54th

AIIMS

ANNUAL REPORT

2009–2010

All India Institute of Medical Sciences
New Delhi 110029
The All India Institute of Medical Sciences (AIIMS) was established in 1956 as an institution of national importance by an Act of Parliament with the objects to develop patterns of teaching in undergraduate and postgraduate 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 undergraduate and postgