of e-procurement through GEM started at AIIMS, New Delhi.
 23. Activated and configured IP for internet connections to the renovated Academic Section.
 24. Provision of external IP address for the GE Centricity RIS-PACS for Department of Neurosciences Centre.
 25. Provided 6 core fiber cable for connecting NSOT-1 to NSOT-4 and Seminar Room 6th Floor for internet access.

PUBLICATION

Journal: 1

AWARDS, HONOURS AND SIGNIFICANT EVENTS

AIIMS has been awarded Digital India Excellence Award 2017 in Government–Healthcare Appointment System at AIIMS, New Delhi, by Fifth Pan IIM World Management Conference held on 14-16 December 2017 at IIM Lucknow Campus, Lucknow, UP.

S.N. Ragu Kumar, Hari Shankar conducted orientation program for MBBS students, AIIMS; took classes for MSc and BSc Nursing students; lecture and demonstration given to postgraduate students from Indian Red Cross Society at AIIMS Telemedicine Centre; coordinator for HR module of SAP implementation at AIIMS; attended Aruba Atmosphere Local Seminar on Wi-Fi and networking in Delhi on 10 January 2018; attended two days symposium on NSM Grid over NKN at Bengaluru on 9 and 10 October 2017.

Mr Satish Prasad, Nodal Officer for eOffice Project (NIC), coordinated and trained personnel for the use of eOffice; key person and coordinator of Finance Module of SAP; course coordinator and took classes of MSc, BSc and Post Certificate students for IT classes of College of Nursing; took IT related classes for Disaster Management Course for Indian Red Cross Society (Master's course affiliated to IP University); designated as Central Assistant Public Information Officer (CAPIO) for Computer Facility; was involved with monitoring and maintaining of the finance server (Novell) for in-house developed financial applications.

Dr S.K. Meher has taken a major role in implementing gastroenterology module, LIS module, clinical module and computer networking for Jhajjar (Haryana); coordinated in implementing PS module in SAP project; involved in teaching activities of undergraduate and postgraduate students; member of condemnation committee for CNC; Chairman of Inspection Committee for computer related items; attended 37th Annual Esri User Conference held in San Diego Convention Center; presented paper in Medinfo 2017 (the 16th World Congress on Medical and Health Informatics) held in Hangzhou, China; Board Member of International Society for Gerontology; Adviser of India Association of Medical Informatics (IAMI); appointed as Nodal Officer for SNOMED CT project at AIIMS by Ministry of Health and Family Welfare.

Mr Sanjay Gupta coordinated the implementation of EHS Pharmacy Module, Diet Module etc. of eHospital Project and File Tracking System of e-Office; Chief Coordinator/Nodal Officer for SAP project implementation at AIIMS and organized various meetings, overview sessions, walkthrough sessions, trainings, workshops, etc. and coordinated in understanding user's requirements, preparation of Business Blue Print Master Link (BPML), organizational structure and Business Blue Print (BBP) Documents for Finance (FI-CO), Stores (MM) and Engineering (PS) Modules and also organized workshops for trainings, configuration and testing of above three modules.

Mr Vinay Pande designated as Nodal Officer for Digital Payments, AIIMS; looks after Billing Module of eHospital software; key person (coordinator) of Payroll Module, Research Section Module of SAP; maintenance of payroll and other software of Finance Division; invited by Indian Red Cross Society to deliver lectures on ICT, MIS, Cyber Terrorism and Cyber Security etc. for their PG course on Disaster Management (affiliated to GGS IP University, Delhi); took Inf. Technology, HIS, Nursing and Medical Informatics, Bio-Medical Information retrieval, classes for M Biotechnology, MSc (Nursing), BSc (Nursing) at AIIMS; involved in formulating the technical specifications for the digital network infrastructure of the upcoming new OPD Block, Mother and Child Block, Surgical Block and NCI Jhajjar; attended the training programme 'Digital Transformation through e-Governance' at Goa, organised by National Productivity Council on 19-22 December 2017.

Mr Pawan Kumar Sharma assigned as a Nodal Officer for the e-procurement portal GeM; key person for HCM and MM Module of SAP; Nodal Officer for aiims.edu webmail; coordinated in implementation of Lab Module and Blood Bank Module of eHospital project; nominated as Information Security Officer and Web Information Manager of the Institute.

Ms Tripta Sharma has taken a major role in implementing, maintaining and configuring eHospital Application Modules viz. Appointment Module, ADT Module, Billing Module, Inventory Module, EHS Pharmacy Module in all centres of AIIMS. She is also actively involved in teaching activities of undergraduate and postgraduate students; also member of Technical Specification Committee, Condemnation Committee and Inspection Committee.

Ms Archana and Ms Ritu developed Hostel Allotment and Registration System, House Allotment for Faculty, online Eye Donation System, online Computer Facility Forms and continue maintaining of online Payslip, GPF and Income Tax, online Vigilance System, online LOI and Award System, online Academics Teaching Schedule and Mail, online Exemption Certificate, adopt a patient for exemption, online Employee Data Display, online Patient Feedback, online File Tracking Neurology, CNC Bed Display System, online Transport System, online Minutes of Meeting, Web Page of Main Intranet.

11.6. Electron Microscope Facility

Professor In-charge

TC Nag

Assistant Professor

Subhash C Yadav

Senior Technical Officer

Sandeep Arya

EDUCATION

1. Thirteen MBIotech students of the Department of Biotechnology, AIIMS, received two weeks training from 21 August to 1 September 2017 (as part of their 1st Semester Cell Biology Practical).
2. Electron Microscopy classes (theory as well as practical, Fridays only) for Anatomy postgraduates were conducted from 12 October to 8 December 2017.

CME/Workshops/Symposium/National and International Conferences

1. Summer training course in Electron Microscopy for technical personnel was held from 15 May to 24 June 2017. Six candidates were trained in sample processing, ultramicrotomy, CPD, sputter coating, TEM and SEM viewing and routine maintenance of microscopes.
2. The 33rd National Training Program in Electron Microscopy for Scientific Investigators was held from 20 November to 2 December 2017. Twenty-two candidates from different parts of India participated in this training program. Twelve lectures were delivered by AIIMS faculty staffs and external experts.
3. Two MSc 2nd year students and one faculty from RJ College of Arts, Science and Commerce, Ghatkopar, Maharashtra, visited EM facility on 8 April 2017 and were instructed on principles of EM and processing of biological samples for EM observation.
4. Three pathologists from Medanta Hospital, Gurugram, visited EM Facility on 22 November 2017 and were instructed on principles of EM and processing of biological samples for EM observation.

Lectures delivered

TC Nag

1. Experimental oral iron administration: Histopathological investigations and expressions of iron regulatory proteins in rat retina with aging responses in aging human retina, 35th Annual meeting of Indian Academy of Neurosciences, 30 October 2017, Ravenshaw University, Cuttack

Subhash Chandra Yadav

1. Targeted delivery system for cancer cells consist of multiple ligands conjugated genetically modified CCMV capsid on Doxorubicin GNPs complex, International Conference on Electron Microscopy & Allied Techniques and 38th Annual Meeting of EMSI, 17 July 2017, IGCAR Kalpakkam, Chennai
2. Chimeric Drug Delivery System from plant virus capsid, *Biotikos* 2017 'Trends in Nanobiotechnology', 29 September 2017, TERI University, Delhi
3. Targeted delivery system for cancer cells by genetically modified CCMV Capsid on Doxorubicin GNPs complex, 2nd Annual Conference, NANOBIOTECK- 2017, 6 December 2017, IISER Trivandrum, Trivandrum
4. Chimeric and targeted nano-particulate drug delivery system for subcutaneous cancer, SYSCON 2017-18: 'Bridging the Gap: Between Basic and Clinical Research from Bench to Bed Side', 11 January 2018, AIIMS, New Delhi

RESEARCH

Funded projects

Ongoing

1. To study the role of Th (T helper)-17 cells in arthritis patients in Indian population, Late TK Das (Now A. Shariff), ICMR, 4 years, 2015–19, Rs 40 lakhs
2. Ultrastructural and immunohistochemical analysis of human choroidal vessels with normal aging, TC Nag, ICMR, 3.5 years, 2015–18, Rs 21.4 lakhs

3. Simple, quick and onsite early diagnostic kit for pathogen detection in asymptomatic stage, Subhash Chandra Yadav, DBT, 3 years, 2016–19, Rs 50.21 lakhs
4. Magnetic nanoparticles and quantum dots coupled visual confirmation of cervical cancer cells from cytology sample: A cost effective, quick and suitable test for rural Indian setup, Subhash Chandra Yadav, SERB, 3 years, 2018–22, Rs 38.68 lakhs

Completed

1. Expression patterns of iron regulatory proteins in rat retina with aging and in experimental iron overload, TC Nag, CSIR, 3 years, 2015–17, Rs 22.8 lakhs
2. Development of nano-drug delivery system for brimonidine for treatment of open angle glaucoma with lower dose, higher efficacy and prolonged action, Subhash Chandra Yadav, AIIMS, 2 years, 2016–18, Rs 9.0 lakhs

Departmental projects

Ongoing

1. Epigenetic regulation of Brain Derived Neurotrophic Factor (BDNF) in the central auditory pathway and hippocampus of neonatal chicks exposed to prenatal sound stimulation
2. Expression patterns of iron regulatory proteins in rat retina with aging and in experimental iron overload
3. Light-induced oxidative stress and endogenous neuroprotective mechanisms in post-hatch chick retina
4. A novel Immuno Nano Fluorescence Assay (INFA) system for noninvasive detection of prostate cancer using urine based protein biomarkers, PSA and MSMB
5. Visual, rapid, non-invasive and cost-effective BK virus detection system for renal transplanted patients using Gold nanoparticle coupled loop mediated isothermal amplification (Nano-LAMP)

Completed

1. Light-induced outer retinal damage and its consequences in inner retina
2. Morphological and biochemical changes in neonatal chick retina following exposure to variable photoperiods

PUBLICATIONS

Journals: 6

Abstract: 1

Chapters in Book: 1

PATIENT CARE

Special laboratory facilities

During the year, special laboratory facilities provided for research and patient care are as follows:

S. No.	Facility	User Number		Specimens Analyzed	
		Internal	External	Internal	External
1.	Transmission electron microscope	231	284	1569	1553
2.	Scanning electron microscope	20	83	106	518

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor TC Nag reviewed manuscripts for Exp Eye Res (1), Biomedicine and Pharmacotherapy (1), Microscopy and Microanalysis (1), and DST-SERB research projects for financial support (6). He was nominated as executive committee member to Electron Microscope Society of India for the period 2017–20.

Dr Subhash C Yadav reviewed manuscript from Nanoscale, Nanomedicine, and Journal of Nanotechnology. He was elected member to the organising committee for EMSI-2018 to be held in July 2018, Bhubaneswar.

11.7. Hostel Section

Superintendent of Hostels

Dr K.K. Deepak

Deputy Superintendent of Hostels

Dr S. Datta Gupta	Dr Neerja Bhatla	Dr S.K. Maulik
Dr Tanuj Dada	Dr Raj Kumar Yadav	Dr Rakesh Kumar
Dr K.H. Reeta	Dr Vijay Kumar	Dr Partha Haldar
Dr Kapil Yadav	Dr Kamlesh Kumari Sharma	Mrs Bimlesh Kumari

Administrative Officer (Hostels)

Shri B.K. Singh

Store Officer (Hostels)

Shri Rakesh Kumar Sharma

Account Officer (Hostels)

Shri Trilok Chand

Senior Warden

Shri Shashi Prakash Pandey

Warden

Mr Mohan Sharma

Mrs Seema Pruthi

Deputy Warden

Mr Satprakash Kalia

Mrs Suchita Kumari

Mr Sukhpal Mallick

Assistant Warden

Mrs Tripta Sharma

Ms Rani Varghese

Junior Warden

Mr Babu Lal Meena

Mr Dinesh Desai

Mrs Nirmala

Mr Rajesh Rawat

Mrs Sunil Devi

Ministerial Staff

There are nine ministerial staff in the hostel section.

Subordinate Staff

Eight male office attendants and eighteen female office attendants are posted in different hostels. There are several halls of residence with a capacity of over 1405 (approximate) single/double rooms, 285 married accommodations, 404 accommodations for nursing students/staff nurses and 24 guest rooms. These are spread over different hostels and residence in the Main Campus, Masjid Moth, Ayurvigyan Nagar and Trauma Centre (Raj Nagar).

Details of Hostels

S. No.	Name of Hostels	Single Room	Two to Eight Seaters	Guest Room	Total Strength
<i>Gents Hostel</i>					
1	No. 1 (Charak)	62	$3 \cdot 2 = 6$	0	68
2	No. 2 (Jivak)	55	$2 \cdot 2 = 4$	1	60
3	No. 3 (Sushruta)	70	$6 \cdot 2 = 12$	1	83
4	No. 4 (Madhava)	53	$7 \cdot 2 = 14$	0	67
5	No. 5 (Nagarjuna)	53	$5 \cdot 2 = 10$	0	63

S. No.	Name of Hostels	Single Room	Two to Eight Seaters	Guest Room	Total Strength
6	No. 6 (Vagbhatta)	69	$6 \cdot 2 = 12$	0	81
7	No. 7 (Ashwini)	108	0	1	109
8	No. 8 (Bharadwaj)	108	0	1	109
9	No. 14 (Atreya)	157	0	6	163
10	JPN Apex Trauma Centre	58	0	2	60
11	No. 12 (Dhanwantri)	71	0	1	72
	Total	864	58	13	935
<i>Ladies Hostel</i>					
12	No. 9 (Parvati)	62	$16 + 2 + 0 + 1 (32 + 6 + 5)$	1	106
13	No. 10 (Saraswati)	106	$3 + 0 + 1 + 0 + 0 + 1 (6 + 4 + 8)$	1	125
14	No. 11 (Akshara)	24	$3 + 0 + 3 + 0 (6 + 12)$	0	42
15	No. 13 (Laxmi)	20	$13 + 0 + 1 + 0 + 1 (26 + 4 + 6)$	1	57
16	No. 17 (Ambuja)	0	$54 \cdot 2 = 108$	5	113
17	No. 16 (Agnivesa)	28	$10 \cdot 2 = 20$	0	48
	Total	240	243	8	491
<i>Nursing Students/Staff Nurses Hostel</i>					
18	No. 15 (Medha) Students	160	$76 + 14 + 4 + 0 + 0 (152 + 42 + 16)$	3	373
19	No.15 (Medha) Staff nurses	34	0	0	34
	Total	194	210	3	407
<i>Hostel Accommodation for the Married</i>					
20	F- Type	12	0	12	
21	No. 14 (Atreya)	42	0	42	
22	Ayurvgiyan Nagar Type III	79	0	79	
23	FTA	4	0	4	
24	JPN Apex Trauma Centre	6	0	6	
25	No. 16	142	0	142	
	Total	285	0	285	
	Grand Total		935 + 491 + 407 + 285	2118	

Significant Events

1. New hostel rules duly approved by competent authorities implemented. These are available on hostel website in English and Hindi.
2. New Committee Room with hi-tech equipment created.
3. e-Tender process for Shops and Establishments in Hostels adopted.
4. e-Procurement system adopted.
5. e-Allotment and online hostel complaint redressal portal is in final stages to be launched.
6. Hostel No.16 (Agnivesa) handed over to Hostel Section; 142 married accommodations; 18 female senior residents, 10 single female PhD students and 20 female MSc students got accommodation.
7. Mini Telephone Exchange with intercom facility set up in hostel section.
8. Juice and Laundry shops in Gents Hostel Complex and STD shop in Hostel No. 14 (Atreya) were renovated.
9. Ground floor mess in Hostel No. 7 (Ashwini) was renovated.
10. Ground floor corridor in Hostel No. 7 (Ashwini) and Hostel No. 8 (Bharadwaj) were renovated.
11. Renovation of common wash rooms in Hostel No. 7 (Ashwini), No. 1 (Charak), No. 2 (Jivak), No. 4 (Madhava) and No. 5 (Nagarjuna) is ongoing.
12. Ground floor mess in Hostel No. 12 (Dhanwantri) is being renovated.
13. Three common wash rooms and 1 room in Hostel No. 14 (Atreya); two rooms in Hostel No. 11 (Akshara) and 3 common wash rooms in Hostel No. 9 (Parvati) were renovated.

14. Five rooms renovated in Ayurvugyan Nagar, Type III Hostel and 5 Reading rooms, Student visitor room, warden office, reception and the mess store in Hostel No. 15 (Medha) were renovated.
15. New photocopier machines were installed in Hostel Section.
16. Three new guest rooms started in Hostel No. 17 (Ambuja). Air Conditioners provided in two old Guest Rooms. One common wash room made in Hostel No. 17.
17. Thirteen new air conditioners were installed in Hostel No. 15 (Medha), 5 in Reading rooms, 2 in sick rooms, 3 in Guest Rooms, 2 in Visitor Rooms and 1 in Warden Office.
18. R.O. Plant installed in Hostel No.13 (Laxmi).
19. Four air conditioners installed in Hostels No. 9, 10 and 13 (3 in Guest Rooms) and 1 in Warden Office.
20. Mess kitchen chimneys replaced in JPNATC Hostel.

Future Plans

1. Construction of two new buildings in Masjid Moth Campus with modern amenities to accommodate the sanctioned strength of Students, Resident Doctors and PhD scholars to be completed.
2. Renovation of common wash rooms of Gents Hostels to be completed.
3. Hostel No. 8 (Bharadwaj) 1st floor mess and Hostel No. 13 (Laxmi) mess to be renovated.
4. All common wash rooms, both sick room and guest rooms to be renovated and ground floor reading room to be converted to Dance Room in Hostel No. 15 (Medha).
5. Renovation of common wash rooms of Hostel No. 14 (Atreya) will be completed.
6. Hostel section needs to be extended with the chamber for Senior Warden and newly joined staff.
7. Hostel record room to be shifted to Hostel No. 6 (Vagbhata).
8. Main Hostel Store to be shifted to Old Record Room/Old Hostel Office near Gents Hostel main gate after renovation.
9. New Coffee Shop to be started in the old Hostel Store area.

11.8. Ethics Committee

- **The number of meetings of Institute Ethics Committee was as follows:**
 - Institute Ethics Committee: 12
 - Institute Ethics Committee for post graduate research for basic and clinical sciences: **10**
- **The number of projects reviewed by the Institute Ethics Committee was as follows:**
 - New projects: **757**
 - Review projects: **612**
 - Old projects: **174**
- **The number of projects reviewed by the Institute Ethics Committee for postgraduate research for basic and clinical science was as follows:**
 - New thesis: **718**
 - Review thesis: **409**
 - Old thesis: **54**

In addition, the Institute Ethics Committee continues to receive notifications of serious adverse reactions, serious adverse events, six monthly progress reports and completion reports, etc.

The Institute Ethics Committee's Standard Operating Procedures (SOP's) were modified as per the need and are available on the AIIMS website.

The Institute Ethics Committee and Institute Ethics Committee for Post Graduate Research for Basic and Clinical Science were registered with DCGI and FWA.

11.9. K.L. Wig Centre for Medical Education, Technology and Innovation (CMET-i)

Chief

O.P. Kharbanda

Professor-in-Charge

(For Faculty Development of Basic Sciences)

K.K. Deepak

Professor-in-Charge

(For Faculty Development of Clinical Faculty of Medicine and Allied discipline)

Rita Sood

Professor-in-Charge

(For Faculty Development of Surgical disciplines)

Anurag Srivastava

Education Media Generalist

Yogesh Kumar

Chief Technical Officer

Adarsh Kumar Sharma (from July 2017)

Manager (HRD)

Sourav Sarkar

HIGHLIGHTS

- **Ninety-seven in-house training programmes** were conducted during the year including
 1. A 3-day Basic Course in Medical and Health Professions' Education for medical, nursing and dental faculty to enhance their skills in teaching methodology and understanding of medical education. Twenty-eight faculty members from different disciplines attended the programme.
 2. Two workshops on Writing a Research Paper in collaboration with The National Medical Journal of India.
 3. Four Microteaching Sessions for faculty members who had joined recently
 4. Sixteen workshops for faculty and residents on different topics
 5. Six workshops for MSc Nursing Students
 6. Seventeen AIIMS Cardiac Resuscitation Training Programmes
 7. Twenty-three lectures, under the aegis of Clinical Epidemiology Unit
 8. Seventeen training programme in collaboration with ORBO
 9. Eleven programme for administration staff and nurses
- **CMET Hall utilization:** CMET extended logistic support, including audio-visual to various departments to organize workshops/CMEs. During the year, three CMET Halls—Education Hall, Technology Hall and the newly built Innovation Hall were used for 220, 173 and 27 days, respectively.
- **62nd Institute Day Exhibition:** CMET played a key role in organizing the Institute Exhibition from 24 to 26 September 2017.
 - Theme of the exhibition was 'Environment and Health.'
 - Honourable Health Minister, Government of India inaugurated the exhibition on 25 September 2017. The faculty and staff of AIIMS participated in it.
 - *Significant posters:* Posters showing importance of various types of environment, types of pollution, vision of Hon'ble PM Shri Narendra Modi, importance of reuse and recycle effect of pollutions on various organ and new disease due to environmental effects were the highlights of the exhibition.

- To give importance to the reuse and recycle, waste packaging material was used to prepare displays. Nursing students showcased items made of household waste. Old cold drink bottles were used to create a beautiful garden wall.
- Posters and videos of 42 departments/centres on the above theme were displayed.
- The exhibition was designed using easily portable panel display system and not a single nail or screw was used.
- A total of 90 posters (42x72 inch) with acrylic mounts and 6 video stations were placed on display.
- **Mini Health Exhibitions: 4**
 1. Autism Awareness: Together we can, 25 April 2017, Designed and printed 40 posters.
 2. Childhood Cancer Exhibition, 24 February 2018, Designed and printed 16 posters.
 3. RPC Day Exhibition, 10 March 2018, Designed and printed 39 posters.
 4. World Oral Health Day Exhibition, 27 March 2018, Designed and printed 30 posters.
- A desk calendar 2018 was designed with archival pictures of AIIMS.
- CMET photography team took around 2000+ high resolution photographs of the 45th Convocation held on 18 January 2018. All the photographs were uploaded on AIIMS website and made available to students free of cost.
- A 6-monthly (CMET Training) calendar was distributed well in advance to the faculty, residents and staff of AIIMS which resulted in better turnout of the participants.

Media-related achievements

Particulars	Total Number
Clinical/Event Photography and Scan, X-ray/CT/MRI/Slide (Requisitions: 365)	27,135
Colour Printing (A4/A3 size)	2500+
Video Recording and Editing	654 jobs
Designing/Printing of Large Format Posters	1821
On Screen Presentation Slides (Requisitions: 29)	2200
Certificates Prints A4 Size (CMET Workshops+Other Departments)	768

EDUCATION

A total of 97 Workshops/Lectures/Training Programmes were conducted as listed below.

S. No.	Topic of Workshop	Target Group	Date
<i>Faculty Development Activities (9 programmes)</i>			
1.	Quality Improvement in Healthcare		7 April 2017
2.	Writing a Research Paper		28-29 April 2017
3.	Microteaching		20 July 2017
4.	Grant Writing		11 August 2017
5.	Microteaching		31 August 2017
6.	Microteaching		14 September 2017
7.	Microteaching		25 January 2018
8.	Microteaching		8 February 2018
9.	Basic Course in Medical Education		14-16 March 2018
<i>Residents and Health Professionals' Skill Development Activities (17 programmes)</i>			
10.	Values in Healthcare		11 April 2017
11.	Developing Psycho-social and Interpersonal Skills		20 April 2017
12.	Advanced Wound Management		27 April 2017
13.	Preparing for a Better Journal Club		21 July 2017
14.	Know Your Laboratory		28 July 2017
15.	Information Retrieval in Health Sciences and Bibliography Management		3 August 2017
16.	Basic Course in Immunology		21-22 August 2017
17.	Good Bedside Transfusion Practices		8 September 2017

S. No.	Topic of Workshop	Target Group	Date
18.	Writing a Research Paper		12-13 October 2017
19.	Information Retrieval in Health Sciences and Bibliography Management		20 January 2018
20.	Developing Smart Phone App—A New Paradigm in Medical Education		31 January 2018
21.	Tools for Scientific Writing in Ms Word		3 February 2018
22.	Know Your Laboratory		7 February 2018
23.	Writing a Research Paper		15-16 February 2018
24.	Excel in Excel		17 February 2018
25.	Animation in PowerPoint		10 March 2018
26.	Designing Effective Presentation		24 March 2018
<i>Staff Development Activities (7 programmes)</i>			
27.	MACP and Pay Fixation	Staff of Main Hospital	4 August 2017
28.	Wound Care and Pressure Sore Prevention	Health Professionals	8 August 2017
29.	Wound Care and Pressure Sore Prevention	Health Professionals	October 2017
30.	Good Bedside Transfusion Practices	Health Professionals	16 October 2017
31.	Wound Care and Pressure Sore Prevention	Health Professionals	12 December 2017
32.	Developing Psycho-social and Interpersonal Skills	Health Professionals	28 February 2018
33.	Handling Disabilities Sensitization and Practical Know-how	Health Professionals	7 March 2018
<i>Workshops for MSc Nursing Students</i>			
34.	Information Retrieval in Health Sciences and Bibliography Management		10 August 2017
35.	Tools for Scientific Writing in MS Word		12 August 2017
36.	Effective Presentation		17 August 2017
37.	Designing Poster and Pamphlets		19 August 2017
38.	Animation in PowerPoint		24 August 2017
39.	Creativity		26 August 2017
<i>Under the aegis of Clinical Epidemiology Unit and in collaboration with KL Wig CMET-i, for the Fellowship Programme in "Clinical Research and Evidence Based Medicine" 23 (Twenty Three) lectures were conducted for the Faculty, Residents, PhD Students of AIIMS.</i>			
40.	Concept of Statistical Inference and Types of Error		5 April 2017
41.	Bias and Confounding		12 April 2017
42.	Principles of Statistical Analysis and Use of Statistical Software		19 April 2017
43.	Reporting of Results under Randomized Controlled Trials: CONSORT-2010		26 April 2017
44.	Understanding Odds Ratio, Relative Risk and NNT in relation to a treatment trial		3 May 2017
45.	Principles of Ethics in Clinical Research		17 May 2017
46.	Regression Model Session – 1		9 August 2017
47.	Regression Model Session – 2		16 August 2017
48.	Regression Model Session – 3		23 August 2017
49.	Regression Model Session – 4		30 August 2017
50.	Regression Model Session – 5		6 September 2017
51.	Regression Model Session – 6		13 September 2017
52.	Regression Model Session – 7		20 September 2017
53.	Regression Model Session – 8		27 September 2017
54.	Case-Control Study		1 November 2017
55.	Case-Control Study		8 November 2017

S. No.	Topic of Workshop	Target Group	Date
56.	Case-Control Study		15 November 2017
57.	Cohort Study		17 Jan 2018
58.	Cohort Study		24 Jan 2018
59.	Cohort Study		31 Jan 2018
60.	Cohort Study		7 Feb 2018
61.	Cohort Study		21 Feb 2018
62.	Diagnostic Test Study		28 Mar 2018
<i>American Heart Association accredited BLS and ACLS Provider Course conducted by AIIMS ITC in collaboration with KL Wig CMETi. (2017-18): (2 programmes)</i>			
63.	Basic Life Support (BLS) and Advanced Cardiac Life Support Course (ACLS)	Doctors and Nurses	24 and 25 April 2017
64.	Basic Life Support (BLS) and Advanced Cardiac Life Support Course (ACLS)	Doctors and Nurses	24 and 25 July 2017
65.-79.	<i>AIIMS Cardiac Resuscitation Training Programme for nurses, 15 programmes</i>		
80.-97.	<i>Training Programme on "Deceased Organ and Tissue Donation" programme being conducted by ORBO in collaboration with KL Wig CMET-I, 18 programmes</i>		

CMEs, National and International Conference

Lectures delivered

Yogesh Kumar

1. Information Retrieval in Health Sciences and Bibliography Management, 10 August 2017
2. Tools for Scientific Writing in MS Word, 12 August 2017
3. Effective Presentation, 17 August 2017
4. Designing Poster and Pamphlets, 19 August 2017
5. Animation in PowerPoint, 24 August 2017
6. Creativity, 26 August 2017
7. Information Retrieval in Health Sciences and Bibliography Management and tools for scientific writing, 7th Conference of Indian Association of Neonatal Nurses (IANN), 15 December 2017
8. Tools for Scientific Writing in MS Word, 20 January 2018
9. Tools for Scientific Writing in MS Word, 3 February 2018
10. Excel in Excel, 17 February 2018
11. Animation in PowerPoint, 10 March 2018
12. Basic Course in Medical Education, Session on (i) System Approach, (ii) Media in Education, (iii) e-Learning, 14-16 March 2018
13. Designing Effective Presentation, 24 March 2018

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor Anurag Srivastava developed a teaching video on 'Breast Self Examination for ASHA Workers' and 'Clinical Breast Examination for Nurses and Medical Officers' at Virtual Education Studio of AIIMS with Professor Manoj Singh, Department of Pathology.

11.10. Media and Protocol Division

Chairperson

Dr Aarti Vij

Additional Spokesperson

Dr Karan Madan

Staff

Sushil Kumar

Bishwanath Acharya

Sandeep Saxena

Press Conferences at AIIMS

S. No.	Date	Topic
1.	18 May 2017	Shri Anil Madhav Dave, Union Minister of State (Independent Charge) for Environment, Forest and Climate Change, was brought to AIIMS in the state of cardiac arrest
2.	15 June 2017	Bone donation and bone banking
3.	20 June 2017	Scientific basis of yoga research for good health and patient care
4.	14 July 2017	Plastic and reconstructive surgery
5.	15 July 2017	Craniophagus conjoined twin babies
6.	28 July 2017	Hepatitis in India
7.	9 August 2017	Vaccination in the elderly
8.	9 August 2017	Mr Sanwar Lal Jat, MP (Lok Sabha); Former Minister of State for Water Resources was admitted in Neurology ICU
9.	30 August 2017	Update information about Jaga and Baliya (Conjoined twins)
10.	1 September 2017	Visual impairment in elderly
11.	5 September 2017	32nd eye donation fortnight
12.	7 September 2017	7th International CME, workshop and conference on 'Cost effective use of technology in e-Hospital'
13.	8 September 2017	17th International Symposium on celiac disease
14.	12 September 2017	Preview of world's cheapest, smallest and most advanced completely made-in-India all-purpose portable ventilator
15.	29 September 2017	Eat healthy to save heart
16.	2 October 2017	Gandhi Jayanti: Swachh Swasth Jeevan Diwas on 2 October 2017
17.	10 October 2017	Mental health at work place
18.	12 October 2017	Arthritis
19.	21 October 2017	Honourable Vice President of India Shri M. Venkaiah Naidu undergoes a successful angioplasty at AIIMS, New Delhi
20.	24 October 2017	Launch of airlens
21.	25 October 2017	Stroke
22.	26 October 2017	Conjoined twins surgery
23.	29 October 2017	Safe practice of patients care in OT and Critical Care Units
24.	30 October 2017	Update information about Jaga and Kalia (Baliya) on 25 October at AIIMS
25.	1 November 2017	Craniophagus baby Jaga and Kalia by AIIMS
26.	1 November 2017	Signing off event
27.	7 November 2017	Conjoined twins admitted in AIIMS
28.	7 November 2017	Status report of burns patients admitted at JPN Apex Trauma Centre
29.	8 November 2017	Air pollution

S. No.	Date	Topic
30.	14 November 2017	Use antibiotics with caution
31.	23 November 2017	10 year old girl injured in a bomb blast in Afghanistan
32.	1 December 2017	Signing off event for MoU between AIIMS, New Delhi and IIFCL (India Infrastructure Finance Company Limited)
33.	16 January 2018	45th Convocation Summary
34.	4 February 2018	TPJ Foundation National Excellence Award
35.	10 February,2018	2nd Notional Conclave Virtual Teaching
36.	22 February 2018	Cancer pain is treatable, no need to live with pain
37.	5 March 2018	Start of OPD appointment booking over telephone
38.	7 March 2018	Kidneys and women's health
39.	10 March 2018	Dr RP Centre for Ophthalmic Sciences 51st Foundation Day
40.	18 March 2018	Unfortunate accident of resident doctors of AIIMS, New Delhi
41.	20 March 2018	World Oral Health Day celebration—Exhibition and Awareness Programme
42.	24 March 2018	Systematic Approach Conference on maxillofacial trauma
43.	24 March 2018	World TB Day

Public Lecture Series Program

S. No.	Public lecture	Date	Department
1.	Depression—Let's talk	7 April 2017	Psychiatric, PMR
2.	Autism from early detection to autonomy: Challenges and way forward	26 April 2017	Paediatrics, Obstetrics and Gynaecology, Psychiatry
3.	Hand hygiene and antimicrobial resistance	5 May 2017	RP Centre, Medicine, Paediatrics, CN Centre, Orthopaedics, Endocrinology
4.	Dengue	16 May 2017	Medicine, Paediatrics, Center for Community Medicine
5.	Life with MS (Multiple Sclerosis)	31 May 2017	Neurology
6.	Bone donation and bone banking	15 June 2017	Orthopaedics
7.	Scientific basis of yoga research for good health and patient care	20 June 2017	Physiology, Cardiology
8.	Plastic and reconstructive surgery	14 July 2017	Orthopaedics, Surgery, Biophysics
9.	Hepatitis in India	28 July 2017	Gastroenterology and Human Nutrition
10.	Vaccination in the elderly	9 August 2017	Geriatric Medicine, Microbiology
11.	Visual impairment in elderly	1 September 2017	RP Centre for Ophthalmic Sciences
12.	Eat healthy to save heart	29 September 2017	Cardiology
13.	Mental health at work place	10 October 2017	Psychiatrics
14.	Stroke	25 October 2017	Neurology
15.	Use antibiotics with caution	14 November 2017	Orthopaedics, Medicine, Microbiology, Paediatrics, Laboratory Medicine, NCDC, Pulmonary Medicine and Sleep Disorders, Hospital Administration
16.	Cancer pain is treatable, no need to live with pain	22 February 2018	IRCH
17.	Childhood cancer is treatable	26 February 2018	Paediatrics, IRCH, Surgery
18.	Kidneys and women's health	7 March 2018	Nephrology, Paediatrics, Surgery, Obstetrics and Gynaecology, Haematology

The Media and Protocol Division arranged coverage on government and private electronic channels on the following subjects:

Eye Donation	To raise awareness around Heart Failure (HF)	Dengue
Stroke and Dementia	Umbilical cord blood banking in public and private sector	
Social media addiction	Vector borne diseases: Prevention and care	Phone addiction
Challenges of IVF treatment	Doctors demand that they be granted licences to keep a weapon for self defence	Prevailing air conditions in Delhi
Due to obesity and symptoms in children	Broader issues that concern healthcare in the country	Gaming addiction
Internet de-addiction	The role of laboratory technologist in diagnosis	New segment Kaam Ki Baat
Spiegel online	Pollution crisis in National Capital Region	
Aaj Ki Baat	Cellphone addiction among toddlers/pre-teen /teens	How to be fit and Healthy
Epilepsy	Evaluation of the effect of Sanskrit language on brain using MRI	

The above coverage was done on the following channels: Rajya Sabha, Lok Sabha TV, DD (Doordarshan), All India Radio, All India Radio (Urdu Service), Doordarshan Kisan TV, BBC-Hindi, ARD German Radio, Arte TV - French German Channel, France 24, SBS Sydney, Aajtak, NBC Awaaj, Kaling TV, OTV, News 7, Prameya TV, Times Now, APN News, Hindi News 18.com, VICE NEWS, India TV, CNBC Awaaz, Tata Sky, Grasshopper Media, India TV.

AIIMS in News

S. No.	Date	Title	Newspaper
1.	3 April 2017	औटिज्म के शिकार बच्चों के लिए एप	हिंदुस्तान
2.	6 April 2017	Shot 9 times, Cheetah out of coma	The Asian Age
3.	6 April 2017	चीता ने मौत को जीता	जनसत्ता
4.	7 April 2017	खुदकशी के जेनेटिक कारणों का पता लगाएगा एम्स	दैनिक जागरण
5.	7 April 2017	Depression: An illness that seeks a friend	The Times of India
6.	7 April 2017	खुदकशी के जेनेटिक कारणों का पता लगाएगा एम्स	दैनिक जागरण
7.	16 April 2017	इंसुलिन से संभव हो सकता है ग्लूकोमा का इलाज	दैनिक जागरण
8.	18 April 2017	एम्स के हवाले होगा ग्रैनो का आयुर्विज्ञान संस्थान	दैनिक जागरण
9.	20 April 2017	श्री डी तकनीक से जल्द होगी कैसर सेल की पहचान	अमर उजाला
10.	20 April 2017	Docs at AIIMS seek 24-hour routine tests	The Times of India
11.	21 April 2017	3 साल के बच्चे की आँख की बचाई रोशनी, इस तरह की सर्जरी करने वाला देश का पहला सरकारी अस्पताल बना एम्स	नवभारत टाइम्स
12.	21 April 2017	मल्टीपल स्क्लेरोसिस से पीड़ित का हुआ बोन मेरो प्रतायरोपण	दैनिक जागरण
13.	23 April 2017	Radiation therapy restores vision of three year old with eye cancer	The Indian Express
14.	23 April 2017	एम्स को प्लक ब्रेची थेरेपी में मिली सफलता	अमर उजाला
15.	1 May 2017	Tunnel connecting AIIMS with Trauma Centre open: Travel time now 5 minutes	The Indian Express
16.	1 May 2017	Coming soon! Club for stressed AIIMS doctors to chill out	The Pioneer
17.	1 May 2017	Club with rooftop eatery on the anvil for AIIMS doctors	The Asian Age
18.	4 May 2017	22 मिनट में एम्स लाया गया हार्ट	नव भारत टाइम्स
19.	5 May 2017	एम्स में बेड हो जाएंगे दोगुने	नव भारत टाइम्स
20.	5 May 2017	एम्स में मरीजों के लिए 1500 बिस्तर बढ़ेंगे: नड़ड़ा	हिंदुस्तान
21.	5 May 2017	एम्स में इलाज के लिए नहीं करना होगा लंबा इंतजार	अमर उजाला
22.	5 May 2017	दिल्ली एम्स में 3119 करोड़ की लागत से 1563 बिस्तर बढ़ाने का प्रस्ताव	जनसत्ता
23.	6 May 2017	जवान को ग्रीन कॉरिडोर से एम्स में किया शिफ्ट	दैनिक जागरण
24.	6 May 2017	एम्स में एक हजार बेड के सुपर स्पेशलिस्ट ब्लॉक हो निर्माण	दैनिक जागरण
25.	6 May 2017	एम्स के लिए एनजीटी ने दी गाड़ियों की इजाजत	नव भारत टाइम्स

S. No.	Date	Title	Newspaper
26.	14 May 2017	The Robotic HAND	The Times of India
27.	15 May 2017	औटिज़्म से पीड़ित तीन चोथाई बच्चो को अनिन्द्रा	हिंदुस्तान
28.	16 May 2017	AIIMS, I-Day gift for poor, aspirants	Mail Today
29.	16 May 2017	All medical tests below Rs 500 to be free at AIIMS	Hindustan Times
30.	16 May 2017	AIIMS to get Dharamshala for outstation patients, relatives	Hindustan Times
31.	17 May 2017	एम्स मे जांच फ्री, प्राइवेट वार्ड महंगे	नव टाइम्स
32.	20 May 2017	Elderly woman gets a golden knee after surgery at AIIMS	The Asian Age
33.	20 May 2017	एम्स मे महिला का गोल्डेन नी रिप्लेसमेंट	अमर उजाला
34.	20 May 2017	एम्स मे गोल्डेन नी ट्रांसप्लांट	नवभारत टाइम्स
35.	21 May 2017	एम्स ने ऑस्ट्रेलियाई विश्वविद्यालय के साथ किया समझौता	जनसता
36.	25 May 2017	Former AIIMS Director awarded with rare honorary fellowship	The Statesman
37.	29 May 2017	अब विडियो कॉन्फ्रेंसिंग से कराईये एम्स मे इलाज	दैनिक जागरण
38.	5 June 2017	Sponge to stop bleeding, herbs for burns to be tested at AIIMS	The Indian Express
39.	8 June 2017	8-month-old youngest tooth decay victim at AIIMS	Mail Today
40.	10 June 2017	Why resistance to antibiotics is fast becoming a big killer	The Times of India
41.	12 June 2017	How do we gain from trips abroad, AIIMS asks faculty	Indian Express
42.	13 June 2017	एम्स मे जांच व इलाज शुल्क की समीक्षा शुरू	दैनिक जागरण
43.	14 June 2017	Obesity doubles among kids and triples in adults	Hindustan Times
44.	14 June 2017	Immunotherapy show promise to fight cancer	The Statesman
45.	16 June 2017	मेडिकल शिक्षा का मक्का 'एम्स'	अमर उजाला
46.	19 June 2017	कालाजार के इलाज के लिए ओरल दावा तैयार	अमर उजाला
47.	21 June 2017	योगासन से माइग्रेन के दर्द का इलाज संभव	हिंदुस्तान
48.	21 June 2017	दवा के साथ योग इलाज मे ज्यादा असरदार	दैनिक जागरण
49.	21 June 2017	योग 'आसान' पर एम्स लाएगी दिशा- निर्देश	दैनिक जागरण
50.	22 June 2017	एम्स मे गरीबो को इलाज मे मिल सकती है राहत	दैनिक जागरण
51.	22 June 2017	विभिन्न अस्पतालो मे डॉक्टरो और नर्सों ने किया योग	दैनिक जागरण
52.	23 June 2017	Combining yoga with modern medicine can give better results	Mail Today
53.	24 June 2017	Reach AIIMS sharp on time now	Mail Today
54.	25 June 2017	AIIMS hopes for more donor for bone bank	The Hindu
55.	28 June 2017	AIIMS मे अब नहीं करना होगा इंतजार	नव भारत टाइम्स
56.	30 June 2017	Are eye drops the answer to viral infection?	The Times of India
57.	1 July 2017	कैंसर और दिल के छेद से मासूम को उबारा	हिंदुस्तान
58.	1 July 2017	छह बार कैंसर होने के बाद भी ठीक किया	हिंदुस्तान
59.	1 July 2017	19 बीमारियो की बूकलेट तैयार करवाई	हिंदुस्तान
60.	4 July 2017	AIIMS to adopt 50 old people	The Statesman
61.	4 July 2017	AIIMS to adopt 50 senior citizens, differently abled	The Asian Age
62.	5 July 2017	23 मिनट मे एयरपोर्ट से एम्स पहुचाया लिवर	अमर उजाला
63.	5 July 2017	ग्रीन कॉरिडोर के जरिये 23 मिनट मे एम्स पहुचाया लिवर	हिंदुस्तान
64.	6 July 2017	AIIMS researching on new chemo variant	The Statesman
65.	9 July 2017	बुजुर्गों के इलाज के लिए शुरू होगे सेटेलाइट सेंटर	दैनिक जागरण
66.	10 July 2017	एम्स को डिजिटल बनाने व ओपीडी मे सुधार के लिया कमेटी गठित	अमर उजाला
67.	12 July 2017	AIIMS bank is no longer bone dry	Mail Today
68.	15 July 2017	AIIMS to set up skin bank, also plans to develop artificial skin	The Indian Express
69.	15 July 2017	AIIMS to launch skin bank	The Pioneer
70.	15 July 2017	AIIMS to have skin bank soon	The Statesman
71.	15 July 2017	AIIMS docs to try separating twins joined at head	The Hindu

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72.	15 July 2017	AIIMS to separate conjoined twins	The Asian Age
73.	16 July 2017	मस्तिष्क से जुड़े बच्चों का ऑपरेशन एम्स के लिए बड़ी चुनौती	दैनिक जागरण
74.	16 July 2017	सिर से जुड़े दो मासूम ऑपरेशन के जरिये होंगे अलग अलग	हिंदुस्तान
75.	16 July 2017	Conjoined twins knock AIIMS door	Mail Today
76.	16 July 2017	AIIMS docs to decide if surgery possible on conjoined twins	The Statesman
77.	16 July 2017	सिर से जुड़े दो बच्चों की एम्स में होगी सर्जरी	जनसत्ता
78.	16 July 2017	बच्चों की सर्जरी हे चैलेंज	नवभारत टाइम्स
79.	16 July 2017	Toughest challenge yet at AIIMS: Twins joined at the head	The Indian Express
80.	17 July 2017	Ready to eat sprouts unhealthy, reveals study	The Pioneer
81.	23 July 2017	Heard of this deafness test?	The Hindu
82.	24 July 2017	एम्स में हाथ भी हो सकेगे अब ट्रांसप्लांट, तैयारी	दैनिक भास्कर
83.	25 July 2017	Poor spend a fortune on even basic healthcare	The Times of India
84.	28 July 2017	हेपेटाइटिस-सी का कारण बन सकता है टैटू	दैनिक जागरण
85.	29 July 2017	हेपेटाइटिस-सी का इलाज चार दवाओं से आसान	हिंदुस्तान
86.	29 July 2017	एम्स में ओपीडी और जांच होगी मुफ्त, एम्स में 10 रुपये की रजिस्ट्रेशन फीस खत्म करने की तैयारी	नवभारत टाइम्स
87.	31 July 2017	एम्स ने बढ़ाई कैंसर मरीजों की जिंदगी, सर्जरी के दौरान ही डी जाती हे किमोथेरेपी	नवभारत टाइम्स
88.	20 August 2017	एम्स में रेंजिंग रोकने को छात्रा पर नजर रखेंगे सुरक्षा गार्ड	दैनिक जागरण
89.	20 August 2017	एम्स में बिस्तर बढ़ाए जाएंगे	हिंदुस्तान
90.	21 August 2017	एम्स में डॉक्टर सीखेंगे मसूड़ों की बीमारियों की जांच के तरीके	दैनिक जागरण
91.	29 August 2017	मस्तिष्क से जुड़े बच्चों की एम्स में मेराथन सर्जरी	दैनिक जागरण
92.	30 August 2017	सिर से जुड़े बच्चों की पहला चरण सफल	अमर उजाला
93.	30 August 2017	देश में पहली बार सिर से जुड़े बच्चों को अलग करने का ऑपरेशन, 20 डॉक्टरों ने 24 घंटे तक की सर्जरी, 25% मिली सफलता, अभी 3 ऑपरेशन और होंगे	दैनिक जागरण
94.	30 August 2017	एम्स में सिर से जुड़े बच्चों का ऑपरेशन शुरू	दैनिक जागरण
95.	30 August 2017	Conjoined twins survive 22-hour surgery, need more over 3 months	The Times of India
96.	30 August 2017	Odisha's conjoined twins complete first phase of separation surgery at AIIMS	The Statesman
97.	31 August 2017	जग्गा-बलिया की हालत में सुधार: सिर से जुड़े बच्चों की एम्स में पहली बड़ी सर्जरी, दोनों को होश आया	अमर उजाला
98.	1 September 2017	5 साल की रिसर्च के बाद कालाजार की ओरल दवा बनाई दिल्ली एम्स ने	दैनिक भास्कर
99.	2 September 2017	तंबाकू खाना आंखों के लिए भी नुकसानदेह	हिंदुस्तान
100.	2 September 2017	Tobacco may also make you blind: AIIMS	The Asian Age
101.	2 September 2017	Tobacco may cause blindness: AIIMS docs	The Times of India
102.	2 September 2017	कैंसर के साथ साथ अंधेपन की भी वजह बन रहा तंबाकू	दैनिक भास्कर
103.	2 September 2017	तंबाकू बना रहा हे लोगों को अंधा	नवभारत टाइम्स
104.	2 September 2017	मोतियाबिंद अब भी छीन रहा आंखों की रोशनी	दैनिक जागरण
105.	2 September 2017	स्टेरॉयड आई ड्रॉप भी बन रहे दृष्टिहीनता का कारण	दैनिक जागरण
106.	2 September 2017	Tobacco may cause irreversible blindness: AIIMS doctors	The Statesman
107.	6 September 2017	एम्स में नर्सिंग व टेक्नीशियन स्टाफ को अंगदान की ट्रेनिंग	अमर उजाला
108.	6 September 2017	एम्स में अंगदान के लिए प्रशिक्षण	हिंदुस्तान
109.	6 September 2017	AIIMS now training technicians to retrieve body organs: Doctor	The Statesman
110.	6 September 2017	AIIMS: 50 सालों में पहली बार नेत्र दान बढ़ा	नवभारत टाइम्स
111.	6 September 2017	एम्स में नई तकनीक से आँख का ऑपरेशन	नवभारत टाइम्स
112.	7 September 2017	Beware if you are using traditional eye medicines	The Pioneer
113.	8 September 2017	Conjoined twins out of ICU, stable says AIIMS	The Indian Express

S. No.	Date	Title	Newspaper
114.	8 September 2017	Self medication reason for eye problem: Study	The Asian Age
115.	9 September 2017	Conjoined twins shifted out of ICU after surgery	The Asian Age
116.	9 September 2017	उत्तर भारत मे हर सौवा व्यक्ति सिलियक बीमारी से हे पीड़ित	दैनिक जागरण
117.	9 September 2017	Celiac disease more common in North India, reveals study	The Statesman
118.	10 September 2017	जल्दी अस्पताल पहुचानेमे मदद करेगा मोबाइल एप	दैनिक जागरण
119.	10 September 2017	सुविधा..... हृदय रोगियों के लिए मोबाइल एप लांच, नजदीकी अस्पतालो की मिलेगी जानकारी	दैनिक भास्कर
120.	10 September 2017	अब डॉक्टरो तक पहुचने मे मदद करेगा हार्ट अटैक एप	अमर उजाला
121.	12 September 2017	एम्स ने बनाया पॉकेट वेल्डिलेटर, 15 से 20 हजार मे जल्द मिलने लगेगा	दैनिक भास्कर
122.	12 September 2017	एम्स मे सबसे छोटा वेल्डिलेटर	नवभारत टाइम्स
123.	12 September 2017	वेल्डिलेटर ऐसा जो जेब मे भी आसानी से समा जाय	दैनिक जागरण
124.	13 September 2017	एम्स मे सबसे छोटे पोर्टेबल वेल्डिलेटर का प्रदर्शन	दैनिक जागरण
125.	13 September 2017	एम्स मे संबसे छोटे पोर्टेबल वेल्डिलेटर का ट्राइल सफल	अमर उजाला
126.	13 September 2017	अब वेल्डिलेटर भी आपकी जेब मे	नवभारत टाइम्स
127.	13 September 2017	Ventilator that can fit in pocket unveiled at AIIMS	The Asian Age
128.	16 September 2017	स्वाइन फ्लू और टीबी के मरीजो को जीवनदान दे रही एक्मों प्रणली	जनसत्ता
129.	21 September 2017	Milder form of dengue dominant this year: AIIMS	The Indian Express
130.	22 September 2017	40 की उम्र के बाद हर साल पीसीए जांच जरूरी	नवभारत टाइम्स
131.	22 September 2017	AIIMS docs want health for all	Mail Today
132.	23 September 2017	डॉक्टर भर्ती प्रक्रिया मे अनियमितता बरती गई	हिंदुस्तान
133.	24 September 2017	Cases of prostate cancer rising in rural India	The Asian Age
134.	25 September 2017	एम्स होगा हरा भरा, परिसर मे ही बनेगी मिथेन इथेन	दैनिक भास्कर
135.	26 September 2017	सोलर एनर्जी से चलेगा AIIMS	नवभारत टाइम्स
136.	26 September 2017	सफाई मे एम्स को पुरस्कार	हिंदुस्तान
137.	26 September 2017	कैंसर की स्क्रीनिंग के लिए एम्स ने शुरू किया विशेष क्लीनिक	दैनिक जागरण
138.	26 September 2017	AIIMS will use hospital disposal to produce CNG: Dr Randeep Guleria, Director AIIMS	Mail Today
139.	26 September 2017	Need to raise awareness on heart failure: Docs	The Pioneer
140.	27 September 2017	70% of Indian cancers preventable	The Times of India
141.	27 September 2017	New cancer unit AIIMS at early detection	Mail Today
142.	27 September 2017	सटीक डायग्नोसिस मे बने सहयोगी	दैनिक जागरण
143.	29 September 2017	देश मे हर साल 70 हजार हार्ट ट्रांसप्लांट की जरूरत, होते हे 70	दैनिक भास्कर
144.	29 September 2017	50 फीसदी भारतीय महिलाओ को हृदय रोग का खतरा	दैनिक जागरण
145.	29 September 2017	Risk of heart disease greater after menopause: Doctor	The Statesman
146.	29 September 2017	स्वस्थ रहना हे तो अपने दिल की आवाज़ सुनिए	हिंदुस्तान
147.	30 September 2017	आईआईटी दिल्ली और एम्स शुरू करेगे सांझा पीएचडी पाठ्यक्रम	जनसत्ता
148.	30 September 2017	खानपान मे रिफ्राइन से ज्यादा सरसो तेल ही सुरक्षित	दैनिक जागरण
149.	30 September 2017	एम्स मे एएमआरआई जांच शुरू, एंजियोप्लास्टी भी होगी जल्द	दैनिक जागरण
150.	5 October 2017	New AIIMS clinic hopes to clear fog of questions around cancer	The Indian Express
151.	6 October 2017	App for heart patients to help get instant treatment	The Hindu
152.	7 October 2017	Vaccination in elderly can save many lives: AIIMS Director	Drug Today
153.	8 October 2017	स्तन कैंसर के लिए अभियान चलाये चिकित्सक समाज	जनसत्ता
154.	11 October 2017	एम्स मे भर्ती 15% मरीज ही बिहार के	नवभारत टाइम्स
155.	13 October 2017	दिल्ली एम्स के विशेषज्ञ नए एम्स मे जाकर डॉक्टरो को प्रशिक्षित करेगे, छह नए एम्स की गुणवत्ता सुधरी जाएगी	हिंदुस्तान
156.	13 October 2017	फेफड़ो व हड्डियों को कमजोर कर रहा हे वायु प्रदूषण: एम्स	अमर उजाला

S. No.	Date	Title	Newspaper
157.	15 October 2017	एम्स में संक्रामक बीमारियों के इलाज के लिए शुरू होगा ब्लॉक	दैनिक जागरण
158.	25 October 2017	एयरलेंस' से रोज 15 रु में ले शुद्ध हवा में सांस	दैनिक भास्कर
159.	25 October 2017	बच्चों को प्रदूषण से बचाएगा 15 रुपये का नोज़ फ़िल्टर	दैनिक जागरण
160.	26 October 2017	डॉक्टर बता देंगे-10 साल बाद आपको कौन सी बीमारी होगी	नवभारत टाइम्स
161.	27 October 2017	एम्स की बड़ी कामयाबी, मगर बच्चों पर खतरा बरकरार, आखिर अलग हुई जगिया और बलिया	नवभारत टाइम्स
162.	27 October 2017	100 लोगों की टीम ने 16 घण्टे में अलग किए 180 डिग्री पर सिर से जुड़े ढाई साल के बच्चे, देश में पहला ऐसा केस	दैनिक भास्कर
163.	30 October 2017	Post-surgery, conjoined twins are still in ICU, but condition stable	The Pioneer
164.	30 October 2017	Conjoined twins stable after surgery: AIIMS	The Asian Age
165.	31 October 2017	नागपुर से हृदय लाकर एम्स में प्रत्यारोपण	दैनिक जागरण
166.	1 November 2017	भाई का दिल धड़का, पूरा परिवार अंगदान करेगा	हिंदुस्तान
167.	2 November 2017	Taken off ventilator support, one baby starts recognising mother	The Indian Express
168.	2 November 2017	सिर से जुड़े एक बच्चे को डॉक्टरों ने वेंटिलेटर से हटाया	हिंदुस्तान
169.	2 November 2017	जगिया वेंटिलेटर से बाहर, खुद सांस ले रहा	नवभारत टाइम्स
170.	2 November 2017	Conjoined twins stable: AIIMS	The Hindu
171.	2 November 2017	One of Odisha twins taken off ventilator	The Times of India
172.	2 November 2017	जग्गा को आया होश कालिया की हालत स्थिर	दैनिक जागरण
173.	2 November 2017	One conjoined twin off ventilator, other being monitored at AIIMS	The Statesman
174.	2 November 2017	One of the conjoined twins taken off ventilator	The Asian Age
175.	2 November 2017	Conjoined twins: One taken off ventilator	The Pioneer
176.	2 November 2017	सीधे एम्स पाहुंचेगी एयर एंबुलेंस	अमर उजाला
177.	3 November 2017	जग्गा की हालत में सुधार से परिजनो को राहत	हिंदुस्तान
178.	3 November 2017	One conjoined twin now on semi solid diet	The Statesman
179.	3 November 2017	Avoid morning walks in Delhi to save your lungs, say doctors	The Times of India
180.	3 November 2017	Stents fail to ease chest pain for many: Researchers	The Times of India
181.	4 November 2017	स्टेंट से सीने का दर्द दूर हो, जरूरी नहीं	अमर उजाला
182.	4 November 2017	कैंसर का काम तमाम करेगा इरिडियम	दैनिक जागरण
183.	4 November 2017	Conjoined twins surgery: Jaga out of ICU, Kalia still under observation	The Statesman
184.	4 November 2017	Conjoined twins: Jaga out of ICU, Kalia still under watch	The Asian Age
185.	4 November 2017	जगिया आईसीयू से बाहर	नवभारत टाइम्स
186.	4 November 2017	जग्गा को नौ दिन बाद वार्ड में शिफ्ट किया गया	दैनिक भास्कर
187.	4 November 2017	जग्गा बलिया के स्वास्थ्य में हल्का सुधार	अमर उजाला
188.	4 November 2017	Off ventilator, one baby moved to private ward	The Indian Express
189.	6 November 2017	कालिया की एम्स में सर्जरी की गई	हिंदुस्तान
190.	6 November 2017	Conjoined twins: Kalia undergoes plastic surgery	The Pioneer
191.	6 November 2017	एम्स में हुई बलिया की प्लास्टिक सर्जरी	नवभारत टाइम्स
192.	6 November 2017	Kalia undergoes surgery	The Hindu
193.	6 November 2017	बलिया के सिर को मिली त्वचा, दो घंटे चली सर्जरी	अमर उजाला
194.	6 November 2017	Parents of Odisha twins relieved, but unsure about what future holds	The Times of India
195.	6 November 2017	Stents out, pills are in, Study shows heart patients can be treated with simple medication	Mail Today
196.	6 November 2017	India can't afford to ignore mental health	The Asian Age
197.	8 November 2017	डॉक्टरों ने घोषित की मेडिकल इमर्जेंसी	दैनिक जागरण

S. No.	Date	Title	Newspaper
198.	8 November 2017	Docs' prescription: Stay indoors, leave city if need	The Times of India
199.	8 November 2017	Think twice before planning for baby	The Pioneer
200.	8 November 2017	Doctors urge children in the capital to demand clean air	The Hindu
201.	8 November 2017	हेल्थ इमरजेंसी, दमघोटू हवा ने किया परेशान, जारी हुई हेल्थ एडवाइजरी	नवभारत टाइम्स
202.	8 November 2017	जगिया को वर्ड से बाहर लाया गया	नवभारत टाइम्स
203.	8 November 2017	सिर से अलग होने के बाद पहली बार माँ ने बच्चे को उठाया गोद में	दैनिक जागरण
204.	8 November 2017	हालत में सुधार.....जग्गा पहली बार कमरे से कॉरिडोर में आया, बलिया की हालत नाज़ुक	दैनिक भास्कर
205.	8 November 2017	एम्स के कॉरिडोर में घूमा जग्गा, लेने लगा आहार	अमर उजाला
206.	8 November 2017	AIIMS twins: One out of ICU	Mail Today
207.	8 November 2017	Jaga shows improvement	The Hindu
208.	8 November 2017	Stephen's, Hindu in fray for govt's college rankings	Hindustan Times
209.	8 November 2017	एम्स की डॉक्टर ने जीता राष्ट्रपति पुतिन का दिल, रूस में मिली सराहना	अमर उजाला
210.	9 November 2017	खामोश हत्यारा है प्रदूषण: एम्स निदेशक	जनसत्ता
211.	9 November 2017	स्मॉग से बचने का सिर्फ एक तरीका, घर में रहे	दैनिक भास्कर
212.	9 November 2017	Situation is like the killer Great Smog of London: AIIMS chief	The Statesman
213.	9 November 2017	दिल्ली एनसीआर में 30 हजार लोगों की हो चुकी है मौत: एम्स	अमर उजाला
214.	9 November 2017	दिल्ली का प्रदूषण साइलेंट किलर: AIIMS	दैनिक जागरण
215.	9 November 2017	Number of patients with respiratory problems surge	The Pioneer
216.	9 November 2017	Respiratory cases rise by 20% across Capital	Hindustan Times
217.	9 November 2017	Delhi chokes for second day	The Hindu
218.	9 November 2017	कम उम्र में आक्रामक होते जा रहे हैं बच्चे	नवभारत टाइम्स
219.	10 November 2017	Delhi pollution kills around 30,000 people each year	Hindustan Times
220.	10 November 2017	City hospitals see 20% rise in respiratory distress cases	The Hindu
221.	10 November 2017	प्रदूषण से कितनी बीमारी, अब एम्स करेगा रिसर्च	नवभारत टाइम्स
222.	10 November 2017	प्रदूषण की वजह से 20% मरीज बढ़े	जनसत्ता
223.	10 November 2017	When AIIMS junior doctor had an appointment with President Putin	The Indian Express
224.	11 November 2017	Pollution causing arthritis to flare up, 20% rise in patients at hospitals	The Times of India
225.	11 November 2017	युवा भी हो रहे फेफड़ों के कैंसर से पीड़ित	दैनिक जागरण
226.	13 November 2017	प्रदूषण का अंगो पर चौतरफा वार	हिंदुस्तान
227.	13 November 2017	Every Breath you take	Hindustan Times
228.	14 November 2017	मधुमेह टाइप-2 से पीड़ित हो रहे बच्चे	दैनिक जागरण
229.	14 November 2017	31 इंच से मोती कमर वाली मधुमेह का अंदेशा	अमर उजाला
230.	15 November 2017	एंटीबीओटिक्स के फेल होने से AIIMS परेशान	नवभारत टाइम्स
231.	15 November 2017	AIIMS monitors antimicrobial resistance	The Statesman
232.	15 November 2017	आठ घण्टे के अंदर हो सकेगी संक्रामण की जांच	दैनिक जागरण
233.	17 November 2017	एम्स में 500 रुपये तक की जांच मुफ्त करने की सिफारिश	दैनिक जागरण
234.	17 November 2017	AIIMS conducts pilot study to justify proposal on user charges	The Statesman
235.	19 November 2017	Pollution is a silent killer with long term impact. Need urgent multi pronged approach to tackle it	The Indian Express
236.	19 November 2017	Challenging journey	The Statesman
237.	20 November 2017	Doubts on utility persist but sale of air purifiers soars	The Times of India
238.	20 November 2017	एम्स के साथ कम करेगा ब्रिटिश मेडिकल जनरल	अमर उजाला
239.	21 November 2017	पीठ से फेफड़ों में घुसा सुआ निकालकर दिया जीवन	अमर उजाला
240.	21 November 2017	For one AIIMS twins, a reintroduction to toy	The Indian Express
241.	24 November 2017	10 year child Afghan blast victim being treated at AIIMS	The Statesman

S. No.	Date	Title	Newspaper
242.	24 November 2017	अफगानीस्तान की बम ब्लास्ट पीड़िता को एम्स के डॉक्टरों ने डी ज़िंदगी	दैनिक जागरण
243.	25 November 2017	एम्स: धूल से और बीमार हो रहे मरीज	नवभारत टाइम्स
244.	26 November 2017	सर्जरी के 25 दिन बाद बलिया ने खोली आंखें	दैनिक भास्कर
245.	27 November 2017	Jaga, Kalia are doing fine	The Hindu
246.	27 November 2017	Second twin taken off ventilator, stable	Hindustan Times
247.	27 November 2017	ओड़ीशा के सीएम पटनायक जग्गा बलिया को देखने पहुंचे एम्स	दैनिक भास्कर
248.	28 November 2017	फेफड़े में 5 इंच का सुआ, खास सर्जरी से बची जान	नवभारत टाइम्स
249.	29 November 2017	एम्स ट्रौमा सेंटर में भी शुरू हुआ प्राइवेट वार्ड	दैनिक जागरण
250.	1 December 2017	पीएम के फिजिशियन बने एम्स फ्रैक्चर एसोशिएशन के अध्यक्ष	दैनिक जागरण
251.	2 December 2017	एम्स में तंत्रिका विकास संबंधी विकारों के लिए बना अनुसंधान केंद्र	दैनिक जागरण
252.	7 December 2017	Impact on health to be examined through tiny sensors	The Pioneer
253.	8 December 2017	AIIMS ट्रौमा सेंटर में इजराइल सिस्टम कामयाब	नवभारत टाइम्स
254.	11 December 2017	एम्स के हवाले होगा सेक्टर-30 का बाल चिकित्सा और पीजी संस्थान	जनसत्ता
255.	15 December 2017	Subway shut, homeless near AIIMS stranded in cold	The Indian Express
256.	16 December 2017	Free medical check up at night shelters	The Times of India
257.	25 December 2017	New device to catch hearing loss in children	Mail Today
258.	30 December 2017	दिल्ली एम्स की छमता होगी दोगुनी	अमर उजाला
259.	30 December 2017	Going their own separate ways	The Times of India
260.	30 December 2017	सबसे बड़ी सफलता: देश में पहली बार 180 डिग्री सिर से जुड़े बच्चों की सफल सर्जरी	दैनिक जागरण
261.	1 January 2018	एम्स में बनकर तैयार 300 बेड की धर्मशाला को शुरू होने का इंतजार	दैनिक जागरण
262.	1 January 2018	सर्जरी से युवक के फेफड़ों में घुसा सुआ निकाला	हिंदुस्तान
263.	2 January 2018	एम्स में 500 तक की जांच हो सकती है फ्री	नवभारत टाइम्स
264.	7 January 2018	When a bullet shot turned into a time bomb as years ticked by	The Times of India
265.	7 January 2018	युवक के सीने से एम्स के डॉक्टर ने निकले 97 छर्चे, बचाई जान	दैनिक जागरण
266.	8 January 2018	This team of doctors took AIIMS from Delhi all the way to Ladakh	The Indian Express
267.	23 January 2018	एम्स के ट्रौमा सेंटर में पहली बार शुरू हुआ 11 बेड का प्राइवेट वार्ड, रोजाना चुकाने होंगे दो से तीन हजार रु०	दैनिक भास्कर
268.	2 February 2018	एम्स को मिला 3018 करोड़ का भारी भ्रकम बजट	दैनिक जागरण
269.	11 February 2018	इलाज का सही तरीका बताएगा एम्स का सॉफ्टवेयर	नवभारत टाइम्स
270.	11 February 2018	जग्गा बलिया को महीने के अंत में छुट्टी मिलेगी	हिंदुस्तान
271.	11 February 2018	मॉडल वीडियो से सीख सकेंगे जूनियर डॉक्टर	अमर उजाला
272.	12 February 2018	3डी सिर पर 125 डॉक्टरों ने की प्रेक्टिस, सर्जरी के बाद नया जीवन	अमर उजाला
273.	13 February 2018	AIIMS doctors ask for more responsible sweeping	The Hindu
274.	13 February 2018	एम्स के सहयोग से आईटीओ पर खुलेगा कैंसर केयर सेंटर	दैनिक जागरण
275.	23 February 2018	AIIMS rolls out measures for complete care	The Hindu
276.	26 February 2018	अंकर मरीजों की वेटिंग कम करने पर काम कर रहा एम्स	अमर उजाला
277.	2 March 2018	शावर से नशा उतारेगा AIIMS, पूरी तैयारी	नवभारत टाइम्स
278.	5 March 2018	New treatment regime for peritoneal cancers	The Pioneer
279.	5 March 2018	Cancer diagnosis, treatment has grown in leaps and bounds	The Hindu
280.	5 March 2018	Taking the fight against cancer to a new level	The Hindu
281.	5 March 2018	एनसीआई पहला सरकारी अस्पताल, जहां प्रोटॉन थेरेपीसे होगा कैंसर का इलाज	दैनिक भास्कर
282.	5 March 2018	एम्स में पहली बार नर्स के नाम पर लैब	हिंदुस्तान
283.	6 March 2018	एम्स में त्वचा रोगों के लिए मशीन	हिंदुस्तान
284.	7 March 2018	एम्स आईवीरस हेल्पलाइन दोबारा शुरू	दैनिक जागरण

S. No.	Date	Title	Newspaper
285.	8 March 2018	National Cancer Institute to start in Jhajjar, Haryana, on September 1	Drug Today
286.	11 March 2018	आंखों में तिरछापन होने से कैंसर का खतरा	हिंदुस्तान
287.	11 March 2018	दोपहर 12 से 2 तक आंखों को खतरा	नवभारत टाइम्स
288.	11 March 2018	एम्स में श्री डी तकनीक से हो रही रेटिना सर्जरी	दैनिक भास्कर
289.	11 March 2018	High prevalence of conjunctivitis in NCR: Study	The Asian Age
290.	12 March 2018	डाइबिटिक रेटिनोपैथीके मरीजों की संख्या 12 साल में होगी दोगुनी	दैनिक भास्कर
291.	13 March 2018	एम्स में 50% मरीजों का ऑनलाइन पंजीयन	अमर उजाला
292.	16 March 2018	Blue Whale game does exist, find AIIMS	The Times of India
293.	17 March 2018	एम्स के डॉक्टरों ने ब्लू व्हेल गेम से बच्चे को बचाया	दैनिक जागरण
294.	21 March 2018	दाँतों पर शोध के लिए बनेगा अलग sansthan	अमर उजाला
295.	21 March 2018	खराब होने पर दौबरा आएंगे असली दाँत	दैनिक जागरण
296.	23 March 2018	AIIMS takes a goat's eye view to train doctors	Mail Today
297.	24 March 2018	अब ड्रोन से टीबी के पर कतरेगा एम्स	दैनिक जागरण
298.	28 March 2018	Odisha's conjoined twins all set to make a journey back home	Mail Today
299.	28 March 2018	AIIMS to open wellness clinic for docs	The Times of India
300.	28 March 2018	3डी तकनीक से आंखों की सर्जरी	दैनिक जागरण
301.	29 March 2018	सीआरपीफ जवान मनोज तोमर एम्स में भर्ती, सर्जरी आज	दैनिक जागरण
302.	31 March 2018	सीआरपीफ जवान की एम्स में हुई सफल सर्जरी, पॉलिथिन से मिली मुक्ति	दैनिक जागरण

12. Publications

Journals

1. Aathira R, Gulati S, Tripathi M, Shukla G, Chakrabarty B, Sapra S, et al. Prevalence of Sleep Abnormalities in Indian Children With Autism Spectrum Disorder: A Cross-Sectional Study. *Pediatr Neurol.* 2017;74:62-7.
2. Abarca-Gomez L, Abdeen ZA, Hamid ZA, Abu-Rmeileh NM, Acosta-Cazares B, Acuin C,...Kusuma YS, et al. Worldwide trends in body mass index, underweight, overweight and obesity from 1975 to 2016: A pooled analysis of 2,416 population-based measurement studies in 128.9 million children, adolescents, and adults. *Lancet.* 2017;390:2627-42.
3. Acharya AS, Kaur R, Goel AD. Neglected tropical diseases—Challenges and opportunities in India. *Indian J Med Spec.* 2017;8:102-8.
4. Acharya P, Garg M, Kumar P, Munjal A, Raja KD. Host-Parasite Interactions in Human Malaria: Clinical Implications of Basic Research. *Front Microbiol.* 2017;8:889.
5. Agarwal A, Vibha D, Prasad K, Bhatia R, Singh MB, Garg A, et al. Predictors of poor visual outcome in patients with Idiopathic Intracranial Hypertension (IIH): An ambispective cohort study. *Clin Neurol Neurosurg.* 2017;159:13-8.
6. Agarwal A, Vibha D, Srivastava AK, Shukla G, Prasad K. Guillain-Barre syndrome complicating chikungunya virus infection. *J Neurovirol.* 2017;23:504-7.
7. Agarwal K, Hariprasad G, Rani K, Sharma U, Mathur SR, Seenu V, et al. Is there an association between enhanced choline and β -catenin pathway in breast cancer? A pilot study by MR Spectroscopy and ELISA. *Sci. Rep.* 2017;7:2221.
8. Agarwal K, Sharma U, Sah RG, Mathur S, Hari S, Seenu V, et al. Pre-operative assessment of residual disease in locally advanced breast cancer patients: A sequential study by quantitative diffusion weighted MRIs as a function of therapy. *Magn Reson Imaging.* 2017;42:88-94.
9. Agarwal R, Mohapatra S, Rath GP, Kapil A. Active surveillance of Health care associated infection in neurosurgical patients. *J Clin Diagn Res.* 2017;10:DC01-DC04.
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Abstracts

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13. Finance Division

Senior Financial Advisor

Raj Kumar, IAAS
(up to 31 August 2017)

Neeraj Kumar Sharma, ICAS
(from 1 September 2017)

Financial Advisor

Jairam Bhojwani, IAAS
(up to 15 February 2018)

Narender Bhatia, IAAS
(from 23 March 2018)

Finance and Chief Accounts Officer

Ajeet Kumar

Surinder Kumar

Accounts Officer

Vijay Pal
Smt. Rakesh Sharma
Trilok Chand

Lalit Mohan Joshi
Smt. Meenakshi Dabral
Padam Singh
Maheshwar Nath

D.K. Gupta
Smt. Meera Gupta
Prem Pal

The Institute, as an Autonomous Body under the control of Ministry of Health and Family Welfare (MoHFW), receives budgetary support from the Government of India (GoI) in the form of Grant-in-Aid under heads Salary, General and Capital Creation. Grants are also received for National Drug Dependence Treatment, separately, from MoHFW, GoI. Besides, extramural grants are also received from various external funding agencies such as ICMR, DST, CSIR, WHO, UNICEF, DBT, etc. for various research projects.

Grants-in-aid so received from the Government of India and other agencies are further allocated to super specialty centres/departments/research section as per their projections / requirements.

Functions of Finance Division (FD)

Budget-related:

Head of Accounts	F.Y. 2017-18
Grants-in-Aid: Creation of Capital Assets	936.00
Grants-in-Aid: General	620.00
Grants-in-Aid: Salary	1411.00
Institutional Internal Accruals	151.00
Total	3118.00

Project formulation and appraisal: The Institute is growing in terms of load of patient-care, medical education and research. In order to provide the services, AIIMS is expanding at a fast rate. There are several ongoing projects worth over Rs 4200 crores. The projects are of very high value and critical to carry out the mandate of AIIMS. The FD helps the Standing Finance Committee (of AIIMS) and MoHFW in ensuring compliance, prioritization and concurrence of projects. Recently, Director, AIIMS has been delegated financial powers up to Rs 20 crores and this requires matching capacity, competency and strength of the financial cadre at AIIMS.

Financial Concurrence: Each year several hundred proposals for procurement of machinery & equipments, rate contract for chemicals, medicines, contract for services, etc. are received in FD for financial concurrence/advice. This is very critical to ensure the best value for money to public exchequer. The Machinery & Equipments purchase was over Rs 250 crores in 2017-18 and is projected to be more than Rs 300 crores in 2018-19.

Pre-check of bills and payment: Thousands of bills on account of personal claims, procurement of goods & services through GeM, tendering, etc. are processed and paid. While making payments, all prescribed checks are exercised by the FD. The FD caters to more than 15000 employees and pensioners and 2662 students.

AIIMS receipts (internal accruals) and adjustments: On accounts of patient care services, examination & recruitment, academics, and deductions/contributions, AIIMS received receipts of over Rs 150 crores (2017-18). This is ploughed back for institutional expenditure to supplement Grants-in-Aid-General.

Compilation, reconciliation and Accounts: AIIMS receives its budgetary support in the form of Grant-in-Aid releases from MoHFW based on Utilization Certificates. FD prepares UCs on monthly basis for submission to the Ministry. AIIMS is a central autonomous body and has to compile the Annual Accounts by 30th June each year and submit the same for audit by C&AG's team. The Annual Accounts along with Audit Report is tabled by MoHFW in the Parliament. All these are time-bound activities.

Internal Audit: With increased activities and expansion of AIIMS, the number of units required to be audited annually has gone up substantially.

All the above functions are executed by Financial Advisor, Finance & Chief Accounts Officers (F&CAOs)/Accounts Officers and staff of Finance Division under overall control of Senior Financial Advisor.

13.1. Budget and Finance

ALL INDIA INSTITUTE OF MEDICAL SCIENCES (MAIN) BALANCE SHEET AS AT 31-03-2018

(Amount-Rs.)

CORPUS/CAPITAL FUND AND LIABILITIES	Schedule	2017-18	2016-17
Corpus/Capital fund and Liabilities	1	37181444955	27266998170
Reserves and Surplus	2	3216644653	2440747333
Earmarked/Endowment Fund	3	73185700	67966668
Secured Loans & Borrowings	4	0	0
Unsecured Loans & Borrowings	5	0	0
Deferred Credit Liabilities	6	0	0
Current Liabilities and Provisions	7	2256923923	2184369181
TOTAL		42728199231	31960081352
ASSETS			
Fixed Assets	8	29892284054	25952060618
Investments from Earmarked / Endowment funds	9	50010000	50510000
Investments-others	10	253253424	233253424
Current Assets, Loan & Advances etc.	11	12532651753	5724257310
Misc. Expenditure (to the extent not written off or adjusted)			
TOTAL		42728199231	31960081352
Accounting policies and notes forming part of accounts	24		

Accounts Officer

Financial Advisor

Sr. Financial Advisor

Director

ALL INDIA INSTITUTE OF MEDICAL SCIENCES (MAIN)
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31-03-2018

(Amount-Rs.)

INCOME	Schedule	2017-18	2016-17
Income from Sales/Services	12	311381385	273186203
Grants/Subsidies	13	12897041408	10695465086
Fees/Subscriptions	14	137345952	107785622
Income from Investments (Income on Invest. From earmarked/endow.Funds transferred to funds)	15	0	0
Income for Royalty, Publication etc.	16	0	0
Interest Earned	17	242008004	121772721
Other Income	18	927053379	563984900
Increase/(decrease) in stock of Finished goods and works-in-progress	19	0	0
TOTAL (A)		14514830128	11762194532
EXPENDITURE			
Establishment Expenses	20	8936739835	7331838386
Other Administrative Expenses etc.	21	1807479112	908430060
Material and supply	21B	2997628780	3132874030
Expenditure on Grants, Subsidies etc.	22	0	0
Interest	23	0	1447344
Depreciation (Net Total at the year-end - corresponding to Schedule 8)			
TOTAL (B)		13741847727	11374589820
Balance being excess of Income over Expenditure (A-B)			387604712
Transfer to Special Reserve (Specify each)		772982401	
Transfer to /from General Reserve			
BALANCE BEING SURPLUS/(DEFICIT) CARRIED TO CORPUS/ CAPITAL FUND		772982401	387604712
TOTAL		14514830128	11762194532

Accounts Officer

Financial Advisor

Sr. Financial Advisor

Director

**ALL INDIA INSTITUTE OF MEDICAL SCIENCES
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018**

	Amount-Rs.)	
	2017-18	2016-17
SCHEDULE 1- CORPUS/CAPITAL FUND:		
Balances as at the beginning of the year	27266998170	21618023488
Add : Contributions towards Corpus/Capital Fund	9914462824	5749509499
Less Condemnation during the year	16039	100534817
BALANCE AS AT THE YEAR-END	37181444955	27266998170

	2017-18	2016-17
SCHEDULE 2- RESERVES AND SURPLUS:		
1. <u>Capital Reserve:</u>		
As per last Account		
Addition during the year	2914919	
Less: Deductions during the year		
2. Revaluation Reserve		
As per last Account		
Addition during the year		
Less: Deductions during the year		
3. Special Reserves		
As per last Account		
Addition during the year		
Less: Deductions during the year		
4. General Reserve		
As per last Account	2440747333	2053142621
Addition during the year	772982401	387604712
Less: Deductions during the year	0	0
TOTAL	3213729734	2440747333
	3216644653	2440747333

Accounts Officer

Financial Advisor

**ALL INDIA INSTITUTE OF MEDICAL SCIENCES
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018**

(Amount-Rs.)

SCHEDULE 3 - EARMARKED/ENDOWMENT FUNDS	2017-18	2016-17
a) Opening balance of the funds	67966668	
b) Additions to the Funds:		
i. Donations/grants		68534453
ii. Income from investments made on account of funds	219032	29284
iii. Other additions (specify nature) CSR	5000000	
TOTAL (a+b)	73185700	68563737
c) Utilisation/Expenditure towards objectives of funds	0	597069
i. <u>Capital Expenditure</u>		
- Fixed Assets		
- Others		
ii. <u>Revenue Expenditure</u>		
- Salaries, Wages and allowances etc.		
- Rent		
- Other Administrative expenses		
Total	0	597069
NET BALANCE AS AT THE YEAR-END (a+b-c)	73185700	67966668

Accounts Officer

Financial Advisor

ALL INDIA INSTITUTE OF MEDICAL SCIENCES
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018
 (Amount-Rs.)

	2017-18		2016-17	
<u>SCHEDULE 4-SECURED LOANS AND</u>				
<u>BORROWINGS:</u>				
1. Central Government				
2. State Government				
3. Financial Institutions				
a) Term Loans				
b) Interest accrued and due				
4. Banks:				
a) Term Loans				
- Interest accrued and due				
b) Other Loans (specify)				
- Interest accrued and due				
5. Other Institutions and Agencies				
6. Debentures and Bonds				
7. Others (Specify)				
<u>TOTAL</u>			0	0

Accounts Officer

Financial Advisor

**ALL INDIA INSTITUTE OF MEDICAL SCIENCES
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018**

	2017-18	2016-17
SCHEDULE 5 - UNSECURED LOANS AND BORROWING		
1. Central Government		
2. State Government		
3. Financial Institutions		
4. Banks:		
a) Term Loans		
b) Other Loans (specify)		
5. Other Institutions and Agencies		
6. Debentures and Bonds		
7. Fixed Deposits		
8. Others (Specify)		
TOTAL	0	0

Note: Amounts due within one year

	2017-18	2016-17
SCHEDULE 6 - DEFERRED CREDIT LIABILITIES:		
a) Acceptances secured by hypothecation of capital equipment and other assets		
b) Others		
TOTAL	0	0

Note: Amount due within one year

Accounts Officer

Financial Advisor

ALL INDIA INSTITUTE OF MEDICAL SCIENCES
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018

(Amount -Rs.)

SCHEDULE 7 - CURRENT LIABILITIES AND PROVISIONS	2017-18	2016-17
A. <u>CURRENT LIABILITIES AND PROVISIONS</u>		
1. Acceptances		
2. Sundry Creditors:		
a) For Goods		45935488
b) Others (Custom Duty to be paid)	18854849	
3. Advances Received		
4. Interest accrued but not due on:		
a) Secured Loans/borrowings		
b) Unsecured Loans/borrowings		
5. Statutory Liabilities:		
a) Overdue		
b) Others	2238069074	2138433693
6. Other current Liabilities		
TOTAL (A)	2256923923	2184369181
B. <u>PROVISIONS</u>		
1. For Taxation		
2. Gratuity		
3. Superannuation/Pension		
4. Accumulated Leave Encashment		
5. Trade Warranties/Claims		
6. Others (specify)		
TOTAL (B)		
TOTAL (A+B)	2256923923	2184369181

Accounts Officer

Financial Advisor

**ALL INDIA INSTITUTE OF MEDICAL SCIENCES (MAIN)
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018**

(Amount - Rs.)

SCHEDULE 8 FIXED ASSETS DISCRIPTION	GROSS BLOCK			DEPRECIATION			NET BLOCK			
	Cost/valuation As at beginning of the year	Additions during the year	Deductions during the year	Cost/ Valuation at the year end	As at the beginning of the year	On additions during the year	On Deductions during the year	Total up to the year-end	2016-17	2017-18
A. FIXED ASSETS:										
1 LAND:	841194087	0	0	841194087	0	0	0	0	841194087	841194087
a) Freehold/Leasehold									0	0
2 BUILDINGS:	13619736595	2883887564	0	16503624159	0	0	0	0	16503624159	13619736595
a) On Freehold Land									0	0
b) On Leasehold Land									0	0
c) Ownership Flats/Premises									0	0
d) Superstructures on Land not belonging to the entity									0	0
PLANT MACHINERY & EQUIPMENT	10435595369	949656389	0	11385251758	0	0	0	0	11385251758	10435595369
3	38120044	12143769	0	50263813	0	0	0	0	50263813	38120044
4 Vehicles									0	0
5 Furniture & Fixture									0	0
6 Office Equipment									0	0
7 Computer/Peripherals	111686062	79166838	0	190852900	0	0	0	0	190852900	111686062
8 Library Books	905728461	15384915	16039	921097337	0	0	0	0	921097337	905728461
TOTAL OF CURRENT YEAR	25952060618	3940239475	16039	29892284054	0	0	0	0	29892284054	25952060618

Accounts Officer

Financial Advisor

**AII INDIA INSTITUTE OF MEDICAL SCIENCES
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018**

(Amount-Rs.)

SCHECULE 9 - INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS	2017-18	2016-17
1. In Government Securities		
2. Other approved Securities		
3. Shares		
4. Debenutres and Bonds		
5. Subsidiaries and Joint Venutres		
6. Others Fixed Deposits (Endowment fund)	50000000	50500000
7. Seed money for opening of Bank Account (Donation)	10000	10000
TOTAL	50010000	50510000

SCHECULE 10 - INVESTMENTS - OTHERS	2017-18	2016-17
1. In Government Securities		
2. Other approved Securities		
3. Shares		
4. Debenutres and Bonds		
5. Subsidiaries and Joint Venutres		
6. Others (NPS Fixed Deposit)	240000000	220000000
7. Investment of Donations	13253424	13253424
TOTAL	253253424	233253424

Accounts Officer

Financial Advisor

**AII INDIA INSTITUTE OF MEDICAL SCIENCES
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018**

	2017-18	2016-17
SCHEDULE II - CURRENT ASSETS, LOANS, ADVANCES ETC.		
A CURRENT ASSETS:		
1. <u>Inventories:</u>		
a) Stores and Spares		
b) Loose Tools		
c) Stock-in-trade		
Finished Goods		
Work-in-progress		
Raw Material		
2. <u>Sundry Debtors:</u>		
a) Debts Outstanding	109742163	78742163
b) Others (outside recoveries)	0	721064
c) Misc. recoveries receivable from Centres (Engg. Work)		
3. <u>Cash balances in hand (including cheques/ drafts and imprest)</u>	931150	1037150
4. <u>Bank Balances:</u>		
<u>a) With Scheduled Banks:</u>		
On Current Accounts	3754443504	2841619402
On Deposit Accounts (includes margin money)		
On Savings Accounts	15315377	6275770
<u>b) With non-Scheduled Banks:</u>		
On Current Accounts		
On Deposit Accounts		
On Savings Accounts		
5. <u>Post Office - Savings Accounts</u>		
TOTAL (A)	3880432194	2928395549

(Amount in Rs.)

Accounts Officer

Financial Adviosr

**ALL INDIA INSTITUTE OF MEDICAL SCIENCES
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018**

(Amount in Rs.)	2017-18	2016-17
SCHEDULE 11- CURRENT ASSETS, LOANS, ADVANCES ETC. (Contd.)		
<u>B LOANS, ADVANCES AND OTHER ASSETS</u>		
1. <u>Loans:</u>		
a) Staff	2986235	9820900
b) Other Entities engaged in activities/objectives similar to that of Entity		
c) Other (Adv for purchase of iron and steel)	2340588	2340588
2. <u>Advances and other amounts recoverable in cash or in kind or for value to be received:</u>		
a) On Capital Account		
b) Prepayments		
c) Others (Advance Payments)	8646892736	2783700273
3. <u>Income Accrued:</u>		
a) On Investments from Earmarked / Endowment Funds		
b) On Investments - Others		
c) On Loans and Advances		
d) Others (includes income due unrealised - Rs.....)		
4. <u>Claims Receivable:</u>		
<u>TOTAL (B)</u>	8652219559	2795861761
<u>TOTAL (A + B)</u>	12532651753	5724257310

Accounts Officer

Financial Advisor

ALL INDIA INSTITUTE OF MEDICAL SCIENCES
SCHEDULES FORMING PART OF INCOME AND EXPENDITURE FOR THE YEAR ENDED
31-03-2018

	2017-18	2016-17
SCHECULE 12 - INCOME FROM SALES / SERVICES		
1) <u>Income from Sales</u>		
1. Sale of Finished Goods		
2. Sale of Raw Material		
3. Sale of Scraps		
2) <u>Income from Services</u>		
a) Hospital receipts	311381385	273186203
b) Professional / Consultancy Services		
c) Agency Commission and Brokerage		
d) Maintenance Services (Equipment/Property)		
e) Others (Specify) Hospital Receipt		
<u>TOTAL</u>	311381385	273186203

	2017-18	2016-17
SCHECULE 13 - GRANTS /SUBSIDIES		
<u>(Irrevocable Grants & Subsidies Received)</u>		
1. Central Government		
2. State Government(s)	12897041408	10695465086
3. Government Agencies		
4. Institutions/ Welfare Bodies		
5. International Organisations		
6. Others (Specify)		
<u>TOTAL</u>	12897041408	10695465086

Accounts Officer

Financial Advisor

ALL INDIA INSTITUTE OF MEDICAL SCIENCES

SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE PERIOD/YEAR ENDED 31-03-2018

		(Amount-Rs.)	
SCHEDULE 14 - FEES/SUBSCRIPTIONS		2017-18	2016-17
1. Tuition Fee		44836568	22168709
2. Licence Fee		27941996	41814065
3. Seminar/Program Fees			
4. Exam. Receipt			
5. Others (Specify) EHS		64567388	43802848
TOTAL		137345952	107785622

	Investment from Earmarked Fund		Investment-Others
	2017-18	2016-17	
SCHEDULE 15 - INCOME FROM INVESTMENTS			
(Income on Invest. From Earmarked/Endowment Funds transferred to Funds)			
1. Interest			
a) On Govt. Securities			
a) Other Bonds/Debentures			
2. Dividends:			
a) On Shares			
a) On Mutual Fund Securities			
3. Rents			
4. Others (Specify)			
TOTAL	0	0	0
TRANSFERRED TO EARMARKED/ENDOWMENT FUNDS			

Accounts Officer

Financial Advisor

ALL INDIA INSTITUTE OF MEDICAL SCIENCES
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE PERIOD/YEAR
ENDED 31-03-2018

(Amount-Rs.)

SCHEDULE 16 - INCOME FROM ROYALTY, PUBLICATION ETC.	2017-18	2016-17
1. Income from Royalty		
2. Income from Publications		
3. Others (specify)		
TOTAL		0

SCHEDULE 17 - INTEREST EARNED	2017-18	2016-17
1. On Term Deposits:		
a) With Scheduled Banks	242002474	121772721
b) With Non-Scheduled Banks		
c) With Institutions		
d) Others		
2. On Savings Accounts:		
a) With Scheduled Banks		
b) With Non-Scheduled Banks		
c) Post Office Savings Accounts		
d) Others		
3. On Loans:		
a) Employees/Staff	5530	0
b) Others		
4. Interest on Debtors and other Receivables		
TOTAL	242008004	121772721

Note - Tax deducted at source to be indicated

Accounts Officer

Financial Advisor

ALL INDIA INSTITUTE OF MEDICAL SCIENCES
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2018

SCHEDULE 18 - OTHERS INCOME	2017-18	2016-17
1. Misc. Receipt	29104286	22659311
2. Estb. Receipt (Scheme)	72674289	68525943
3. Exam Section Receipt	824388504	472522018
4. General Donations	886300	277628
TOTAL	927053379	563984900
SCHEDULE 19 - INCREASE/(DECREASE) IN STOCK OF FINISHED GOODS & WORK IN PROGRESS		
a) Closing stock		
- Finished Goods		
- Work-in-progress		
b) Less: Opening Stock		
- Finished Goods		
- Work-in-progress		
NET INCREASE/(DECREASE) [a+b]		0
SCHEDULE 20 - ESTABLISHMENT EXPENSES		
Salaries and Wages	7286897250	6023452879
Travelling Allowance	36500867	31441494
Contribution to Provident Fund	23258400	24833257
Contribution to Other Fund (Scheme Cell)	480000	660000
Staff Welfare Expenses (DLIS)	1372706536	1080648710
Expenses on Employees "Retirement and Terminal Benefits"	215970432	169998912
Others (NPS)	926350	803134
Leave Salary Pension Contribution		
TOTAL	8936739835	7331838386

Accounts Officer

Financial Advisor

ALL INDIA INSTITUTE OF MEDICAL SCEINCES
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED
31-03-2018

(Amount-Rs.)

SCHEDULE 21 - OTHER ADMINISTRATIVE EXPENSES ETC.	2017-18	2016-17
a) Purchases of hospital stores		
b) Labour and processing expenses		
c) Cartage and Carriage Inwards		
d) Electricitiy and power	585417220	554030030
e) Water charges	46003652	43722812
f) Insurance		
g) Repairs and maintenance (AMC/CAMC)	665480858	27105849
h) Repairs and mainteance of Buildings	289095288	185037792
i) Rent, Rates and Taxes		
j) Vehicles, Running and Maintenance		
k) Postage, Telephone and Communication Charges		
l) Printing and Stationary		
m) Travelling and Conveyance Expenses	76450853	55269068
n) Expenses on Seminar/Workshops		
o) Subscription Expenses		
p) Expenses on Fees		
q) bAuditors Remuneration		
r) Hospitality Expenses		
s) Professional Charges		
t) Provision for Bad and Doubtful Debts/Advances		
u) Irrecoverable Balances Written-off		
v) Packing Charges		
w) Hostel		
x) Bank Charges	2384	3744
y) Advertisement and Publicity		
z) Others (specify)(Contingency charge)	145028857	43260765
TOTAL	1807479112	908430060

Accounts Officer

Financial Advisor

ALL INDIA INSTITUTE OF MEDICAL SCEINCES
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED
31-03-2018

(Amount-Rs.)

SCHEDULE 21B - Material and Supplies	2017-18	2016-17
Hospital stores	2997628780	3132874030
Total	2997628780	3132874030

Accounts Officer

Financial Advisor

ALL INDIA INSTITUTE OF MEDICAL SCIENCES (MAIN)

**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE PERIOD/YEAR ENDED
31-03-2018**

		<u>(Amount-Rs.)</u>	
SCHEDULE 22- EXPENDITURE ON GRANTS, SUBSIDIES ETC.		2017-18	2016-17
a).	Grants given to Institutions/Organizations		
b).	Subsidies given to Institutions/organisations		
Total		0	0

Note - name of the Entities, their activities along with the amount of grants/subsidies are to be disclosed.

		2017-18	2016-17
SCHEDULE 23- INTEREST			
a)	On fixed Loans		
b)	On other Loans (including Bank charges)		
c)	Others(Specify) Endowment interest transfer to Research Section	0	1447344
Total		0	1447344

Accounts Officer

Financial Advisor

**ALL INDIA INSTITUTE OF MEDICAL SCIENCES, NEW DELHI
RECEIPTS AND PAYMENTS FOR THE PERIOD/YEAR ENDED 31.03.2018**

(Amount in Rs.)

RECEIPTS	2017-18	2016-17	PAYMENTS	2017-18	2016-17
Opening Balance			Expenses		
a) Cash in Hand	1037150	1106150	i) Establishment Expenses (Scheduled 20A)	8913481435	7307005129
b) Bank Balances			ii) Others Administrative Expenses(Scheduled 21A)	1782702027	898084256
i) In current accounts	2783029202	2212748834	iii) Puchase of Hospital stores	2946591920	3120836647
ii) In deposit accounts	6275770	6275770	iv) SAP (Expenditure)	13750664	
			Expdr on Capital /Work-in-Progress		
Grants Received from Govt. of India			i) Purchase of Fixed Assets	990569426	1259525270
i) Revenue	2031000000	1713000000	ii) Advance on Capital Work in progress	8862842177	5245523594
ii) Capital	9360000000	5750000000			
iii) Capital (Oversight Committee)	1333100000	850000000	Govt. Grants trasferred to Centres		
			Dr. R.P. Centre		
NDDTc			i)Capital Assets	240000000	269100000
i) Revenue	194000000	134000000	ii)Grant in Aid Salary	840000000	730769000
ii) Capital	25000000	0	iii)Grant in Aid General	350000000	395000000
			iv) Swatchta Action Plan	50000000	0
Grants received for specific purpose					
i) Scheme Cell	1156516487	1038258930	C.N. Centre		
ii) Grants received in patient treatment A/c	127190639	86185232	i)Capital Assets	211232218	366766000
iii) Swatchta Action Paln	450000000	0	ii)Grant in Aid Salary	2515366000	2080378000
iv) Kavakalp Award	75000000	0	iii)Grant in Aid General	650000000	565000000
v) Patient treatment at AIIMS(Main)	172509706	0	iv) Swatchta Action Plan	100000000	
vi) Grant Receipt (Geriatric Medicine)	16300000	0			
Endowment/Donation			Dr.B.R.A.I.R.C.H.		
i) Poor patient A/c	2342241	3008570	i) Capital Assets	110000000	110955000
ii) Endowment fund	0	2949595	ii) Grant in Aid Salary	782043000	653434000
Income on Investments from			iii)Grant in Aid General	465000000	430000000
i) Endowment fund (Infosys)	0	29284	iv) Swatchta Ation Plan	50000000	0
ii) NPS (Intrest)	12034419	16341074			
			J.P.N. APEX TRAUMA CENTRE		
Interst Received			i)Capital Assets	175096714	73676936
i) On Bank deposits	252063188	131978632	ii)Grant in Aid (General)	680000000	574987914
ii) Loans, Advances etc.	5530		c)Grant in Aid (Salary)	976221458	829466000
RECEIPTS			d) Swatchta Action Plan	50000000	0
i) GPF	538095876	479366077			
ii) Out side recoveries	1133068549	942672754	CENTRE FOR DENTAL EDUCATION & RESEARCH		
iii) Deposit work (Power Grid Corp.)	39811727	50418200	a)Capital Assets	27623687	30000000
iv) Revolving Funds	115426000	110907000	ii) Grant in Aid General	102500000	85000000
iv) Receipt Legacy date (NPS)	530087777	57683579	iii)Grant in Aid Salary	50997549	40500000
v) FD Maturity Accounts (NPS)		220000000	iv) Swatchta Action Plan	50000000	0
vi) FD Maturity (Poor Pt. A/c)	590788	0			
vii) unclaimed chequs/dues transfer as receipts	58590200		CIMR		
Deposit received for AIIMS Jodhpur	41000000		i) Capital Assets	14684557	
			ii) Grant in Aid Gneral	830585	
Other Income			Intra Mural Grant	50000000	
i) Misc Receipts	29104286	22659311	UNDCP	71900000	
ii) Examination Receipt	824388504	472522018			
iii) Hospital Receipts	293977385	240065321	N.D.D.T.C.		
iv) Tuition Fee	44836568	22168709	i)Grant Transfer to NDDTC	219000000	134000000
v) Licence Fee	27941996	41814065	ii)Loan to NDDTC	31000000	39000000
vi) Employees Health Scheme (EHS)	64567388	43802848	iii) Swatchta Action Plan	50000000	0
CSR	5000000		OTHERS PAYMENTS		
			i) Payment against specific grant (Scheme Cell)	1045925402	872269713
FD Matured (Endowment Fund)	500000		ii) Payment for patient treatment A/c	101616014	93219800
			iii) Poor patient A/c	1571050	1343445
IX. Other Receipts			iv) GPF	537413484	479366077
i) Fund Received for specific purpose	146910754	691641699	v) Outside recoveries	1125452226	939207940
ii) Cochelar Inplant Patient Treatment	28332000	37078600	vi) Deposit Work (Power Grid Corporation) HSCC	84000000	37000000
iii) Others	102603126	128226580	vii) Geretarie Block (HSCC)	210000000	0
			viii) Patient treatment A/c at AIIMS (Main)	168079105	
			ix) FD Poor Patient Accounts	467189	
Custom Duty Accounts	119483246	150000000	Other misc payments	96013905	81568955
PD Accounts	1000000	3500000	Seed money for open of Donation Bank Account	0	10000
student union		1000000	Cochelar Inplant Patient Treatment	28399050	35505000
			Custom Duty Accounts (Payment)	132410268	139518051
AIIMS Donation Accounts Credit B/A	886300	277628	PD Accounts	2524255	5100600
			Revolving Funds	95321651	87521292
			AIIMS Jodhpur	41000000	
			NPS ACCOUNTS		
			i) Payment Legacy data	538289755	55161133
			ii) Bank charges	0	173
			Investment made	20000000	220000000
			FDR (Kalmal Bucksee)	0	500000
			Endowment fund	0	1447344
			Investment (FD)	0	0
			Bank charges	0	69
			Expenditure	0	597000
			Closing Balances		
			i) Cash in Hand	931150	1037150
			ii) Bank Balances		
			a) In Current accounts	3754443504	2783029202
			b) In Deposit accounts	15315377	6275770
Total	40422606802	31078686460	Total	40422606802	31078686460

Accounts Officer

Financial Advisor
Director

Sr. Financial Advisor

ALL INDIA INSTITUTE OF MEDICAL SCIENCES, NEW DELHI
SCHEDULES FORMING PART OF RECEIPTS AND PAYMENTS FOR THE
PERIOD/YEAR ENDED 31.03.2018
ESTABLISHMENT EXPENSES

(Amount-Rs.)

Scheduled 20 A		2017-18	2016-17
a)	Salaries and Wages	7286897250	6023452879
b)	Travelling Allowance (TA)	36500867	31441494
c)	Leave Salary Pension Contribution		
	Payment	1043694	
	less Receipts	117344	803134
d)	Expenses on Employees ":Retirement and Terminal Benefits"	1372706536	1080648710
e)	Deposit Linked Insurance Scheme	480000	660000
f)	Others		0
i)	New Pension Scheme		
	Deposit to National Securities Depository Ltd.	377556112	
	Deposit to NPS A/c	39120245	
	Less Receipts (NPS) from the employees	200705925	169998912
	TOTAL	8913481435	7307005129

Accounts Officer

Financial Advisor

ALL INDIA INSTITUTE OF MEDICAL SCIENCES, NEW DELHI
SCHEDULES FORMING PART OF RECEIPTS AND PAYMENTS FOR THE
OTHERS ADMINISTRATIVE EXPENSES

(Amount-Rs.)

Scheduled 21A	2017-18	2016-17
a) Repairs and maintenance	947619882	211103862
b) Travelling and conveyance Expenses	76450853	55269068
c) Contingency office	127208036	33954740
d) Electricity and power	585417220	554030030
e) Water charges	46003652	43722812
d) Others (Bank Charges)	2384	3744
TOTAL	1782702027	898084256

Accounts Officer

Financial Advisor

ALL INDIA INSTITUTE OF MEDICAL SCIENCES, NEW DELHI
Receipts and Payments accounts of General Provident Funds for the Financial year 2017-18

(Amount in Rs.)					
Receipts	17-18	16-17	Payments	17-18	16-17
Opening Balance	112743375	44065934	GPF Withdarwal	726435470	669020230
Time barred cheque to A/c	2805014		Investment during the year	848405019	1973494132
Subscription/Receipts	835286256	750949784	Bank Charges	2645	7624
Interest	251294050	325249643	Closing Balance	198612429	112743375
Investment Maturity	571326868	1635000000			
Total	1773455563	2755265361	Total	1773455563	2755265361

GPF

Income and Expenditure Accounts for the Financial Year 2017-18

(Amount in Rs.)					
Expenditure	17-18	16-17	Income	17-18	16-17
Interest on subscription	410574377	385757779	Interest received	251294050	325249643
Bank Charges	2645	7624	Excess of exp over income	159282972	60515760
Total	410577022	385765403	Total	410577022	385765403

Accounts Officer

Financial Advisor

Balance sheet of General Provident Funds of AIIMS as on 31st March 2018

		(Amount in Rs.)					
Liability		17-18	16-17	Assets		17-18	16-17
Opening Balance (GPF)	5239098486			Investment			
Add: GPF Subscriptions	835286256			Opening Balance	5163432962		
Add: GPF Interest credited	410574377			Addition during the year	848405019		
Add. Time barred Ch to A/c	2805014			Less: Maturity during the year			
Less: Withdrawal	726435470	5761328663	5239098486		571326868	5440511113	5163432962
Surplus				Bank Balance		198612429	112743375
Cumulative Excess of income over expenditure				O/B excess of income over exp.	-37077851		
Opening Balance				Add. Excess exp. Over income during the year			
Less: Excess of Exp over income during the year			37077851	Total	159282972	122205121	
Total		5761328663	5276176337			5761328663	5276176337

Accounts Officer

Financial Advisor

Schedule 24

Accounting Policies and notes forming part of Accounts

- The activities of the Institute are mainly funded from the grants from Government of India and accounts of the Institute are prepared in accordance with generally accepted accounting principles.
- The accounts have been prepared on cash basis, i.e. on actual Receipt and Payments basis.
- No depreciation on assets, i.e. Machinery and equipments, vehicles, buildings, etc. have been provided in the accounts and assets are carried out at the historical cost. Assets at the time of condemnation on completion of useful life are removed from the assets as well as from the capital corpus.
- No provisions for liability of gratuity, pension and leave encashment, etc. have been made in the accounts as grants from the Government of India are received for actual expenditure. The payment of gratuity, pension and leave encashment, etc. are accounted only at the time of actual payments.
- No closing stock of store and supplies at the end of accounting period is incorporated in the accounts as all expenditure on stores and supplies are treated as final expenditure at the time of payments in the accounts.
- Income of the Institute is exempt from Income Tax under Section 11 of the Income Tax Act, 1961.
- All assets (Machinery and equipments, vehicles, etc.) funded from the grants for the Research projects are used for activities of Research projects and are not included in the assets of the Institute. Such assets (Machinery and equipments, vehicles, etc.) are either returned to the funding agencies or used in the departments after completion of the projects as per sanction of the funding agencies.
- A statement showing the expenditure made by various Project investigators for Research Projects during 2016-17 and balance amount lying with the Institute as on 31.03.2018 is attached with the GPF account as on 31.03.2018 is annexed with the accounts.
- Accounts of various Centres of the Institute as on 31.03.2018 are annexed with the accounts.
- Advances for treatment under packages were treated as revenue and expenditure incurred against those treatments is shown in expenditure. During the current year advances received against packages for treatment are shown under the revolving fund and expenditure incurred against the revolving fund. Balances in the revolving fund are shown as liability. The impact of this change of accounting policy is not assessable and not significant.
- Accounts for the year ended 31.03.2018 are prepared in the new format and grouping and regrouping and classification, wherever necessary have been changed/adopted for better presentation.
- Assets of the Institute in every department/centre are physically verified once in year by the faculty/officer nominated for the purpose and no significant/major deviations have been reported.
- Stores and supplies of the Institute in every department/centre are physically verified once in year by the faculty/officer nominated for the purpose and no significant/major deviations have been reported.
- Institute is maintaining various revolving funds for test/procedures required for patients care and the same are included in the concerned accounts of the Institute.
- Donations/receipts from various sources without any attached conditions are treated as income of the concerned centre or of Institute as the case may be.
- All accounting policies and notes forming part of accounts listed above are also applied in the preparation of accounts of the centres also.

Accounts Officer

Financial Advisor

Sr. Financial Advisor

Director

HOSPITAL BILLING SECTION (AIIMS)
STATEMENT OF ACCOUNT OF RECEIPTS AND PAYMENTS
NATIONAL ILLNESS ASSISTANCE FUND (NIAF)-2017-18

	RECEIPTS	RS.	PAYMENT	RS.
1	Opening balance of Grant with the bank as on 01.04.2017	308875115	Payment made during the year	155571281
2	Grant received during the year	229320864	Bank clearing charges debited by the bank during the year	6814
3	interest received from Bank during the year	13450848	Closing balance as on 31.03.2018	396068732
	Total	551646827		551646827

ACCOUNTS OFFICER
HOSIPAL BILLING SECTION

HOSPITAL BILLING SECTION (AIIMS)
STATEMENT OF ACCOUNT OF RECEIPTS AND PAYMENTS
AIIMS DELHI AROGYA KOSH (DAK)-2017-18

	RECEIPTS	RS.	PAYMENT	RS.
1	Opening balance of Grant with the bank as on 01.04.2017	18656879	Payment made during the year	9015738
2	Grant received during the year	8512579	Bank clearing charges debited by the bank during the year	649
3	interest received from Bank during the year	NIL	Closing balance as on 31.03.2018	18153071
	Total	27169458		27169458

ACCOUNTS OFFICER
HOSIPAL BILLING SECTION

**Cardio-Thoracic & Neuro Sciences Centre (Consolidate)
Receipts and Payments for the year ended 31.03.2018**

Receipts	2017-18	2016-17	Payments	2017-18	2016-17
I. Opening balances			I. Expenses		
a) cash in Hand	66,000	61,000	a) Establishment Expenses (corresponding to schedule 21)	2,51,53,68,878	2,07,11,09,232
b) Bank Balances			b) Administrative Expenses (corresponding to Schedule 22)	23,94,97,294	21,32,52,814
(i) In current Account			c) Material & Supply (Corresponding to Schedule 23)	35,69,41,872	84,57,55,375
CNC Main	16,17,23,947	14,55,25,430			
Gamma Knife	4,04,77,909	5,51,23,472			
Angio Pts. A/c	1,54,38,301	77,07,731			
Neuro Surgery Pts. A/c	3,71,51,884	1,35,07,299			
C.T. Pts. A/c	6,75,44,607	3,97,68,636			
Aiims Neuro Sciences Poor Pts. A/c	2,07,900	2,08,532			
(ii) In Deposit Account	-	-			
(iii) In Savings Account	-	-			
c) Fixed Deposits					
Fixed Deposits (Gamma Knife)	24,00,00,000	17,00,00,000			
Fixed Deposits (Angio Pts. A/c)	10,98,00,000	10,98,00,000			
Fixed Deposits (Neuro Surgery Pts. A/c)	3,18,00,000	3,18,00,000			
II. Grant Received			II. Payments made against funds for various Projects		
a) From Government of India--Through Aiims Main			NSC Poor Patients (corresponding to Schedule 22 (A))	-	22,13,081
Capital (Assets New)					
(i) Grant in Aid (Plan)	21,12,32,218	36,67,66,000			
Revenue General (Plan)			II. Payments made against funds for various Projects		
(ii) Grant in Aid- (Salary)	2,51,53,66,000	45,00,00,000			
(iii) Grant in Aid- (General)	65,00,00,000	19,72,49,201			
(iv) Grant in Aid- (SAP)- CTC	5,00,00,000		(iv) Grant in Aid- (SAP)- CTC	4,04,400	
(v) Grant in Aid- (SAP)- NSC	5,00,00,000		(v) Grant in Aid- (SAP)- NSC	4,04,400	
Non Plan					
(iii) Grant in Aid- (General)	-	36,50,00,000			

Receipts	2017-18	2016-17	Payments	2017-18	2016-17
(ii) Grant in Aid- (Salary)	-	1,63,03,78,000			
b) From State Government					
c) From Other Sources (details)					
(Grant for capital and Revenue expenditure to shown separately)					
III. Income on Investments From					
III. Investments and deposits made					
a) Earmarked Funds/ Endowments funds					
b) Revolving Fund					
i) Blood Test/Lab Test	1,10,65,090	1,00,38,556		47,05,210	49,80,922
ii) Cardiac Test	51,42,760	50,65,470		2,42,738	10,85,222
iii) Stress Thallium	25,79,000	36,36,750		22,72,833	44,32,250
IV) Neurology Patients Fund	1,18,14,279	1,51,10,788		87,05,468	59,53,213
			Trf. To Various Pts. A/c From Neurology Patient A/c	21,29,929	12,30,407
V) MRI Charges	35,83,500	41,10,250			
vi) Stem Cell	74,000				
Gamma Knife A/c	4,30,81,073	43,13,4326		3264881	
Angio Pts. A/c	22,19,82,974	1,79,180,362.8		205721326	
Ct. Pts. A/c	37,28,29,470	294,15,2900.6		299167569	
NS Pts. A/c	13,54,90,483	92018910.8		121934711	
c) Own Funds (Other Investments)					
IV. Interest Received					
a) On Bank Deposits (CNC Main)	1,07,71,488	122,16,060			
On Bank Deposits (Gamma Knife)	96,51,831	135,60,973		17,61,19,651	22,76,50,787
On Bank Deposits (Angio Pts. A/c)	68,90,294	78,47,110			
On Bank Deposits (Neuro Surgery Pts. A/c)	21,92,180	288,53,54		10,66,34,607	17,74,76,916
On Bank Deposits (C.T. Pts. A/c)	-	292882			
b) loans And Advances etc.	15,89,524	13,68,972			
V. Other Income					
Miscellaneous Receipt	19,55,300	15,52,546			
Hospital Receipt (CNC Main)	6,14,42,379	498,16,811		2,142	25,317
VI. Amount Borrowed					
				734	2,434
				2,999	71,332
				6,465	38,618
				1,05,412	84,166
				649	632
VII. Any Other Receipts (Give Details)					
a) Donation	4,42,530	603,601		2,50,264	
c) Earnest Money Deposits	48,04,000	73,72,000		18,10,820	40,00,590

Receipts	2017-18	2016-17	Payments	2017-18	2016-17
Employee Recovery			Employee Recovery		
1. AIIMS Recoveries	1,41,95,956	10721311	1. AIIMS Recoveries	1,55,72,667	9329718
2. Outside Recoveries	36,99,12,153	287764451	2. Outside Recoveries	36,99,12,153	287764451
3. GFP (Subscription & Advance)	15,37,46,608	133617251	3. GFP (Subscription & Advance)	15,37,46,608	133617251
4. NPS Recovery	9,46,95,940	75240556	4. NPS Recovery	9,46,64,346	75240556
Loan, Advances & Other Assets/Recovery			Loan, Advances & Other Assets/Recovery		
Computer Advance Recovery	5,87,800	855202	Computer Advance	5,00,000	3,90,000
Car/Scooter Advance Recovery	1,64,800	332948	Car/Scooter Advance Recovery	-	60,000
House Building Advance Recovery	7,16,140	881000	House Building Advance	4,98,000	-
Festival Advance Recovery	8,19,000	1643850	Festival Advance	-	13,63,500
Recovery/Deduction (Engg. Works)	58,05,294	4634190	Recovery/Deduction (Engg. Works)	58,05,294	1,08,05,468
Patient Treatment (CGHS)	16,03,028	66674	Return RTGS	78,252	-
AIIMS Neuro Sciences Poor Pts. A/c	50,000		Advance Paid to DAVP	7,12,157	22,20,207
			Custom Duty	-	6,00,00,000
			PDA	-	10,00,000
Grant received from AIIMS CNC (CT. Pts. A/c) for Exemption/BPL Pts	-	27,50,799	Grant Transfer to (Angio Pts. A/c) for Exemption/BPL Pts.	2,46,26,413	-
			Grant Transfer to (CT Pts. A/c) for Exemption/BPL Pts.	1,82,41,871	-
			Grant Transfer to (Neuro Surgery Pts. A/c) for Exemption/BPL Pts.	5,45,227	-
			TDR (CNC Main A/c)	5,00,00,000	-
			VIII. Closing Balances		
			a) Cash in hand	66,000	66,000
			b) Bank Balances		
			(i) In current Account (CNC Main)		
			CNC Main	24,54,39,239	16,17,23,947
			Gamma Knife	8,99,45,198	4,04,77,909
			Angio Pts. A/c	3,85,87,244	1,54,38,301
			Neuro Surgery Pts. A/c	5,28,93,371	3,71,51,884
			C.T. Pts. A/c	9,11,01,096	6,75,44,607
			AIIMS Neuro Sciences Poor Pts. A/c	2,57,251	2,07,900
			(ii) In deposit accounts	-	-
			(iii) Savings accounts	-	-
			c) Fixed Deposits		
			Fixed Deposits (Gamma Knife)	24,00,00,000	24,00,00,000
			Fixed Deposits (Angio Pts. A/c)	10,98,00,000	10,98,00,000
			Fixed Deposits (Neuro Surgery Pts. A/c)	3,18,00,000	3,18,00,000
			Fixed Deposits (CT Pts. A/c)	5,00,00,000	-
Total	5,73,04,87,640	4,84,53,68,157	Total	5,73,04,87,640	4,84,53,68,157

CHIEF, CTC

CHIEF, NSC

F & CAO, CNC

Cardio-Thoracic & Neuro Sciences Centre (Consolidate)
Balance Sheet as at 31.03.2018

		(Amount in Rs.)	
CORPUS/CAPITAL FUND AND LIABILITIES	Schedule	Current Year	Previous Year
Corpus/Capital Fund	1	6,40,23,07,017	6,15,97,75,288
Reserves and Surplus	2	69,60,654	47,86,08,581
Earmarked/ Endowment Funds	3	10,23,38,619	29,55,153
Revolving Funds	4	79,84,07,127	9,34,51,021
Secured Loans and Borrowings	5	-	-
Unsecured Loans and Borrowings	6	-	-
Deferred Credit Liabilities	7	-	-
Current Liabilities and Provisions	8	5,64,85,722	5,48,65,911
TOTAL		7,36,64,99,139	6,78,96,55,954
ASSETS			
Fixed Assets	9	6,00,57,70,555	5,75,63,66,092
Investments-From Earmarked/Endowment Funds	10	-	-
Investment-Others	11	43,16,00,000	38,16,00,000
Current Assets, Loans, Advances Etc.	12	92,91,28,584	65,16,89,862
Miscellaneous Expenditure		-	-
(To the extent not written off or adjusted)			
Balance of excess of expenditure over income			
TOTAL		7,36,64,99,139	6,78,96,55,954
Significant Accounting Policies	25		
Contingent Liabilities and Notes on Accounts	26		

CHIEF, CTC

CHIEF, NSC

F& CAO, CNC

Cardio-Thoracic & Neuro Sciences Centre

Income and Expenditure Account for the year ending on 31.03.2018

	Schedule	Current Year	Pervious Year
INCOME			(Amount Rs.)
Income from Sales/services	13	6,20,33,065	66,30,57,637
Grants/Subsidies	14	3,09,06,52,978	2,57,00,76,712
Fees/Subscriptions	15	-	-
Income from Investments (Income on Invest. From earmarked/endow. Funds Transferred to Funds)	16	-	-
Income from Royalty, publications etc.	17	-	-
Interest Earned	18	3,10,95,317	3,81,71,351
Other Income	19	19,55,300	15,52,546
Increase/(decrease) of Finished goods and works-in-progress	20	-	-
TOTAL(A)		3,18,57,36,660	3,27,28,58,246
EXPENDITURE			
Establishment Expenses	21	2,51,53,68,878	2,07,11,09,232
Other Administrative Expenses etc.	22	23,94,97,294	21,32,52,814
Payment made against fund for various projects	22 (A)	-	22,13,081
Material & Supply	23	35,69,41,872	84,64,36,647
Expenditure on Grants, Subsidies Etc.	24	-	-
Interest & Finance Expenses	25	1,18,401	2,22,498
Depreciation (Net Total at the year-end-corresponding to Schedule 11)			
TOTAL (B)		3,11,19,26,445	3,13,32,34,272
Balance being excess of Income over Expenditure (A-B)		7,38,10,215	13,96,23,974
Transfer to Special Reserve (Specify each)		-	-
Transfer to/from General Reserve		-	-
Balance being surplus/(deficit) carried to corpus/capital fund		7,38,10,215	13,96,23,974
Significant Accounting Policies	25		
Contingent Liabilities and Notes on Accounts	26		

CHIEF, CTC

CHIEF, NSC

F& CAO, CNC

Cardio-Thoracic & Neuro Sciences Centre

Schedules forming part of the Balance Sheet as at 31.03.2017

	Current Year	Pervious Year
(Amount in Rs.)		
Schedule 1 - Corpus/Capital Funds		
Balance as at the beginning of the year (CNC Main)	6,10,83,83,585	-
Add: Contributions towards Corpus/Capital Fund (Through Aims Main)	24,25,31,729	6,10,83,83,585
Add: Corpus/Capital Created out of Donation	5,13,91,703	5,13,91,703
Add/Deduct: Balance of net income/(expenditure) transferred from the Income and Expenditure Account	-	-
Balance as at the end of the year	6,40,23,07,017	6,15,97,75,288

	Current Year	Pervious Year
(Amount Rs.)		
Schedule 2 - Reserves and Surplus		
I. Capital Reserve		
Balance as at the beginning of the year		
CNC Main	(6,68,48,044)	(6,68,48,044)
Gamma Knife Pt. A/c		28,04,77,909
Angio Pts. A/c		12,84,83,742
C.T. Pts. A/c		6,75,44,607
Neuro Surgery A/c		6,89,51,884
Aims Neuro Sciences Poor Pts. A/c	(1,517)	(1,517)
Add: Additions during the year		-
CNC Main	5,51,92,168	
Gamma Knife Pt. A/c	96,51,097	
Angio Pts. A/c	68,87,295	
C.T. Pts. A/c	(1,05,412)	
Neuro Surgery A/c	21,85,715	
Aims Neuro Sciences Poor Pts. A/c	(649)	
2. Revaluation Reserves		
Balance as at the beginning of the year	-	-
Add: Additions during the year	-	-
Less: Deductions during the year	-	-
3. Special Reserve		
Balance as at the beginning of the year	-	-
Add: Additions during the year	-	-
Less: Deductions during the year	-	-
4. General Reserve		
Balance as at the beginning of the year	-	-
Add: Additions during the year	-	-
Less: Deductions during the year	-	-
5. Excess of income over expenditure	-	-
TOTAL	69,60,654	47,86,08,581

(Amount in Rs.)

Schedule-3 Earmarked/ Endowment Funds	Cardiology	CTVS	Neurology	Neuro-Surgery	Other	Swachhta Action Plan (SAP)		Current Year Total	Previous Year Total
						CTC	NSC		
a) <i>Opening balance of the funds</i>	64,306	1,88,750	9,84,591	15,31,405	1,86,101	-	-	29,55,153	23,51,552
b) Additions to the Funds	-	-	-	4,35,100	7,430	5,00,00,000	5,00,00,000	10,04,42,530	6,03,601
i. Donations/grants	-	-	-	-	-	-	-	-	-
ii. Income from Investments made on account of funds	-	-	-	-	-	-	-	-	-
iii. Received from patients	-	-	-	-	-	-	-	-	-
iv. Other additions (specify nature)	-	-	-	-	-	-	-	-	-
TOTAL (a+b)	64,306	1,88,750	9,84,591	19,66,505	1,93,531	5,00,00,000	5,00,00,000	10,33,97,683	29,55,153
c) <i>Utilisation/Expenditure towards objectives of funds</i>									
i. Capital Expenditure	-	-	-	-	-	4,04,400	4,04,400	8,08,800	-
Fixed Assets	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	4,04,400	4,04,400	8,08,800	-
TOTAL (c.i)	-	-	-	-	-	4,04,400	4,04,400	8,08,800	-
ii. Revenue Expenditure									
Salaries, Wages and allowances etc.	-	-	-	-	-	-	-	-	-
Rent	-	-	-	-	-	-	-	-	-
Bank Charges	-	-	-	-	-	-	-	-	-
Other Administrative expenses	-	-	75,264	-	1,75,000	-	-	2,50,264	-
TOTAL c (ii)	-	-	75,264	-	1,75,000	-	-	2,50,264	-
TOTAL (c)	-	-	75,264	-	1,75,000	-	-	2,50,264	-
d) <i>Refunds to Patients</i>									
NET BALANCE AS AT THE YEAR-END (a+b-c-d)	64,306	1,88,750	9,09,327	19,66,505	18,531	4,95,95,600	4,95,95,600	10,23,38,619	29,55,153

Schedule -4 Revolving Fund	Current Year										Previous Year	
	Lab Test	Cardiac Test	Stress Thallium	MRI	Stem Cell	Neurology Pt. Fund	CT. Pts. A/c	Gamma Knife A/c	Angio Pts. A/c	NS Pts. A/c	Total	Total
a) <i>Opening balance of the funds</i>	2,29,62,395	1,93,44,703	33,35,624	76,49,130	-	4,01,59,169	6,75,44,607	28,04,77,909	12,84,83,742	6,89,51,884	63,89,09,163	7,31,71,221
b) Additions to the Funds	1,10,65,090	51,42,760	25,79,000	35,83,500	74,000	1,18,14,279	35,45,87,599	4,30,81,073	19,73,56,561	13,49,45,256	76,42,29,118	3,79,61,814
i. Received From Patients							1,82,41,871		2,46,26,413	5,45,227	4,34,13,511	-
ii. Grant received from Aims CNC (Angio Pts. A/c) for Exemption/BPL Pts							44,03,74,077	32,35,58,982	35,04,66,716	20,44,42,367	1,44,65,51,792	11,11,33,035
TOTAL (a+b)	3,40,27,485	2,44,87,463	59,14,624	1,12,32,630	74,000	5,19,73,448						
c) <i>Utilisation/Expenditure towards objectives of funds</i>												
i. <u>Capital Expenditure</u>												
Fixed Assets	-	-	-	-	-	-	-	-	-	-	-	-
Others (Specify)	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL (ci)												
ii. <u>Revenue Expenditure</u>												
Material & Supply												
Refund to Patients						87,05,468	19,90,01,098	19,00,881	13,40,92,285	8,92,72,627	43,29,72,359	-
Poor/BPL Patient treatment expenditure							8,19,24,600	13,64,000	4,70,02,628	3,21,16,857	16,24,08,085	-
Free Procedure							1,82,41,871	-	11,95,250	5,45,227	1,99,82,348	-
Others (Specify)							-	-	2,34,31,163	-	2,34,31,163	-
Transfer to various pts. A/c	47,05,210	2,42,738	22,72,833	-	-	-	-	-	-	-	72,20,781	1,64,51,607
TOTAL (cii)	47,05,210	2,42,738	22,72,833	-	-	1,08,35,397	29,91,67,569	32,64,881	20,57,21,326	12,19,34,711	64,81,44,665	1,76,82,014
TOTAL (c)	47,05,210	2,42,738	22,72,833	-	-	1,08,35,397	29,91,67,569	32,64,881	20,57,21,326	12,19,34,711	64,81,44,665	1,76,82,014
Balance as at the end of the year (a+b-c)	2,93,22,275	2,42,44,725	36,41,791	1,12,32,630	74,000	4,11,38,051	14,12,06,508	32,02,94,101	14,47,45,390	8,25,07,656	79,84,07,127	9,34,51,021

Schedule 5 - Secured Loans And Borrowings			(Amount in Rs.)	
	Current Year	Previous Year		
1. Capital Government	-			-
2. State Government (Specify)	-			-
3. Financial Institutions				
a) Term Loans	-			-
b) Interest accrued and due	-			-
4. Banks				
a) Term Loans				
- Interest accrued and due	-			-
b) Other Loans (specify)				
- Interest accrued and due	-			-
5. Other Institutions and Agencies	-			-
6. Debentures and Bonds	-			-
7. Others (specify)	-			-
TOTAL	-			-
Note: Amounts due within one year				

Schedule 6- Unsecured Loans And Borrowings		(Amount in Rs.)	
		Current Year	Previous Year
1. Capital Government		-	-
2. State Government (Specify)		-	-
3. Financial Institutions		-	-
a) Term Loans		-	-
b) Interest accrued and due		-	-
4. Banks		-	-
a) Term Loans		-	-
- Interest accrued and due		-	-
b) Other Loans (specify)		-	-
- Interest accrued and due		-	-
5. Other Institutions and Agencies		-	-
6. Debentures and Bonds		-	-
7. Others (specify)		-	-
TOTAL		-	-
Note: Amounts due within one year			

Schedule 7- Deferred Credit Liabilities		(Amount in Rs.)	
		Current Year	Previous Year
a) Acceptance secured by hypothecation of capital equipment and other assets		-	-
b) Others		-	-
TOTAL		-	-
Note: Amount due within one year			

(Amount in Rs.)

Schedule 8-Current Liabilities	Current Year	Pervious Year
A. Current Liabilities		
1. Acceptances	-	-
2. Sundry Creditors		
a) For Goods	-	-
b) Others	-	-
3. Advances Received	-	-
4. Interest accrued but not due on		
a) Secured Loans/borrowings	-	-
b) Unsecured Loans/borrowings	-	-
5. Statutory Liabilities		
a) Overdue	-	-
b) Others	-	-
6. Other Current Liabilities	3,49,521	16,94,638
7. EMD	5,58,56,784	5,28,63,604
8. Return RTGS	-	78,252
9. Imprest	20,000	20,000
10. AIIMS Neuro Sciences Poor Pts. A/c	2,59,417	2,09,417
TOTAL (A)	5,64,85,722	5,48,65,911
B. Provisions		
1. For Taxation	-	-
2. Gratuity	-	-
3. Superannuation/ Pension	-	-
4. Accumulated Leave Encashment	-	-
5. Trade Warranties/ Claims	-	-
6. Accumulated Depreciation	-	-
7. Others	-	-
TOTAL (B)	-	-
TOTAL (A)+(B)	5,64,85,722	5,48,65,911

Particulars	GROSS BLOCK						DEPRECIATION				NET BLOCK	
	Cost/Valuation as at beginning of the year	Additions during the year	Deductions during the year	Additions during the year (Letter of Credit)	Additions during the year (PDA)	Cost/Valuation at the year-end	As at the begin. of the year	For the year	On ded. during the year	Total up to the year-end	As at the current year-end	As at the previous year-end
FIXED ASSETS												
LAND												
a) Freehold	-	-	-	-	-	-	-	-	-	-	-	-
b) Leasehold	-	-	-	-	-	-	-	-	-	-	-	-
BUILDINGS												
a) On Freehold Land	-	-	-	-	-	-	-	-	-	-	-	-
b) On Leasehold Land	-	-	-	-	-	-	-	-	-	-	-	-
c) Ownership Flats/Premises	-	-	-	-	-	-	-	-	-	-	-	-
d) Superstructures on Land not belonging to the entity	-	-	-	-	-	-	-	-	-	-	-	-
INTANGIBLE FIXED ASSETS												
a) Software	-	-	-	-	-	-	-	-	-	-	-	-
PLANT, MACHINERY & EQUIPMENT*	5,14,95,78,512	14,10,27,794	-	6,23,83,292	2,49,525	5,36,22,03,310	-	-	-	5,36,22,03,310	5,14,95,78,512	
Spare & Accessories (CTC)	5,17,27,417	1,38,46,147	-	-	-	6,55,73,564	-	-	-	6,55,73,564	5,17,27,417	
Spare & Accessories (NSC)	6,91,77,699	1,74,53,364	-	-	-	8,66,31,063	-	-	-	8,66,31,063	6,91,77,699	
Letter of Credit Spare & Accessories (NSC)	1,02,30,776	-	-	12,28,320	14,360	1,19,18,384	-	-	-	1,19,18,384	1,02,30,776	
Letter of Credit Spare & Accessories (CTC)	5,56,416	-	-	-	-	5,56,416	-	-	-	5,56,416	5,56,416	
VEHICLES	43,81,989	-	-	-	-	43,81,989	-	-	-	43,81,989	43,81,989	
FURNITURE, FIXTURES	59,36,676	8,12,505	-	-	-	67,49,181	-	-	-	67,49,181	59,36,676	
COMPUTER/ PERIPHERALS	44,72,907	29,79,841	-	-	-	74,52,748	-	-	-	74,52,748	44,72,907	
ELECTRIC INSTALLATIONS	-	-	-	-	-	-	-	-	-	-	-	
LIBRARY BOOKS	-	-	-	-	-	-	-	-	-	-	-	
Tube well & Water-supply	-	-	-	-	-	-	-	-	-	-	-	
OFFICE EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-	
TOTAL OF CURRENT YEAR	5,29,60,62,392	17,61,19,651	-	6,36,11,612	2,63,885	5,54,54,66,855	-	-	-	5,54,54,66,855	5,29,60,62,392	
PREVIOUS YEAR	46,03,03,700	-	-	-	-	46,03,03,700	-	-	-	46,03,03,700	46,03,03,700	
CAPITAL WORK-IN-PROGRESS	5,75,63,66,092	17,61,19,651	-	6,36,11,612	2,63,885	6,00,57,70,555	-	-	-	6,00,57,70,555	5,75,63,66,092	
TOTAL												
(Date to be given to cost of assets on hire purchase basis included above)												

Schedule 10 - Investments from Earmarked/Endowment Funds		(Amount in Rs.)	
	Current Year	Previous Year	
1. In Government Securities	-	-	
2. Other approved Securities	-	-	
3. Shares	-	-	
4. Debentures and Bonds	-	-	
5. Subsidiaries and Joint Ventures	-	-	
6. Others (to be specified)	-	-	
TOTAL	-	-	

Schedule 11 - Investments Others		(Amount in Rs.)	
	Current Year	Previous Year	
1. In Government Securities	-	-	
2. Other approved Securities	-	-	
3. Shares	-	-	
4. Debentures and Bonds	-	-	
5. Subsidiaries and Joint Ventures	-	-	
6. Others (to be specified)	-	-	
i. Fixed Deposit (Gamma Knife)	24,00,00,000	24,00,00,000	
ii. Fixed Deposit (Angio Pts. A/c)	10,98,00,000	10,98,00,000	
iii. Fixed Deposit (Neuro Surgery Pts. A/c)	3,18,00,000	3,18,00,000	
iv. Fixed Deposit (C T Pts. A/c)	5,00,00,000.00	-	
TOTAL	43,16,00,000.00	38,16,00,000.00	

(Amount in Rs.)

Schedule 12-Current Assets, Loans, Advances Etc.	Current Year	Previous Year
A. Current Assets		
1. Inventories		
a) Stores and Spares	-	-
b) Loose Tools	-	-
c) Stock in trade		
Finished Goods	-	-
Work-in-progress	-	-
Raw Materials	-	-
2. Sundry Debtors		
a) Debts outstanding for a period exceeding six months		
b) Others	32,45,441	32,45,441
3. Cash balances in hand (Including cheques/drafts and imprest)		
a) Imprest	66,000	66,000
4. Bank Balances		
a) With Scheduled Banks:		
-On Current Accounts	24,54,39,239	16,17,23,947
Gamma Knife	8,99,45,198	4,04,77,909
Angio Pts. A/c	3,85,87,244	1,54,38,301
C.T. Pts. A/c	9,11,01,096	6,75,44,607
Neuro Surgery Pts. A/c	5,28,93,371	3,71,51,884
Aiims Neuro Sciences Poor Pts. A/c	2,57,251	2,07,900
-On Deposit Accounts (Includes margin money)	-	-
-On Savings Accounts	-	-
b) With Non-Scheduled Banks:		
-On Current Accounts	-	-
-On Deposit Accounts	-	-
-On Savings Accounts	-	-
5. Post Office - Savings Accounts	-	-
TOTAL (A)	52,15,34,841	32,58,55,989

(Amount in Rs.)

SCHEDULE 12-CURRENT ASSETS LOANS, ADVANCES ETC. (CONTD.)	Current Year	Pervious Year
B. LOANS, ADVANCES AND OTHER ASSETS		
<i>1. Loans</i>		
a) Staff	29,39,535	42,29,275
b) Other Entities engaged in activities/objectives similar to that of the Entity		
c) Other (Patient Treatment- CGHS)		
<i>2. Advances and other amounts recoverable in cash or in kind or for value to be received</i>		
a) On Capital Accounts		
b) Prepayments		
c) Temporary Contingent Advances		
d) Others		
<i>3. Income Accrued</i>		
a) On Investments fro Earmarked / Endowment Funds		
b) On Investments-Others		
c) On Loans and Advances		
d) Others		
(Includes income due unrealized-Rs.....)		
<i>4. Claims Receivable</i>		
<i>5. Letter of Credit</i>	8,65,00,613	4,34,77,618
<i>6. Custom Duty</i>	3,40,19,794	4,34,29,109
<i>7. Pre-Deposits Advance</i>	5,29,618	7,93,503
<i>8. TDR</i>	5,00,00,000	-
<i>9. Advance Against Work</i>	17,45,96,762	17,45,96,762
<i>10. Advance Payment DAVP</i>	57,08,036	49,95,879
<i>11. Mach. & Equipt Trf From CT Patients A/c</i>	4,90,25,000	4,90,25,000
<i>12. Patient Treatment (CGHS)</i>	42,74,385	52,86,727
TOTAL (B)	40,75,93,743	32,58,33,873
TOTAL (A)+(B)	92,91,28,584	65,16,89,862

(Amount in Rs.)

SCHEDULE 13-INCOME FROM SALES/SERVICE	Current Year	Previous Year
1) <u>Income from sales</u>		
a) Sales of Finished Goods	-	-
b) Sales of Raw Material	-	-
c) Sales of Scraps	-	-
2) <u>Income from Services</u>		
a) Labour and Processing Charges	-	-
b) Professional/Consultancy Service	-	-
c) Agency Commission and Brokerage	-	-
d) Maintenance Services (Equipment/Property)	-	-
e) Hospital Receipts (CNC Main)	6,14,42,379	4,98,16,811
f) Hospital Receipts (Gamma Knife)	-	4,31,34,326
g) Hospital Receipts (Angio Patients A/c)	-	17,91,80,363
h) Hospital Receipts (C.T. Pts. A/c)	-	29,69,03,699
i) Hospital Receipts (Neuro Surgery Pts. A/c)	-	9,20,18,911
j) Patient Treatment CGHS	5,90,686	20,03,527
k) Others (Specify) Suspence Receipt	-	-
TOTAL	6,20,33,065	66,30,57,637

SCHEDULE 14-GRANTS/SUBSIDIES	Current Year	Current Year
(Irrevocable Grant & Subsidies Received)-Through Aiims Main		
1) Central Government	-	-
Revenue General (Plan)		
(ii) Grant in Aid- (Salary)	-	45,00,00,000
(iii) Grant in Aid- (General)	-	12,46,98,712
Non Plan		
(iii) Grant in Aid- (General)	57,52,86,978	36,50,00,000
(ii) Grant in Aid- (Salary)	2,51,53,66,000	1,63,03,78,000
Grant in Aid (SAP)- CTC	-	-
Grant in Aid (SAP) - NSC	-	-
2) State Government(s)	-	-
3) Governments Agencies	-	-
4) Institutions/Welfare Bodies	-	-
5) International Organisations	-	-
6) Others (Specify)	-	-
TOTAL	3,09,06,52,978	2,57,00,76,712

(Amount in Rs.)		
<u>SCHEDULE 15-FEES/SUBSCRIPTIONS</u>	Current Year	Previous Year
1) Entrance Fees	-	-
2) Annual Fees/Subscriptions	-	-
3) Seminar/Program Fees	-	-
4) Consultancy Fees	-	-
5) Tender Fees	-	-
TOTAL	-	-
Note- Accounting Policies towards each item are to be disclosed		

(Amount in Rs.)				
<u>SCHEDULE 16- INCOME FROM INVESTMENTS</u>	Investment from Earmark Fund		Investment Other	
(Income on Invest. Earmarked/Endowment Funds transferred to Funds)	Current Year	Previous Year	Current Year	Previous Year
1) Interest				
a) On Govt. Securities	-	-	-	-
b) Other Bonds/Debentures	-	-	-	-
2) Dividends				
a) On Shares	-	-	-	-
b) On Mutual Fund Securities	-	-	-	-
3) Rents	-	-	-	-
4) Other (Specify)	-	-	-	-
TOTAL	-	-	-	-
Note- Transferred to earmarked/endowment funds				

(Amount in Rs.)		
SCHEDULE 17- INCOME FROM ROYALTY, PUBLICATION ETC.	Current Year	Previous Year
1) Income from Royalty	-	-
2) Income from Publications	-	-
3) Others (Specify)	-	-
TOTAL	-	-

(Amount in Rs.)		
SCHEDULE 18- INTEREST EARNED	Current Year	Previous Year
1) On Term Deposits		
a) with Schedule Banks (CNC Main)	1,07,71,488	1,22,16,060
with Schedule Banks (Gamma Knife)	96,51,831	1,35,60,973
with Schedule Banks (Angio Pts. A/c)	68,90,294	78,47,110
with Schedule Banks (C.T. Pts. A/c)	-	2,92,882
with Schedule Banks (Neuro Surgery Pts. A/c)	21,92,180	28,85,354
b) With Non-Scheduled Banks	-	-
c) With Institutions	-	-
d) Others	-	-
2) On Savings Accounts		
a) with Schedule Banks	-	-
b) With Non-Scheduled Banks	-	-
c) With Institutions	-	-
d) Others	-	-
3) On Loans		
a) Employee/Staff	15,89,524	13,68,972
b) Others	-	-
4) Interest on Debtors and Other Receivables		
TOTAL	3,10,95,317	3,81,71,351
Note- Tax deducted at source to be indicated		

(Amount in Rs.)

SCHEDULE 19- OTHER INCOME	Current Year	Previous Year
1) Profit on Sale/disposal of Assets		
a) Owned assets	-	-
b) Assets acquired out of grants, or received free of cost	-	-
2) Export Incentives realized		
a) Liquid Damage	-	-
3) Fees for Miscellaneous Services	-	-
4) Miscellaneous Receipt	19,55,300	15,52,546
5) Lice. Fee Recovery		-
TOTAL	19,55,300	15,52,546

(Amount in Rs.)

SCHEDULE 20- INCREASE/(DECREASE) IN STOCK OF FINISHED GOODS & WORK IN PROGRESS	Current Year	Previous Year
a) Closing stock		
Finished Goods	-	-
Work-In-Progress	-	-
b) Less: Opening Stock		
Finished Goods	-	-
Work-In-Progress	-	-
NET INCREASE/(DECREASE) [a-b]	-	-

(Amount in Rs.)

SCHEDULE 21- ESTABLISHMENT EXPENSES	Current Year	Previous Year
a) Salaries and Wages (Plan)	45,77,60,909	39,93,04,268
b) Salaries and Wages (Non-Plan)	1,96,05,58,586	1,59,85,89,040
c) Contribution to Provident Fund	-	-
d) Contribution to Other Fund - (NPS)	8,80,00,814	6,76,66,812
e) Staff Welfare Expenses	-	-
f) Expenses on Employees Retirement and Terminal Benefits	-	-
g) Travelling and Conveyance Expenses	90,48,569	55,49,112
h) Others (specify)	-	-
TOTAL	2,51,53,68,878	2,07,11,09,232

(Amount in Rs.)

SCHEDULE 22- OTHER ADMINISTRATIVE EXPENSES ETC.	Current Year	Previous Year
Labour and processing expenses	-	-
Cartage and Carriage Inwards	-	-
Office Maintenance Exp.	19,30,947	3060713
Delegation Fee	-	1080192
Gas Charges	1,40,398	178312
Vehicles Running and Maintenance	7,09,206	565331
Postage, Telephone and Communication Charges	96,272	208581
Advertisement	61,904	-
Surgery & Disposal	-	-
Repairs and maintenance of Building	4,70,69,551	25632914
Repairs and maintenance of Machinery	66,26,675	3617011
Vehicles Running and Maintenance		
Maintenance of Minor Works	3,56,61,217	34221391
Printing and Stationary	-	
Expenses on Seminar/Workshops		
Cardiology for Fee Procedure	-	
Professional Charges		
Packing Charges		
Freight and Forwarding Expenses		
Distributions Expenses		
Advertisement and Publicity		
Security Services	3,27,07,217	28038015
Manpower Outsourcing Charges	6,24,90,557	40148754
Sanitation Service	5,20,03,350	34420427
Poor/BPL Patient Treatment Expenditure (Angio Pts. A/c)	-	2155762
Free Procedure (Angio Pts. A/c)	-	28941580
Poor/BPL Patient Treatment Expenditure (C.T. Pts. A/c)	-	9513650
Poor/BPL Patient Treatment Expenditure (Neuro Surgery Pts. A/c)	-	1470180.6
Others (specify)		
TOTAL	23,94,97,294	213252813.6

(Amount in Rs.)

SCHEDULE 22 (A) PAYMENTS MADE AGAINST FUNDS FOR VARIOUS PROJECTS	Current Year	Previous Year
NSC Poor Patients	-	22,13,081
Others (specify)		
TOTAL	-	2213081

(Amount in Rs.)

SCHEDULE 23- Material & Supply	Current Year	Previous Year
Material & Supply	33,82,17,902	31,79,72,481
Exp. Of Consumable and Regent used to M & E	1,87,23,970	49411563
Material & Supply (Gamma Knife)	-	13,38,428
Material & Supply (Angio Pts. A/c)	-	14,81,28,229
Material & Supply (C.T. Pts. A/c)	-	25,98,22,795
Material & Supply (Neuro Surgery A/c)	-	6,97,50,881
Material & Supply (ORBO)	-	12,270
TOTAL	35,69,41,872	84,64,36,647

		(Amount in Rs.)	
SCHEDULE 24- EXPENDITURE ON GRANTS SUBSIDIES ETC.			
		Current Year	Previous Year
a)	Grants given to Institutions/Organisations	-	-
b)	Subsidies given to Institutions/Organisations	-	-
TOTAL		-	-
Note- Name of the Entities, their Activities along with the amount of Grants/Subsidies are to be disclosed.			

		(Amount in Rs.)	
SCHEDULE 25- INTEREST & FINANCE EXPENSES			
		Current Year	Previous Year
a)	On Fixed Loans	-	-
b)	On Other Loans (including Bank Charges)	-	-
c)	Bank Charges (CNC Main)	2,142	25,317
c)	Bank Charges (Gamma Knife)	734	2,434
c)	Bank Charges (Angio Pts. A/c)	2,999	71,332
c)	Bank Charges (C.T. Pts. A/c)	1,05,412	84,166
c)	Bank Charges (Neuro Surgery A/c)	6,465	38,618
c)	Bank Charges (Poor Pts. A/c)	649	632
d)	Others (specify)	-	-
TOTAL		1,18,401	2,22,498

All India Institute of Medical Sciences, New Delhi
Dr. Rajendra Prasad Centre for Ophthalmic Sciences
BALANCE SHEET AS AT 31-03-2018

		(Amount in Rupees)		
CORPUS/CAPITAL FUND AND LIABILITIES	Schedule	2017-18	2016-17	
CORPUS/CAPITAL FUND	1	3206471076	2966471076	
RESERVES AND SURPLUS	2	140295935	252599633	
EARMARKED/ ENDOWMENT FUNDS	3	70273056	10035278	
SECURED LOANS AND BORROWINGS	4			
UNSECURED LOANS AND BORROWINGS	5			
DEFERRED CREDIT LIABILITIES	6			
CURRENT LIABILITIES AND PROVISIONS	7	11019679	16973000	
TOTAL		3428059746	3246078987	
ASSETS				
FIXED ASSETS	8	2993197028	2858571618	
INVESTMENTS-FROM EARMARKED/ENDOWMENT FUNDS	9			
INVESTMENTS-OTHERS	10			
CURRENT ASSETS, LOANS , ADVANCES ETC.	11	434862718	387507369	
MISCELLANEOUS EXPENDITURE (to the extent not written off or adjusted)				
TOTAL		3428059746	3246078987	

ACCOUNTS OFFICER

CHIEF, RPC

All India Institute of Medical Sciences, New Delhi
Dr. Rajendra Prasad Centre for Ophthalmic Sciences
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31-03-2018

		(Amount in Rupees)	
	Schedule	2017-18	2016-17
INCOME			
Income from Sales/Services (Hospital Receipts)	12	276391580	255223255
Grants/Subsidies	13	1190000000	1125769000
Fees/Subscriptions	14		
Income from Investments (Income on Invest. From earned/endow. Funds transferred to funds)	15		
Income for Royalty, Publication etc.	16		
Interest Earned	17	4756665	14356407
Other Income	18	153380	232924
Increase/(decrease) in stock of Finished goods and works-in-progress	19		
TOTAL (A)		1471301625	1395581586
EXPENDITURE			
Establishment Expenses	20	858476429	741209610
Other Administrative Expenses etc.	21	725128894	566392938
Expenditure on Grants, Subsidies etc.	22		
Interest	23		
Depreciation (Net Total at the year-end - corresponding to Schedule 8)			
TOTAL (B)		1583605323	1307602548
Balance being excess of Expenditure over income (B-A)			
Transfer to Special Reserve (Specify each)		-112303698	87979038
Transfer to /from General Reserve			
BALANCE BEING SURPLUS/(DEFICIT) CARRIED TO CORPUS/ CAPITAL FUND		1471301625	1395581586

ACCOUNTS OFFICER

CHIEF, RPC

All India Institute of Medical Sciences, New Delhi
Dr. Rajendra Prasad Centre for Ophthalmic Sciences
RECEIPT AND PAYMENTS FOR THE YEAR ENDED 31-03-2018

		(Amount in Rupees)			
		2017-18	2016-17	Payments	
Receipts				2017-18	2016-17
1. Opening Balances					
(a) Cash in Hand		26500	21500	858476429	741209610
(b) Bank Balances		316189138	235854683	713839008	558919717
(i) In current accounts					
(ii) In deposit accounts					
(iii) In saving accounts				11831155	
				995802	
2. Grant Received					15232050
(a) From Government of India through AIIMS (Main)					
(i) Grant in Aid (Plan) (Capital Assets)		240000000	269100000		
(ii) Grant in Aid (General)		350000000	85000000		
(iii) Grant in Aid (Salaries)		840000000	87500000		
(iv) Swachhta Action Plan		500000000	643269000	98990632	220342586
(v) Grant in Aid (General) (Non-Plan)		0	310000000		48757414
(b) From state Government				45000000	
(c) From other sources (Schemes)		23833839	13993531	85882779	
3. Income on Investment from					
(a) Earmarked/Endow. Funds					
(b) Own funds (Oth. Investments)					
				0	
4. Interest received					
(a) On bank deposits		4294722	13850476	8576	
(b) Loans, Advances etc.				794	
Car		101116	38293	74587	66000
HBA		331441	466638	3506072	1198000
Computer		29386	1000	5983346	3709760
Scooter		0	0	125038919	113063528
				71174550	68949890
5. Other Income					
(i) Hospital Receipts		275116497	254323707	17354550	14295528
(ii) Misc Receipts		153380	232924	549815	604425

6.Amount Borrowed									
7.Any other receipts									
(a) NIAF	113360			207808				150000	11650800
(b) Earnest Money Deposits	1671000			2887500				0	150000
(c) Employees Recovery								4462203	796500
i) Recoveries from employees	5983346			3709760				1860111	6080911
ii) Outside Recoveries	125038919			113063528					1435366
iii) GPF (Subscription and Advances)	71174550			68949890					
iv) NPS Recovery	17354550			14295528					
v) NPS Recovery (without PRAN)	549815			604425				26500	26500
Loan, Advances and Other Assets/Recovery									
Car Advance Recovery		1239		1325				283651688	316189138
Computer Advance Recovery		87000		77000					
House Building Advance Recovery		4804		6000					
Festival Advance Recovery		480600		824325					
Recovery/Deductions (Engg Works)		4462203		2963516					
Recovery/Deductions (other than Engg Works)		1860111		1435366					
Total	2328857516			2122677723				2328857516	2122677723

ACCOUNTS OFFICER

CHIEF, RPC

All India Institute of Medical Sciences, New Delhi
Dr. Rajendra Prasad Centre for Ophthalmic Sciences
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018

	(Amount in Rupees)	
	2017-18	2016-17
<u>SCHEDULE 1- CORPUS/CAPITLA FUND:</u>		
Balances as at the beginning of the year	2966471076	2697371076
Add : Contributions towards Corpus/Capital Fund	240000000	269100000
Less : Fixed Assets Condemned during the year	0	0
	3206471076	2966471076
BALANCE AS AT THE YEAR-END	3206471076	2966471076

	(Amount in Rupees)	
	Current Year	Pervious Year
<u>SCHEDULE 2- RESERVES AND SURPLUS:</u>		
1. Capital Reserve:		
As per last Account		
Addition during the year		
Less: Deductions during the year		
2. Revaluation Reserve		
As per last Account		
Addition during the year		
Less: Deductions during the year		
3. Special Reserves		
As per last Account		
Addition during the year		
Less: Deductions during the year		
4. General Reserve		
As per last Account	252599633	164620595
Addition during the year	-112303698	87979038
Less: Deductions during the year	140295935	252599633
TOTAL	0	0
	140295935	252599633

ACCOUNTS OFFICER

All India Institute of Medical Sciences, New Delhi
Dr. Rajendra Prasad Centre for Ophthalmic Sciences
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018

(Amount in Rupees)

<u>SCHEDULE 3 - EARMARKED/ENDOWMENT FUNDS</u>	Scheme Non-RPC		SAP*	TOTALS	
	Scheme Non-RPC			2017-18	2016-17
a) Opening balance of the funds	10035278		0		11692753
b) Additions to the Funds:					
i. Donations/grants	22558756	50000000			13093983
ii. Income from investments made on account of funds		0			
iii. Other additions (specify nature)					
iv. Less Expenditure during the year					
TOTAL (a+b)	32594034	50000000		82594034	24786736
c) Utilisation/Expenditure towards objectives of funds					
i. <u>Capital Expenditure</u>					
- Fixed Assets					
- Others					
ii. <u>Revenue Expenditure</u>					
- Salaries, Wages and allowances etc.					
- Rent					
- Other Administrative expenses	11325176		995802		14751458
Total	11325176	995802		12320978	14751458
TOTAL (c)	11325176	995802		12320978	14751458
NET BALANCE AS AT THE YEAR-END (a+b-c)				70273056	10035278

* Swachhta Action Plan

ACCOUNTS OFFICER

All India Institute of Medical Sciences, New Delhi
Dr. Rajendra Prasad Centre for Ophthalmic Sciences
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018

(Amount in Rupees)

SCHEDULE 4-SECURED LOANS AND BORROWINGS:	2017-18		2016-17	
1. Central Government				
2. State Government				
3. Financial Institutions				
a) Term Loans				
b) Interest accrued and due				
4. Banks:				
a) Term Loans				
- Interest accrued and due				
b) Other Loans (specify)				
- Interest accrued and due				
5. Other Institutions and Agencies				
6. Debentures and Bonds				
7. Others (Specify)				
<u>TOTAL</u>	0	0	0	0

ACCOUNTS OFFICER

All India Institute of Medical Sciences, New Delhi
Dr. Rajendra Prasad Centre for Ophthalmic Sciences
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018

(Amount in Rupees)

SCHEDULE 5 - UNSECURED LOANS AND BORROWING	2017-18	2016-17
1. Central Government		
2. State Government		
3. Financial Institutions		
4. Banks:		
a) Term Loans		
b) Other Loans (specify)		
5. Other Institutions and Agencies		
6. Debentures and Bonds		
7. Fixed Deposits		
8. Others (Specify)		
<u>TOTAL</u>	0	0

SCHEDULE 6 - DEFERRED CREDIT LIABILITIES:	Current Year	Previous Year
a) Acceptances secured by hypothecation of capital equipment and other assets		
b) Others		
<u>TOTAL</u>	0	0

ACCOUNTS OFFICER

All India Institute of Medical Sciences, New Delhi
Dr. Rajendra Prasad Centre for Ophthalmic Sciences
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2017

(Amount in Rupees)

SCHEDULE 7 - CURRENT LIABILITIES AND PROVISIONS	2017-18		2016-17	
A. CURRENT LIABILITIES AND PROVISIONS				
1. Acceptances				
2. Sundry Creditors:				
a) For Goods				
a) Others				
3. Advances Received for patients from Govt Agencies				
i) NIAF				
Opening Balance	1516267		1374459	
Received during the year	113360		207808	
Expenditure during the year	74587	1555040	66000	1516267
4. Projects Grants				
ii) NPCB		827		827
5. Interest accrued but not due on:				
a) Secured Loans/borrowings				
a) Unsecured Loans/borrowings				
6. Statutory Liabilities:				
a) Overdue				
a) Others				
7. Security Deposits (EMD)				
Opening Balance	11071806		9382306	
Received during the year	1671000		2887500	
Refund during the year	3506072	9236734	1198000	11071806
8. Other current Liabilities		227078		227078
9. Amt against recoveries to be remitted to AIIMS (MAIN)		0		0
Opening Balance	0			0
Less : Remitted to AIIMS (MAIN)	0	0		0
10. Custom Duty to be paid to Store (D.O.)				
Opening Balance	0	0		4157022
Less : Remitted to AIIMS (MAIN)	4157022	0		
TOTAL (A)		11019679		16973000
B. PROVISIONS				
1. For Taxation				
2. Gratuity				
3. Superannuation/Pension				
4. Accumulated Leave Encashment				
5. Trade Warranties/Claims				
6. Others (specify)				
TOTAL (B)				
TOTAL (A+B)		11019679		16973000

ACCOUNTS OFFICER

All India Institute of Medical Sciences, New Delhi
Dr. Rajendra Prasad Centre for Ophthalmic Sciences
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018

(Amount in Rupees)

SCHEDULE 8-FIXED ASSETS DISCUSSION	GROSS BLOCK				DEPRECIATION			NET BLOCK		
	Cost/valuation As at beginning of the year	Additions during the year	Deductions during the year	Cost/Valuation at the year end	As at the beginning of the year	On additions during the year	On Deductions during the year	Total up to the year-end	As at the Current year-end	As at the Previous year-end
A. FIXED ASSETS:										
1 LAND:										
a) Freehold										
b) Leasehold										
2 BUILDINGS:										
a) On Freehold Land	233443859	0	0	233443859	0	0	0	0	233443859	233443859
b) On Leasehold Land										
c) Ownership Flats/ Premises										
d) Superstructures on Land not belonging to the entity										
3 PLANT MACHINERY & EQUIPMENT	2599605803	134273700	0	2733879503	0	0	0	0	2733879503	2599605803
4 VEHICLES	7689572	0	0	7689572	0	0	0	0	7689572	7689572
5 FURNITURE, FIXTURES	17832384	351710	0	18184094	0	0	0	0	18184094	17832384
6 OFFICE EQUIPMENT										
7 COMPUTER/PERIPHERALS										
8 ELECTRIC INSTALLATIONS										
9 LIBRARY BOOKS										
10 TUBEWELLS & W. SUPPLY										
11 OTHER FIXED ASSETS										
TOTAL OF CURRENT YEAR	2858571618	134625410	0	2993197028	0	0	0	0	2993197028	2858571618
PREVIOUS YEAR										
CAPITAL WORK-IN-PROGRESS										
TOTAL										
B.										

ACCOUNTS OFFICER

All India Institute of Medical Sciences, New Delhi
Dr. Rajendra Prasad Centre for Ophthalmic Sciences
All India Institute of Medical Sciences, New Delhi

(Amount in Rupees)

<u>SCHECULE 9 - INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS</u>	<u>2017-18</u>	<u>2016-17</u>
1. In Government Securities		
2. Other approved Securities		
3. Shares		
4. Debenutres and Bonds		
5. Subsidiaries and Joint Venutres		0
6. Others (to be specified)		
<u>TOTAL</u>	<u>0</u>	<u>0</u>

<u>SCHECULE 10 - INVESTMENTS - OTHERS</u>	<u>2017-18</u>	<u>2016-17</u>
1. In Government Securities		
2. Other approved Securities		
3. Shares		
4. Debenutres and Bonds		
5. Subsidiaries and Joint Venutres		
6. Others (to be specified)		
<u>TOTAL</u>	<u>0</u>	<u>0</u>

ACCOUNTS OFFICER

All India Institute of Medical Sciences, New Delhi
Dr. Rajendra Prasad Centre for Ophthalmic Sciences
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018

		(Amount in Rupees)			
SCHEDULE 11 - CURRENT ASSETS, LOANS, ADVANCES ETC.		2017-18		2016-17	
A	<u>CURRENT ASSETS:</u>				
	1. <u>Advances for Procurement</u>				
	a) M&E Foreign Purchases	Opening Balance	48591168	134612169	
		Addition during the year	85882779	48757414	
		Adjusted during the year	25471214	109002733	48591168
	b) Material and Supply	Opening Balance	21432899	16774728	
		Addition during the year	0	11650800	
		Adjusted during the year	10774537	10658362	21432899
	c) Stock-in-trade	Finished Goods			
		Work-in-progress			
		Raw Material			
	2. <u>Sundry Debtors:</u>				
	a) Debts Outstanding for a period exceeding six months		76253		76253
	b) Others				
	3. <u>Cash balances in hand (including cheques/ drafts and imprest)</u>		26500		26500
	4. <u>Bank Balances:</u>				
	a) <u>With Scheduled Banks:</u>				
	On Current Accounts		283651688		316189138
	On Deposit Accounts (includes margin money)				
	On Savings Accounts				
	b) <u>With non-Scheduled Banks:</u>				
	On Current Accounts				
	On Deposit Accounts				
	On Savings Accounts				
	5. <u>PDA Advance</u>	opening balance	451865	900470	
		adjusted during the year	101810	350055	451865
	6. <u>Custom Duty Advance</u>	Opening Balance	0		
		Added during the year	40842978		
		Adjusted during the year	10061754	30781224	
	TOTAL (A)		434546815		386767823

ACCOUNTS OFFICER

All India Institute of Medical Sciences, New Delhi
Dr. Rajendra Prasad Centre for Ophthalmic Sciences
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018

	(Amount in Rupees)	
	2017-18	2016-17
SCHEDULE 11 - CURRENT ASSETS, LOANS, ADVANCES ETC. (Contd.)		
B		
LOANS, ADVANCES AND OTHER ASSETS		
1. Loans:		
a) Staff		
i) Motor car		
Opening Balance	1239	
Less : Recovered during the year	1239	1239
ii) House Building Advance		
Opening Balance	4804	
Less : Recovered during the year	4804	4804
iii) Computer Advance		
Opening Balance	227000	
Less : Recovered during the year	87000	
Add: Addition during the year	150000	227000
iv) Festival Advance		
Opening Balance	506503	
Less : Recovered during the year	480600	
Add: Addition during the year	0	506503
2. Advances and other amounts recoverable in cash or in kind or for value to be received:		
a) On Capital Account		
b) Prepayments		
c) Others		
a) On Investments from Earmarked / Endowment Funds		
b) On Investments - Others		
c) On Loans and Advances		
d) Others		
(includes income due unrealised - Rs.....)		
25903	290000	
3. Income Accrued:		
4. Claims Receivable:		
TOTAL (B)	315903	739546
TOTAL (A + B)	434862718	387507369

ACCOUNTS OFFICER

All India Institute of Medical Sciences, New Delhi
Dr. Rajendra Prasad Centre for Ophthalmic Sciences
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018

(Amount in Rupees)		
SCHECULE 12 - INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS	2017-18	2016-17
1) Income from Sales		
1. Hospital receipts	275116497	254323707
2. Administrative charges (Projects)	1275083	899548
3. Sale of Scraps		
2) Income from Services		
a) Labour and Processing Charges		
b) Professional / Consultancy Services		
c) Agency Commission and Brokerage		
d) Maintenance Services (Equipment/Property)		
e) Others (Specify) Hospital Receipt		
TOTAL	276391580	255223255

SCHECULE 13 - GRANTS / SUBSIDIES	2017-18	2016-17
1) Income from Sales		
(Irrevocable Grants & Subsidies Received)		
1. Central Government (Through AIIMS Main)	1190000000	1125769000
2. State Government(s)		
3. Government Agencies		
4. Institutions/ Welfare Bodies		
5. International Organisations		
6. Others (Specify)		
TOTAL	1190000000	1125769000

ACCOUNTS OFFICER

All India Institute of Medical Sciences, New Delhi
 Dr. Rajendra Prasad Centre for Ophthalmic Sciences
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2018

	(Amount in Rupees)	
	2017-18	2016-17
SCHEDULE 14 - FEES/SUBSCRIPTIONS		
1. Tuition & Examination Fee		
2. Licence Fee		
3. Seminar/Program Fees		
4. Consultancy Fees		
5. Others (Specify) EHS		
TOTAL	0	0

	Investment from Earmarked Fund		Investment-Others	
	2017-18	2016-17	2017-18	2016-17
SCHEDULE 15 - INCOME FROM INVESTMENTS				
(Income on Invest. From Earmarked/Endowment Funds transferred to Funds)				
1. Interest				
a) On Govt. Securities				
a) Other Bonds/Debentures				
2. Dividends:				
a) On Shares				
a) On Mutual Fund Securities				
3. Rents				
4. Others (Specify)				
TOTAL				
TRANSFERRED TO EARMARKED/EDNOWNMENT FUNDS	0	0	0	0

ACCOUNTS OFFICER

All India Institute of Medical Sciences, New Delhi
Dr. Rajendra Prasad Centre for Ophthalmic Sciences
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2018
(Amount in Rupees)

<u>SCHEDULE 16 - INCOME FROM ROYALTY, PUBLICATION ETC.</u>	2017-18	2016-17
1. Income from Royalty		
2. Income from Publications		
3. Others (specify)		
TOTAL	0	0

<u>SCHEDULE 17 - INTEREST EARNED</u>	2017-18	2016-17
1. On Term Deposits:		
a) With Scheduled Banks		
b) With Non-Scheduled Banks	4294722	13850476
c) With Institutions		
d) Others		
2. On Savings Accounts:		
a) With Scheduled Banks		
b) With Non-Scheduled Banks		
c) Post Office Savings Accounts		
d) Others		
3. On Loans:		
a) Employees/Staff	461943	505931
b) Others		
4. Interest on Debtors and other Receivables		
TOTAL	4756665	14356407

ACCOUNTS OFFICER

All India Institute of Medical Sciences, New Delhi
Dr. Rajendra Prasad Centre for Ophthalmic Sciences
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2018

	(Amount in Rupees)	
	2017-18	2016-17
<u>SCHEDULE 18 - OTHERS INCOME</u>		
1. Misc. Receipt	153380	232924
2. Estb. Receipt (Scheme)		
3. Others (specify)		
TOTAL	153380	232924
<u>SCHEDULE 19 - INCREASE/(DECREASE) IN STOCK OF FINISHED GOODS & WORK IN PROGRESS</u>		
2017-18	2017-18	2016-17
a) Closing stock		
- Finished Goods		
- Work-in-progress		
b) Less: Opening Stock		
- Finished Goods		
- Work-in-progress		
NET INCREASE/(DECREASE) [a+b]	0	0
<u>SCHEDULE 20 - ESTABLISHMENT EXPENSES</u>		
	Current Year	Previous Year
Salaries and Wages	833419749	718575995
Allowances and Bonus		
Travelling Allowances	7702130	8338087
Contribution to NPS	17354550	14295528
Contribution to Other Fund (Scheme Cell)		
Staff Welfare Expenses		
Expenses on Employees "Retirement and Terminal Benefits"		
Others (NPS & LSPC)		
TOTAL	858476429	741209610

ACCOUNTS OFFICER

All India Institute of Medical Sciences, New Delhi
Dr. Rajendra Prasad Centre for Ophthalmic Sciences
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2018
(Amount in Rupees)

SCHEDULE 21 - OTHER ADMINISTRATIVE EXPENSES ETC.	2017-18	2016-17
a) Purchases (Material and Supply)	512653937	423166589
b) Material received against advance paid during last years	10774537	6992629
c) Office Expenses	5587028	6369170
d) Securities	33225168	17505284
e) Other Outsourcing Agency	13083037	7400173
f) Administrative Charges (Projects)	506773	480592
g) Repairs and maintenance (M&E)	2500212	1755413
h) Bank charges	8576	
i) Rent, Rates and Taxes		
j) Vehicles, Running and Maintenance		
k) Postage, Telephone and Communication Charges		
l) Printing and Stationary		
m) Travelling and Conveyance Expenses		
n) Expenses on Seminar/Workshops		
o) Subscription Expenses		
p) Expenses on Sanitation	36212796	21661419
q) Maintaince of Buildings (Minor Work RG)	40065577	15838519
r) Maintaince of M&E (CAMC/AMC)	49047336	47500580
s) Maintaince of Building (Non-plan)	21463917	17352096
t) Provision for Bad and Doubtful Debts/Advances		
u) Irrecoverable Balances Written-off		
v) Swap Charges (IDBI Debit/Credit Card Commission)	0	370474
w) Freight and Forwarding Expenses		
x) Distribution Expenses		
y) Insurance		
z) Advertisement and Publicity		
aa) Others (specify)(Contingency charge)		
TOTAL	725128894	566392938

ACCOUNTS OFFICER

All India Institute of Medical Sciences, New Delhi
Dr. Rajendra Prasad Centre for Ophthalmic Sciences
SCHEDULES FORMING PART OF RECEIPT & PAYMENT FOR THE YEAR ENDED 31-03-2018
(Amount in Rupees)

SCHEDULE 21 - OTHER ADMINISTRATIVE EXPENSES ETC.	2017-18	2016-17
a) Purchases (Material and Supply)	512653937	423166589
b) Office Expenses	5587028	6369170
c) Securities	33225168	17505284
d) Other Outsourcing Agency	13083037	7400173
e) Administrative Charges (Projects)		
f) Insurance		
g) Repairs and maintenance (M&E)	2500212	1755413
h) Excise Duty		
i) Rent, Rates and Taxes		
j) Vehicles, Running and Maintenance		
k) Postage, Telephone and Communication Charges		
l) Printing and Stationary		
m) Travelling and Conveyance Expenses		
n) Expenses on Seminar/Workshops		
o) Subscription Expenses		
p) Expenses on Sanitation	36212796	21661419
q) Maintaince of Buildings (Minor Work RG)	40065577	15838519
r) Maintaince of M&E (CAMC/AMC)	49047336	47500580
s) Maintaince of Building (Non-plan)	21463917	17352096
t) Provision for Bad and Doubtful Debts/Advances		
u) Irrecoverable Balances Written-off		
v) Swap Charges/Bank charges (IDBI Debit/Credit Card Commission)	0	370474
w) Freight and Forwarding Expenses		
x) Distribution Expenses		
y) Advertisement and Publicity		
z) Others (specify)(Contingency charge)		
TOTAL	713839008	558919717

ACCOUNTS OFFICER

All India Institute of Medical Sciences, New Delhi
Dr. Rajendra Prasad Centre for Ophthalmic Sciences
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2018
(Amount in Rupees)

SCHEDULE 22- EXPENDITURE ON GRANTS, SUBSIDIES ETC.	2017-18	2016-17
a). Grants given to Institutions/Organizations		
b). Subsidies given to Institutions/organisations		
Total	0	0

SCHEDULE 23- INTEREST	2017-18	2016-17
a) On fixed Loans		
b) On other Loans (includidng Bank charges)		
c) Ohters(Specify)		
Total	0	0

ACCOUNTS OFFICER

ALL INDIA INSTITUTE OF MEDICAL SCIENCES
DR. RAJENDRA PRASAD CENTRE FOR OPHTHALMIC SCIENCES
 Receipts & Payment Account for the year 2017-18. (Poor Patient Fund A/c)

	RECEIPTS	AMOUNT	PAYMENT	AMOUNT
1	Opening Balance as on 01-04-2013	456904.22	Expenditure incurred on Treatment of Poor Patients During the year 2017-18	179908
2	Donation Received during the year 2017-18	467350	Closing balance as on	782086.22
3	Interest Received during the year 2017-18	18740		
4	Suspense Amount	19000		
	Total	961994.22		961994.22

ACCOUNTS OFFICER (RPC)

Dr. Bhim Rao Ambedkar Institute Rotary Cancer Hospital
BALANCE SHEET AS AT 31st March - 2018

		(Amount in Rs.)	
	Schedule	Current Year 2017-18	Previous Year 2016-17
<u>CORPUS/CAPITAL FUND AND LIABILITIES</u>			
CORPUS/CAPITAL FUND	1	2,49,44,10,578	2,39,42,79,753
RESERVES AND SURPLUS	2	3,36,16,396	2,05,65,301
EARMARKED/ENDOWMENT FUNDS	3	18,64,92,645	10,93,87,803
SECURED LOANS AND BORROWINGS	4	-	-
UNSECURED LOANS AND BORROWINGS	5	-	-
DEFERRED CREDIT LIABILITIES	6	.....	.....
CURRENT LIABILITIES AND PROVISIONS	7	39,12,820	23,32,820
TOTAL		2,71,84,32,439	2,52,65,65,677
<u>ASSETS</u>			
FIXED ASSETS	8	2,13,91,40,027	2,06,65,88,433
INVESTMENTS – FROM EARMARKED/ENDOWMENT FUNDS	9	-	-
INVESTMENTS – OTHERS	10	-	-
CURRENT ASSETS, LOANS, ADVANCES ETC.	11	57,92,92,412	45,99,77,244
MISCELLANEOUS EXPENDITURE (Balance of excess of expenditure over income)		-	-
(to the extent not written off or adjusted)			
TOTAL		2,71,84,32,439	2,52,65,65,677
SIGNIFICANT ACCOUNTING POLICIES	24		
CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS	25		

Dr. Bhim Rao Ambedkar Institute Rotary Cancer Hospital
INCOME AND EXPENDITURE ACCOUNT FOR THE PERIOD/YEAR ENDED 2017-18

		(Amount in Rs.)	
INCOME	Schedule	Current Year 2017-18	Previous Year 2016-17
Income from sales/services	12	2,38,39,849	2,04,45,665
Grants/Subsidies	13	1,24,70,43,000	1,08,34,34,000
Fees/Subscriptions	14		
Income from Investments (Income on Invest, from earmarked/endow. Fund transferred to Funds)	15		
Income from Royalty, Publication etc.	16		
Interest Earned	17	34,01,586	25,41,248
Other Income	18	98,457	
Increase/(decrease) in stock of Finished goods and works-in-progress	19		
TOTAL(A)		1,27,43,82,892	1,10,64,20,913
EXPENDITURE			
Establishment Expenses	20	77,79,28,149	64,02,90,018
Other Administrative Expenses etc.	21	48,34,03,648	43,60,25,832
Expenditure on Grants, Subsidies etc.	22		
Interest	23		
Depreciation (Net Total at the year-end – corresponding to schedule 8)			
TOTAL(B)		1,26,13,31,797	1,07,63,15,850
Balance being excess of Income over Expenditure (A-B)		1,30,51,095	3,01,05,063
Transfer to Special Reserve (Specify each)			
Transfer to /from General Reserve			
BALANCE BEING SURPLUS/(DEFICIT) (Adjusted in Income & Expenditure)		1,30,51,095	3,01,05,063
SIGNIFICANT ACCOUNTING POLICIES	24		
CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS	25		

Dr. Bhim Rao Ambedkar Institute Rotary Cancer Hospital
RECEIPTS AND PAYMENTS FOR THE PERIOD/YEAR ENDED 2017-18

		(Amounts in Rs.)			
RECEIPTS	Current Year 2017-18	Previous Year 2016-17	PAYMENTS	Current Year 2017-18	Previous Year 2016-17
I. Balances (Opening)					
(a) Cash In hand			a) Establishment Expenses (corresponding to schedule 20)	77,79,28,149	64,02,90,018
(b) Bank Balances			b) Administrative Expenses (corresponding to schedule 21)	48,34,03,648	43,60,25,832
(i) Current Accounts	11,04,42,002	5,99,42,453	II. Payments made against funds for various projects		
(ii) Deposit Account	3,60,00,000		a) Out of Earmarked/Endowment funds		
(iii) Saving Accounts			b) Revolving funds		
II. Grant Received					
(a) From Government of India through AIIMS (Main)			(i) R T Revolving Fund	-	-
(i) Grant in Aid (Plan) (Capital Assets)	11,00,00,000	11,09,55,000	(ii) Medical Oncology Fund	-	-
(ii) Swachhta Action Plan	5,00,00,000		(iii) Poor Patient A/c	4,59,969	14,08,686
(iii) Grant in Aid (Salary) (Non-Plan)	78,20,43,000	65,34,34,000	(iv) Patient Treatment A/c	8,17,95,620	9,90,51,883
(iv) Grant in Aid (General) (Non-Plan)	46,50,00,000	43,00,00,000	(v) HMCPCF A/c	29,55,648	22,09,197
(b) State Government			(vi) ICMR	-	-
(c) Other sources (details)			(vii) Swachhta action Plan	94,12,238	....
(b) From State Government			III. Investments and deposits made		
(c) From Other Sources-Scrap Sales					
(For Capital & Revenue to be Shown Separately)	4,02,000		IV. Expenditure on Fixed Assets & Capital Work-in-progress		
III. On Investments from					
(a) Earmarked/Endow. Funds			a) Purchase of Fixed Assets	6,51,24,243	7,24,44,296
(b) Revolving Funds			b) Letter of Credit (advance)	4,38,05,454	2,32,61,539
(i) R T Revolving Fund	27,13,200	70,03,305	b) Expenditure on Capital Work-in-progress	-	-
(ii) Medical Oncology Fund	3,99,900	3,93,080	c) Custome duty advance	10,00,000	4,33,291
			V. Refund of surplus money/Loans		
			a) To the Government of India		
			b) To the State Government		
			c) To other providers of fund		

(iii) Poor Patient A/c	8,82,100	8,72,891		
(iv) Patient Treatment A/c	11,59,21,900	9,69,72,675		
(v) HMC/PPF A/c	30,00,000	40,00,000		
(vi) ICMR	-	-		
(b) Funds (others Investment)				
IV. Interest Received				
(a) On Bank deposits	34,01,586	25,41,248		10,92,000
Interest on TDR	23,69,217	4,77,525		-
Interest on poor patient account				-
Interest on patient treatment account				-
(b) Loans & Advances etc.				5,01,300
V. Other Income (Specify)				
(a) Donation/Grant				-
(d) Hospital Receipts/Misc Receipts	2,34,37,849	2,04,45,665		4,71,80,626
(e) TDR Issued	-	-		11,80,18,059
(f) Employee Recovery				-
(i) AIIMS Recoveries				
(ii) Outside Recoveries				
VI. Amount Borrowed				
				16,45,220
VII. Other receipts (give details)				
(a) Earnest Money Deposits	42,36,000	11,44,000		
(b) Employees Recovery				
i) Recoveries from employees	1,70,53,061	4,71,80,626		20,84,95,385
ii) Outside Recoveries	18,39,51,104	11,80,18,059		3,00,00,000
Loan, Advances & Other Assets				
(i) Conveyance Advance	34,800	64,744		
(ii) Computer Advances	13,800	36,678		
(iii) Festival Advances Recovery	2,97,000	5,22,000		
Total	1,91,15,98,519	1,55,40,03,949	Total	1,91,15,98,519
				1,55,40,03,949

Dr. Bhim Rao Ambedkar Institute Rotary Cancer Hospital
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st March - 2018

((Amount in Rs.))

SCHEDULE 1 -CORPUS/CAPITAL FUND:	Current Year 2017-18	Previous Year 2016-17
Balance as at the beginning of the year	2,39,42,79,753	2,30,45,26,381
Add: Contributions towards Corpus/Capital Fund	11,00,00,000	11,09,55,000
Less: M & E Condemned	98,69,175	2,12,01,628
Less: Excess Capitalized	-	-
Add/ (Deduct) : Balance of net income/(expenditure)	-	-
Transferred from the Income and Expenditure Account	10,01,30,825	8,97,53,372
BALANCE AS AT THE YEAR-END	2,49,44,10,578	2,39,42,79,753

SCHEDULE 2 -RESERVES AND SURPLUS:	Current Year 2017-18	Previous Year 2016-17
1. Capital Reserve :		
As per last Account	....	....
Additional during the year	....	....
Less : Deductions during the year	(....)	(....)
2. Revaluation Reserve :	.....	.....
As per last Account	....	....
Additional during the year	....	....
Less : Deductions during the year	(....)	(....)
3. Special Reserves :	.....	.....
As per last Account	....	....
Additional during the year	....	....
Less : Deductions during the year	(....)	(....)
4. General Reserves :	.....	.....
As per last Account	....	....
Additional during the year	-	-
Less : Deductions during the year	-	-
5. Excess of Income over Expenditure	2,05,65,301	95,39,762
As per last Account	1,30,51,095	3,01,05,063
Additional during the year	-	-
Less : Deductions during the year	3,36,16,396	2,05,65,301
TOTAL	3,36,16,396	2,05,65,301

Dr. Bhim Rao Ambedkar Institute Rotary Cancer Hospital
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st March - 2018

(Amount in Rs.)

SCHEDULE 3 - EARMARKED/ENDOWMENT FUNDS	FUND-WISE BREAK UP					TOTALS		
	R.T. Revolving Fund	Medical Oncology Revolving Fund	Poor Patient A/c Fund	Patient Treatment A/c Fund	HMCPF	Swachhata Action Plan	Current Year	Previous Year
a) Opening balance of the funds	97,10,523	23,64,219	19,10,073	9,36,01,276	18,01,712	-	10,93,87,803	7,23,38,093
b) Additions to the Funds:								
i Donations/grants	27,13,200	3,99,900	8,82,100	11,59,21,900	30,00,000	5,00,00,000	17,29,17,100	10,92,41,951
ii Income from investments made on account of funds	-	-	-	-	-	-	-	-
iii Other additions (specify nature)	-	-	23,69,217	-	-	-	23,69,217	4,77,525
TOTAL (a+b)	1,24,23,723	27,64,119	51,61,390	20,95,23,176	48,01,712	5,00,00,000	28,46,74,120	18,20,57,569
a) Utilization/Expenditure towards objectives of funds								
i Capital Expenditure	-	-	-	-	-	-	-	-
- Fixed Assets	-	-	-	-	-	-	-	-
- Others	35,58,000	-	4,59,969	8,17,95,620	29,55,648	2,32,041	8,87,69,237	7,26,54,807
Total	35,58,000	-	4,59,969	8,17,95,620	29,55,648	-	8,87,69,237	7,26,54,807
ii Revenue Expenditure								
Salaries, Wages and allowances etc.	-	-	-	-	-	-	-	-
Rent	-	-	-	-	-	-	-	-
Other Administrative expenses	-	-	-	-	-	91,80,197	-	14,959
Total	-	-	-	-	-	91,80,197	-	14,959
TOTAL (c)	35,58,000	-	4,59,969	8,17,95,620	29,55,648	94,12,238	9,81,81,475	7,26,69,766
NET BALANCE AS AT THE YEAR-END (a+b-c)	88,65,723	27,64,119	47,01,421	12,77,27,556	18,46,064	4,05,87,762	18,64,92,645	10,93,87,803
Notes								
1. Disclosures shall be made under relevant heads based on conditions attaching to the grants								
2. Plan fund received from Central/State Governments are to be shown as separate Funds and not be mixed up with any other funds.								

**Dr. Bhim Rao Ambedkar Institute Rotary Cancer Hospital_
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st March - 2018**

((Amount in Rs.))

SCHEDULE 4 - SECURED LOANS AND BORROWINGS:	Current Year 2017-18		Previous Year 2016-17	
1. Central Government			
2. State Government (Specify)			
3. Financial Institutions			
a) Terms Loans			
b) Interest accrued and due		
4. Banks:			
a) Term Loans			
- Interest accrued and due		
b) Other Loans (Specify)		
- Interest accrued and due		
5. Other Institutions and Agencies			
6. Debentures and Bonds			
7. Others (Specify)			
TOTAL				
Note : Amounts due within one year				

**Dr. Bhim Rao Ambedkar Institute Rotary Cancer Hospital_
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st March - 2018**

((Amount in Rs.))

SCHEDULE 5 - UNSECURED LOANS AND BORROWINGS:	Current Year 2017-18		Previous Year 2016-17	
1. Central Government	
2. State Government (Specify)	
3. Financial Institutions	
4. Banks:	
a) Term Loans	
b) Other Loans (Specify)	
5. Other Institutions and Agencies	
6. Debentures and Bonds	
7. Fixed Deposits	
8. Others (Specify)	
Total				
Note : Amounts due within one year				

SCHEDULE 6 - DEFERRED CREDIT LIABILITIES:	Current Year 2017-18		Previous Year 2016-17	
a) Acceptances secured by hypothecation of capital equipment and other assets	
b) Others	
TOTAL	
Note : Amounts due within one year				

Dr. Bhim Rao Ambedkar Institute Rotary Cancer Hospital
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st March - 2018

(Amount in Rs.)

<u>SCHEDULE 7 – CURRENT LIABILITIES AND PROVISIONS</u>	Current Year 2017-18		Previous Year 2016-17	
A. CURRENT LIABILITIES				
1. Acceptance				
2. Sundry Creditors:				
a) For Goods		.....		.....
b) Others	.....		.....
3. Advances Received	.....		.....
4. Interest accrued but not due on:				
a) Secured Loans/borrowings		.....		.....
b) Unsecured Loans/borrowings	.....		.....
5. Statutory Liabilities:				
a) Overdue				.....
b) Others	.....		.....
Opening Balance : Payment towards Engg	-		16,45,220	
Less : Paid during the year	-		16,45,220	-
6. Other current liabilities				
a) Bank Overdraft (as per Cash Book)	-		-	
b) EMD/ Security Deposits			23,32,820	
Opening Balance	23,32,820			
Add During 2017-18	42,36,000			
Add Previous year Adj.	35,58,000*			
Less Payment During 2017-18	62,14,000			
c) FDR Issued	39,12,820		-	23,32,820
<u>TOTAL (A)</u>		39,12,820		23,32,820
A. PROVISIONS				
1. For Taxation		.....		-
2. Gratuity		.....		-
3. Superannuation/Pension				
4. Accumulated Leave Encashment				
5. Trade Warranties/Claims				
Others (Specify)		.....		-
<u>TOTAL (B)</u>		.....		-
<u>TOTAL (A+B)</u>		39,12,820		23,32,820

* Previous Year Adj.

Dr. Bhim Rao Ambedkar Institute Rotary Cancer Hospital
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st March - 2018

(Amount in Rs.)

SCHEDULE 8 – FIXED ASSETS DESCRIPTION	GROSS BLOCK			DEPRECIATION			NET BLOCK			
	Cost/valuation as at beginning of the year	Additions during the year	Deductions during the year	Cost/valuation at the year-end	As at the beginning of the year	On Additions during the year	On Deductions during the year	Total up to the year-end	As at the Current year-end	As at the previous year-end
A. FIXED ASSETS:										
1. LAND:										
a) Freehold										
b) Leasehold										
2. BUILDINGS:										
a) On Freehold Land	33,90,60,768			33,90,60,768				-	33,90,60,768	33,90,60,768
b) On Leasehold Land										
c) Ownership Flats/Premises										
d) Superstructures on Land										
Not belonging to the entity										
3. PLANT MACHINERY & EQUIPMENT	1,71,30,42,229			1,78,48,52,614				-	1,78,48,52,614	1,71,30,42,229
4. VEHICLES	35,63,988	8,16,79,560	98,69,175	35,63,988				-	35,63,988	35,63,988
5. FURNITURE, DIXTURES	1,09,21,448	7,41,209		1,16,62,657				-	1,16,62,657	1,09,21,448
6. OFFICE EQUIPMENT										
7. COMPUTER/PERIPHERALS										
8. ELECTRIC INSTALLATIONS										
9. LIBRARY BOOKS										
10. TUBEWELLS & W.SUPPLY										
11. OTHER FIXED ASSETS										
TOTAL OF CAURRENT YEAR	2,06,65,88,433	8,24,20,769	98,69,175	2,13,91,40,027	-	-	-	-	2,13,91,40,027	2,06,65,88,433
PREVIOUS YEAR	1,97,74,26,324	11,03,63,737	2,12,01,628	2,06,65,88,433					2,06,65,88,433	1,97,74,26,324
B. CAPITAL WORK-IN-PROGRESS										
TOTAL										

(Note to be given as to cost of assets on hire purchase basis include above)

Dr. Bhim Rao Ambedkar Institute Rotary Cancer Hospital_
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st March - 2018

(Amount in Rs.)

SCHEDULE 9 – INVESTMENTS FROM EARMARKED/ENDOWMENT FUNDS	Current Year 2017-18	Previous Year 2016-17
1. In Government Securities	
2. Other approved Securities	
3. Shares	
4. Debentures and Bonds	
5. Subsidiaries and joint Ventures	
6. Others (to be specified)	
<u>TOTAL</u>	

SCHEDULE 10 – INVESTMENTS - OTHERS	Current Year 2017-18	Previous Year 2016-17
1. In Government Securities	
2. Other approved Securities	
3. Shares	
4. Debentures and Bonds	
5. Subsidiaries and joint Ventures	
6. Others (to be specified)	
<u>TOTAL</u>	

Dr. Bhim Rao Ambedkar Institute Rotary Cancer Hospital_
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st March - 2018

(Amount in Rs.)

SCHEDULE 11 – CURRENT ASSETS, LOANS, ADVANCES ETC.	Current Year 2017-18		Previous Year 2016-17	
A. CURRENT ASSETS:				
1. Inventors:				
a) Stores and Spares	-		-	
b) Loose Tools	-		-	
c) Stock-in-trade				
Finished Goods	-		-	
Work-in-progress	-		-	
Raw Materials	-		-	
2. Sundry Debtors:				
a) Debts Outstanding for a period exceeding six months	-		-	
b) Others	-		-	
3. Cash balance in hand)including cheques/drafts and imprest)				
4. Bank Balances:				
a) With Scheduled banks:				
-On Current Accounts (IRCH)	6,42,20,344		4,91,28,941	
-On Current Accounts (PATIENT TREATMENT A/C)	9,77,27,557		5,76,01,276	
-On Current Accounts (POOR PATIENT A/C)	47,01,421		19,10,073	
-On Current Accounts (HMCPPF)	18,46,063		18,01,712	
-On Deposit Accounts (PATIENT TREATMENT A/C)(FDR)	3,00,00,000		3,60,00,000	
-On Deposit Accounts (IRCH) (FDR)	4,00,00,000		-	
b) With non-Scheduled Banks:				
-On Current Accounts	-		-	
-On Deposit Accounts	-		-	
-On Saving Accounts	-		-	
5. Post Office Saving Accounts	-	23,84,95,385	-	14,64,42,002
<u>TOTAL (A)</u>		23,84,95,385		14,64,42,002

**Dr. Bhim Rao Ambedkar Institute Rotary Cancer Hospital_
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st March - 2018**

(Amount in Rs.)

SCHEDULE 11 – CURRENT ASSETS, LOANS, ADVANCES ETC. (Contd.)	Current Year 2017-18		Previous Year 2016-17	
B. LOANS, ADVANCES AND OTHER ASSETS				
1. Loans:				
a) Staff	1,78,000		4,25,143	
b) Other Entities engaged in activities/objectives similar to that of the Entity	-		-	
c) Other (Specify)	-	1,78,000	-	4,25,143
2. Advances and other amounts recoverable in cash or in kind or for value to be received:				
a) On Capital Account				
Machinery and Equipment				
Opening Balance	25,43,25,776		26,67,31,778	
Add: Addition during the year	4,38,05,454		2,32,61,539	
Less : Adjusted during the year	1,46,41,614	28,34,89,616	3,56,67,541	25,43,25,776
Custome Duty/PDA Advance				
Opening Balance	5,61,58,323		5,79,76,932	
Add: Addition during the year	10,00,000		4,33,291	
Less : Adjusted during the year	22,21,621		22,51,900	5,61,58,323
Less : Previous year adjustment	4,33,291	5,45,03,411		
b) NDMC		26,26,000		26,26,000
c) Others	-		-	
3. Income Accrued:				
a) On Investments from Earmarked/Endowment Funds	-		-	
b) On Investments – Others	-		-	
c) On Loans and Advances	-		-	
d) Others	-		-	
(includes income due unrealized Rs.....)				
4. Claims Receivable	-		-	-
<u>TOTAL (B)</u>		34,07,97,027		31,35,35,242
<u>TOTAL (A+B)</u>		57,92,92,412		45,99,77,244

Dr. Bhim Rao Ambedkar Institute Rotary Cancer Hospital
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE PERIOD/YEAR ENDED 2017-18

(Amount in Rs.)

SCHEDULE 12 – INCOME FROM SALES/SERVICES	Current Year 2017-18	Previous Year 2016-17
1) Income from Sales		
a) Sale of Finished Goods		
b) Sale of Raw Material		
c) Sale of Scraps	4,02,000	
2) Income from Services		
a) Hospital Receipts	2,34,37,849	2,04,45,665
b) Professional/Consultancy Services		
c) Agency Commission and Brokerage		
d) Maintenance Services (Equipment/property)		
e) Others (Specify)		
TOTAL	2,38,39,849	2,04,45,665

<u>SCHEDULE 13 – GRANTS/SUBSIDIES</u>	Current Year 2017-18	Previous Year 2016-17
(Irrevocable Grants & Subsidies Received)		
1) Central Government (Through AIIMS Main)	1,24,70,43,000	1,08,34,34,000
2) State Government(s)		
3) Government Agencies		
4) Institutions/Welfare Bodies		
5) International Organizations		
<u>TOTAL</u>	1,24,70,43,000	1,08,34,34,000

Dr. Bhim Rao Ambedkar Institute Rotary Cancer Hospital
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE PERIOD/YEAR ENDED 2017-18

(Amount in Rs.)

SCHEDULE 14 – FEES/SUBSCRIPTIONS	Current Year 2017-18	Previous Year 2016-17
	1) Entrance Fees 2) Annual Fees/subscriptions 3) Seminar/Program Fees 4) Consultancy Fees 5) Others (Specify)	
TOTAL		
Note – Accounting Policies towards each item are to be disclosed		

SCHEDULE 15 – INCOME FROM INVESTMENTS (Income on Invest. From Ear4marked/Endowment Funds transferred to funds)	Investment from Earmarked Fund		Investment - Others	
	Current Year 2017-18	Previous Year 2016-17	Current Year 2017-18	Previous Year 2016-17
1) Interest				
a) On Govt. Securities
b) Other Bonds/Debentures
2) Dividends:				
a) On Shares
b) On Mutual Fund Securities
3) Rents
4) Others (Specify)				
TOTAL				
TRANSFERRED TO EARMARKED/ENDOWMENT FUNDS				

Dr. Bhim Rao Ambedkar Institute Rotary Cancer Hospital
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE PERIOD/YEAR ENDED 2017-18

(Amount in Rs.)

<u>SCHEDULE 16 – INCOME FROM ROYALTY, PUBLICATIONS ETC.</u>	Current Year 2017-18	Previous Year 2016-17
1) Income from Royalty		
2) Income from Publications		
3) Others (Specify)		
<u>TOTAL</u>		

Dr. Bhim Rao Ambedkar Institute Rotary Cancer Hospital
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE PERIOD/YEAR ENDED 2017-18

<u>SCHEDULE 17 – INTEREST EARNED</u>	Current Year 2017-18	Previous Year 2016-17
1) On Term Deposits:		
a) With Scheduled Banks		
b) With Non-Scheduled Banks		
c) With Institutions		
d) Others		
2) On Savings Accounts:		
a) With Scheduled Banks		
b) With Non-Scheduled Banks		
c) Post Office Savings Accounts		
d) Others		
3) On Loans:		
a) Employees/Staff		
b) Others		
4) Interest on Debtors and Other Receivables		
<u>TOTAL</u>	34,01,586	25,41,248
Note – Tax deducted at source to be indicated		

Dr. Bhim Rao Ambedkar Institute Rotary Cancer Hospital
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE PERIOD/YEAR ENDED 2017-18

(Amount in Rs.)

SCHEDULE 18 – OTHER INCOME	Current Year 2017-18	Previous Year 2016-17
1) Profit on sale/disposal of Assets:		
a) Owned assets		
b) Assets acquired out of grants, or received free of cost		
2) Export Incentives realized		
3) Fees for Miscellaneous Services		
4) Miscellaneous-Adjustment on account of Festival and computer advance	98,457	
TOTAL	98,457	

SCHEDULE 19 – INCREASE/(DECREASE) IN STOCK OF FINISHED GOODS & WORK IN PROGRESS	Current Year 2017-18	Previous Year 2016-17
a) Closing Stock		
-Finished Goods		
-Work-in-progress		
b) Less: Opening Stock		
-Finished Goods		
-Work-in-progress		
NET INCREASE/(DECREASE) (a+b)		

SCHEDULE 20 – ESTABLISHMENT EXPENSES	Current Year 2017-18	Previous Year 2016-17
a) Salaries and Wages	76,92,36,293	62,83,44,406
b) Travelling Allowance	86,91,856	1,19,45,612
c) Contribution to Provident Fund		.....
d) Contribution to Other Fund (Specify)	....	.....
e) Staff Welfare Expenses	....	.....
f) Expenses on Employees Retirement and Terminal Benefits	...	.....
g) Others :Festival advance excess adjusted to salary and wages		.....
TOTAL	77,79,28,149	64,02,90,018

Dr. Bhim Rao Ambedkar Institute Rotary Cancer Hospital
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE PERIOD/YEAR ENDED 2017-18

(Amount in Rs.)

SCHEDULE 21 – OTHER ADMINISTRATIVE EXPENSIVE ETC.	Current Year 2017-18	Previous Year 2016-17
a) Purchase (Material and Supply)	24,72,31,797	28,16,26,245
b) Regents	5,03,50,546	2,03,44,643
c) Hiring of Manpower	5,56,49,615	4,23,66,401
d) Minor Works (Engineering)	2,91,33,516	1,00,91,231
e) Sanitation Expenses	2,45,42,293	1,68,68,592
f) Maintenance of Building	1,50,53,860	1,36,41,698
g) Repairs and maintenance (M&E)	1,12,14,734	71,06,750
h) CAMC	4,95,96,612	4,11,39,548
i) Rent, Rates and Taxes		
j) Vehicles Running and Maintenance		
k) Postage, Telephone and Communication Charges		
l) Printing and Stationary		
m) Travelling and Conveyance Expense		
n) Expense on Seminar/Workshops		
o) Subscription Expenses		
p) Expenses on Fees		
q) Auditors Remuneration		
r) Hospitality Expenses		
s) Professional charges		
t) Provision for Bad and Doubtful Debts/Advances		
u) Irrecoverable Balances Written-off		
w) Others (specify) Contingency Bill	6,30,675	28,40,724
Clening and Forwarding for the Previous Year 2014-15		
Engg. Work Misc. recovery to be remitted to AIIMS (MAIN)	-	-
TOTAL	48,34,03,648	43,60,25,832

Dr. Bhim Rao Ambedkar Institute Rotary Cancer Hospital
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE PERIOD/YEAR ENDED 2017-18

(Amount in Rs.)

<u>SCHEDULE 22 – EXPENDITURE ON GRANTS, SUBSIDIES ETC.</u>	Current Year 2017-18	Previous Year 2016-17
a) Grants given to Institutions/Organisations		
b) Subsidies given to Institutions/Organisations		
<u>TOTAL</u>		

Note – Name of the Entities, their Activities along with the amount of Grants/subsidies are to be disclosed.

	Current Year 2017-18	Previous Year 2016-17
<u>SCHEDULE 23 – INTEREST</u>		
a) On Fixed Loans		
b) On Other Loans (including bank Charges)		
c) Others (specify)		
<u>TOTAL</u>		

All India Institute of Medical Sciences, New Delhi
Jai Prakash Narayan Apex Trauma Centre
BALANCE SHEET AS AT 31-03-2018

(Amount in Rupees)			
<u>CORPUS/CAPITAL FUND AND LIABILITIES</u>	Schedule	2017-18	2016-17
CORPUS/CAPITAL FUND	1	2982352665	2856911795
RESERVES AND SURPLUS	2	153940082	153308315
EARMARKED/ ENDOWMENT FUNDS	3	45730055	41650
SECURED LOANS AND BORROWINGS	4	0	0
UNSECURED LOANS AND BORROWINGS	5	0	0
DEFERRED CREDIT LIABILITIES	6	0	0
CURRENT LIABILITIES AND PROVISIONS	7	37468957	30617647
TOTAL		3219491759	3040879407
<u>ASSETS</u>			
FIXED ASSETS	8	2881994032	2822157928
INVESTMENTS-FROM EARMARKED/ENDOWMENT FUNDS	9	0	0
INVESTMENTS-OTHERS	10	0	0
CURRENT ASSETS, LOANS , ADVANCES ETC.	11	337497727	218721479
MISCELLANEOUS EXPENDITURE		0	0
(to the extent not written off or adjusted)			
TOTAL		3219491759	3040879407

ACCOUNTS OFFICER

CHIEF, JPNATC

All India Institute of Medical Sciences, New Delhi
Jai Prakash Narayan Apex Trauma Centre
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31-03-2018

		(Amount in Rupees)	
	Schedule	2017-18	2016-17
INCOME			
Income from Sales/Services (Hospital Receipts)	12	10005887	10909216
Grants/Subsidies	13	1656221458	1404453914
Fees/Subscriptions	14	0	0
Income from Investments (Income on Invest. From earned/endow. Funds transferred to funds)	15	0	0
Income for Royalty, Publication etc.	16	0	0
Interest Earned	17	9845810	15562341
Other Income	18	0	0
Increase/(decrease) in stock of Finished goods and works-in-progress	19		
TOTAL (A)		1676073155	1430925471
EXPENDITURE			
Establishment Expenses	20	976221458	829487983
Other Administrative Expenses etc.	21	699219930	575359371
Expenditure on Grants, Subsidies etc.	22	0	0
Interest	23	0	0
Depreciation (Net Total at the year-end - corresponding to Schedule 8)			
TOTAL (B)		1675441388	1404847354
Balance being excess of Expenditure over income (B-A)			
Transfer to Special Reserve (Specify each)		631767	26078117
Transfer to /from General Reserve			
BALANCE BEING SURPLUS/(DEFICIT) CARRIED TO CORPUS/ CAPITAL FUND		1676073155	1430925471

ACCOUNTS OFFICER

CHIEF, JPNATC

6.Amount Borrowed			Loan, Advances and Other Assets		
			Advance payment for purchase of Material and Supply	0	0
7.Any other receipts			Computer Advance	0	0
(a) NIAF	0	0	Festival Advance	0	234000
(b) Earnest Money Deposits	2881000	5437000	Recovery/Deductions (Engg Works)	0	0
(c) Employees Recovery			Recovery/Deductions (other than Engg Works)	0	0
i) Recoveries from employees (Festival)	0	0	Patient Expenses	1609910	1694465
ii) Outside Recoveries	0	0	CTRF	2796410	0
iii) GFP (Subscription and Advances)	0	0	AITSC	175227	783151
iv) NPS Recovery	0	0	Project	7347777	2772573
v) NPS Recovery (without PRAN)	0	0	RIA LAB		5025
			ATLS	0	1580068
Loan, Advances and Other Assets/Recovery					
Car Advance Recovery	0	0	8.Closing Balances		
Computer Advance Recovery	0	7000	(a) Cash in hand	4	0
House Building Advance Recovery	0	0	(b) Bank Balances		
Festival Advance Recovery	1665000	248850	(i) In current accounts	206493093	153162465
Recovery/Deductions (Engg Works)	0	0	(ii) In deposit accounts		
Recovery/Deductions (other than Engg Works)	0	0	(iii) In saving accounts		
AITSC	151620	170588			
CTRF	2880410	0			
PATIENT RECEIPTS /GRANT	2730000	2172960			
ATLS	0	520000			
RIA LAB	0	40700			
PROJECT	0	10120350			
CANCEL CHEQUE	0	1087349			
LIABILITIES					
M&E	9830237				
ENGG.	3078017				
Total	2129731946	1693499993	Total	2129731946	1693499993

All India Institute of Medical Sciences, New Delhi
Jai Prakash Narayan Apex Trauma Centre
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018

	(Amount in Rupees)	
	2017-18	2016-17
SCHEDULE 1- CORPUS/CAPITLA FUND:		
Balances as at the beginning of the year	2856911795	2817852700
Add : Contributions towards Corpus/Capital Fund	175096714	73676936
Less : Fixed Assets Condemned during the year	49655844	34617841
	2982352665	2856911795
BALANCE AS AT THE YEAR-END	2982352665	2856911795

	(Amount in Rupees)	
	Current Year	Pervious Year
SCHEDULE 2- RESERVES AND SURPLUS:		
1. <u>Capital Reserve:</u>		
As per last Account		
Addition during the year		
Less: Deductions during the year		
2. <u>Revaluation Reserve</u>		
As per last Account		
Addition during the year		
Less: Deductions during the year		
3. <u>Special Reserves</u>		
As per last Account		
Addition during the year		
Less: Deductions during the year		
4. <u>General Reserve</u>		
As per last Account	153308315	127230198
Addition during the year	631767	26078117
Less: Deductions during the year		
	0	0
TOTAL	153940082	153308315

ACCOUNTS OFFICER

All India Institute of Medical Sciences, New Delhi
Jai Prakash Narayan Apex Trauma Centre
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018
(Amount in Rupees)

<u>SCHEDULE 3 - EARMARKED/ENDOWMENT FUNDS</u>	Scheme Non-RPC			TOTALS	
	RIA Lab	SAP		2017-18	2016-17
a) Opening balance of the funds	41650	0			5975
b) Additions to the Funds:					
i. Donations/grants	0	50000000			40700
ii. Income from investments made on account of funds	0				
iii. Other additions (specify nature)					
iv. Less Expenditure during the year					
TOTAL (a+b)	41650	50000000		50041650	46675
c) Utilisation/Expenditure towards objectives of funds					
i. <u>Capital Expenditure</u>					
- Fixed Assets		4311595			
- Others					
ii. <u>Revenue Expenditure</u>					
- Salaries, Wages and allowances etc.					
- Rent					
- Other Administrative expenses	0	0			5025
Total	0	4311595		4311595	5025
TOTAL (c)	0	4311595		4311595	5025
NET BALANCE AS AT THE YEAR-END (a+b-c)				45730055	41650

* Swachhita Action Plan

ACCOUNTS OFFICER

All India Institute of Medical Sciences, New Delhi
Jai Prakash Narayan Apex Trauma Centre
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018

(Amount in Rupees)

SCHEDULE 4-SECURED LOANS AND BORROWINGS:	2017-18		2016-17	
1. Central Government				
2. State Government				
3. Financial Institutions				
a) Term Loans				
b) Interest accrued and due				
4. Banks:				
a) Term Loans				
- Interest accrued and due				
b) Other Loans (specify)				
- Interest accrued and due				
5. Other Institutions and Agencies				
6. Debentures and Bonds				
7. Others (Specify)				
<u>TOTAL</u>	0	0	0	0

ACCOUNTS OFFICER

All India Institute of Medical Sciences, New Delhi
Jai Prakash Narayan Apex Trauma Centre
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018

(Amount in Rupees)

SCHEDULE 5 - UNSECURED LOANS AND BORROWING	2017-18	2016-17
1. Central Government		
2. State Government		
3. Financial Institutions		
4. Banks:		
a) Term Loans		
b) Other Loans (specify)		
5. Other Institutions and Agencies		
6. Debentures and Bonds		
7. Fixed Deposits		
8. Others (Specify)		
<u>TOTAL</u>	0	0

SCHEDULE 6 - DEFERRED CREDIT LIABILITIES:	Current Year	Previous Year
a) Acceptances secured by hypothecation of capital equipment and other assets		
b) Others		
<u>TOTAL</u>	0	0

ACCOUNTS OFFICER

All India Institute of Medical Sciences, New Delhi
Jai Prakash Narayan Apex Trauma Centre
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2017

(Amount in Rupees)

SCHEDULE 7 - CURRENT LIABILITIES AND PROVISIONS	2017-18		2016-17	
A. CURRENT LIABILITIES AND PROVISIONS				
1. Acceptances				
2. Sundry Creditors:				
a) For Goods				
a) Others				
3. Advances Received for patients from Govt Agencies				
i) NIAF				
Opening Balance	0		0	
Received during the year	0		0	
Expenditure during the year	0	0	0	0
4. Projects Grants				
ii) NPCB		0		0
5. Interest accrued but not due on:				
a) Secured Loans/borrowings				
a) Unsecured Loans/borrowings				
6. Statutory Liabilities:				
a) Overdue				
a) Others				
7. Security Deposits (EMD)				
Opening Balance	9710968		10708968	
Received during the year	2881000		5437000	
Refund during the year	2778000	9813968	6435000	9710968
6. Other current Liabilities		24576972		20906679
9. Amt against recoveries to be remitted to AIIMS (MAIN)		0		0
Opening Balance	0		2345263	
Add : Create during the year	3078017			
Less : Remitted to AIIMS (MAIN)	0	3078017	2345263	0
10. Custom Duty to be paid to Store (D.O.)				
Opening Balance	0	0		0
Less : Remitted to AIIMS (MAIN)	0	0		
TOTAL (A)		37468957		30617647
B. PROVISIONS				
1. For Taxation				
2. Gratuity				
3. Superannuation/Pension				
6. Accumulated Leave Encashment				
6. Trade Warranties/Claims				
6. Others (specify)				
TOTAL (B)				
TOTAL (A+B)		37468957		30617647

ACCOUNTS OFFICER

All India Institute of Medical Sciences, New Delhi
Jai Prakash Narayan Apex Trauma Centre
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018

(Amount in Rupees)

SCHEDULE 8-FIXED ASSETS DISCRPTION	GROSS BLOCK			DEPRECIATION			NET BLOCK			
	Cost/valuation As at beginning of the year	Additions during the year	Deductions during the year	Cost/ Valuation at the year end	As at the beginning of the year	On additions during the year	On Deduction s during the year	Total up to the year-end	As at the Current year-end	As at the Previous year-end
A. FIXED ASSETS:										
1 LAND:										
a) Freehold	54310794			54310794					54310794	54310794
b) Leasehold										
2 BUILDINGS:										
a) On Freehold Land	689076549	0	0	689076549	0	0	0	0	689076549	689076549
b) On Leasehold Land										
c) Ownership Flats/ Premises										
d) Superstructures on Land not belonging to the entity										
PLANT MACHINERY & EQUIPMENT	2057855115	106717321	49655844	2114916592	0	0	0	0	2114916592	2057855115
VEHICLES	8395972	0	0	8395972	0	0	0	0	8395972	8395972
FURNITURE, FIXTURES OFFICE EQUIPMENT	12519498	2774627	0	15294125	0	0	0	0	15294125	12519498
COMPUTER/PERIPHERALS										
ELECTRIC INSTALLATIONS										
LIBRARY BOOKS										
TUBEWELLS & W. SUPPLY										
OTHER FIXED ASSETS										
TOTAL OF CURRENT YEAR	2822157928	109491948	49655844	2881994032	0	0	0	0	2881994032	2822157928
PREVIOUS YEAR	2749722781	98810272	34617841	2813915212						
B. CAPITAL WORK-IN-PROGRESS										
TOTAL										

ACCOUNTS OFFICER

All India Institute of Medical Sciences, New Delhi
 Jai Prakash Narayan Apex Trauma Centre
 All India Institute of Medical Sciences, New Delhi

(Amount in Rupees)

<u>SCHECULE 9 - INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS</u>	<u>2017-18</u>	<u>2016-17</u>
1. In Government Securities		
2. Other approved Securities		
3. Shares		
4. Debenutres and Bonds		
5. Subsidiaries and Joint Venutres		0
6. Others (to be specified)		
<u>TOTAL</u>	0	0

<u>SCHECULE 10 - INVESTMENTS - OTHERS</u>	<u>2017-18</u>	<u>2016-17</u>
1. In Government Securities		
2. Other approved Securities		
3. Shares		
4. Debenutres and Bonds		
5. Subsidiaries and Joint Venutres		
6. Others (to be specified)		
<u>TOTAL</u>	0	0

ACCOUNTS OFFICER

All India Institute of Medical Sciences, New Delhi
Jai Prakash Narayan Apex Trauma Centre
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018

SCHEDULE 11 - CURRENT ASSETS, LOANS, ADVANCES ETC.		(Amount in Rupees)			
		2017-18		2016-17	
A					
<u>CURRENT ASSETS:</u>					
1. <u>Advances for Procurement</u>					
a) M&E Foreign Purchases	Opening Balance	5424582		20576801	
	Addition during the year	114097564		34506433	
	Adjusted during the year	43515123	76007023	49658652	5424582
b) Material and Supply	Opening Balance	0		371457	
	Addition during the year	0		0	
	Adjusted during the year	0	0	371457	0
c) Stock-in-trade	Finished Goods				
	Work-in-progress				
	Raw Material				
2. <u>Sundry Debtors:</u>					
a) Debts Outstanding for a period exceeding six months			0		0
b) Others					
3. <u>Cash balances in hand (including cheques/ drafts and imprest)</u>			4		0
4. <u>Bank Balances:</u>					
a) <u>With Scheduled Banks:</u>					
On Current Accounts			206493093		153162465
On Deposit Accounts (includes margin money)					
On Savings Accounts					
b) <u>With non-Scheduled Banks:</u>					
On Current Accounts					
On Deposit Accounts					
On Savings Accounts					
5. <u>PDA Advance</u>					
opening balance		8006705		8594520	
adjusted during the year		55080	7951625	587815	8006705
6. <u>Custom Duty Advance</u>					
Opening Balance		36984897		54620915	
Added during the year		0			
Adjusted during the year		4922595	32062302	17636018	36984897
7. <u>Festival Advance</u>					
Opening Balance		0		0	
Added during the year		0		0	
Adjusted during the year		0	0	0	0
8. <u>Others</u>					
a. HSCC			6500000		6500000
b. NDMC			5979000		5979000
c. IGL			1334680		1334680
d. TRIGEN			1170000		1170000
TOTAL (A)			337497727		218562329

ACCOUNTS OFFICER

All India Institute of Medical Sciences, New Delhi
Jai Prakash Narayan Apex Trauma Centre
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018

	2017-18	2016-17	(Amount in Rupees)
SCHEDULE 11 - CURRENT ASSETS, LOANS, ADVANCES ETC. (Contd.)			
B			
LOANS, ADVANCES AND OTHER ASSETS			
1. Loans:			
a) Staff			
i) Motor car			
Opening Balance	0		
Less : Recovered during the year	0		0
ii) House Building Advance			
Opening Balance	0		
Less : Recovered during the year	0		0
iii) Computer Advance			
Opening Balance	0		
Less : Recovered during the year	0		
Add: Addition during the year	0		0
iv) Festival Advance			
Opening Balance	159150		174000
Less : Recovered during the year	159150		248850
Add: Addition during the year	0		234000
159150			159150
2. Advances and other amounts recoverable in cash or in kind or for value to be received:			
a) On Capital Account			
b) Prepayments			
c) Others			
3. Income Accrued:			
a) On Investments from Earmarked / Endowment Funds			
b) On Investments - Others			
c) On Loans and Advances			
d) Others			
(includes income due unrealised - Rs.....)			
4. Claims Receivable:			
TOTAL (B)			
	0		159150
TOTAL (A + B)			
	337497727		218721479

ACCOUNTS OFFICER

All India Institute of Medical Sciences, New Delhi
Jai Prakash Narayan Apex Trauma Centre
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018

		(Amount in Rupees)	
SCHECULE 12 - INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS		2017-18	2016-17
1) Income from Sales			
1. Hospital receipts		10005887	10909216
2. Administrative charges (Projects)		0	0
3. Sale of Scraps			
2) Income from Services			
a) Labour and Processing Charges			
b) Professional / Consultancy Services			
c) Agency Commission and Brokerage			
d) Maintenance Services (Equipment/Property)			
e) Others (Specify) Hospital Receipt			
TOTAL		10005887	10909216
SCHECULE 13 - GRANTS / SUBSIDIES		2017-18	2016-17
1) Income from Sales			
<u>(Irrevocable Grants & Subsidies Received)</u>			
1. Central Government (Through AIIMS Main)		1656221458	1404453914
2. State Government(s)			
3. Government Agencies			
4. Institutions/ Welfare Bodies			
5. International Organisations			
6. Others (Specify)			
TOTAL		1656221458	1404453914

ACCOUNTS OFFICER

All India Institute of Medical Sciences, New Delhi
Jai Prakash Narayan Apex Trauma Centre
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2018

SCHEDULE 14 - FEES/SUBSCRIPTIONS	(Amount in Rupees)	
	2017-18	2016-17
1. Tuition & Examination Fee		
2. Licence Fee		
3. Seminar/Program Fees	0	0
4. Consultancy Fees		
5. Others (Specify) EHS		
<u>TOTAL</u>	0	0

SCHEDULE 15 - INCOME FROM INVESTMENTS (Income on Invest. From Earmarked/Endowment Funds transferred to Funds)	Investment from Earmarked Fund		Investment-Others	
	2017-18	2016-17	2017-18	2016-17
1. Interest				
a) On Govt. Securities				
a) Other Bonds/Debentures				
2. Dividends:				
a) On Shares				
a) On Mutual Fund Securities				
3. Rents				
4. Others (Specify)				
<u>TOTAL</u>				
TRANSFERRED TO EARMARKED/EDNOWNMENT FUNDS	0	0	0	0

ACCOUNTS OFFICER

All India Institute of Medical Sciences, New Delhi
Jai Prakash Narayan Apex Trauma Centre
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2018
(Amount in Rupees)

SCHEDULE 16 - INCOME FROM ROYALTY, PUBLICATION ETC.	2017-18	2016-17
1. Income from Royalty		
2. Income from Publications		
3. Others (specify)	0	
TOTAL		0

SCHEDULE 17 - INTEREST EARNED	2017-18	2016-17
1. On Term Deposits:		
a) With Scheduled Banks		
b) With Non-Scheduled Banks	9845810	15562341
c) With Institutions		
d) Others		
2. On Savings Accounts:		
a) With Scheduled Banks		
b) With Non-Scheduled Banks		
c) Post Office Savings Accounts		
d) Others		
3. On Loans:		
a) Employees/Staff	0	0
b) Others		
4. Interest on Debtors and other Receivables		
TOTAL	9845810	15562341

ACCOUNTS OFFICER

All India Institute of Medical Sciences, New Delhi
Jai Prakash Narayan Apex Trauma Centre
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2018

<u>SCHEDULE 18 - OTHERS INCOME</u>	(Amount in Rupees)	
	2017-18	2016-17
1. Misc. Receipt	0	0
2. Estb. Receipt (Scheme)		
3. Others (specify)		
<u>TOTAL</u>	0	0

<u>SCHEDULE 19 - INCREASE/(DECREASE) IN STOCK OF FINISHED GOODS & WORK IN PROGRESS</u>	2017-18	2016-17
a) Closing stock		
- Finished Goods		
- Work-in-progress		
b) Less: Opening Stock		
- Finished Goods		
- Work-in-progress		
<u>NET INCREASE/(DECREASE) [a+b]</u>	0	0

<u>SCHEDULE 20 - ESTABLISHMENT EXPENSES</u>	Current Year	Previous Year
Salaries and Wages	973583321	826894054
Allowances and Bonus		
Travelling Allowances	2638137	2593929
Contribution to NPS	0	0
Contribution to Other Fund (Scheme Cell)		
Staff Welfare Expenses		
Expenses on Employees "Retirement and Terminal Benefits"		
Others (NPS & LSPC)		
<u>TOTAL</u>	976221458	829487983

ACCOUNTS OFFICER

All India Institute of Medical Sciences, New Delhi
Jai Prakash Narayan Apex Trauma Centre
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2018
(Amount in Rupees)

SCHEDULE 21 - OTHER ADMINISTRATIVE EXPENSES ETC.	2017-18	2016-17
a) Purchases (Material and Supply)	383285939	329229824
b) Material received against advance paid during last years	0	0
c) Office Expenses	0	0
d) Securities	53231411	32053822
e) Other Outsourcing Agency	97868920	57442514
f) Administrative Charges (Projects)	0	0
g) Engg. Maintenances	129284145	113900493
h) Bank charges	6430	115
i) Rent, Rates and Taxes		
j) Vehicles, Running and Maintenance		
k) Postage, Telephone and Communication Charges		
l) Printing and Stationary		
m) Travelling and Conveyance Expenses		
n) Expenses on Seminar/Workshops		
o) Subscription Expenses		
p) Expenses on Sanitation	0	0
q) Maintaince of Buildings (Minor Work RG)	14482030	15044993
r) Maintaince of M&E (CAMC/AMC)	0	0
s) Maintaince of Building (Non-plan)	0	0
t) Provision for Bad and Doubtful Debts/Advances		
u) Irrecoverable Balances Written-off		
v) Swap Charges (IDBI Debit/Credit Card Commission)	0	0
w) Freight and Forwarding Expenses		
x) Distribution Expenses		
y) Insurance		
z) Advertisement and Publicity		
aa) Others (specify)(Contingency charge)	21061055	27687610
TOTAL	699219930	575359371

ACCOUNTS OFFICER

All India Institute of Medical Sciences, New Delhi
Jai Prakash Narayan Apex Trauma Centre
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2018

(Amount in Rupees)

SCHEDULE 22- EXPENDITURE ON GRANTS, SUBSIDIES ETC.	2017-18	2016-17
a) Grants given to Institutions/Organizations		
b) Subsidies given to Institutions/organisations		
Total	0	0

SCHEDULE 23- INTEREST	2017-18	2016-17
a) On fixed Loans		
b) On other Loans (includidng Bank charges)		
c) Ohters(Specify)		
Total	0	0

ACCOUNTS OFFICER

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)Name of Entity **CENTRE FOR DENTAL EDUCATION & RESEARCH****BALANCE SHEET AS AT 31-03-2018****(Amount-Rs.)**

<u>CORPUS/CAPITAL FUND AND LIABILITIES</u>	Schedule	Current Year	Pervious Year
CORPUS/CAPITAL FUND	1	61,00,62,779	58,24,39,092
RESERVES AND SURPLUS	2	2,34,23,070	2,22,25,853
EARMARKED/ ENDOWMENT FUNDS	3	5,38,68,326	35,43,996
SECURED LOANS AND BORROWINGS	4	-	-
UNSECURED LOANS AND BORROWINGS	5	-	-
DEFERRED CREDIT LIABILITIES	6	-	-
CURRENT LIABILITIES AND PROVISIONS	7	1,20,23,656	1,33,33,656
TOTAL		69,93,77,831	62,15,42,597
<u>ASSETS</u>			
FIXED ASSETS	8	60,25,73,055	57,14,64,075
INVESTMENTS-FROM EARMARKED/ENDOWMENT FUNDS	9	-	-
INVESTMENTS-OTHERS	10	-	-
CURRENT ASSETS, LOANS , ADVANCES ETC.	11	9,68,04,776	5,00,78,522
MISCELLANEOUS EXPENDITURE (to the extent not written off or adjusted)			
TOTAL		69,93,77,831	62,15,42,597
SIGIFICANT ACCOUNTING POLICIES	24	-	-
CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS	25		

(Accounts Officer)
CDER

Chief, CDER

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)

Name of Entity **CENTRE FOR DENTAL EDUCATION & RESEARCH**

INCOME AND EXPENDITURE ACCOUNT FOR THE PERIOD/YEAR ENDED 31- 03-2018

	Schedule	Current Year	Previous Year
<u>INCOME</u>			
Hospital Receipts	12	2310620	22,09,290
Grants/Subsidies	13	153497549	12,55,00,000
Fees/Subscriptions	14	0	-
Income from Investments (Income on Invest. From earmeked/endow.Funds transferred to funds)	15	0	-
Income for Royalty, Publication etc.	16	0	-
Interest Earned	17	1072525	14,68,647
Other Income	18	76288	5,01,468
Increase/(decrease) in stock of Finished goods and works-in-progress	19	0	-
TOTAL (A)		156956982	12,96,79,405
<u>EXPENDITURE</u>			
Establishment Expenses	20	50997549	40454671
Other Administrative Expenses etc.	21	104759531	8,90,61,735
Expenditure on Grants, Subsidies etc.	22	0	-
Interest	23	2685	2672
Depreciation (Net Total at the year-end - corresponding to Schedule 8)			
TOTAL (B)		155759765	12,95,19,078
Balance being excess of Income over Expenditure (A-B)			1,60,327
Transfer to Special Reserve (Specify each)		1197217	
Transfer to /from General Reserve			
BALANCE BEING SURPLUS/(DEFICIT) CARRIED TO CORPUS/ CAPITAL FUND			
SIGNIFICANT ACCOUNTING POLICIES	24		
CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS	25		

Chief, CDER

(Accounts Officer) CDER

**CENTRE FOR DENTAL EDUCATION & RESEARCH
ALL INDIA INSTITUTE OF MEDICAL SCIENCES, NEW DELHI
RECEIPTS AND PAYMENTS FOR THE PERIOD/YEAR ENDED 31.03.2018**

RECEIPTS	2017-18	2016-17	PAYMENTS	2017-18	2016-17
I. Opening Balance			I. Expenses		
a) Cash in Hand	5000	5000	a) Establishment Expenses (Schedule 20)	50997549	40454671
b) Bank Balances			b) Administrative Expenses (Schedule 21A)	104759531	89061735
i) In current accounts	36489313	36741383			
ii) In deposit accounts					
iii) saving accounts					
			II. Payment made against funds for various projects		
			Project NOHP	381436	4753312
			Swachhta Action Plan (SAP)	2053027	
II. Grants Received			Project SUGAR	5769	0
a) From Government of India (Through AIIMS Main)			Project PIT & FISSURE	151103	0
PLAN			Project Web & Mobile App	3550000	0
i) Revenue (Grant in Aid General)	102500000	85000000	Project MoHFW	99720	0
ii) Capital	27623687	30000000			
			III. Investments and deposits made		
NON PLAN			a) out of Earmarked/Endow. Funds		
i) Revenue (Grant in Aid Salary)	50997549	40500000	b) out of Own Funds(Oth. Investment)		
ii) Capital					
Over Sight Committee			IV. Expenditure on Fixed Assets & Capital Work-in-Progress		
i) Revenue			a) Purchase of Fixed Assets	23358742	21273630
ii) Capital			b) Expenditure on Capital Work-in-Progress		
NDDTC			c) Letter of Credit	3902002	7750238
i) Revenue			Contingency Advance	25000	0
ii) Capital					

b) From State Government									
c) From other sources									
Grants received for specific purpose									
Project NOHP	1400000	595611							
Swachhta Action Plan (SAP)	50000000								
Project SUGAR	42693							2685	2672
Project PIT & FISSURE	252000								
Project Web & Mobile App	4391972								
Project MoHWF	99720							2227000	1171890
Grants received for patient treatment								823580	0
Grants received for poor patient treatment								0	1847482
III. Income on Investments from									
a) Earmarked/Endow. Funds								16344061	11016856
Project NOHP								727469	561346
b) Own Funds(Oth. Investment)									
IV. Interest Received									
a) On Bank deposits	1072525	1468647						5000	5000
b) Loans, Advances etc.									
V. Other Income									
Hospital Receipt	2310620	2209290							
Miscellaneous Receipt (Tender fee etc.)	76288	501468							
VI. Amount Borrowed									
VII. Any other receipts									
Employee Recovery	16344061	11016856							
Outside Recovery	727469	561346							
Engg. Recovery		3347544							
EMD	917000	2441000							
Patient Treatment fund	1202580								
TOTAL	296452477	214388145						296452477	214388145

Chief, CDER

Accounts Officer (CDER)

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
Name of Entity CENTRE FOR DENTAL EDUCATION & RESEARCH
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018

	(Amount-Rs.)	
	Current Year	Previous Year
<u>SCHEDULE 1- CORPUS/CAPITLA FUND:</u>		
Balances as at the beginning of the year	582,439,092	
Add : Contributions towards Corpus/Capital Fund	27,623,687	582,439,092
Less : Fixed Assets Condemned during the year		
BALANCE AS AT THE YEAR-END	610,062,779	582,439,092

	Current Year		Pervious Year	
<u>SCHEDULE 2- RESERVES AND SURPLUS:</u>				
1. <u>Capital Reserve:</u>				
As per last Account				
Addition during the year				
Less: Deductions during the year				
2. <u>Revaluation Reserve</u>				
As per last Account				
Addition during the year				
Less: Deductions during the year				
3. <u>Special Reserves</u>				
As per last Account				
Addition during the year				
Less: Deductions during the year				
4. <u>General Reserve</u>				
As per last Account	22225853			
Addition during the year	1197217			
Less: Deductions during the year		23,423,070		22225853
<u>TOTAL</u>		23,423,070		22225853

(Accounts Officer)
CDER

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
Name of Entity CENTRE FOR DENTAL EDUCATION & RESEARCH
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018

	(Amount-Rs.)										
	FUND-WISE BREAK UP					MoHFW Fund	Web & Mobile App Project	Patient Treatment	Current Year	Previous Year	TOTALS
	NOHP	SAP Fund	Sugar Fund	Pit & Fissure	MoHFW Fund						
a) Opening balance of the funds	35,43,996								35,43,996	7701697	
b) Additions to the Funds:											
i. Donations/grants	14,00,000	5,00,00,000	42,693	2,52,000	99,720	43,91,972		12,02,580	5,73,88,965	595611	
ii. Income from investments made on account of funds											
iii. Other additions (specify nature)											
TOTAL (a+b)	49,43,996	5,00,00,000	42,693	2,52,000	99,720	43,91,972		12,02,580	6,09,32,961	8297308	
c) Utilisation/Expenditure towards objectives of funds											
i. <u>Capital Expenditure</u>											
- Fixed Assets											
- Others											
ii. <u>Revenue Expenditure</u>											
- Salaries, Wages and allowances etc.											
- Rent											
- Other Administrative expenses	3,81,436	20,53,027	5,769	1,51,103	99,720	35,50,000		8,23,580	70,64,635	4753312	
Total	3,81,436	20,53,027	5,769	1,51,103	99,720	35,50,000		8,23,580	70,64,635	47,53,312	
TOTAL (c)	45,62,560	4,79,46,973	36,924	1,00,897	-	8,41,972		3,79,000	5,38,68,326	35,43,996	
NET BALANCE AS AT THE YEAR-END (a+b-c)											

Notes

- Disclosures shall be made under relevant heads based on conditions attaching to the grants.
- Plan Funds received from the Central/State Governments are to be shown as separate Funds and not to be mixed up with any other Funds.

(Accounts Officer)
CDER

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
Name of Entity CENTRE FOR DENTAL EDUCATION & RESEARCH
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018

	(Amount-Rs.)	
	Current Year	Previous Year
SCHEDULE 4-SECURED LOANS AND BORROWINGS:		
1. Central Government		
2. State Government		
3. Financial Institutions		
a) Term Loans		
b) Interest accrued and due		
4. Banks:		
a) Term Loans		
- Interest accrued and due		
b) Other Loans (specify)		
- Interest accrued and due		
5. Other Institutions and Agencies		
6. Debentures and Bonds		
7. Others (Specify)		
TOTAL	0	0
<u>Note</u> : Amounts due within one year		

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)

Name of Entity **CENTRE FOR DENTAL EDUCATION & RESEARCH**
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018

(Amount-Rs.)

SCHEDULE 5 - UNSECURED LOANS AND BORROWING	Current Year	Previous Year
1. Central Government		
2. State Government		
3. Financial Institutions		
4. Banks:		
a) Term Loans		
b) Other Loans (specify)		
5. Other Institutions and Agencies		
6. Debentures and Bonds		
7. Fixed Deposits		
8. Others (Specify)		
TOTAL	0	0
Note: Amounts due within one year		

SCHEDULE 6 - DEFERRED CREDIT LIABILITIES:	Current Year	Previous Year
a) Acceptances secured by hypothecation of capital equipment and other assets		
b) Others		
TOTAL	0	0
Note: Amount due within one year		

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)

Name of Entity **CENTRE FOR DENTAL EDUCATION & RESEARCH**
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018

(Amount -Rs.)

SCHEDULE 7 - CURRENT LIABILITIES AND PROVISIONS	Current Year		Previous Year	
A. CURRENT LIABILITIES AND PROVISIONS				
1. Acceptances				
2. Sundry Creditors:				
a) For Goods				
a) Others				
3. Advances Received				
4. Interest accrued but not due on:				
a) Secured Loans/borrowings				
a) Unsecured Loans/borrowings				
5. Statutory Liabilities:				
a) Overdue				
a) Others				
6. Other current Liabilities (Amount to be reimbursed to AIIMS Main)	33,47,544			
Less: Paid during the year	-			
Addition : Created during the year		33,47,544		33,47,544
7. Security Deposits (Opening Balance)	9986112			
Add: Received during the year	917000			
Less: Refunded during the year	2227000	86,76,112		99,86,112
TOTAL (A)		1,20,23,656		1,33,33,656
B. PROVISIONS				
1. For Taxation				
2. Gratuity				
3. Superannuation/Pension				
6. Accumulated Leave Encashment				
6. Trade Warranties/Claims				
6. Others (specify)				
TOTAL (B)		-		0
TOTAL (A+B)		1,20,23,656		1,33,33,656

(Accounts Officer)
CDER

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
Name of Entity CENTRE FOR DENTAL EDUCATION & RESEARCH
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018

(Amount - Rs.)

SCHEDULE & FIXED ASSETS DISCUSSION	GROSS BLOCK			DEPRECIATION			NET BLOCK		
	Cost/valuation As at beginning of the year	Additions during the year	Deductions during the year	Cost/ Valuation at the year end	As at the beginning of the year	On additions during the year	On Deductions during the year	As at the Current year end	As at the Previous year-end
A. FIXED ASSETS:									
1 LAND:									
a) Freehold									
b) Leasehold									
2 BUILDINGS:									
a) On Freehold Land	30,87,62,005	-		30,87,62,005				30,87,62,005	30,87,62,005
b) On Leasehold Land									
c) Ownership Flats/ Premises									
d) Superstructures on Land not belonging to the entity									
PLANT MACHINERY & EQUIPMENT									
3 EQUIPMENT	26,27,02,070	3,11,08,980		29,38,11,050				29,38,11,050	26,27,02,070
4 VEHICLES									
5 FURNITURE, FIXTURES									
6 OFFICE EQUIPMENT									
7 COMPUTER/PERIPHERALS									
8 ELECTRIC INSTALLATIONS									
9 LIBRARY BOOKS									
10 TUBEWELLS & W. SUPPLY									
11 OTHER FIXED ASSETS									
TOTAL OF CURRENT YEAR	57,14,64,075	3,11,08,980	-	60,25,73,055	-	-	-	60,25,73,055	57,14,64,075
PREVIOUS YEAR									
B. CAPITAL WORK-IN-									
TOTAL	57,14,64,075	3,11,08,980		60,25,73,055				60,25,73,055	57,14,64,075

(Note to be given as to cost of assets on hire purchase basis included above)

(Accounts Officer)
CDER

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)

Name of Entity **CENTRE FOR DENTAL EDUCATION & RESEARCH**
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018

(Amount - Rs.)

<u>SCHECULE 9 - INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS</u>	<u>Current Year</u>	<u>Previous Year</u>
1. In Government Securities		
2. Other approved Securities		
3. Shares		
4. Debenutres and Bonds		
5. Subsidiaries and Joint Venutres		
6. Others (to be specified)		0
<u>TOTAL</u>	0	0

<u>SCHECULE 10 - INVESTMENTS - OTHERS</u>	<u>Current Year</u>	<u>Previous Year</u>
1. In Government Securities		
2. Other approved Securities		
3. Shares		
4. Debenutres and Bonds		
5. Subsidiaries and Joint Venutres		
6. Others (to be specified)		
<u>TOTAL</u>	0	0

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
Name of Entity CENTRE FOR DENTAL EDUCATION & RESEARCH
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018

		(Amount - Rs.)	
		Current Year	Previous Year
SCHEDULE II - CURRENT ASSETS, LOANS, ADVANCES ETC.			
A	CURRENT ASSETS:		
	1. <u>Inventories:</u>		
	a) Stores and Spares		
	b) Loose Tools		
	c) Stock-in-trade		
	Finished Goods		
	Work-in-progress		
	Raw Material		
	2. <u>Sundry Debtors:</u>		
	a) Debts Outstanding for a period exceeding six months		
	b) Others		
	3. <u>Cash balances in hand (including cheques/ drafts and imprest)</u>	5,000.00	5,000.00
	4. <u>Bank Balances:</u>		
	a) <u>With Scheduled Banks:</u>		
	On Current Accounts		
	On Deposit Accounts (includes margin money)		
	On Savings Accounts	87038803	36489313
	b) <u>With non-Scheduled Banks:</u>		
	On Current Accounts		
	On Deposit Accounts		
	On Savings Accounts		
	5. <u>Post Office - Savings Accounts</u>		
	TOTAL (A)	87043803	36494313

(Accounts Officer)
CDER

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
ALL INDIA INSTITUTE OF MEDICAL SCIENCES
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018

	(Amount - Rs.)	
	Current Year	Previous Year
SCHEDULE II - CURRENT ASSETS, LOANS, ADVANCES ETC. (Contd.)		
B		
<u>LOANS, ADVANCES AND OTHER ASSETS</u>		
1. <u>Loans:</u>		
a) Staff		
b) Other Entities engaged in activities/objectives similar to that of Entity		
c) Other (specify) Advance to Iron & steel and Hindustan steel		
2. <u>Advances and other amounts recoverable in cash or in kind or for value to be received:</u>		
a) On Capital Account		
b) Prepayments		
c) Others		
3. <u>Income Accrued:</u>		
a) On Investments from Earmarked / Endowment Funds		
b) On Investments - Others		
c) On Loans and Advances		
d) Others (includes income due unrealised - Rs.....)		
4. <u>Claims Receivable:</u>		
5. <u>Other Advance</u>		
i. Advance Paid to NDMC	2364500	2364500
ii. Security Deposit to NDMC	3000000	3000000
iii. Advance paid to DGS&D	469471	469471
iv. Letter of Credit		
v. Contingency Advance	7750238	7750238
	Add: 3902002	
	Less: 7750238	
	25000	
TOTAL (B)	9760973	13584209
TOTAL (A + B)	96804776	50078522

(Accounts Officer)
CDER

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
Name of Entity CENTRE FOR DENTAL EDUCATION & RESEARCH
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018

(Amount - Rs.)

<u>SCHEDULE 12 - INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS</u>	<u>Current Year</u>	<u>Previous Year</u>
<u>1) Income from Sales</u>		
1. Sale of Finished Goods		
2. Sale of Raw Material		
3. Sale of Scraps		
<u>2) Income from Services</u>		
a) Labour and Processing Charges		
b) Professional / Consultancy Services		
c) Agency Commission and Brokerage		
d) Maintenance Services (Equipment/Property)		
e) Others (Specify) Hospital Receipt	2310620	2209290
<u>TOTAL</u>	2310620	2209290
<u>SCHEDULE 13 - GRANTS /SUBSIDIES</u>	<u>Current Year</u>	<u>Previous Year</u>
<u>1) Income from Sales</u>		
<u>(Irrevocable Grants & Subsidies Received)</u>		
1. Central Government		
2. State Government(s)		
3. Government Agencies		
Grant in Aid (Salary)	50997549	40500000
Grant in Aid (General)	102500000	85000000
4. Institutions/ Welfare Bodies		
5. International Organisations		
6. Others (Specify)		
<u>TOTAL</u>	153497549	125500000

(Accounts Officer)
CDER

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
Name of Entity CENTRE FOR DENTAL EDUCATION & RESEARCH

SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE PERIOD/YEAR ENDED 31-03-2018

(Amount-Rs.)

	SCHEDULE 14 - FEES/SUBSCRIPTIONS	
	Current Year	Previous Year
1. Tuition & Examination Fee		
2. Licence Fee		
3. Seminar/Program Fees		
4. Consultancy Fees		
5. Others (Specify) EHS		
TOTAL	0	0
Note- Accounting Policies towards each item are to be disclosed		

	SCHEDULE 15 - INCOME FROM INVESTMENTS		Investment from Earmarked Fund		Investment-Others	
	Current Year	Previous Year	Current Year	Previous Year	Current Year	Previous Year
(Income on Invest. From Earmarked/Endowment Funds transferred to Funds)						
1. Interest						
a) On Govt. Securities						
a) Other Bonds/Debentures						
2. Dividends:						
a) On Shares						
a) On Mutual Fund Securities						
3. Rents						
4. Others (Specify)						
TOTAL						
TRANSFERRED TO EARMARKED/EDNOWNMENT FUNDS						

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
Name of Entity CENTRE FOR DENTAL EDUCATION & RESEARCH
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE PERIOD/YEAR ENDED 31-03-2018

	(Amount-Rs.)	
	Current Year	Previous Year
1. Income from Royalty		
2. Income from Publications		
3. Others (specify)	0	0
TOTAL		0

	(Amount-Rs.)	
	Current Year	Previous Year
SCHEDULE 16 - INCOME FROM ROYALTY, PUBLICATION ETC.		
1. Income from Royalty		
2. Income from Publications		
3. Others (specify)	0	0
TOTAL		0
SCHEDULE 17 - INTEREST EARNED		
1. On Term Deposits:		
a) With Scheduled Banks		1468647
b) With Non-Scheduled Banks	1072525	
c) With Institutions		
d) Others		
2. On Savings Accounts:		
a) With Scheduled Banks		
b) With Non-Scheduled Banks		
c) Post Office Savings Accounts		
d) Others		
3. On Loans:		
a) Employees/Staff		
b) Others		
4. Interest on Debtors and other Receivables		
TOTAL	1072525	1468647
Note - Tax deducted at source to be indicated		

(Accounts Officer)
CDER

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
Name of Entity CENTRE FOR DENTAL EDUCATION & RESEARCH

SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE PERIOD/YEAR ENDED 31-03-2018

	(Amount-Rs.)	
	Current Year	Previous Year
SCHEDULE 18 - OTHERS INCOME		
1. Misc. Receipt		
2. Estb. Receipt (Scheme)	76288	501468
3. Others (specify)		
TOTAL	76288	501468

	Current Year	Previous Year
	SCHEDULE 19 - INCREASE/(DECREASE) IN STOCK OF FINISHED GOODS & WORK IN PROGRESS	
a) Closing stock		
- Finished Goods		
- Work-in-progress		
b) Less: Opening Stock		
- Finished Goods		
- Work-in-progress		
NET INCREASE/(DECREASE) [a+b]	0	0

	Current Year	Previous Year
	SCHEDULE 20 - ESTABLISHMENT EXPENSES	
Salaries and Wages		
Allowances and Bonus	50997549	40454671
Contribution to Provident Fund		
Contribution to Other Fund (Scheme Cell)		
Staff Welfare Expenses		
Expenses on Employees "Retirement and Terminal Benefits"		
Others (NPS & LSPC)		
TOTAL	50997549	40454671

(Accounts Officer) CDER

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
Name of Entity CENTRE FOR DENTAL EDUCATION & RESEARCH
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE PERIOD/YEAR ENDED 31-03-2018

(Amount-Rs.)

SCHEDULE 21 - OTHER ADMINISTRATIVE EXPENSES ETC.	Current Year	Previous Year
a) Purchases of Material & Supply	18450727	25333726
b) Labour and processing expenses		
c) Cartage and Carriage Inwards		
d) Electricity and power		
e) Water charges		
f) Insurance		
g) Out sourced manpower services		
i) Security services	14056742	7122641
ii) Sanitation services	12933499	7497616
iii) Other Services	15079667	8734488
g) Repairs and maintenance	43515059	38451904
h) Excise Duty		
i) Rent, Rates and Taxes		
j) Vehicles, Running and Maintenance		
k) Postage, Telephone and Communication Charges		
l) Printing and Stationary		
m) Travelling and Conveyance Expenses		
n) Expenses on Seminar/Workshops		
o) Subscription Expenses		
p) Expenses on Fees		
r) Hospitality Expenses		
s) Professional Charges		
t) Provision for Bad and Doubtful Debts/Advances		
u) Irrecoverable Balances Written-off		
v) Packing Charges		
w) Freight and Forwarding Expenses		
x) Distribution Expenses		
y) Advertisement and Publicity		
z) Others (specify)(Contingency charge)	723837	1921360
TOTAL	104759531	89061735

(Accounts Officer)
CDER

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
Name of Entity CENTRE FOR DENTAL EDUCATION & RESEARCH
SCHEDULES FORMING PART OF RECEIPT & PAYMENT FOR THE PERIOD/YEAR ENDED 31-03-2018

(Amount-Rs.)

<u>SCHEDULE 21 A- OTHER ADMINISTRATIVE EXPENSES ETC.</u>	Current Year	Previous Year
a) Purchases of Material & Supply	60520635	48688471
b) Labour and processing expenses		
c) Cartage and Carriage Inwards		
d) Electricity and power		
e) Water charges		
f) Insurance		
g) Repairs and maintenance	43515059	38451904
h) Excise Duty		
i) Rent, Rates and Taxes		
j) Vehicles, Running and Maintenance		
k) Postage, Telephone and Communication Charges		
l) Printing and Stationary		
m) Travelling and Conveyance Expenses		
n) Expenses on Seminar/Workshops		
o) Subscription Expenses		
p) Expenses on Fees		
q) bAuditors Remuneration		
r) Hospitality Expenses		
s) Professional Charges		
t) Provision for Bad and Doubtful Debts/Advances		
u) Irrecoverable Balances Written-off		
v) Packing Charges		
w) Freight and Forwarding Expenses		
x) Distribution Expenses		
y) Advertisement and Publicity		
z) Others (specify)(Contingency charge)	723837	1921360
<u>TOTAL</u>	104759531	89061735

(Accounts Officer)
CDER

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
Name of Entity CENTRE FOR DENTAL EDUCATION & RESEARCH
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE PERIOD/YEAR ENDED 31-03-2018

(Amount-Rs.)		
<u>SCHEDULE 22- EXPENDITURE ON GRANTS, SUBSIDIES ETC.</u>	Current Year	Previous Year
a) Grants given to Institutions/Organizations		
b) Subsidies given to Institutions/organisations		
<u>Total</u>	0	0
<u>Note</u> - name of the Entities, their activities along with the amount of grants/subsidies are to be disclosed.		

SCHEDULE 23- INTEREST	Current Year	Previous Year
a) On fixed Loans		
b) On other Loans (including Bank charges)	2685	2672
c) Others (Specify)		
<u>Total</u>	2685	2672

(Accounts Officer)
CDER

National Drug Dependence Treatment Centre
RECEIPT AND PAYMENTS FOR THE YEAR ENDED 31-03-2018

Receipts	2017-18	2016-17	Payments	2017-18	2016-17
1. Opening Balances			1. Expenses		
(a) Cash in Hand			(a) Establishment Expenses (Schedule 20)	131269356	99028920
(b) Bank Balances			(b) Administrative Expenses (Schedule 21A)	88033355	51291073
(i) In current accounts	22037668	21741356			
(ii) In deposit accounts			2. Advance payment		
(iii) In saving accounts			i) Material and Supply	170673	233641
			ii) Temp adv for training programme	19257228	5178519
2. Grant Received			3. Investments and deposits made		
(a) From Government of India (Ministry of H&FW)			(a) Out of Earmarked/Endowment Funds		
Grant in Aid (Capital Assets)	25000000		(b) Out of Own funds (Investments-others)		
Grant in Aid (Plan)	64000000	50000000			
Grant in Aid Salaries	130000000	84000000	4. Expenditure on Fixed Assets & Capital Work-in-Progress		
(b) From state Government			(a) Purchase of Fixed Assets	23430545	17328704
(c) From other sources(SAP)	50000000		(b) Expenditure on capital work-in-progress	0	0
3. Income on Investment from			5. Refund of surplus money/loans		
(a) Earmarked/Endow. Funds	0	0	(a) To the Government of India		
(b) Own funds (Oth. Investments)	0	0	(b) To the State Government		
			(c) To other provides of funds (AIIMS)	9000000	
4. Interest received			(d) Refund to UNDCP	632	
(a) On bank deposits	0	0	6. Finance Charges (Interest)		
(b) Loans, Advances etc.	0	0			
			7. Other Payments (Specify)		
5. Income from Hospital Services			Outside Recoveries (GPF, NPS, HBA, Income Tax, License Fee etc.)		
Hospital Receipts	622365	293112	(a) Projects	0	0
5. Other Income			(b) Refund of Earnest Money Deposit	0	0
Misc. Receipts	69295	15002	(c) Employees Recovery payment		
			i) Recoveries from employees remitted to AIIMS (Main)	750601	557258
6. Amount Borrowed					
Loan from AIIMS (Main)	40000000	39000000	ii) Outside Recoveries	20385558	14731423
Loan from UNDCP	0	1800000	iii) GPF (Subscription and Advances)	10120240	9481710
			iv) NPS Recovery	4731165	3224962
7. Any other receipts			v) NPS Recovery (without PRAN)		
(a) Projects			Previous year Recovery	49055	
(b) Earnest Money Deposits			Loan, Advances and Other Assets		

**National Drug Dependence Treatment Centre
RECEIPT AND PAYMENTS FOR THE YEAR ENDED 31-03-2018**

Receipts	2017-18	2016-17	Payments	2017-18	2016-17
(c) Employees Recovery			Advance payment for purchase of Material and Supply		
(j) Recoveries from employees	750601	595780	Computer Advance		
(ii) Outside Recoveries	20172527	14741956	Festival Advance		
(iii) GPF (Subscription and Advances)	10120240	9481710	Recovery/Deductions (Engg Works)		
(iv) NPS Recovery	4731165	3224962	Recovery/Deductions (other than Engg Works)	560952	247127
(v) NPS Recovery (without PRAN)			Repayment of loan (UNDCP)	0	1800000
			8. Closing Balances		
Loan, Advances and Other Assets/Recovery			(a) Cash in hand		
Car Advance Recovery	0	0	(b) Bank Balances		
Computer Advance Recovery	0	0	(i) In current accounts	60305453	22037668
House Building Advance Recovery	0	0	(ii) In deposit accounts		
Festival Advance Recovery	0	0	(iii) In saving accounts		
Recovery/Deductions (Engg Works)	0	0			
Recovery/Deductions (other than Engg Works)	560952	247127			
Total	368064813	225141005	Total	368064813	225141005

**NATIONAL DURG DEPENDENCE TREATMENT CENTRE
BALANCE SHEET AS AT 31-03-2018**

		(Amount in Rupees)	
	Schedule	2017-18	2016-17
<u>CORPUS/CAPITAL FUND AND LIABILITIES</u>			
CORPUS/CAPITAL FUND	1	251672470	226672470
RESERVES AND SURPLUS	2	19880519	6005383
EARMARKED/ ENDOWMENT FUNDS	3	0	0
SECURED LOANS AND BORROWINGS	4	0	0
UNSECURED LOANS AND BORROWINGS	5	0	0
DEFERRED CREDIT LIABILITIES	6	0	0
CURRENT LIABILITIES AND PROVISIONS	7	70448215	39497902
TOTAL		342001204	272175755
<u>ASSETS</u>			
FIXED ASSETS	8	257368635	233938090
INVESTMENTS-FROM EARMARKED/ENDOWMENT FUNDS	9	0	0
INVESTMENTS-OTHERS	10	0	0
CURRENT ASSETS, LOANS , ADVANCES ETC.	11	84632569	38237665
MISCELLANEOUS EXPENDITURE (to the extent not written off or adjusted)			
TOTAL		342001204	272175755

National Drug Dependence Treatment Centre
INCOME AND EXPENDITURE ACCOUNT FOR THE PERIOD/YEAR ENDED 31-03-2018

INCOME	Schedule	2017-18	2016-17
Income from Sales/Services (Hospital Receipts)	12	622365	293112
Grants/Subsidies	13	24400000	13400000
Fees/Subscriptions	14		
Income from Investments (Income on Invest. From earmeked/endow.Funds transferred to funds)	15		
Income for Royalty, Publication etc.	16		
Interest Earned	17	0	0
Other Income	18	69295	15002
Increase/(decrease) in stock of Finished goods and works-in-progress	19		
TOTAL (A)		244691660	134308114
EXPENDITURE			
Establishment Expenses	20	131269356	99028920
Other Administrative Expenses etc.	21	99547168	51490026
Expenditure on Grants, Subsidies etc.	22		
Interest	23		
Depreciation (Net Total at the year-end - corresponding to Schedule 8)			
TOTAL (B)		230816524	150518946
Balance being excess of Expenditure over income (B-A)			
Transfer to Special Reserve (Specify each)		13875136	-16210832
Transfer to /from General Reserve			
BALANCE BEING SURPLUS/(DEFICIT) CARRIED TO CORPUS/ CAPITAL FUND		244691660	134308114

National Drug Dependence Treatment Centre
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018

	(Amount-Rs.)	
	2017-18	2016-17
SCHEDULE 1- CORPUS/CAPITLA FUND:		
Balances as at the beginning of the year	226672470	221793406
Add : Contributions towards Corpus/Capital Fund	25000000	4879064
Less : Fixed Assets Condemned during the year	251672470	226672470
BALANCE AS AT THE YEAR-END	251672470	226672470
SCHEDULE 2- RESERVES AND SURPLUS:	2017-18	2016-17
1. Capital Reserve:		
As per last Account		
Addition during the year		
Less: Deductions during the year		
2. Revaluation Reserve		
As per last Account		
Addition during the year		
Less: Deductions during the year		
3. Special Reserves		
As per last Account	6005383	
Addition during the year		
Less: Deductions during the year (AIIMS LOAN REVERSE)	13875136	19880519
4. General Reserve		
As per last Account		6005383
Adjusted during the year		
TOTAL	0	0
	19880519	6005383

National Drug Dependence Treatment Centre
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018
 (Amount-Rs.)

	Scheme Non		TOTALS	
	Scheme		2017-18	2016-17
SCHEDULE 3 - EARMARKED/ENDOWMENT FUNDS				
a) Opening balance of the funds				
b) Additions to the Funds:				
i. Donations/grants				
ii. Income from investments made on account of funds	0			
iii. Other additions (specify nature)			0	
iv. Less Expenditure during the year				
TOTAL (a+b)			0	0
c) Utilisation/Expenditure towards objectives of funds				
i. <u>Capital Expenditure</u>				
- Fixed Assets				
- Others				
ii. <u>Revenue Expenditure</u>				
- Salaries, Wages and allowances etc.				
- Rent				
- Other Administrative expenses				
Total				
TOTAL (c)			0	0
NET BALANCE AS AT THE YEAR-END (a+b-c)				0

National Drug Dependence Treatment Centre
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018

(Amount-Rs.)

SCHEDULE 4-SECURED LOANS AND BORROWINGS:	2017-18		2016-17	
1. Central Government 2. State Government 3. Financial Institutions a) Term Loans b) Interest accrued and due 4. Banks: a) Term Loans - Interest accrued and due b) Other Loans (specify) - Interest accrued and due 5. Other Institutions and Agencies 6. Debentures and Bonds 7. Others (Specify)				
<u>TOTAL</u>	0	0	0	0
<u>Note</u> : Amounts due within one year				

National Drug Dependence Treatment Centre
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018

(Amount-Rs.)

SCHEDULE 5 - UNSECURED LOANS AND BORROWING	2017-18	2016-17
1. Central Government 2. State Government 3. Financial Institutions 4. Banks: a) Term Loans b) Other Loans (specify) 5. Other Institutions and Agencies 6. Debentures and Bonds 7. Fixed Deposits 8. Others (Specify)		
<u>TOTAL</u>	0	0
<u>Note</u> : Amounts due within one year		
SCHEDULE 6 - DEFERRED CREDIT LIABILITIES:	2017-18	2016-17
a) Acceptances secured by hypothecation of capital equipment and other assets b) Others		
<u>TOTAL</u>	0	0
<u>Note</u> : Amount due within one year		

National Drug Dependence Treatment Centre
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018

(Amount -Rs.)

SCHEDULE 7 - CURRENT LIABILITIES AND PROVISIONS	2017-18		2016-17	
A. CURRENT LIABILITIES AND PROVISIONS				
1. Acceptances				
2. Sundry Creditors:				
a) For Goods				
b) Others (Outside recoveries to be paid to AIIMS (main))				
i) AIIMS Employyes (OB)			38522	
ii) Outside recoveries(OB)			10533	
Opening Balance	49055			49055
Less adjust during the year	49055	0		
3. Advances Received for patients from Govt Agencies				
i) NIAF				
4. Projects Grants				
ii) NPCB				
5. Interest accrued but not due on:				
a) Secured Loans/borrowings				
a) Unsecured Loans/borrowings				
6. Statutory Liabilities:				
a) Overdue				
a) Others				
7. Security Deposits (EMD)				
Opening Balance	335000		335000	
Received during the year	0		0	
Refund during the year	0	335000	0	335000
6. Other current Liabilities	113847			113847
Refund to UNDCP a/c	632	113215		
9. Excess grant to be refunded to Ministry (OB)	0		4879064	
Less : Adjusted during the year	0	0	4879064	0
10. Loan from AIIMS (Main) (OB)	39000000			0
Loan from AIIMS (Main)	40000000			39000000
Loan refund to AIIMS (Main)	9000000	70000000		
TOTAL (A)		70448215		39497902
B. PROVISIONS				
1. For Taxation				
2. Gratuity				
3. Superannuation/Pension				
6. Accumulated Leave Encashment				
6. Trade Warranties/Claims				
6. Others (specify)				
TOTAL (B)				
TOTAL (A+B)		70448215		39497902

National Drug Dependence Treatment Centre
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018

(Amount in Rs.)

DESCRIPTION	GROSS BLOCK			DEPRECIATION			NET BLOCK			
	Cost/ valuation as at beginning of the year	Additions during the year	Deductions during the year	Cost/ valuation at the year-end	As at the beginning of the year	On Additions during the year	On Deductions during the year	Total up to the year-end	As at the Current year-end 17-18	As at the previous year-end 16-17
A. FIXED ASSETS:										
1. LAND:										
a) Freehold										
b) Leasehold										
2. BUILDINGS:										
a) On Freehold Land (construction)	115325995	2794170		118120165					118120165	115325995
b) On Leasehold Land										
c) Ownership Flats/Premises										
d) Superstructures on Land										
Not belonging to the entity										
3. PLANT MACHINERY & EQUIPMENT	54484160	12348847		66833007					66833007	54484160
4. VEHICLES	12241608	0		12241608					12241608	12241608
5. FURNITURE, DIXTURES	9604224	2246296		11850520					11850520	9604224
6. OFFICE EQUIPMENT										
7. COMPUTER/PERIPHERALS										
8. ELECTRIC INSTALLATIONS										
9. LIBRARY BOOKS	42282103	3907672		46189775					46189775	42282103
10. TUBEWELLS & W.SUPPLY	0	2133560		2133560					2133560	
11. OTHER FIXED ASSETS (SAP)										
TOTAL OF CAURRENT YEAR	233938090	23430545	0	257368635	0	0	0	0	257368635	233938090
PREVIOUS YEAR										
B. CAPITAL WORK-IN-PROGRESS	0	0	0	0	0	0	0	0	0	0
TOTAL	233938090	23430545	0	257368635	0	0	0	0	257368635	233938090

National Drug Dependence Treatment Centre
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018

(Amount - Rs.)

<u>SCHECULE 9 - INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS</u>	<u>2017-18</u>	<u>2016-17</u>
1. In Government Securities		
2. Other approved Securities		
3. Shares		
4. Debenutres and Bonds		
5. Subsidiaries and Joint Venutres		
6. Others (to be specified)		0
<u>TOTAL</u>	0	0

<u>SCHECULE 10 - INVESTMENTS - OTHERS</u>	<u>2017-18</u>	<u>2016-17</u>
1. In Government Securities		
2. Other approved Securities		
3. Shares		
4. Debenutres and Bonds		
5. Subsidiaries and Joint Venutres		
6. Others (to be specified)		
<u>TOTAL</u>	0	0

National Drug Dependence Treatment Centre
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2018

		(Amount - Rs.)	
		2017-18	2016-17
SCHEDULE 11 - CURRENT ASSETS, LOANS, ADVANCES ETC.			
A CURRENT ASSETS:			
1. <u>Advances for Procurement</u>			
a) <u>Material and Supply</u>			
	Opening Balance	335808	271120
	Addition during the year	170673	233641
	Adjusted during the year	251481	168953
			335808
b) <u>Machinery and Equipment</u>			
	Opening Balance	0	
	Addition during the year	0	
	Adjusted during the year	0	
2. <u>Advance for training Programme</u>			
	Opening Balance	15423481	10254962
	Addition during the year	19257228	5178519
	Adjusted during the year	11262332	10000
		23418377	15423481
3. <u>Sundry Debtors:</u>			
a) <u>Debts Outstanding for a period exceeding six months</u>			
b) <u>Others Over payment under salaries head (Income tax) Imprest</u>		213031	20000
	Opening balance	0	0
	Adjusted during the year	0	0
4. <u>Cash balances in hand (including cheques/ drafts and imprest)</u>			
5. <u>Bank Balances:</u>			
a) <u>With Scheduled Banks:</u>			
	On Current Accounts		
	On Deposit Accounts (includes margin money)	60305453	22037668
	On Savings Accounts		
b) <u>With non-Scheduled Banks:</u>			
	On Current Accounts		
	On Deposit Accounts		
	On Savings Accounts		
6. <u>Customs Duty Advance</u>		400000	400000
7. <u>Outside Recovery 2013-14</u>		40708	40708
TOTAL (A)		84632569	38237665

**National Drug Dependence Treatment Centre
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2017**

	2017-18	2016-17
(Amount - Rs.)		
SCHEDULE 11 - CURRENT ASSETS, LOANS, ADVANCES ETC. (Contd.)		
B LOANS, ADVANCES AND OTHER ASSETS		
1. <u>Loans:</u>		
a) Staff		
i) Motor car		
ii) House Building Advance		
iii) Computer Advance		
iv) Festival Advance		
2. <u>Advances and other amounts recoverable in cash or in kind or for value to be received:</u>		
a) On Capital Account		
b) Prepayments		
c) Others		
3. <u>Income Accrued:</u>		
a) On Investments from Earmarked / Endowment Funds		
b) On Investments - Others		
c) On Loans and Advances		
d) Others (includes income due unrealised - Rs.....)		
4. <u>Claims Receivable:</u>		
TOTAL (B)	0	0
TOTAL (A + B)	84632569	38237665

National Drug Dependence Treatment Centre
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE PERIOD/YEAR ENDED 31-03-2018

	<u>2017-18</u>	<u>2016-17</u>
SCHEDULE 12 - INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS		
1) Income from Sales		
1. Hospital receipts		293112
2. Administrative charges (Projects)	622365	
3. Sale of Scraps		
2) Income from Services		
a) Labour and Processing Charges		
b) Professional / Consultancy Services		
c) Agency Commission and Brokerage		
d) Maintenance Services (Equipment/Property)		
e) Others (Specify) Hospital Receipt		
TOTAL	622365	293112
SCHEDULE 13 - GRANTS /SUBSIDIES		
1) Income from Sales		
(Irrevocable Grants & Subsidies Received)		
1. Central Government	194000000	134000000
2. State Government(s)		
3. Government Agencies	50000000	
4. Institutions/ Welfare Bodies (SAP)		
5. International Organisations		
6. Others (Specify) LOAN FROM AIIMS		
TOTAL	244000000	134000000

National Drug Dependence Treatment Centre
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2018

(Amount-Rs.)

<u>SCHEDULE 14 - FEES/SUBSCRIPTIONS</u>	2017-18	2016-17
1. Tuition & Examination Fee		
2. Licence Fee		
3. Seminar/Program Fees		
4. Consultancy Fees		
5. Others (Specify) EHS		
<u>TOTAL</u>	0	0
Note- Accounting Policies towards each item are to be disclosed		

<u>SCHEDULE 15 - INCOME FROM INVESTMENTS</u> (Income on Invest. From Earmarked/Endowment Funds transferred to Funds)	Investment from Earmarked Fund		Investment-Others	
	2017-18	2016-17	2017-18	2016-17
1. Interest				
a) On Govt. Securities				
a) Other Bonds/Debentures				
2. Dividends:				
a) On Shares				
a) On Mutual Fund Securities				
3. Rents				
4. Others (Specify)				
<u>TOTAL</u>				
TRANSFERRED TO EARMARKED/ENDOWMENT FUNDS				

National Drug Dependence Treatment Centre
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2018

(Amount-Rs.)

SCHEDULE 16 - INCOME FROM ROYALTY, PUBLICATION ETC.	2017-18	2016-17
1. Income from Royalty		
2. Income from Publications		
3. Others (specify)		
TOTAL	0	0

SCHEDULE 17 - INTEREST EARNED	2017-18	2016-17
1. On Term Deposits:		
a) With Scheduled Banks		
b) With Non-Scheduled Banks		
c) With Institutions		
d) Others		
2. On Savings Accounts:		
a) With Scheduled Banks		
b) With Non-Scheduled Banks		
c) Post Office Savings Accounts		
d) Others		
3. On Loans:		
a) Employees/Staff		
b) Others		
4. Interest on Debtors and other Receivables		
TOTAL	0	0

National Drug Dependence Treatment Centre
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2018

<u>SCHEDULE 18 - OTHERS INCOME</u>		(Amount-Rs.)	
	2017-18	2016-17	
1. Misc. Receipt			
2. Estb. Receipt (Scheme)	69295		15002
3. Others (specify)			
TOTAL	69295		15002

<u>SCHEDULE 19 - INCREASE/(DECREASE) IN STOCK OF FINISHED GOODS & WORK IN PROGRESS</u>		2017-18	2016-17
a) Closing stock			
- Finished Goods			
- Work-in-progress			
b) Less: Opening Stock			
- Finished Goods			
- Work-in-progress			
NET INCREASE/(DECREASE) [a+b]	0		0

<u>SCHEDULE 20 - ESTABLISHMENT EXPENSES</u>		2017-18	2016-17
Salaries		126538191	96075163
Allowances and Bonus			
Contribution to NPS		4731165	2953757
Contribution to Other Fund (Scheme Cell)			
Staff Welfare Expenses			
Expenses on Employees "Retirement and Terminal Benefits"			
Others (NPS & LSPC)			
TOTAL		131269356	99028920

National Drug Dependence Treatment Centre
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2018

(Amount-Rs.)

SCHEDULE 21 - OTHER ADMINISTRATIVE EXPENSES ETC.	2017-18	2016-17
a) Purchases (Material and Supply)	52171350	33878367
b) wages for outsourced services	35515531	17323407
c) Misc expenditure (Adj. of advances)	251481	168953
d) Electricity and power		
e) Misc Exp from Imprest	107887	89299
f) Imprest adjusted (17-18) Misc expenditure		20000
g) Repairs and maintenance (M&E)		
h) Excise Duty		
i) Rent, Rates and Taxes		
j) Vehicles, Running and Maintenance		
k) Postage, Telephone and Communication Charges		
l) Printing and Stationary		
m) Travelling and Conveyance Expenses		
n) Expenses on Seminar/Workshops		
o) Subscription Expenses		
p) Expenses on Sanitation (SAP)	238587	
q) Maintenance of Buildings (Minor Work RG)		
r) Maintenance of M&E (CAMC/AMC)		
s) Maintenance of Building (Non-plan)		
t) Provision for Bad and Doubtful Debts/Advances		
u) Irrecoverable Balances Written-off		
v) Swap Charges (IDBI Debit/Credit Card Commission)		
w) Freight and Forwarding Expenses		
x) Distribution Expenses		
y) Advertisement and Publicity		
z) Others (specify) Training programme	11262332	10000
TOTAL	99547168	51490026

National Drug Dependence Treatment Centre
SCHEDULES FORMING PART OF RECEIPTS & PAYMENT FOR THE YEAR ENDED 31-03-2018

(Amount-Rs.)

SCHEDULE 21A - OTHER ADMINISTRATIVE EXPENSES ETC.	2017-18	2016-17
a) Purchases (Material and Supply)	52171350	33878367
b) wages for outsourced services	35515531	17323407
c) Misc expenditure (Adj. of advances)		
d) Electricity and power		
e) Water charges		
f) Imrest adjusted (17-18)	107887	89299
g) Repairs and maintenance (M&E)		
h) Excise Duty		
i) Rent, Rates and Taxes		
j) Vehicles, Running and Maintenance		
k) Postage, Telephone and Communication Charges		
l) Printing and Stationary		
m) Travelling and Conveyance Expenses		
n) Expenses on Seminar/Workshops		
o) Subscription Expenses		
p) Expenses on Sanitation	238587	
q) Maintnaince of Buildings (Minor Work RG)		
r) Maintnaince of M&E (CAMC/AMC)		
s) Maintnaince of Building (Non-plan)		
t) Provision for Bad and Doubtful Debts/Advances		
u) Irrecoverable Balances Written-off		
v) Swap Charges (IDBI Debit/Credit Card Commission)		
w) Freight and Forwarding Expenses		
x) Distribution Expenses		
y) Advertisement and Publicity		
z) Others (specify)(Contingency charge)(Adj. of advances)		
TOTAL	88033355	51291073

National Drug Dependence Treatment Centre
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2018

(Amount-Rs.)

SCHEDULE 22- EXPENDITURE ON GRANTS, SUBSIDIES ETC.	2017-18	2016-17
a). Grants given to Institutions/Organizations		
b). Subsidies given to Institutions/organisations		
Total	0	0
Note - name of the Entities, their activities along with the amount of gnrats/subsidies are to be disclosed.		

SCHEDULE 23- INTEREST	2017-18	2016-17
a) On fixed Loans		
b) On other Loans (includidng Bank charges)		
c) Ohters(Specify)		
Total	0	0

FORM OF FINANCIAL STATEMENTS
UNDCP
ALL INDIA INSTITUTE OF MEDICAL SCIENCE
RECEIPTS AND PAYMENT ACCOUNT
FOR THE YEAR ENDED ON 31st MARCH, 2017

RECEIPTS	2017-18	2016-17	PAYMENTS	2016-17
I. Opening Balance				
a) Cash in hand				
b) Bank Balances				6,87,760
(i) In current accounts	22,18,851	17,73,388		649
(ii) In deposit accounts				18,00,000
(iii) Savings accounts				
II. Grants Received			V. Refund of Surplus Money/Loans	
a) From WHO	3,21,600	6,58,295	a) To the Government of India	
b) From State Government	7,19,00,000	18,00,000	b) Grant refund to WHO	56,875
c) Repayment of loan by NDDTC			c) To other providers of Funds	
			VI. Finance Charges	
V. Other Income				
a) Hospital Receipts			VII. Other Payments	
b) Misc. Receipts			a) Engg. Maintenances	
			b) Minor Works.	
			c) Misc Expenditure	20,000
VII. Any other receipts			d) Festival Advance Paid	
a) Imprest			h) Patient Treatment	
b) AITSC			i) Advances paid as Custom Duty	
c) INCPT	632		VIII. Closing Balances	
d) Other Misc.(NDDTC A/C)			a) Cash in hand	
			b) Bank Balances	
			i) In Current accounts	7,37,32,674
			ii) In Deposit accounts	
			iii) Savings accounts	
	7,44,41,083	42,31,683		7,44,41,083
				42,31,683

**ALL INDIA INSTITUTE OF MEDICAL SCIENCE
UNDCP
INCOME AND EXPENDITURE ACCOUNT
FOR THE YEAR ENDED ON 31st MARCH, 2017**

INCOME	SCHEDULE	2017-18	2016-17
Income from Services			
Grants/Subsidies	3	7,22,21,600.00	6,01,420
Fees/Subscriptions			
Income from Investments (Income on Investment from earmarked/endow. Funds)			
Income from Royalty, Publication			
Interest Earned			
Other Income			
Total (A)		7,22,21,600.00	6,01,420
EXPENDITURE			
Establishment Expenses	4	6,87,760.00	
Other Administrative Expenses	5	19,25,000.00	1,55,325
Expenditure on Grants, Subsidies			
Bank Charges	6	649.00	632
Depreciation			
Others			0
Total (B)		26,13,409	1,55,957
Balance being excess of Income over Expenditure (A-B)			
Transfer to Special Reserve (Specify Each)		6,96,08,191	4,45,463
Transfer to General Reserve			
Balance Being Surplus/Deficit carried to General Reserve		6,96,08,191	4,45,463
Total		7,22,21,600	6,01,420

FORM OF FINANCIAL STATEMENTS
UNDCP
ALL INDIA INSTITUTE OF MEDICAL SCIENCE
BALANCE SHEET as at 31st March, 2017

CORPUS / CAPITAL FUND AND LIABILITIES	Schedule	2017-18	2016-17
CORPUS / CAPITAL FUND			
RESERVE AND SURPLUS	1	7,37,77,674.00	41,69,483.00
EARMARKED / ENDOWMENT FUNDS			
SECURED LOANS AND BORROWINGS			
UNSECURED LOANS AND BORROWINGS			
DEFERRED CREDIT LIABILITIES			
CURRENT LIABILITIES AND PROVISIONS			
Total Capital Fund and Liabilities		7,37,77,674.00	41,69,483.00
ASSETS			
FIXED ASSETS			
INVESTMENTS - FROM EARMARKED / ENDOWMENT FUNDS			
INVESTMENTS - OTHERS			
CURRENT ASSETS, LOANS, ADVANCES ETC.	2	7,37,77,674.00	41,69,483.00
MISCELLANEOUS EXPENDITURE (to the extent not written off or adjusted)			
Total Assets		7,37,77,674.00	41,69,483.00

**ALL INDIA INSTITUTE OF MEDICAL SCIENCE
UNDCP**

Schedule 1 - Reserve and Surplus	2017-18	2016-17
1. Capital Reserve :		
As per last Account		
Addition during the year		
Less : Deduction During the year		
2. Revaluation Reserve :		
As per last Account		
Addition during the year		
Less : Deduction During the year		
3. Special Reserves :		
As per last Account		
Addition during the year		
Less : Deduction During the year		
4. General Reserve :		
As per last Account	41,69,483.00	37,24,020.00
Less:- Excess of Expenditure over Income		
Add :- Excess of Income over Expenditure	6,96,08,191.00	4,45,463.00
Less : Grant refund to ministry	7,37,77,674.00	41,69,483.00
Closing Balance	7,37,77,674.00	41,69,483.00

FORM OF FINANCIAL STATEMENTS
ALL INDIA INSTITUTE OF MEDICAL SCIENCE

Schedule 2 Current Assets, Loans, Advances	2017-18	2016-17
1. Cash in hand (including cheques/drafts and imprest)		
2. Bank Balances:		
a) Current Account	7,37,32,674.00	22,18,851.00
b) Deposit Account (Fixed Deposit)		
3. Loans:		
a) To Employees of Entity		
5. Advances and Other amounts recoverable:		
a) From Employees of Entity		
b) From Others (NDDTC)	632.00	632.00
Less :- Adjustment during the year	632.00	
6. Others		
Advance for training upto 2016-17	19,50,000.00	19,50,000.00
Less- Advance adjust during the year	19,05,000.00	45,000.00
Balance as at the Year End	7,37,77,674.00	41,69,483.00

**FORM OF FINANCIAL STATEMENTS
ALL INDIA INSTITUTE OF MEDICAL SCIENCE**

Schedule 3 - Grants and Subsidies	2017-18	2016-17
a) From WHO	321600	6,58,295.00
Less Refunded to WHO during the year		56,875.00
b) Grant from Ministry Of Health	71900000	6,01,420.00
Total	7,22,21,600.00	6,01,420.00

**FORM OF FINANCIAL STATEMENTS
ALL INDIA INSTITUTE OF MEDICAL SCIENCE**

Schedule 5- Other Administrative Expenses Etc.	2017-18	2016-17
Hospitality (National survey to assess extent and pattern of abuse)		155,325.00
Contingency Expenditure		
Add:- Adjustment of Advance during the year 2017-18	1,905,000.00	
Transport Expenses		
Travelling Allowances		
Misc Expenditure	20,000.00	
Total	1,925,000.00	155,325.00

Schedule 4- Establishment Expenditure	2017-18	2016-17
Establishment Charges (Salaries)	687,760.00	
Total	687,760.00	-

**FORM OF FINANCIAL STATEMENTS
ALL INDIA INSTITUTE OF MEDICAL SCIENCE**

Schedule 6- Bank Charges	2017-18	2016-17
Bank Charges	649	632
Total	649	632

**Centre For Integrative Medicine & Research (AIIMS)
Receipts and Payments for the year ended 31.03.2018**

Receipts	2017-18	2016-17	Payments	2017-18	2016-17
I. Opening balances			I. Expenses		
a) cash in Hand	-	-	a) Establishment Expenses (corresponding to schedule 21)	3,698	-
b) Bank Balances			b) Administrative Expenses (corresponding to Schedule 22)	2,56,983	-
(i) In current Account	-	-	c) Material & Supply	5,69,904	-
(ii) In Deposit Account	-	-			
(iii) In Savings Account	-	-	II. Payments made against funds for various Projects		
c) Fixed Deposits					
II. Grant Received			III. Investments and deposits made		
a) From Government of India--Through Aiims Main Capital (Assets New)			a) Out of Earmarked/Endowment funds	-	-
(i) Grant in Aid (Plan)	14737000	-	b) Revolving Fund	-	-
Refund to Aiims Main	52443	1,46,84,557	IV. Expenditure on Fixed Assets & Capital		
Revenue General (Plan)			Work-in-Progress	-	
(ii) Grant in Aid- (General)	1500000		a) Purchase of Fixed Assets	66,94,143	-
Refund to Aiims Main	6,69,415	8,30,585	b) Expenditure on Capital Work-in-progress	-	-
b) From State Government			c) Letter of Credit (M&E)	79,90,409	
c) From Other Sources (details)			V. Refund of surplus money/Loans		
(Grant for capital and Revenue expenditure to shown			a) To the Government of India	-	-
III. Income on Investments From			b) To the State Government	-	-
a) Earmarked Funds/ Endowments funds			c) To other providers of funds	-	-
b) Revolving Fund			VI. Finance Charges (Interest)		
			Bank Charges	1,553	-
IV. Interest Received			VII. Other Payments (Specify)		
a) On Bank Deposits			Donation/Grant	-	-
b) loans And Advances etc.			Earnest Money Deposits	-	-
V. Other Income			Loan,Advances & Other Assets/Recovery		
Tender Fee	4,500	-	Advance to Employee	-	-

Receipts		2017-18	2016-17	Payments		2017-18	2016-17
VI. Amount Borrowed				VIII. Closing Balances			
				a) Cash in hand		-	
				b) Bank Balances			
VII. Any Other Receipts (Give Details)				(i) In current Account		1,10,953	
a) Donation		-		ii) In deposit accounts		-	
c) Earnest Money Deposits		1,08,000		iii) Savings accounts		-	
Loan, Advances & Other Assets/Recovery							
Advance to Employee				c) Fixed Deposits		-	
Total		1,56,27,642	-	Total		1,56,27,642	-

F & CAO, CIMR

PROFESSOR I/C, CIMR

Centre For Intergrative Medicine & Research (AIIMS)
Balance Sheet as at 31.03.2018

		(Amount in Rs.)	
CORPUS/CAPITAL FUND AND LIABILITIES	Schedule	Current Year	Previous Year
Corpus/Capital Fund	1	1,46,84,557	-
Reserves and Surplus	2	2,948	-
Earmarked/ Endowment Funds	3	-	-
Revolving Funds	4	-	-
Secured Loans and Borrowings	5	-	-
Unsecured Loans and Borrowings	6	-	-
Deferred Credit Liabilities	7	-	-
Current Liabilities and Provisions	8	1,08,000	-
TOTAL		1,47,95,505	-
ASSETS			
Fixed Assets	9	66,94,143	-
Investments-From Earmarked/Endowment Funds	10	-	-
Investment-Others	11	-	-
Current Assets, Loans, Advances Etc.	12	81,01,362	-
Miscellaneous Expenditure		-	-
(To the extent not written off or adjusted)			
Balance of excess of expenditure over income			
TOTAL		1,47,95,505	-
Significant Accounting Policies	25		
Contingent Liabilities and Notes on Accounts	26		

PROFESSOR J/C, CIMR

F & CAO, CIMR

Centre For Intergrative Medicine & Research (AIIMS)
Income and Expenditure Account for the year ending on 31.03.2018

<u>INCOME</u>	Schedule	Current Year	Pervious Year
Income from Sales/services	13	-	-
Grants/Subsidies	14	8,30,585	-
Fees/Subscriptions	15	4,500	-
Income from Investments (Income on Invest. From earmarked/endow. Funds Transferred to Funds)	16	-	-
Income from Royalty, publications etc.	17	-	-
Interest Earned	18	-	-
Other Income	19	-	-
Increase/(decrease) of Finished goods and works-in-progress	20	-	-
TOTAL(A)		8,35,085	-
<u>EXPENDITURE</u>			
Establishment Expenses	21	3,698	-
Other Administrative Expenses etc.	22	2,56,983	-
Payment made against fund for various projects	22 (A)	-	-
Material & Supply	23	5,69,904	-
Expenditure on Grants, Subsidies Etc.	24	-	-
Interest & Finance Expenses	25	1,553	-
Depreciation (Net Total at the year-end-corresponding to Schedule 11)			
TOTAL (B)		8,32,138	-
Balance being excess of Income over Expenditure (A-B)			
Transfer to Special Reserve (Specify each)		2,948	-
Transfer to/from General Reserve		-	-
Balance being surplus/(deficit) carried to corpus/capital fund		2,948	-
Significant Accounting Policies	25		
Contingent Liabilities and Notes on Accounts	26		

(Amount Rs.)

PROFESSOR I/C. CIMR

F & CAO, CIMR

Centre For Integrative Medicine & Research (AIIMS)

Schedules forming part of the Balance Sheet as at 31.03.2018

<u>Schedule 1 - Corpus/Capital Funds</u>		
	Current Year	Pervious Year
Balance as at the beginning of the year		
Add: Contributions towards Corpus/Capital Fund (Through Aims Main)	14,684,557	
Add: Corpus/Capital Created out of Donation		
Add/Deduct: Balance of net income/(expenditure) transferred from the Income and Expenditure Account	-	-
Balance as at the end of the year	14,684,557	-

<u>Schedule 2 - Reserves and Surplus</u>		
	Current Year	Pervious Year
1. Capital Reserve		
Balance as at the beginning of the year		
CIMR A/c	2,948	-
Add: Additions during the year		
CIMR A/c		
2. Revaluation Reserves		
Balance as at the beginning of the year		
Add: Additions during the year		
Less: Deductions during the year		
3. Special Reserve		
Balance as at the beginning of the year		
Add: Additions during the year		
Less: Deductions during the year		
4. General Reserve		
Balance as at the beginning of the year		
Add: Additions during the year		
Less: Deductions during the year		
5. Excess of income over expenditure		
TOTAL	2,948	-

(Amount in Rs.)

Schedule -3 Earmarked/ Endowment Funds	XXX	YYY	Current Year	Previous Year
			Total	Total
a) Opening balance of the funds	-	-	-	-
b) Additions to the Funds	-	-	-	-
i. Donations/grants	-	-	-	-
ii. Income from Investments made on account of funds	-	-	-	-
iii. Received from patients	-	-	-	-
iv. Other additions (specify nature)	-	-	-	-
TOTAL (a+b)	-	-	-	-
c) Utilisation/Expenditure towards objectives of funds				
i. Capital Expenditure				
Fixed Assets	-	-	-	-
Others	-	-	-	-
TOTAL (c.i)	-	-	-	-
ii. Revenue Expenditure				
Salaries, Wages and allowances etc.	-	-	-	-
Rent	-	-	-	-
Bank Charges	-	-	-	-
Other Administrative expenses	-	-	-	-
TOTAL (c.ii)	-	-	-	-
TOTAL (c)	-	-	-	-
d) Refunds to Patients	-	-	-	-
NET BALANCE AS AT THE YEAR-END (a+b-c-d)	-	-	-	-

(Amount in Rs.)

Schedule -4 Revolving Fund	Current Year			Previous Year
	XX	YY	Total	Total
a) Opening balance of the funds	-	-	-	-
b) Additions to the Funds				
i. Received From Patients	-	-	-	-
ii. Grant Receive (17-18)	-	-	-	-
TOTAL (a+b)	-	-	-	-
c) Utilisation/Expenditure towards objectives of funds				
i. Capital Expenditure				
Fixed Assets	-	-	-	-
Others (Specify)	-	-	-	-
TOTAL (c.i)	-	-	-	-
ii. Revenue Expenditure				
Material & Supply	-	-	-	-
Others (Specify)	-	-	-	-
Transfer to various pts. A/c	-	-	-	-
TOTAL (c.ii)	-	-	-	-
TOTAL (c)	-	-	-	-
Balance as at the end of the year (a+b-c)	-	-	-	-

Schedule 5 - Secured Loans And Borrowings		(Amount in Rs.)	
	Current Year	Previous Year	
1. Capital Government	-	-	
2. State Government (Specify)	-	-	
3. Financial Institutions			
a) Term Loans	-	-	
b) Interest accrued and due	-	-	
4. Banks			
a) Term Loans			
- Interest accrued and due	-	-	
b) Other Loans (specify)			
- Interest accrued and due	-	-	
5. Other Institutions and Agencies	-	-	
6. Debentures and Bonds	-	-	
7. Others (specify)	-	-	
TOTAL	-	-	
Note: Amounts due within one year			

Schedule 6- Unsecured Loans And Borrowings		
	Current Year	Previous Year
1. Capital Government	-	-
2. State Government (Specify)	-	-
3. Financial Institutions		
a) Term Loans	-	-
b) Interest accrued and due	-	-
4. Banks		
a) Term Loans		
- Interest accrued and due	-	-
b) Other Loans (specify)		
- Interest accrued and due	-	-
5. Other Institutions and Agencies	-	-
6. Debentures and Bonds	-	-
7. Others (specify)	-	-
TOTAL	-	-
Note: Amounts due within one year		

Schedule 7- Deferred Credit Liabilities		
	Current Year	Previous Year
a) Acceptance secured by hypothecation of capital equipment and other assets	-	-
b) Others	-	-
TOTAL	-	-
Note: Amount due within one year		

(Amount in Rs.)

Schedule 8-Current Liabilities	Current Year	Pervious Year
A. Current Liabilities		
1. <i>Acceptances</i>	-	-
2. <i>Sundry Creditors</i>		
a) For Goods	-	-
b) Others	-	-
3. <i>Advances Received</i>	-	-
4. <i>Interest accrued but not due on</i>		
a) Secured Loans/borrowings	-	-
b) Unsecured Loans/borrowings	-	-
5. <i>Statutory Liabilities</i>		
a) Overdue	-	-
b) Others	-	-
6. <i>Other Current Liabilities</i>	-	-
7. <i>Security Deposit</i>	1,08,000	-
8. <i>Imprest</i>	-	-
9. <i>Aiims Neuro Sciences Poor Pts. A/c</i>	-	-
TOTAL (A)	1,08,000	-
B. Provisions		
1. For Taxation	-	-
2. Gratuity	-	-
3. Superannuation/ Pension	-	-
4. Accumulated Leave Encashment	-	-
5. Trade Warranties/ Claims	-	-
6. Accumulated Depreciation	-	-
7. Others	-	-
TOTAL (B)	-	-
TOTAL (A)+(B)	1,08,000	-

Particulars	GROSS BLOCK						DEPRECIATION				NET BLOCK		
	Cost/Valuation as at beginning of the year	Additions during the year	Deductions during the year	Additions during the year (Letter of Credit)	Additions during the year (PDA)	Additions during the year (Custom Duty)	Cost/Valuation at the year-end	As at the begni. of the year	For the year	On ded. during the year	Total up to the year-end	As at the current year-end	As at the previous year-end
FIXED ASSETS													
LAND													
a) Freehold	-	-	-	-	-	-	-	-	-	-	-	-	-
b) Leasehold	-	-	-	-	-	-	-	-	-	-	-	-	-
BUILDINGS													
a) On Freehold Land	-	-	-	-	-	-	-	-	-	-	-	-	-
b) On Leasehold Land	-	-	-	-	-	-	-	-	-	-	-	-	-
c) Ownership Flats/Premises	-	-	-	-	-	-	-	-	-	-	-	-	-
d) Superstructures on Land not belonging to the entity	-	-	-	-	-	-	-	-	-	-	-	-	-
INTANGIBLE FIXED ASSETS													
a) Software		55,00,909	-	-	-	-	55,00,909	-	-	-	-	55,00,909	-
PLANT, MACHINERY & EQUIPMENT*													
VEHICLES													
FURNITURE, FIXTURES		6,84,629	-	-	-	-	6,84,629	-	-	-	-	6,84,629	-
COMPUTER/ PERIPHERALS		5,08,605	-	-	-	-	5,08,605	-	-	-	-	5,08,605	-
ELECTRIC INSTALLATIONS		-	-	-	-	-	-	-	-	-	-	-	-
LIBRARY BOOKS		-	-	-	-	-	-	-	-	-	-	-	-
Tube well & Water-supply		-	-	-	-	-	-	-	-	-	-	-	-
OFFICE EQUIPMENT		-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OF CURRENT YEAR		66,94,143	-	-	-	-	66,94,143	-	-	-	-	66,94,143	-
PREVIOUS YEAR		-	-	-	-	-	-	-	-	-	-	-	-
CAPITAL WORK-IN-PROGRESS													
TOTAL		66,94,143	-	-	-	-	66,94,143	-	-	-	-	66,94,143	-

(Amount in Rs.)

SCHEDULE 9 - FIXED ASSETS

(Amount in Rs.)	
Schedule 10 - Investments from Earmarked/Endowment Funds	Previous Year
1. In Government Securities	-
2. Other approved Securities	-
3. Shares	-
4. Debentures and Bonds	-
5. Subsidiaries and Joint Ventures	-
6. Others (to be specified)	-
TOTAL	-

(Amount in Rs.)	
Schedule 11 - Investments Others	Previous Year
1. In Government Securities	-
2. Other approved Securities	-
3. Shares	-
4. Debentures and Bonds	-
5. Subsidiaries and Joint Ventures	-
6. Others (to be specified)	-
i. Fixed Deposit (Gamma Knife)	-
ii. Fixed Deposit (Angio Pts. A/c)	-
iii. Fixed Deposit (Neuro Surgery Pts. A/c)	-
TOTAL	-

(Amount in Rs.)

Schedule 12-Current Assets, Loans, Advances Etc.	Current Year	Previous Year
A. Current Assets		
1. Inventories		
a) Stores and Spares	-	-
b) Loose Tools	-	-
c) Stock in trade		
Finished Goods	-	-
Work-in-progress	-	-
Raw Materials	-	-
2. Sundry Debtors		
a) Debts outstanding for a period exceeding six months		
b) Others		
3. Cash balances in hand (Including cheques/drafts and imprest)		
a) Imprest		
4. Bank Balances		
a) With Scheduled Banks:		
-On Current Accounts	1,10,953	
-On Deposit Accounts (Includes margin money)		-
-On Savings Accounts	-	-
b) With Non-Scheduled Banks:		
-On Current Accounts	-	-
-On Deposit Accounts	-	-
-On Savings Accounts	-	-
5. Post Office - Savings Accounts	-	-
TOTAL (A)	1,10,953	-

(Amount in Rs.)

SCHEDULE 12-CURRENT ASSETS LOANS, ADVANCES ETC. (CONTD.)	Current Year	Pervious Year
B. LOANS, ADVANCES AND OTHER ASSETS		
1. Loans		
a) Staff		
b) Other Entities engaged in activities/objectives similar to that of the Entity		
c) Other (Patient Treatment- CGHS)		
2. Advances and other amounts recoverable in cash or in kind or for value to be received		
a) On Capital Accounts		
b) Prepayments		
c) Temporary Contingent Advances		
d) Others		
3. Income Accrued		
a) On Investments fro Earmarked / Endowment Funds		
b) On Investments-Others		
c) On Loans and Advances		
d) Others		
(Includes income due unrealized-Rs.....)		
4. Claims Receivable		
5. Letter of Credit	79,90,409	
6. Custom Duty		
7. Pre-Deposits Advance		
TOTAL (B)	79,90,409	-
TOTAL (A)+(B)	81,01,362	-

(Amount in Rs.)

SCHEDULE 13-INCOME FROM SALES/SERVICE	Current Year	Previous Year
1) <u>Income from sales</u>		
a) Sales of Finished Goods	-	-
b) Sales of Raw Material	-	-
c) Sales of Scraps	-	-
2) <u>Income from Services</u>		
a) Labour and Processing Charges	-	-
b) Professional/Consultancy Service	-	-
c) Agency Commission and Brokerage	-	-
d) Maintenance Services (Equipment/Property)	-	-
e) Hospital Receipts (CNC Main)	-	-
f) Hospital Receipts (Gamma Knife)	-	-
g) Hospital Receipts (Angio Patients A/c)	-	-
h) Hospital Receipts (C.T. Pts. A/c)	-	-
i) Hospital Receipts (Neuro Surgery Pts. A/c)	-	-
j) Patient Treatment CGHS	-	-
k) Others (Specify) Suspence Receipt	-	-
TOTAL	-	-

SCHEDULE 14-GRANTS/SUBSIDIES	Current Year	Current Year
(Irrevocable Grant & Subsidies Received)-Through Aiims Main		
1) Central Government	-	-
Revenue General (Plan)		
(ii) Grant in Aid- (Salary)	-	-
(iii) Grant in Aid- (General)	-	-
Non Plan		
(iii) Grant in Aid- (General)	8,30,585	-
(ii) Grant in Aid- (Salary)	-	-
2) State Government(s)	-	-
3) Governments Agencies	-	-
4) Institutions/Welfare Bodies	-	-
5) International Organisations	-	-
6) Others (Specify)	-	-
TOTAL	8,30,585	-

(Amount in Rs.)	
SCHEDULE 15-FEES/SUBSCRIPTIONS	Previous Year
1) Entrance Fees	-
2) Annual Fees/Subscriptions	-
3) Seminar/Program Fees	-
4) Consultancy Fees	-
5) Tender Fees	4,500.00
6) Other Income	-
TOTAL	4,500.00
Note- Accounting Policies towards each item are to be disclosed	

(Amount in Rs.)				
SCHEDULE 16- INCOME FROM INVESTMENTS	Investment from Earmark Fund		Investment Other	
(Income on Invest. Earmarked/Endowment Funds transferred to Funds)	Current Year	Previous Year	Current Year	Previous Year
1) Interest				
a) On Govt. Securities	-	-	-	-
b) Other Bonds/Debentures	-	-	-	-
2) Dividends				
a) On Shares	-	-	-	-
b) On Mutual Fund Securities	-	-	-	-
3) Rents	-	-	-	-
4) Other (Specify)	-	-	-	-
TOTAL	-	-	-	-
Note- Transferred to earmarked/endowment funds				

(Amount in Rs.)	
SCHEDULE 17- INCOME FROM ROYALTY, PUBLICATION ETC.	Previous Year
1) Income from Royalty	-
2) Income from Publications	-
3) Others (Specify)	-
TOTAL	-

(Amount in Rs.)	
SCHEDULE 18- INTEREST EARNED	Previous Year
1) On Term Deposits	
a) with Schedule Banks (CNC Main)	
with Schedule Banks (Gamma Knife)	
with Schedule Banks (Angio Pts. A/c)	
with Schedule Banks (C.T. Pts. A/c)	
with Schedule Banks (Neuro Surgery Pts. A/c)	-
b) With Non-Scheduled Banks	-
c) With Institutions	-
d) Others	-
2) On Savings Accounts	
a) with Schedule Banks	-
b) With Non-Scheduled Banks	-
c) With Institutions	-
d) Others	-
3) On Loans	
a) Employee/Staff	-
b) Others	-
4) Interest on Debtors and Other Receivables	
TOTAL	-
Note- Tax deducted at source to be indicated	

(Amount in Rs.)

SCHEDULE 19- OTHER INCOME	Current Year	Previous Year
1) Profit on Sale/disposal of Assets		
a) Owned assets	-	-
b) Assets acquired out of grants, or received free of cost	-	-
2) Export Incentives realized		
a) Liquid Damage	-	-
3) Fees for Miscellaneous Services	-	-
4) Miscellaneous Receipt		
5) Lice. Fee Recovery		-
TOTAL	-	-

(Amount in Rs.)

SCHEDULE 20- INCREASE/(DECREASE) IN STOCK OF FINISHED GOODS & WORK IN PROGRESS	Current Year	Previous Year
a) Closing stock		
Finished Goods	-	-
Work-In-Progress	-	-
b) Less: Opening Stock		
Finished Goods	-	-
Work-In-Progress	-	-
NET INCREASE/(DECREASE) [a-b]	-	-

(Amount in Rs.)

SCHEDULE 21- ESTABLISHMENT EXPENSES	Current Year	Previous Year
a) Salaries and Wages (Plan)		
b) Salaries and Wages (Non-Plan)		
c) Contribution to Provident Fund		
d) Contribution to Other Fund - (NPS)		
e) Staff Welfare Expenses		
f) Expenses on Employees Retirement and Terminal Benefits		
g) Travelling and Conveyance Expenses	3,698	
h) Others (specify)	-	-
TOTAL	3,698	-

(Amount in Rs.)

SCHEDULE 22- OTHER ADMINISTRATIVE EXPENSES ETC.	Current Year	Previous Year
Imprest	42,535	-
Manpower (Outsources)	1,18,554	
Refreshments	95,894	
Others (specify)		
TOTAL	2,56,983	0

(Amount in Rs.)

<u>SCHEDULE 22 (A) PAYMENTS MADE AGAINST FUNDS FOR VARIOUS PROJECTS</u>	Current Year	Previous Year
NSC Poor Patients	-	-
Others (specify)		
TOTAL	-	0

(Amount in Rs.)

SCHEDULE 23- Material & Supply	Current Year	Previous Year
Material & Supply	5,69,904	-
Others (Specify)		
TOTAL	5,69,904	-

(Amount in Rs.)

SCHEDULE 24- EXPENDITURE ON GRANTS SUBSIDIES ETC.	Current Year	Previous Year
a) Grants given to Institutions/Organisations	-	-
b) Subsidies given to Institutions/Organisations	-	-
TOTAL	-	-

Note- Name of the Entities, their Activities along with the amount of Grants/Subsidies are to be disclosed.

(Amount in Rs.)

SCHEDULE 25- INTEREST & FINANCE EXPENSES	Current Year	Previous Year
a) On Fixed Loans	-	-
b) On Other Loans (including Bank Charges)	-	-
c) Bank Charges	1,553	-
d) Others (specify)	-	-
TOTAL	1,553	-

**ALL INDIA INSTITUTE OF MEDICAL SCIENCES
RESEARCH SECTION
STATEMENT SHOWING THE EXPENDITURE OF THE GRANT RECEIVED FOR THE VARIOUS RESEARCH PROJECTS FOR THE YEAR 2017-18**

FUNDING AGENCY	RECEIPT	AMOUNT	Funding Agency	Expenditure (A)	Estid. Expenditure (B)	Expenditure (A+B-C)	Undisbursed Expenditure (D)	Total Expenditure (C+D)
Opening Balance								
Cash In Hand :-		1,36,000.00						
Bank Accounts :-								
SHEME CELL	25,13,61,667.92							
AIIMS DBT RESEARCH ACCOUNT	15,08,78,273.00							
AIIMS DST RESEARCH ACCOUNT	12,25,81,015.00							
AIIMS ICMR RESEARCH ACCOUNT	8,79,26,421.00	61,27,47,376.92						
Grant Received from A.I.I.M.S.		4,95,96,387.00	Intramural Research	5,81,50,206.00	-	5,81,50,206.00		5,81,50,206.00
Institute Research Grant		5,00,00,000.00	Abbot Laboratories GmbH	1,55,482.00	34,436.00	1,89,918.00		1,89,918.00
			Ajinomoto Co., Inc., Japan	6,625.00	6,625.00			6,625.00
			ALKEM Laboratories Ltd	91,304.00	6,646.00	97,950.00		97,950.00
			American Academy of Pediatrics	99,592.00	99,592.00			99,592.00
			AO Spine India	154,566.00	15,456.00	1,67,714.00		1,67,714.00
			Appasamy Associates Chennai.	148,500.00	19,214.00	1,67,714.00		1,67,714.00
			AstraZeneca Singapore Pvt Ltd, Singapore	89,546.00	11,116.00	1,00,662.00		1,00,662.00
			AYUSH Govt of India	12,001,18.00	2,82,120.00	14,82,238.00		14,82,238.00
			AYUSH, Ministry of Health and Family Welfare	98,902.00	2,98,582.00	12,79,484.00		12,79,484.00
			Bharat Serum & Vaccine Ltd.	29,607.00	5,000.00	34,607.00		34,607.00
			Bigtee Private Limited	29,120.00	30,000.00	3,21,200.00		3,21,200.00
			Biogen Idec Limited, UK	29,841,000.00	61,187.00	3,59,597.00		3,59,597.00
			Biogen Idec Ltd. (U.K.)	0.00	-	-		-
			Boehringer Ingelheim India Private Ltd	7,309,33.00	5,41,411.00	12,72,344.00		12,72,344.00
			British Heart Foundation, UK	35,162,00.00	52,794.00	4,04,414.00		4,04,414.00
			Cadila Health Care Ltd.	11,884.45	1,62,000.00	13,50,445.00		13,50,445.00
			Cadila Pharmaceutical Ltd.	8,26,789.00	1,02,078.00	9,28,867.00		9,28,867.00
			Cancer Foundation	0.00	-	-		-
			C.D.A.C.	19,990,46.00	36,000.00	20,35,046.00		20,35,046.00
			CEPIRA, French	9,747,22.00	1,23,150.00	10,97,872.00		10,97,872.00
			Centers for Disease Control and Prevention (CDC), USA	21,348,617	7,50,275.00	2,20,98,892.00		2,20,98,892.00
			Centers for Disease Control, New Delhi	9,178,349,5.00	63,16,656.00	9,81,00,151.00		9,81,00,151.00
			Cancer Foundation	0.00	1,00,000.00	1,00,000.00		1,00,000.00
			Central Council for Research in Ayurveda & Sidha	44,764,00.00	1,65,162.00	6,12,802.00		6,12,802.00
			Central Council for Research in Homoeopathy (CCRH), Janak Puri, New Delhi	11,540,52.00		11,54,052.00		11,54,052.00
			Central Council for Research in Unani Medicine	10,72,591.00	95,778.00	11,68,369.00		11,68,369.00
			Central Council for Research in Yoga & Naturopathy	0.00	17,642.00	17,642.00		17,642.00
			Centre for Chronic Diseases Control, New Delhi.	15,648,349.00	9,28,786.00	1,65,77,135.00		1,65,77,135.00
			Centre Franco-Indien Pour La Precomotion De La	120,543.00				
			Christian Medical College, Vellore	83,093.8	2,30,538.00	10,61,476.00		10,61,476.00
			Christoffel Blindemission(CBM) India	3,74,287.00	6,45,893.00	43,90,180.00		43,90,180.00

FUNDING AGENCY	RECEIPT	AMOUNT	Funding Agency	Expenditure (A)	Estd. Expenditure (B)	Expenditure (A+B+C)	Undisbursed Expenditure (D)	Total Expenditure (C+D)
Centre for Chronic Diseases Control, New Delhi.	1,65,96,924.00	-	Clinical Marketing Pvt. Ltd	293849.00	-	293,849.00	-	2,93,849.00
Centre Franco-Indien Pour La Preconomion De La Christian Medical College,Vellore	23,05,380.00	-	Corvenis, USA	28980.00	-	28,980.00	-	28,980.00
Christoffel Blindemission(CBM) India	27,55,742.00	-	CSIR	833271.00	2,76,736.00	-	86,09,447.00	
Clinical Marketing Pvt. Ltd	2,00,000.00	-	CSIR Fellowship	356000.00	-	3,56,000.00	-	3,56,000.00
Corvenis, USA	-	-	Cuddles Foundation	659105.00	78,205.00	7,37,310.00	-	7,37,310.00
CSIR	30,57,157.00	-	CUREHEALTH Diagnostics Pvt Ltd	918054.00	-	9,18,054.00	-	9,18,054.00
CSIR Fellowship	4,57,033.00	-	Cutting Edge Medical Devices Pvt Ltd ,IIT Delhi	87579.00	9,730.00	-	-	-
Cuddles Foundation	7,82,062.00	-	Dabur Research & Development Centre	10568.00	-	10,568.00	-	10,568.00
CUREHEALTH Diagnostics Pvt Ltd	-	-	DBT	200868704.00	1,86,44,484.00	21,95,13,188.00	5,000.00	21,95,18,188.00
Cutting Edge Medical Devices Pvt Ltd. , IIT Delhi	97,300.00	-	DEFENSE INSTT. OF PHY. & ALLIED SCIENCES (DIPAS)	1665614.00	-	16,65,614.00	-	16,65,614.00
Dabur Research & Development Centre	-	-	Delhi State Control Society/AIDS	740215.00	-	7,40,215.00	-	7,40,215.00
DEFENSE INSTT. OF PHY. & ALLIED SCIENCES (DIPAS)	17,91,44,579.97	-	Department of Health and Human Services Centers for Disease Control, USA	3939692.00	-	39,39,692.00	-	39,39,692.00
Delhi State Control Society/AIDS	35,75,000.00	-	Department of Pharmaceuticals	1430515.00	-	14,30,515.00	-	14,30,515.00
Department of Health and Human Services Centers for Disease Control, USA	7,70,876.00	-	Department of Women & Child Development	18245869.00	-	1,82,45,869.00	-	1,82,45,869.00
Department of Pharmaceuticals	39,37,500.00	-	Dept. of Health & Human Services Centre for USA	41758305.00	23,00,575.00	4,40,58,880.00	-	4,40,58,880.00
Department of Women & Child Development	-	-	Difence Instt. of Phy. & Allied Sciences	29607.00	-	29,607.00	-	29,607.00
Dept. of Health & Human Services Centre for USA	1,15,58,542.00	-	Directorate of Education (NSS)	23742.00	-	23,742.00	-	23,742.00
Difence Instt. of Phy. & Allied Sciences	3,65,08,472.00	-	DNDI Switzerland	0.00	1,18,826.00	1,18,826.00	-	1,18,826.00
Directorate of Education (NSS)	4,901.00	-	DNDI Switzerland	0.00	4,93,600.00	4,93,600.00	-	4,93,600.00
DNDI Switzerland	11,88,257.00	-	DR.D.O.	725160.00	3,03,565.00	-	-	-
Dr. Reddys Lab. , Ltd.	2,47,133.00	-	Dr. Reddys Lab. , Ltd.	242177.00	1,11,760.00	3,53,937.00	-	3,53,937.00
Dr. Reddys Lab. , Ltd.	7,57,350.00	-	DST	171591637	88,63,421.00	18,04,55,058.00	-	18,04,55,058.00
DST	14,52,08,869.00	-	D.R.D.O.	547701.00	1,11,667.00	6,59,568.00	-	6,59,568.00
European Commission	-	-	Endocrine Society of India	0.00	500.00	500.00	-	500.00
Fermis Clinical Technologist Pvt Ltd	1,00,000.00	-	Fermish Clinical Technologist Pvt Ltd	566320.00	22,000.00	5,88,320.00	-	5,88,320.00
Fermis Clinical Technologist Pvt Ltd.	1,00,000.00	-	Genefic Clinical Research Pvt Ltd.	113489.00	14,000.00	1,27,489.00	-	1,27,489.00
Genefic Clinical Research Pvt Ltd.	1,35,000.00	-	George Institute for Global Health, India	209489.00	13,500.00	2,22,989.00	-	2,22,989.00
George Institute for Global Health, India	3,68,285.00	-	GLEAD Sciences, Inc., California	179620.00	36,823.00	2,16,449.00	-	2,16,449.00
GLEAD Sciences, Inc., California	5,00,000.00	-	Glaxo Smith Kline	54910.00	-	3,46,950.00	-	3,46,950.00
Glaxo Smith Kline	34,04,197.00	-	Hindustan Latex Ltd.	346950.00	-	3,46,950.00	-	3,46,950.00
Hindustan Latex Ltd.	-	-	IADR U.S.A.	599760.00	2,58,181.00	8,57,941.00	-	8,57,941.00
IADR U.S.A.	-	-	IADVL	145014.00	1,45,014.00	1,45,014.00	-	1,45,014.00
IADVL	25,41,95,691.00	-	ICMR	174487669.82	1,32,69,857.00	18,77,57,526.82	-	18,77,57,526.82
ICMR	85,34,440.00	-	INCLN	6894946.00	8,53,444.00	6,02,080.00	-	6,02,080.00
INCLN	11,90,629.00	-	India Medtronic Pvt. Ltd	427564.00	1,74,516.00	3,80,347.00	-	3,80,347.00
Indian Council of Agriculture Research	6,99,652.00	-	Indian Council of Agriculture Research	29926.00	80,421.00	25,25,142.00	-	25,25,142.00
Indian Institute of Public Health Hyderabad	-	-	Indian Institute of Public Health Hyderabad	0.00	40,826.00	40,826.00	-	40,826.00
Indo-French Centre for the Promotion of Advanced Research	-	-	Indo-French Centre for the Promotion of Advanced Research	-	-	-	-	-
Indo-French Centre for the Promotion of Advanced Research	4,83,865.00	-	Indo German Science and Technology Centre, Govt of India	864487.00	41,650.00	9,06,137.00	-	9,06,137.00
Indo German Science and Technology Centre, Govt of India	-	-	INMAS (DRDO)	831704.00	42,500.00	8,74,204.00	-	8,74,204.00
INMAS (DRDO)	8,50,000.00	-	INSA	481418	46,000.00	5,27,418.00	-	5,27,418.00
INSA	4,60,000.00	-	Institute of Genomics & Integrative Biology	1011944.00	-	10,11,944.00	-	10,11,944.00
Institute of Genomics & Integrative Biology	16,46,940.00	-	International Atomic Energy Agency	968703.00	1,33,155.00	11,01,858.00	-	11,01,858.00
International Atomic Energy Agency	-	-	Invictus Oncology	538628.00	65,765.00	6,04,393.00	-	6,04,393.00
Invictus Oncology	-	-	I.S.H.T.M.	3261730.00	1,64,413.00	34,26,143.00	-	34,26,143.00

FUNDING AGENCY	RECEIPT	AMOUNT	Funding Agency	Expenditure		Estid. Expenditure (B)	Expenditure (A+B=C)	Undisbursed Expenditure (D)	Total Expenditure (C+D)
				(A)	(B)				
Inca Laboratoris	6,57,658.00		Janssen	420016.00	39,000.00	4,59,016.00			4,59,016.00
I.S.H.T.M.	16,44,130.00		JIV Daya Foundation	2091314.00	2,20,577.00	23,11,891.00			23,11,891.00
Janssen	3,90,000.00		Johnson & Johnson	192384.00	10,055.00	2,02,439.00			2,02,439.00
JIV Daya Foundation	9,31,136.00		JSS Medical Research India Pvt Ltd.	273147.00	27,287.00	3,00,434.00			3,00,434.00
Johnson & Johnson			Lab India Healthcare	488183.00	4,88,183.00	4,88,183.00			4,88,183.00
JSS Medical Research India Pvt Ltd.	1,97,878.00		Lady Tata Memorial Trust	1031386.00	8,000.00	10,39,386.00			10,39,386.00
Lab India Healthcare			Lambda Therapeutic Research Ltd.	191254.00	21,614.00	2,12,868.00			2,12,868.00
Lambda Therapeutic Research Ltd.	8,00,000.00		Lebara Foundation	2044276.00	1,16,695.00	21,60,971.00			21,60,971.00
Lebara Foundation	2,16,142.00		Lupin limited	0.00	1,56,222.00	1,56,222.00			1,56,222.00
Mc Master University Canada	15,98,954.00		Liver Foundation	54234.00	54,234.00	54,234.00			54,234.00
MEDPACE	34,22,918.00		Mc Master University Canada	1032914.00	2,08,260.00	12,41,174.00			12,41,174.00
Medtronic India Pvt Ltd.	1,79,550.00		MEDPACE	113144.00		1,13,144.00			1,13,144.00
Merk & Co. Inc. USA			Medtronic India Pvt Ltd.	74550.00	17,955.00	92,505.00			92,505.00
Metrohm India Ltd	12,18,667.00		Merk & Co. Inc. USA	45314.00	45,314.00	45,314.00			45,314.00
Ministry of AYUSH	3,16,16,205.00		Metrohm India Ltd	1160190.00	1,21,867.00	12,82,057.00			12,82,057.00
Ministry of Comm. and Infor. & Tech.			Ministry of AYUSH	3226538.00	14,59,255.00	46,85,813.00			46,85,813.00
Ministry of Health And Family Welfare(N.A.C.O)	88,04,734.00		Ministry of Comm. and Infor. & Tech.	4682912.00		46,82,912.00			46,82,912.00
Ministry of Health and Family Welfare	15,19,375.00		Ministry of Health And Family Welfare(N.A.C.O)	9723570.00		97,23,570.00			97,23,570.00
Ministry of Health & Family Welfare	2,12,60,084.00		Ministry of Health and Family Welfare	0.00					
Ministry of Health & Family Welfare (Ayush)	92,98,866.00		Ministry of Health & Family Welfare	29055423.98	3,59,904.00	2,94,15,327.98			2,94,15,327.98
Ministry of Health & Family Welfare (NACO)	18,69,944.00		Ministry of Health & Family Welfare (Ayush)	9218216.00	3,06,498.00	95,24,714.00			95,24,714.00
Ministry of Home Affair	1,08,54,409.00		Ministry of Health & Family Welfare-DHR	1722085	93,497.00	18,15,582.00			18,15,582.00
Ministry of Social Justice and Empowerment	1,01,00,000.00		Ministry of Health & Family Welfare (NACO)	218771.00	3,19,693.00	5,38,470.00			5,38,470.00
Mis Gilead Sciences Inc. USA	14,55,495.00		Ministry of Home Affair	2833949.00	5,42,720.00	33,76,669.00			33,76,669.00
Mis Janacare Solutions Private Limited			Ministry of Social Justice and Empowerment	14136306.00	1,05,000.00	1,42,41,306.00			1,42,41,306.00
Mis Merck Sharp & Dohme Corp., USA			Mis Gilead Sciences Inc. USA	1878859.00	1,50,689.00	20,29,548.00			20,29,548.00
Nag Foundation, Pune			Mis Janacare Solutions Private Limited	116908.00		1,16,908.00			1,16,908.00
NAMS	10,477.00		Mis Merck Sharp & Dohme Corp., USA	3861.00	3,861.00	3,861.00			3,861.00
National Cancer Grid Research	19,20,475.00		NIE	23258400.00		2,32,58,400.00			2,32,58,400.00
National Commission for Protection of Child Rights	9,40,142.00		Nag Foundation, Pune	107862.00		1,07,862.00			1,07,862.00
National Health 7 Medical Research Council, Austral			NAMS	10477.00		10,477.00			10,477.00
National Innovation Foundation	6,50,000.00		National Cancer Grid Research	225025.00	1,92,047.00	24,42,672.00			24,42,672.00
National Institute of Health, USA	60,26,245.00		National Commission for Protection of Child Rights	119794.00		1,19,794.00			1,19,794.00
National Institute of Mental Health, NH USA	21,03,267.00		National Health 7 Medical Research Council, Austral	14326.00		14,326.00			14,326.00
National Perinatal Epidemiology Unit, University O			National Innovation Foundation	127002.00	20,019.00	1,47,021.00			1,47,021.00
Newton Pharmaceuticals S.P.A.	9,41,400.00		National Institute of Health, USA	11913244.00	65,000.00	1,19,78,244.00			1,19,78,244.00
Next Gen Invitro Diagnostics Pvt Ltd.	15,00,000.00		National Institute of Mental Health, NH USA	242809.00	18,58,241.00	42,86,250.00			42,86,250.00
Next Gen Pharma India Private Limited	5,00,000.00		National Perinatal Epidemiology Unit, University O	35650.00		35,650.00			35,650.00
NIPER,NEW Delhi-110001.			NCHIR (ICMR)	0.00	8,871.00	8,871.00			8,871.00
Nova Nordisk India Pvt. Ltd.	40,12,168.00		Newton Pharmaceuticals S.P.A.	692742.00	94,140.00	9,43,373.00			9,43,373.00
NOVARTIS	9,52,177.00		Next Gen Invitro Diagnostics Pvt Ltd.	849233.00	1,50,000.00	6,99,267.00			6,99,267.00
Novartis Healthcare Pvt Ltd.	33,750.00		Next Gen Pharma India Private Limited	549267.00	59,900.00	6,09,167.00			6,09,167.00
Novartis India Ltd.	7,45,792.00		NIPER,NEW Delhi-110001.	859731.00	8,59,731.00	8,59,731.00			8,59,731.00
Office of Science and Technology, Officer of Naval Research Global, US			Novartis Healthcare Pvt Ltd.	236950.00	4,10,061.00	27,79,562.00			27,79,562.00
Oxford University, UK			NOVARTIS	64710.00					
PAREXEL INTERNATIONAL Clinical Research Pvt Ltd	3,39,552.00		Novartis Healthcare Pvt Ltd.	351218.00	31,455.00	3,82,673.00			3,82,673.00
Parexel International Ltd. (U.K.)			Novartis India Ltd.	1891025.00	3,217.00	18,94,242.00			18,94,242.00
			Office of Science and Technology, Officer of Naval Research Global, US	325000.00		3,25,000.00			3,25,000.00
			Oxford University, UK	3512.00		3,512.00			3,512.00

Particular	Amount (Rs.)
Expenditure disbursed	1,09,59,25,401.80
Aiims DBT Account	14,56,94,567.00
Aiims DST Account	9,78,98,247.00
Aiims ICMR Account	15,96,25,642.00
Aiims Research Scheme Account	31,53,41,541.12
Closing Balance	71,85,59,997.12
Undisbursed Amount	30,000.00
Grant Total	1,81,45,15,398.92

ACCOUNT OFFICER
Research Section

ALL INDIA INSTITUTE OF MEDICAL SCIENCES													
RESEARCH SECTION													
STATEMENT SHOWING THE EXPENDITURE OF THE GRANT RECEIVED FOR THE VARIOUS RESEARCH PROJECTS FOR THE YEAR 2017-18													
S.No.	Funding Agency	Opening Balance			Receipt	Total Receipt	Expend	Extd	Expenditure	Adjustments		Credit	Debit
		Credit	Debit							Credit	Debit		
1	Institute Research Grant	4,59,69,480.00			5,00,00,000.00	9,59,69,480.00			5,81,50,206.00			3,78,19,274.00	
2	Abbot health care pvt Ltd	6,64,416.00			6,64,416.00	6,64,416.00			-			6,64,416.00	
3	Abbot Laboratories GmbH	-		2,14,300.00	2,14,300.00	2,14,300.00	34,436.00		1,89,918.00			24,382.00	
4	Access Health International AP		(4,75,080.00)		(4,75,080.00)				-				(4,75,080.00)
5	Ace Pharmaceuticals BV NETHERLAND	15,116.00			15,116.00				-			15,116.00	
6	Actelion Pharmaceuticals Ltd Switzerland	-			-				-			-	
7	Aimil Pharmaceutical India Ltd		(331.00)		(331.00)				-				(331.00)
8	Ajinomoto Co.JAPAN	73,953.00			73,953.00	6,625.00		6,625.00				67,328.00	
9	Albert David Ltd	-			-				-			-	
10	American Academy of Paediatrics	6,18,818.00			6,18,818.00	99,592.00		99,592.00				5,19,226.00	
11	Angen Technology Private Limited	14,86,697.00			14,86,697.00				-			14,86,697.00	
12	Alkem Laboratories Ltd.	-		22,500.00	22,500.00	91,304.00	6,646.00	97,950.00					(75,450.00)
13	Antisense Pharma GmbH, GERMANY		(347.00)		(347.00)				-				(347.00)
14	AO spine india		(69,530.00)		(69,530.00)	15,456.00		15,456.00					(84,986.00)
15	AO spine international, hongkong		(7,17,898.00)		(7,17,898.00)				-				(7,17,898.00)
16	AO Spine International, USA	2,66,994.00			2,66,994.00				-			2,66,994.00	
17	AO Trauma Asia Pacific	4,78,621.00			4,78,621.00				-			4,78,621.00	
18	Appasamy Associates, Chennai	98,812.00			98,812.00	1,48,500.00	19,214.00	1,67,714.00				1,23,241.00	
19	Appothecaries PvtLtd	6,42,895.00			6,42,895.00	10,69,209.00		9,06,562.00				6,42,895.00	
20	Astra Seneca Singapore Pvt Ltd, Singapore		(41,952.00)		(41,952.00)				-			1,62,647.00	
21	Atomic Energy Regulatory Board	3,35,185.00			3,35,185.00				-			3,35,185.00	
22	Auxilium Technical & Management Services Pvt Ltd	400.00			400.00				-			400.00	
23	Avents Pharmaceuticals, USA	14,135.00			14,135.00				-			14,135.00	
24	BAARC	4,77,447.00			4,77,447.00				-			4,77,447.00	
25	Beijing Toshiba Pharmaceuticals Co Ltd	1,80,235.00			1,80,235.00				-			1,80,235.00	
26	Bharat Biotech International Ltd	12,241.00			12,241.00				-			12,241.00	
27	Bhart Serums and Vaccines Ltd		(10,000.00)		(10,000.00)	29,607.00	5,000.00	34,607.00					(44,607.00)
28	Bigtree private limited	1,21,510.00			1,21,510.00	2,91,200.00	30,000.00	3,21,200.00				1,00,310.00	
29	Bill & Melinda Gates Foundation, USA	13,04,624.00			13,04,624.00				-			13,04,624.00	
30	Bill & Melinda Gates Foundation, USA	13,54,992.00			13,54,992.00		61,187.00	61,187.00				12,93,805.00	
31	Brogen Idec Limited, UK	8,20,541.40		25,277.40	8,45,818.80	2,98,410.00		2,98,410.00				5,47,408.80	
32	Biomerieux India (P) Ltd	12,011.00			12,011.00				-			12,011.00	
33	Boehringer Ingelheim India Pvt Ltd	130.00	(1,91,168.00)		6,87,012.00	7,30,933.00	5,41,411.00	12,72,344.00					(5,85,332.00)
34	BONE & JOINT DECADE INDIA								-			130.00	
35	Brains Gate Ltd ISRAEL	132.00			132.00				-			132.00	
36	BRIDGES, USA	83,429.00			83,429.00				-			83,429.00	
37	Bristol Meyer Squibb India Pvt Ltd	6,40,689.60			6,40,689.60	2,73,236.00		2,73,236.00				3,67,453.60	
38	Bristol Myer Squibb (BMS), USA	12,65,831.00	(15,191.00)		12,65,831.00				-			12,65,831.00	(15,191.00)
39	BRITISH COUNCIL, UK	7,35,065.00			7,35,065.00	3,51,620.00	52,794.00	4,04,414.00				8,58,592.00	
40	British Heart Foundation, UK	3,41,87,380.00			3,41,87,380.00				-			3,41,87,380.00	
41	BRNS,Mumbai					11,88,445.00	1,62,000.00	13,50,445.00				33,233.00	
42	Candia Health care ltd	33,678.00			33,678.00				-				

S. No.	Funding Agency	Opening Balance		Receipt	Total Receipt	Expend	Estd	Expenditure	Adjustments		Credit	Debit
		Credit	Debit						Credit	Debit		
43	Cadila Pharmaceutical Ltd	99,666.00	(40,613.00)	10,20,779.00	11,20,445.00	8,26,789.00	1,02,078.00	9,28,867.00			1,91,578.00	(40,613.00)
44	Canadian Institutes of Health Research, Canada											
45	CANNeCTIN, Canada	80,186.00			80,186.00						80,186.00	
46	CCDC	67,55,614.00			67,55,614.00			9,23,901.00			58,31,713.00	
47	CD Pharma India Pvt Ltd	15,05,515.00			15,05,515.00						15,05,515.00	
	CANCER FOUNDATION	10,00,000.00			10,00,000.00							
48	CDAC	32,15,060.00			35,75,060.00	19,99,046.00	36,000.00	20,35,046.00			15,40,014.00	
49	Celfpra, French	12,66,992.00			24,98,497.00	9,74,772.00	1,23,150.00	10,97,922.00			14,00,575.00	
50	Centers for Disease Control, New Delhi	88,67,395.00			88,67,395.00		7,50,275.00	7,50,275.00			81,17,120.00	
51	Centocor Research & Development, USA	4,797.00			4,797.00						4,797.00	
52	Central Council for Research in Ayurveda & Siddha	2,30,364.00			2,30,364.00	4,47,640.00	1,28,500.00	5,76,140.00				(3,45,776.00)
53	Central Council for Research in Homocopathy (CCRH), Janak Puri, New Delhi.	4,24,730.00		13,12,720.00	17,37,450.00	11,54,052.00		11,54,052.00			5,83,398.00	
54	Central Council for Research in Unani Medicine	12,68,617.00		9,57,780.00	22,26,397.00	10,72,591.00	95,778.00	11,68,369.00			10,58,028.00	
55	Central Council for Research in Yoga And Naturopathy			1,76,414.00	(6,83,921.00)		17,642.00	17,642.00				(7,01,563.00)
56	Central Scientific Instruments Organisation	1,35,557.00			1,35,557.00						1,35,557.00	
57	Centre For Chronic Disease Control	5,22,361.00		1,65,06,927.00	1,71,19,288.00	1,56,48,349.00	4,885.00	1,56,53,234.00			14,66,054.00	
	Centers for Disease Control and Prevention (CDC), USA			3,89,35,744.00	3,89,35,744.00	2,13,48,617.00	63,16,656.00	2,76,65,273.00			1,12,70,471.00	
58	Centre For Disease Control, New Delhi	17,02,302.00		9,94,46,017.00	10,11,48,319.00	9,17,83,495.00		9,17,83,495.00			93,64,824.00	
59	Centre Franco-Indien Pour La Promotion De La Recherche Advance (CEFIPRA), France		(6,33,198.00)		(6,33,198.00)	1,20,543.00		1,20,543.00				(7,53,741.00)
60	Chank Pharma (P) Ltd	1,144.00			1,144.00						1,144.00	
61	Christian Medical collage vellore		(11,571.00)	25,05,380.00	22,93,809.00	8,30,938.00	2,30,538.00	10,61,476.00			12,32,333.00	
62	Christofel Bindemission (CBM) India	6,33,174.00		27,55,742.00	33,88,916.00	37,44,287.00	6,45,893.00	43,90,180.00				(10,01,264.00)
63	CLINCYTE, USA	665.00			665.00						665.00	
64	Clinical Marketing Pvt Ltd		(1,49,943.00)	2,00,000.00	50,057.00	2,93,849.00		2,93,849.00				(2,43,792.00)
65	Clingene International Pvt Ltd	11,44,531.00			11,44,531.00						11,44,531.00	
66	CLINIRx RESEARCH PVT LTD	71,079.00			71,079.00						71,079.00	
67	GURGAON, HARYANA	42,138.00			42,138.00						42,138.00	
68	Coloplast		(5,775.00)		(5,775.00)							(5,775.00)
69	CONARD, USA	591.00			591.00						591.00	
70	Conatee Sanyibb	2,328.00			2,328.00						2,328.00	
71	CORVENTIS, USA		(5,83,767.00)		(5,83,767.00)	28,980.00		28,980.00				(6,12,747.00)
72	CPWW, Jerusalem	6,534.00			6,534.00						6,534.00	
73	Critrium	16,211.00			16,211.00						16,211.00	
74	CSIR		(1,59,06,423.00)	35,14,190.00	(1,23,92,233.00)	86,88,711.00	3,500.00	86,92,211.00				(2,10,84,444.00)
75	CTC/ICDS	2,37,738.00			2,37,738.00						2,37,738.00	
76	Cuddles Foundation	1,23,539.00		7,82,062.00	9,05,601.00	6,59,105.00	78,205.00	7,37,310.00			1,68,291.00	(9,00)
	Cutting Edge Medical Devices Pvt Ltd, IIT Delhi			97,300.00	97,300.00	87,579.00	9,730.00	97,309.00				
77	Curehealth Diagnostic Pvt Ltd	9,24,972.00			9,24,972.00	9,18,054.00		9,18,054.00			6,918.00	

S.No.	Funding Agency	Opening Balance		Receipt	Total Receipt	Expend	Estd	Expenditure	Adjustments	
		Credit	Debit						Credit	Debit
78	Cystic Fibrosis/World Wide, USA	14,605.00			14,605.00					
79	Dabur Research & development Centre		(6,34,241.00)		(6,34,241.00)	10,568.00		10,568.00		14,605.00
80	Dabur Research Foundation	10,95,999.00			10,95,999.00					10,95,999.00
81	DANIDA RESEARCH COUNCIL	19.00			19.00					19.00
82	Delhi State Control Society/AIDS	23,40,96,019.00		17,92,77,048.00	41,33,73,067.00	20,08,68,704.00	1,86,44,484.00	21,95,13,188.00		19,42,93,559.00
83	DELHI TAPEDIK UNMULAN SAMITI		(1,67,481.00)	9,50,576.00	7,83,095.00	7,40,215.00		7,40,215.00		42,880.00
84	Department of CSIO, Chandigarh	10,824.00			10,824.00					10,824.00
85	Department of Health and Human Services	29,07,447.51	(1,35,557.00)		4,35,53,419.51					
86	Centers for disease control, USA			4,04,45,972.00		4,56,97,997.00	22,19,172.00	4,79,17,169.00		
87	Department of health Research	41,27,246.00			41,27,246.00		81,403.00	81,403.00		40,45,843.00
88	DEPT OF ELECTRONICS	14,18,506.00			14,18,506.00					14,18,506.00
89	Dept of Information Technology		(10,38,275.00)							
90	Dept of Pharmaceuticals	25,55,125.00			25,55,125.00	14,30,515.00		14,30,515.00		11,24,610.00
91	Dept Of woman & child Development	17,14,771.00		1,15,58,542.00	1,32,73,313.00	1,82,45,869.00	1,18,826.00	1,82,45,869.00		
92	DNDI Switzerland									
93	DEFENSE INSTT. OF PHY. & ALLIED SCIENCES (DIPAS)	42,184.00			42,184.00					42,184.00
94	DIGENE CORPORATION, USA		(57,267.00)							
95	Directorate General of Health Services	21,166.00		4,901.00	26,067.00	23,742.00		23,742.00		2,325.00
96	Donations/Grant									
97	Dr Reddys Lab Pvt Ltd	93,741.90		7,57,350.00	8,51,091.90	2,42,177.00	1,11,760.00	3,53,937.00		
98	DRDE(Gwalior)	8,55,954.00			8,55,954.00		4,93,600.00	4,93,600.00		3,62,354.00
99	DRDO	6,211.00		2,47,133.00	2,53,344.00	7,25,160.00		7,25,160.00		6,47,816.00
100	DST	10,82,09,788.00		14,69,08,869.00	25,51,18,657.00	17,15,91,637.00	88,63,421.00	18,04,55,058.00		7,46,63,599.00
101	Eli Lilly		(3,46,109.00)		(3,46,109.00)					
102	Emure Pharmaceutical Ltd		(6,380.00)							
103	EMMES Corporation, Maryland, USA	3,297.00			3,297.00					3,297.00
104	Endronic Society of India	85,500.00			85,500.00		500.00	500.00		85,000.00
105	European Commission	15,37,731.00			15,37,731.00	5,47,701.00	1,11,667.00	6,59,368.00		8,78,363.00
106	Federation of Obstetric & Gynaecological		(276.00)							
107	Flanentera AG, Switzerland	48,193.00			48,193.00					48,193.00
108	DNDI Switzerland			11,88,257.00	11,88,257.00					11,88,257.00
109	Fogarty International Centre, NIH, USA	5,807.00			5,807.00					5,807.00
110	Fondazione Angelo Bianchi Bonomi, Milan- Italy	1,06,888.00			1,06,888.00					1,06,888.00
111	Ford Foundation	4,58,594.00			4,58,594.00					4,58,594.00
112	FREEDOM TRIAL	86,253.00			86,253.00					86,253.00
113	Fermish Clinical Technologist Pvt Ltd	1,12,403.00		11,45,000.00	1,12,403.00	5,66,320.00		5,66,320.00		
114	Fulford India Ltd	61,520.00		1,35,000.00	1,96,520.00	2,09,489.00	13,500.00	2,22,989.00		1,12,403.00
115	George Institute for Global Health, India									
116	GILEAD Sciences, Inc., California	5,46,156.00		8,76,870.00	14,23,026.00	1,79,620.00	36,829.00	2,16,449.00		12,06,577.00
117	Glaxo India Ltd	2,17,377.00			2,17,377.00					2,17,377.00
118	GlaxoSmith Kline	3,60,619.69			3,60,619.69	54,910.00		54,910.00		3,05,709.69
119	GlaxoSmith Kline Asia Private Ltd	3,642.00			3,642.00					3,642.00
120	Genclife Clinical Research Pvt Ltd.			1,00,000.00	1,00,000.00	1,13,489.00	14,000.00	1,27,489.00		

S.No.	Funding Agency	Opening Balance		Receipt	Total Receipt	Expend	Estd	Expenditure	Adjustments		Debit
		Credit	Debit						Credit	Debit	
117	Global Cancer Concern India	3,647.00			3,647.00						3,647.00
118	GW Pharma Ltd UK	9,381.00			9,381.00						9,381.00
119	Hamilton Health Sciences & McMaster University, Canada		(9,42,920.00)		(9,42,920.00)						(9,42,920.00)
120	Hamilton Health Sciences Corporation, Canada	9,16,245.00			9,16,245.00						9,16,245.00
121	Helpege India		(2,84,978.00)		(2,84,978.00)						(2,84,978.00)
122	Himalaya Drug Co	13,66,236.00			13,66,236.00						13,66,236.00
123	Hindustan Latex Family Planning Promotion		(1,38,013.00)		(1,38,013.00)						(1,38,013.00)
124	Hindustan Latex Limited	8,55,443.00		9,35,000.00	17,90,443.00	3,46,950.00		3,46,950.00			14,43,493.00
125	Horiba India Pvt Ltd		(1,51,949.00)		(1,51,949.00)						(1,51,949.00)
126	IADVL	2,33,691.00			2,33,691.00	1,45,014.00		1,45,014.00			88,677.00
127	ICCSR		(74,861.00)		(74,861.00)						(74,861.00)
128	ICGE&B	6,13,494.00			6,13,494.00						6,13,494.00
129	ICMR	7,73,65,163.00		29,41,95,691.00	37,15,60,854.00	17,44,87,669.82	1,32,69,857.00	18,77,57,526.82			18,38,03,327.18
130	IADR, U.S.A.			34,04,197.00	34,04,197.00	5,99,760.00	2,58,181.00	8,57,941.00			25,46,256.00
131	ICSSR		(79,411.00)		(79,411.00)						(79,411.00)
132	Imperial Life Sciences(P) Ltd	66,552.00			66,552.00						66,552.00
133	INCLEN	75,96,440.00		85,34,440.00	1,61,30,880.00	68,94,946.00	8,53,444.00	77,48,390.00			83,82,490.00
134	INCLN & USAID	24.00			24.00						24.00
135	INCTR USA		(99,699.00)		(99,699.00)						(99,699.00)
136	India Medtronic Pvt Ltd	7,95,773.00		11,90,629.00	19,86,402.00	4,27,564.00	1,74,516.00	6,02,080.00			13,84,322.00
137	Indian Council of Agriculture Research	2,69,843.00		6,99,652.00	9,69,495.00	2,99,926.00	80,421.00	3,80,347.00			5,89,148.00
138	Indian council of Philosophical Research		(1,76,320.00)		(1,76,320.00)						(1,76,320.00)
139	Indian Heart Rhythm Society	2,560.00			2,560.00						2,560.00
140	Indian Institute of public health, Hyderabad	29,40,158.00			29,40,158.00	25,25,142.00		25,25,142.00			4,15,016.00
141	Indian Institute of Technology		(2,57,018.00)		(2,57,018.00)						(2,57,018.00)
142	Indian Society for bone & Mineral Research		(60,000.00)		(60,000.00)						(60,000.00)
143	Indo-French Centre for the Promotion of Advanced Research			4,83,865.00	4,83,865.00		40,826.00	40,826.00			4,43,039.00
144	Indo German Science & Technology centre	45,70,719.00		8,33,000.00	54,03,719.00	8,64,487.00	41,650.00	9,06,137.00			44,97,582.00
145	INDO-US Science & Technology Forum	7,49,033.00			7,49,033.00						7,49,033.00
146	INMAS (DRDO)	1,41,666.00			1,41,666.00						1,41,666.00
147	INSA	4,09,651.00	(8,45,842.00)	8,50,000.00	4,155.00	8,31,704.00	42,500.00	8,74,204.00			(8,70,046.00)
148	Institute De Recherches Internationales Servier (IRIS), France		(2,034.00)	4,60,000.00	8,69,651.00	4,81,418.00	46,000.00	5,27,418.00			3,42,233.00
149	Institute of Cancer Research UK coordination Committee		(7,209.00)		(7,209.00)						(7,209.00)
150	Institute of Genomics & Integrative Biology	28,94,528.00			28,94,528.00	10,11,944.00		10,11,944.00			18,82,584.00
151	Innas BIOPHARMACEUTICALS Ltd		(50,063.00)		(50,063.00)						(50,063.00)
152	International Union Against Tuberculosis and Lung Diseases	17,975.00			17,975.00						17,975.00
153	International Atomic Energy Agency	5,92,048.00		16,46,940.00	13,98,458.00	16,26,242.00	1,79,089.00	18,05,331.00			(4,06,873.00)

S.No.	Funding Agency	Opening Balance		Receipt	Total Receipt	Expend	Estd	Expenditure	Adjustments		Credit	Debit
		Credit	Debit						Credit	Debit		
155	International Paediatrics Nephrology Association	4,62,959.00			4,62,959.00						4,62,959.00	
156	International Union Against Cancer (IJC)	95,273.00			95,273.00						95,273.00	
157	Inovetus Oncology	5,97,420.00		5,92,416.00	11,89,836.00	9,68,703.00	1,33,155.00	11,01,858.00			87,978.00	
158	Ipea laboratories		(3,12,661.00)		(3,12,661.00)	5,38,628.00	65,765.00	6,04,393.00				(9,17,054.00)
159	ISHIM	9,17,681.00		31,44,130.00	40,61,811.00	32,61,730.00	1,64,413.00	34,26,143.00			6,35,668.00	
160	JIV DAYA FOUNDATION		(4,43,110.50)	9,31,136.00	4,88,025.50	20,91,314.00	2,20,577.00	23,11,891.00			2,60,845.00	(18,23,865.50)
161	JOHN HOPKINS BLOOMBERG SCHOOL OF PUBLIC HEALTH (JHBSPH)	2,60,845.00			2,60,845.00							
	Janssen			3,90,000.00	3,90,000.00	4,20,016.00	39,000.00	4,59,016.00				(69,016.00)
	JSS Medical Research India Pvt Ltd.			1,97,878.00	1,97,878.00	2,73,147.00	27,287.00	3,00,434.00				(1,02,556.00)
162	Johnson & Johnson	3,07,681.31			3,07,681.31	1,92,384.00	10,055.00	2,02,439.00			1,05,242.31	
163	KHANDEWAL LABORATORIES LTD	805.00			805.00						805.00	
164	KLPF USA	16,473.00			16,473.00						16,473.00	
165	KOBE JAPAN	10,221.00			10,221.00						10,221.00	
166	Lab India Healthcare	7,61,768.00			7,61,768.00	4,88,183.00		4,88,183.00			2,73,585.00	
167	Lady Tata Memorial Trust	2,54,181.00		8,00,000.00	10,54,181.00	10,31,386.00	8,000.00	10,39,386.00			14,795.00	
169	Lajolla Pharmaceutical Company, California	487.00			487.00						487.00	
170	Lambda Therapeutic Research Ltd	5,88,904.00		2,16,142.00	8,05,046.00	1,91,254.00	21,614.00	2,12,868.00			5,92,178.00	
171	Lebara Foundation	8,01,753.00		15,98,954.00	24,00,707.00	20,44,276.00	1,16,695.00	21,60,971.00			2,39,736.00	(668.00)
172	LG Chemicals India Pvt Ltd		(668.00)		(668.00)							
173	LG Life Sciences India Pvt Ltd	4,19,863.00			4,19,863.00						4,19,863.00	
174	Liver Foundation	2,10,221.00			2,10,221.00	54,234.00		54,234.00			1,55,987.00	
175	London School of Hygiene & Tropical Medicine, UK	1,46,225.00			1,46,225.00						1,46,225.00	
176	Lupin Limited	18,386.00			18,386.00		1,56,222.00	1,56,222.00				(1,37,836.00)
177	M/s ARCHIMEDES DEVELOPMENT LTD. UK	47,204.00			47,204.00						47,204.00	
178	M/S ASPREVA PHARMACEUTICAL CORPORATION, CANADA		(41,266.00)		(41,266.00)							(41,266.00)
179	M/s Gilead Sciences Inc USA	74,33,384.00		21,41,919.00	95,75,303.00	18,78,859.00	1,50,689.00	20,29,548.00			75,45,755.00	
180	M/s janacare solution Pvt Ltd		(4,41,382.00)		(4,41,382.00)	1,16,908.00		1,16,908.00				(5,58,290.00)
181	M/S Mankans Research Division		(4,745.00)		(4,745.00)							(4,745.00)
182	M/s Merck Sharp & Dohme Corp, USA	60,589.00			60,589.00	3,861.00		3,861.00			56,728.00	
183	M/s Merck Sharp & Dohme Corporation USA		(13,54,464.00)		(13,54,464.00)							(13,54,464.00)
184	Macleods Pharmaceutical Ltd	18.00			18.00						18.00	
185	Maharishi Ayurveda		(6,352.00)		(6,352.00)							(6,352.00)
186	Max Neeman International	9,93,796.00			9,93,796.00						9,93,796.00	
187	MBI Ktis	8,867.00			8,867.00						8,867.00	
188	McMaster University, Canada	2,36,541.00		34,22,918.00	36,59,459.00	10,32,914.00	2,08,260.00	12,41,174.00			24,18,285.00	
189	Media Lab Asia		(11,301.00)		(11,301.00)							(11,301.00)
190	Medpace	90,001.00			90,001.00	1,13,144.00		1,13,144.00				(23,143.00)
191	Medtronic India Pvt Ltd	35,122.00		1,79,550.00	2,14,672.00	74,530.00	17,955.00	92,505.00			1,22,167.00	
192	Merck Pharmaceuticals Ltd		(4,29,945.00)		(4,29,945.00)							(4,29,945.00)

S.No.	Funding Agency	Opening Balance		Receipt	Total Receipt	Expend	Estid	Expenditure	Adjustments		Debit
		Credit	Debit						Credit	Debit	
193	MERCK SERONO INTERNATIONAL SA, SWITZERLAND	2,17,685.00			2,17,685.00						2,17,685.00
194	Merck Life Sciences Pvt Ltd	1,96,202.00			1,96,202.00						1,96,202.00
195	MERK & CO, INC USA	7,74,337.80		45,314.00	7,74,337.80	45,314.00					7,29,223.80
196	Merz Pharmaceuticals GmbH, Germany		(67,291.00)		(67,291.00)						(67,291.00)
197	Metrohm India Ltd			12,18,667.00	12,18,667.00	11,60,190.00	1,21,867.00	12,82,057.00			(63,390.00)
198	Ministry of Chemical and petrochemicals		(14,820.00)		(14,820.00)						(14,820.00)
198	Ministry of Communication and Information& Technology	74,59,293.00			74,59,293.00	46,82,912.00		46,82,912.00			27,76,381.00
199	Ministry of Defence (DRDO)	65,850.00			65,850.00						65,850.00
200	Ministry of Earth Science	1,84,977.00			1,84,977.00						1,84,977.00
201	Ministry of Environment & Forest		(42,383.00)		(42,383.00)						(42,383.00)
203	Ministry of Health And Family Welfare(SACO)	1,97,241.00		91,08,517.00	93,05,758.00	99,42,347.00	3,19,693.00	1,02,62,040.00			(9,56,282.00)
204	Ministry of Health and Family Welfare& Ayush	5,60,526.00		6,98,10,637.00	7,03,71,163.00	4,36,85,822.31	25,06,359.00	4,61,92,181.31			2,41,78,981.69
204	Ministry of Health and Family (Ayush) DHR			18,69,944.00	18,69,944.00	17,22,085.00	93,497.00	18,15,582.00			54,362.00
205	Ministry of Social Justice and Empowerment		(91,920.00)	2,01,00,000.00	2,00,08,080.00	1,41,36,306.00	1,05,000.00	1,42,41,306.00			57,66,774.00
207	Ministry Of Home Affair			1,08,54,409.00	1,08,54,409.00	28,33,949.00	5,42,720.00	33,76,669.00			74,77,740.00
207	Morphotek Inc USA	98,823.58			98,823.58						98,823.58
208	MSD (India) Pvt Ltd	2,36,463.00			2,36,463.00						2,36,463.00
209	Nag foundation, pune	4,50,000.00			4,50,000.00	1,07,862.00		1,07,862.00			3,42,138.00
210	NAIP		(59,810.00)		(59,810.00)						(59,810.00)
211	NAMIS		(2,31,005.00)	10,477.00	(2,20,528.00)	10,477.00		10,477.00			(2,31,005.00)
212	National disaster management authority	40,20,350.00			40,20,350.00						40,20,350.00
213	NATCO Pharma India	1,10,079.00			1,10,079.00						1,10,079.00
213	National Cancer Grid Research	19,20,475.00			19,20,475.00	22,50,625.00	1,92,047.00	24,42,672.00			(5,22,197.00)
214	National AIDS Control Organisation		(3,17,579.00)		(3,17,579.00)						(3,17,579.00)
215	National Commission for Protection of Child Rights		-302.00	9,40,142.00	9,09,942.00		20,019.00	20,019.00			8,89,923.00
216	National Commission for protection of child Rights		(4,94,450.00)		(4,94,450.00)						(4,94,450.00)
217	National Health and Medical Research Council, Australia	5,46,326.00			5,46,326.00	14,326.00		14,326.00			5,32,000.00
218	National Information Centre	47,745.00			47,745.00						47,745.00
219	National Innovation Foundation			6,50,000.00	6,50,000.00	1,27,002.00	65,000.00	1,92,002.00			4,57,998.00
220	NATIONAL INSTITUTE OF HEALTH, USA	1,30,80,038.00		2,61,30,305.00	3,92,10,343.00	1,19,13,244.00	18,58,241.00	1,37,71,485.00			2,54,38,858.00
221	NATIONAL INSTITUTE OF Mental HEALTH, NIH USA	8,66,792.00		21,03,267.00	29,70,059.00	24,28,009.00	1,05,163.00	25,33,172.00			4,36,887.00
222	National Institute of Nutrition (NIN) Hyderabad	109.00			109.00						109.00
223	National Institute of pharmaceutical Education & Research	12,439.00			12,439.00						12,439.00
224	National Knowledge Commission	3,31,672.00			3,31,672.00						3,31,672.00
224	National Commission for Protection of Child Rights			1,19,794.00	1,19,794.00			1,19,794.00			(1,19,794.00)
225	National Perinatal Epidemiology Unit, University of Oxford, UK	5,94,035.55			5,94,035.55	35,650.00		35,650.00			5,58,385.55
226	National Thalassemia Welfare Society		(1,781.00)		(1,781.00)						(1,781.00)

S.No.	Funding Agency	Opening Balance		Receipt	Total Receipt	Expend	Estid	Expenditure		Adjustments	
		Credit	Debit					Expenditure	Debit	Credit	Debit
227	NCBIR	88,708.00		88,708.00	88,708.00		8,871.00	8,871.00		79,837.00	
228	NC Pvt Ltd	37,117.00		37,117.00	37,117.00					37,117.00	
229	NCT	33,584.00		33,584.00	33,584.00					33,584.00	
230	Nceman Medical International Asia Ltd	2,37,385.00		2,37,385.00	2,37,385.00					2,37,385.00	
231	Newron Pharmaceuticals S.P.A.		(717.00)	9,41,400.00	9,41,400.00	6,92,742.00	94,140.00	7,86,882.00		1,54,318.00	(717.00)
232	Newcastle University, UK	4,70,610.00		5,00,000.00	9,70,610.00	5,49,267.00	59,900.00	6,09,167.00		3,61,443.00	
233	Next Gen Invitro Diagnostics Pvt Ltd.	15,58,15,254.77		15,00,000.00	15,00,000.00	8,49,233.00	1,50,000.00	9,99,233.00		5,00,767.00	
234	NIE	74,78,730.00		7,26,74,289.00	22,84,89,543.77	2,32,58,400.00		2,32,58,400.00		20,52,31,143.77	
235	NIPER, New Delhi 110001	7,88,247.00		44,87,419.00	74,78,730.00	8,59,731.00		8,59,731.00		66,18,999.00	
236	Nova Nordisk India Pvt Ltd	54,353.69			52,75,666.00	23,69,501.00	4,10,061.00	27,79,562.00		24,96,104.00	
237	NovaBay Pharmaceuticals Inc, USA	57,8014.25		1,74,150.00	54,353.69					54,353.69	
238	Novartis Health Care Pvt Ltd	1,52,007.25		9,52,177.00	7,52,164.25	3,51,218.00	31,455.00	3,82,673.00		3,69,491.25	
239	Novartis India Ltd	11,20,586.12		10,18,937.10	11,04,184.25	64,710.00	2,33,684.00	2,98,394.00		8,05,790.25	
240	Novartis (Security Deposit)	29,510.00			21,39,523.22	18,91,025.00	3,217.00	18,94,242.00		2,45,281.22	
241	NSD (Security Deposit)	29,73,194.00			29,510.00					29,510.00	
242	Office of Science & Technology officer of naval research govt, USA	13,13,697.00			13,13,697.00	3,25,000.00		3,25,000.00		9,88,697.00	
243	Ovation Pharmaceuticals, USA	37,222.00			37,222.00					37,222.00	
244	Overseas associates	190.00			190.00					190.00	
245	Oxford University, UK	(14,630.75)			(14,630.75)	3,512.00		3,512.00			(18,142.75)
246	OXIGENE, USA	2,15,126.84			2,15,126.84					2,15,126.84	
247	Ozone pharmaceuticals ltd	239.00			239.00					239.00	
248	Panacea biotech Ltd	8,084.00			8,084.00					8,084.00	
249	Parexel International Clinical Research Pvt Ltd	3,65,75.00		3,60,252.00	3,96,827.00	2,50,733.00	71,279.00	3,22,012.00		74,815.00	
250	PARIXEL INTERNATIONAL LTD, UK	10,94,185.27			10,94,185.27	2,03,355.00	9,201.00	2,12,554.00		8,81,631.27	
251	Path/One world Health	(34,429.00)		6,33,029.00	5,98,600.00	6,71,740.00	31,402.00	7,03,142.00			(1,04,542.00)
252	Peregrine Pharmaceuticals, USA	(26,577.00)			(26,577.00)						(26,577.00)
253	Pfizer Ltd	1,270.35		5,32,360.00	5,32,630.35	22,83,988.00	53,136.00	23,37,124.00		837.00	(18,04,493.65)
254	Pharmacia India Pvt Ltd	837.00			837.00					837.00	
255	Pharmacosmos A/S, Denmark		(900.00)		(900.00)						(900.00)
256	PHARM-OLAM INTERNATIONAL, LTD	16,923.00			16,923.00					16,923.00	
257	PHI	28,74,806.00		8,04,202.00	36,79,008.00	25,62,327.00	42,622.00	26,04,949.00		10,74,059.00	
258	Phonexin Cardic	25,374.00			25,374.00	17,613.00		17,613.00		7,761.00	
259	PHRI, ONTARIO CANADA	8,52,671.00		27,61,204.00	36,13,875.00	15,83,142.00	4,55,314.00	20,38,456.00		15,75,419.00	
260	Piramal Healthcare Ltd	2,10,987.00			2,10,987.00					2,10,987.00	
261	Piramal Life Sciences	36,211.00			36,211.00					36,211.00	
262	PPD Pharmaceutical Development India Pvt Ltd		(22,668.00)	1,64,291.28	1,41,623.28	2,73,587.00	3,14,155.00	5,87,742.00			(4,46,118.72)
263	PRA India Pvt Ltd										
264	QED PHARMACEUTICAL SERVICES PVT LTD	5,77,043.00			5,77,043.00					5,77,043.00	
265	Qigen Inc,India	3,709.00			3,709.00					3,709.00	
266	Quintiles Spectral India	28,31,950.46		1,73,463.10	30,05,413.56	95,004.00	5,372.00	1,00,376.00		29,05,037.56	
267	Rajiv Gandhi Foundation		(989.00)		(989.00)						(989.00)
	Rajiv Gandhi Cancer Institute and Research Centre			19,800.00	19,800.00	4,644.00	1,980.00	6,624.00		13,176.00	

S.No.	Funding Agency	Opening Balance		Receipt	Total Receipt	Expend	Estd	Adjustments		Debit
		Credit	Debit					Expenditure	Credit	
268	Ranbaxy/Eli Lilly & company pvt Ltd	18,51,900.00		-	18,51,900.00	18,438.00				18,33,462.00
269	Rapin Research Ltd	2,84,097.00			2,84,097.00	97,125.00				1,86,972.00
271	Reliance Clinical Research Services (P) Ltd	-	0		-					-
272	Reliance Clinical Research Services (P) Ltd	5,66,593.50			5,66,593.50					5,66,593.50
273	ReliSys Medical Devices Ltd		(3,433.00)		(3,433.00)					(3,433.00)
274	Revolving Funds for Drugs / SNMC	1,95,710.00			1,95,710.00					1,95,710.00
275	ROCHE Products(India) Pvt Ltd	1,68,443.00			1,68,443.00					1,68,443.00
276	Russan Pharma Ltd Mumbai	4,33,750.00			4,33,750.00					4,33,750.00
277	REC Power distribution company Ltd.	12,35,827.00		24,96,620.00	37,32,447.00	21,47,089.00	1,87,246.00			13,98,112.00
278	Sanat Product Ltd		(77,996.00)		(77,996.00)					(77,996.00)
279	Sanofi Pasteur India Pvt Ltd	1,23,346.00			1,23,346.00					1,23,346.00
280	SANOFF-AVENTIS	35,743.00			35,743.00					35,743.00
281	Saabhaji Chemicals		(4,868.00)		(4,868.00)					(4,868.00)
282	Saver Biotech Limited	1,57,206.00		5,00,000.00	6,57,206.00	3,84,083.00	50,000.00			2,23,123.00
283	SAVING NEWBORN LIVES, USA		(10,898.00)		(10,898.00)					(10,898.00)
284	SCA Global hygien products india pvt Ltd	1,38,652.00			1,38,652.00					1,38,652.00
285	SERICARE		(1,82,191.00)		(1,82,191.00)					(1,82,191.00)
286	Shama Biotech Pvt Ltd	1,05,562.00			1,05,562.00	15,610.00				89,952.00
287	Shastri Indo-Canadian Institute	2,08,570.00			2,08,570.00	2,05,283.00				3,287.00
288	Shire Human Genetic Therapies, Inc, USA	11,14,905.40			11,14,905.40					11,14,905.40
289	Siemens Ltd	3,19,552.00			3,19,552.00	1,10,755.00				2,08,797.00
290	Sight savers	9,974.00		57,95,702.00	58,05,676.00	48,66,449.00	6,94,299.00			2,44,928.00
291	Singapore Clinical Research Institute, Singapore	2,34,165.00		4,44,829.00	6,78,994.00	10,00,408.00	1,10,251.00			11,10,659.00
292	Sinopharm India Pvt Ltd		(35,171.00)		(35,171.00)	1,74,103.00	22,372.00			27,241.00
293	SMB Corporation of India		(26,623.00)		(26,623.00)	20,000.00				(35,171.00)
294	Smith & Nephew Health care pvt lt	5,443.00			5,443.00					5,443.00
295	Society of American Gastrointestinal and Endoscopic Surgeons	7,001.00			7,001.00					7,001.00
296	Solumix Herbaceuticals Limited	13.00			13.00					13.00
297	Solvey Pharma Ltd	13,465.00			13,465.00					13,465.00
298	SIRB-Clinical Pharmacology		(31,54,100.00)		(31,54,100.00)					(31,54,100.00)
299	St.John Medical College Bangalore		-		-					-
300	St Jude Medical Hong Kong		(5,014.00)		(5,014.00)					(5,014.00)
301	ST Jude Medical India Pvt Ltd	1,88,717.00			1,88,717.00	2,02,498.00				(13,781.00)
302	Stempeutics Research Pvt Ltd	331.00		96,000.00	96,331.00					96,331.00
303	Sterling Synergy System (P) Ltd	58,580.00			58,580.00					58,580.00
304	Sun Pharmaceuticals	3,384.00			3,384.00					3,384.00
305	Svami Sivananda Memorial Institute	6,00,000.00			6,00,000.00	5,10,360.00	1,00,000.00			(10,360.00)
306	Synergy Network India Pvt Ltd.	551.00			551.00	27,612.00				(27,061.00)
307	Texas A&M Research Foundation (TAMRF) USA	16,237.00			16,237.00					16,237.00
308	The Cancer Foundation	44,245.00			44,245.00					44,245.00
309	The Energy and Resources Institute	7,775.00			7,775.00					7,775.00

S.No.	Funding Agency	Opening Balance		Receipt	Total Receipt	Expend	Estd	Expenditure	Adjustments		Debit
		Credit	Debit						Credit	Debit	
310	The George Institute for International Health, Australia	6,27,400.32			6,27,400.32	3,98,942.00		3,98,942.00			2,28,458.32
311	The International Society for Paediatric Neurosurgery (ISPNE)	408.00			408.00						408.00
312	The Media Lab Asia	98,442.00			98,442.00						98,442.00
313	The Medical Research Council, UK	3,592.00			3,592.00						3,592.00
314	THE MICRONUTRIENT INITIATIVE, ASIA		(4,702.00)		(4,702.00)						(4,702.00)
315	The Service de Dermatologie, France		(8,445.00)		(8,445.00)						(8,445.00)
316	The University of Alabama, USA		(27,29,270.00)		(27,29,270.00)						(27,29,270.00)
317	The University of Edinburgh and NHS Lothian	14,581.00			14,581.00	85,850.00		85,850.00			(71,269.00)
				15,59,579.00	15,59,579.00	9,12,905.00	1,80,509.00	10,93,414.00			4,66,165.00
				5,10,000.00	5,10,000.00	3,63,567.00	51,000.00	4,14,567.00			95,433.00
318	The Indian Ashlma Care Society THRESHOLD PHARMACEUTICALS, USA		(3,136.00)		(3,136.00)						(3,136.00)
319	Torrent Pharmaceutical Ltd	7,41,877.00		15,83,333.00	23,25,210.00	71,397.00	2,39,950.00	3,11,347.00			20,13,863.00
320	Troika Pharmaceutical Ltd	50,393.00		34,650.00	85,043.00						85,043.00
322	UGC		(20,38,492.00)	2,60,981.00	(17,77,511.00)	97,704.00		97,704.00			(18,75,215.00)
323	Unique Biotech Ltd			10,00,000.00	10,00,000.00	9,70,780.00	3,07,811.00	12,78,591.00			(2,78,591.00)
	UN international Drug and crime Control Programme	53,106.00			53,106.00						53,106.00
324	UNICEF	36,388.88			36,388.88	14,20,949.00		14,20,949.00			(13,84,560.12)
325	Universitair Ziekenhuis Antwerpen (UZAZ), Belgium	1,69,410.00		3,17,236.00	4,86,646.00	2,48,345.00	31,724.00	2,80,069.00			2,06,577.00
326	University of Bergen, Norway	3,69,203.00			3,69,203.00						3,69,203.00
327	UNIVERSITY OF CALGARY, CANADA	57,187.00			57,187.00						57,187.00
328	University of California San Francisco	207.00		62,029.00	62,236.00	57,546.00	6,202.00	63,748.00			(1,512.00)
329	University of Maryland	90,282.00			90,282.00						90,282.00
330	University of Nottingham, UK	1,974.00			1,974.00						1,974.00
331	University of Warwick UK		(1,061.00)	14,08,388.00	14,07,327.00	7,80,738.00	6,26,589.00	14,07,327.00			
332	UNM HSC	69,092.00			69,092.00	63,543.00		63,543.00			5,549.00
333	Unique Biotech Ltd	3,31,917.00		30,78,110.00	34,10,027.00	19,98,783.00	1,00,000.00	20,98,783.00			13,11,244.00
334	US Science & Technology Forum, USA	3,99,323.00			3,99,323.00						3,99,323.00
335	Venus Remedies Ltd	14,330.00			14,330.00						14,330.00
	Veece Biopharma LLC			1,43,028.00	1,43,028.00						1,43,028.00
336	Vulimmi Ramalingaswami Foundation	1,62,000.00			1,62,000.00						1,62,000.00
337	Vulimmi Ramalingaswami Foundation		(6,508.00)		(6,508.00)						(6,508.00)
338	Wyome Bioscience Pvt Ltd	57,595.00			57,595.00	47,047.00		47,047.00			10,548.00
339	Walter Bushnell	2,21,114.00			2,21,114.00	1,57,770.00		1,57,770.00			63,344.00
340	Welcome Trust London, UK	29,47,417.00		66,98,444.25	96,45,861.25	66,44,991.00	6,63,565.00	73,08,556.00			23,37,305.25
341	WHO	1,84,79,012.25		79,29,590.87	2,64,08,603.12	61,06,050.00	1,60,190.00	62,66,240.00			2,01,42,363.12
342	Woelkhardt, Mumbai	11,76,899.00			11,76,899.00						11,76,899.00
343	Wyeth Pharmaceuticals Inc		(5,38,244.00)		(5,38,244.00)						(5,38,244.00)
	WPPICCS			6,28,400.00	6,28,400.00	4,43,935.67	62,840.00	5,06,775.67			1,21,624.33
344	Zenotech	32,037.00			32,037.00						32,037.00
345	Zimmer India Pvt Ltd	81,593.00			81,593.00						81,593.00
346	Zvventus	1,46,250.00			1,46,250.00						1,46,250.00
347	Zydus Healthcare Ltd		(398.00)		(398.00)						(398.00)

S.No.	Funding Agency	Opening Balance		Receipt	Total Receipt	Expend	Estd	Expenditure	Adjustments		Credit	Debit
		Credit	Debit						Credit	Debit		
		74,16,18,188.69	(3,97,42,163.25)	1,20,65,16,487.00	2,00,97,11,475.44	1,02,63,41,242.80	6,95,84,159.00	1,09,59,25,401.80	-	-	97,70,41,773.97	(6,32,55,700.32)
	TOTAL											

ACCOUNT OFFICER
Research Section

13.2. Audit Report

Separate Audit Report of the Comptroller & Auditor General of India on the Accounts of All India Institute of Medical Sciences (AIIMS), New Delhi for the year ended 31 March 2018

1. We have audited the attached Balance Sheet of All India Institute of Medical Sciences (AIIMS), New Delhi, as at 31 March 2018, the Income & Expenditure Account and Receipts & Payments Account for the year ended on that date under Section 19 (2) of the Comptroller and Auditor General's (Duties, Powers & Conditions of Service) Act, 1971 read with section 18 (2) of the AIIMS Act, 1956. These financial statements are the responsibility of the AIIMS management. Our responsibility is to express an opinion on these financial statements based on our audit.
2. This Separate Audit Report contains the comments of the Comptroller and Auditor General (CAG) of India on the accounting treatment only with regard to classification, conformity with the best accounting practices, accounting standards and disclosure norms, etc. Audit observations on financial transactions with regard to compliance with the Law, Rules & Regulations (Propriety and Regularity) and efficiency-cum-performance aspects, etc., if any, are reported through Inspection Reports/ CAG's Audit Reports separately.
3. We have conducted our audit in accordance with auditing standards generally accepted in India. These standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatements. An audit includes examining, on a test basis, evidences supporting the amounts and disclosure in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management as well as evaluating the overall presentation of financial statements. We believe that our audit provides a reasonable basis for our opinion.
4. Based on our audit, we report that:
 - i. We have obtained all the information and explanations, which to the best of our knowledge and belief were necessary for the purpose of our audit;
 - ii. The Balance Sheet, Income & Expenditure Account and Receipts & Payments Account dealt with by this report have been drawn up in the uniform format of accounts approved by the Ministry of Finance, Government of India.
 - iii. In our opinion, proper books of accounts on double entry system of accounting and other relevant records have been maintained by the AIIMS in so far as it appears from our examination of such books.
 - iv. We further report that:

A Liabilities

A.1 Current Liabilities and Provisions

A.1.1 AIIMS (Main) (Schedule 7-A) - ₹225.69 crore

The above includes an amount of ₹20.81 crore received for specific purpose which should be shown under Earmarked Fund (Schedule-3). This has resulted in overstatement of Current Liabilities as well as understatement of Earmarked Fund by ₹20.81 crore.

A.1.2 Centre for Dental Education & Research (CDER) (Schedule 7-A) - ₹1.20 crore

There was an opening balance of ₹33.48 lakh on account of "Amount to be reimbursed to AIIMS Main" under Current Liabilities and Provisions. CDER remitted the amount during 2017-18 but did not show the payment in Schedule-7 (Current Liabilities and Provisions) and depicted the amount as expenditure under the head 'Repair & Maintenance' in Schedule-21-Other Administrative Expenses. This has resulted in overstatement of both Liability as well as Other Administrative Expenses by like amount.

B. Receipt & Payment Account

B.1 J.P.N. Apex Trauma Centre (JPNATC)

Liabilities of ₹98.30 lakh and ₹30.78 lakh on account of Machinery & Equipments (M&E) and Engineering respectively were wrongly shown in receipt and payment sides of Receipt & Payment Account of the Centre. This resulted in overstatement of both receipts and payments by like amount.

C. General

C.1 In Schedule 8 – 'Fixed Assets', of the annual accounts of the AIIMS (Main) and other Centre of the Institute disclosed assets valued at ₹4431.87 crore as on 31 March 2018. However, an Assets Register required to be maintained in Form

GFR-22 under General Financial Rules 2017 was not maintained by the Institute. In the absence of Assets Register, the value of assets could not be verified in audit.

C.2 As on 31.03.2018, there were huge un-reconciled balances in the bank pertaining to AIIMS (Main) and other Centers as detailed below:

(Amount in ₹)

S.No.	Name of unit	Particulars	Amount
1	AIIMS (Main)	Excess debited by Bank	3989938
		Cheques deposited but not credited by Bank	138623244
		Excess Credit given by Bank	6796825
2	CNC	Excess debited by Bank	149360918
		Cheques deposited but not credited by Bank	1025681
		RTGS returned back to A/c	20673622
		Excess Credit given by Bank	113830941
3	RPC	Cheques deposited but not credited by Bank	455572
		Unknown credits raised by bank (+ figures)	2112332
		Unknown debits raised by bank (- figures)	36880481
4	BRAIRCH	Cheque deposited but not cleared	1000
5	JPNATC	Cheques not deposited but amount credited by bank	789386
6	NDDTC	Cheque deposited but credit not given	60000000
		Debit given by bank	5309493

The matter should be taken with bank to reconcile the differences promptly.

C.3 As required under Rule 47 of Receipt & Payment Rules, a cheque remaining unpaid for any cause, six months after the month of its issue and not surrendered for renewal should be cancelled and its amount should also be written back in the accounts. Scrutiny revealed that 3215 number of outstanding cheques/RTGS amounting to ₹17.23 crore, remained unpaid for six months after the month of its issue and not surrendered for renewal as on 31.03.2018, were neither cancelled nor were their amounts written back in the accounts. Details are given below:

S.No.	Name of unit	No of cheques/RTGS outstanding	Amount (in lakh)
1	AIIMS (Main)	1932	1264.99
2	CNC	1013	367.96
3	RPC	80	27.67
4	JPNATC	59	24.52
5	NDDTC	131	38.01
Total		3215	1723.15

This has resulted in understatement of Bank balances and Current Liabilities by ₹17.23 crore each.

C.4 Grant for ₹3.22 lakh received from WHO was shown in Receipt & Payment Account of UNDCP. However, copy of sanction was not available with UNDCP. Hence, the figure could not be verified in audit.

C.5 No depreciation has been charged by the AIIMS on fixed assets of ₹4431.87 crore i.e. machinery and equipments, vehicles, buildings, Computers/Peripherals and library books etc. as required under AS - 6 of ICAI.

C.6 There are ten Centers including AIIMS (Main) which are maintaining separate accounts. However, AIIMS has not prepared consolidated accounts by consolidating accounts of all the Centres.

C.7 The provision of retirement benefits has not been made in the accounts on actuarial basis as required under Accounting Standard (AS-15) of ICAI.

C.8 In Schedule-11 (Current Assets, Loans & Advances etc.) of annual accounts of AIIMS (Main), ₹23.41 lakh has been shown as Advances for purchase of iron and steel under the Head - "Loans". This amount is being carried forward over the years. Year-wise and party-wise details of the said debtors were not available with the Centre. Review

of these debtors had also not been carried out by the Centre. In the absence of which audit was unable to verify its recoverability.

C.9 In Schedule- 11B of annual accounts of CDER, the Centre has shown several advances which included advances paid to NDMC of ₹23.65 lakh, Security deposit to NDMC of ₹30.00 lakh and advance paid to DGS&D of ₹4.69 lakh. These advances were more than six years old. Neither review of overdue advances nor provision for the same has been made in the accounts.

C.10 In Schedule-12A (Current Assets) of annual accounts of CNC, ₹32.45 lakh has been shown as 'Sundry Debtors'. This amount is being carried forwarded over the years. Year-wise and party-wise details of the said debtors were not available with the Centre. Review of these debtors had also not been carried out by the Centre. In the absence of which audit was unable to verify its recoverability.

C.11 As per Schedule-12B (Loans Advances and Other Assets) of annual accounts of CNC, ₹17.46 crore and ₹4.90 crore have been shown as 'Advance against Work' and 'Machinery & Equipment, Transferred from CT Patients A/c', respectively. These amounts are being carried forwarded over the years. These advances have neither been adjusted nor has any review been carried out for adjustment thereof. In the absence of which audit was unable to verify its recoverability/adjustment.

C.12 In Schedule 11-A of annual accounts of NDDTC, the Centre has shown several advances which included advances for procurement of ₹2.55 lakh, Advances for training programmes of ₹2.34 crore, Custom Duty Advances of ₹4.00 lakh and outside recovery of ₹0.41 lakh. Out of these, advances for ₹15.79 lakh were more than three years old. However, year-wise details of Custom Duty Advances were not furnished to audit. Neither review of overdue debtors nor provision for the same made in the accounts.

C.13 In Schedule-7 (Current Liabilities & Provisions) of annual accounts of RPC, ₹2.27 lakh has been shown under 'Other Current Liabilities'. This amount is being carried forwarded over the years. Year-wise and party-wise details of the said liabilities were not available with the Centre. Review of these liabilities had also not been carried out by the Centre.

D. Grant-In-Aid

During the year 2017-18, AIIMS received total grants of ₹3184.06 crore and had an internal receipt of ₹197.46 crore. Out of total funds of ₹3381.52 crore, AIIMS utilized ₹3275.07 crore leaving unspent balance of ₹106.45 crore as on 31 March 2018. Besides, AIIMS received grants of ₹130.34 crore for various schemes and incurred an expenditure of ₹104.59 crore.

E. Deficiencies which have not been included in the Audit Report have been brought to the notice of AIIMS through a management letter issued separately for remedial/corrective action.

- v. Subject to our observations in the preceding paragraphs, we report that the Balance Sheet, Income & Expenditure Account and Receipt & Payment Account dealt with by this report are in agreement with the books of accounts.
- vi. In our opinion and to the best of our information and according to the explanations given to us, the said financial statements read together with the Accounting Policies and Notes on Accounts and subject to the significant matters stated above and other matters mentioned in Annexure-I to this Audit Report give a true and fair view in conformity with accounting principles generally accepted in India.
 - a. In so far as it relates to the Balance Sheet of the state of affairs of All India Institute of Medical Sciences as at 31 March 2018; and
 - b. In so far as it relates to Income & Expenditure Account of the surplus for the year ended on that date.

For and on behalf of C&AG of India

Place: New Delhi
Date: 11 December 2018

Additional Deputy Comptroller & Auditor General Date:
(Central Expenditure)

Annexure-I

1. Adequacy of internal audit system

During 2017-18, out of 144 units, only 31 units were planned and audited by the internal wing of the AIIMS. There was no internal audit manual.

2. Adequacy of Internal Control System

109 paras of external audit for the period from 1996-98 to 2016-17 were outstanding as on 31 March 2018. The AIIMS was not maintaining fixed assets register as per the prescribed Format. Huge unreconciled bank balances were pending.

3. System of physical verification of Assets

The physical verification of fixed assets has not been conducted during 2017-18.

4. System of physical verification of inventory

The physical verification of inventory like books and publications, stationery and other consumable had not been conducted during 2017-18.

5. Regularity in payment of dues

As per accounts, no payments for over six months in respect of statutory dues were outstanding as on 31.03.2018.

Point wise replies to Separate Audit Report of the Comptroller and Auditor General of India on the Accounts of All India Institute of Medical Sciences, New Delhi for the year ending 31 March 2018

A Liabilities

A.1 Current Liabilities and provisions

A.1.1 AIIMS (Main) (Schedule 7-A) – Rs 225.69 crores

A.1.1 The advice has been noted for compliance in next Financial Year accounts.

A.1.2 Centre for Dental Education & Research (CDER) (Schedule 7-A)- Rs 1.20 crores

The necessary rectification will be carried out in the accounts of the next financial year 2018-19.

B Receipt & payment Account

B.1 J.P.N. Apex Trauma Centre (JPNATC)

The narration shown in the receipt and payment Accounts towards the payment to be made to the firm/AIIMS (Main) will be rectified in the next year accounts.

C. General

C.1 The asset registers are being maintained by the concerned department and the store section. Directions have been issued for Compliance and the same could be verified during next audit.

C.2 The current position of un-reconciled balances is given below:

S. No.	Name of unit	Particulars	Amount	Current Status
1.	AIIMS (Main)	Excess debited by Bank	3989938	3989938
		Cheques deposited but not credited by Bank	138623244	20712495
		Excess credit given by bank	6796825	6796825
2.	CNC	Excess debited by Bank	149360918	149360918
		Cheques deposited but not credited by Bank	1025681	397681
		RTGS returned back to A/C	20673622	20673622
		Excess credit given by bank	113830941	113830941
3.	RPC	Cheques deposited but not credited by bank	455572	
		Unknown credits (+figures)	2112332	
		Unknown debits (-figures)	36880481	
4.	BRAIRCH	Cheque deposited but not clear	1000	1000
5.	JPNATC	Cheques not deposited but amount credited by bank	789386	789386
6.	NDDTC	Cheques deposited but credit not given	60000000	Nil
		Debit given by bank	5309493	

Major amount of outstanding cheques has been reconciled. The efforts are being made for settlement of remaining outstanding un-reconciled bank balances. The special efforts are being made in this regard and matter has been taken up at the zonal level for providing complete detail of debit by the bank so that the same could be reconciled.

C.3 The action is being taken on outstanding cheques more than 6 months old as per rule 47 of Receipt and Payment Rule.

C.4 The efforts are being made to obtain a copy of sanction from WHO.

C.5 The observation of the Audit has been noted for future compliance. It is further submitted that the Depreciation policy has been framed and approved by the competent authority. This would be adopted simultaneously with adoption of accrual system of accounting.

C.6 As directed by Audit the necessary note will be inserted in next accounts.

C.7 The observation of the Audit has been noted for future compliance. Provisions will be made once the accounts of the Institute are prepared on accrual basis.

C.8 The efforts are being made for liquidation of outstanding advance of Rs 23.41 lakhs

C.9 The efforts are being made to find out details of outstanding advance from the departments for liquidation. The references have been made with the concerned agencies/firms for getting the details.

C.10 The efforts are being made to find out the party wise details of sundry debtors for their early liquidation.

C.11 In Schedule 12(B) Loans advance and other Assets, Rs 17.46 crores and Rs 4.90 crores had been shown as Advance against work and Machinery & Equipment transferred from C.T. Patient Account. This amount had been shown in Balance Sheet from previous years. The efforts for adjustment are being initiated to clear these advances.

C.12 The efforts are being made for liquidation of outstanding advance.

C.13 The efforts are being made to find out the party wise details of said liabilities and their review.

D Grant-In-Aid

Factual Facts. No Comments.

Annexure 1

1. Adequacy of internal Audit System

The target of Internal Audit of 31 auditee units has been achieved by Internal Audit Wing of the Institute despite shortage of manpower. Simultaneously efforts are being made to strengthen internal audit system by putting in more internal control system and enhancing Internal Audit Manpower.

2. Adequacy of Internal Control System

The vigorous efforts are being made to settle the old outstanding paras by obtaining tenable and suitable replies from concerned departments/centres. The asset registers are being maintained by the concerned departments and the store section. The same could be verified during next audit.

3. System of physical verification of Fixed Assets

Physical Verification of fixed assets for the period have been carried out. Physical verification report of all the centres and most of the department have been received. These physical verification report also does not have any major deviation/shortages.

4. System of physical verification of inventory

The physical verification of library, stationery store and consumables have been carried out. Physical verification report of all the centres and most of the departments have been received. These physical verification reports also do not have any major deviation/shortages.

5. Regularity in payment of dues

No comments.

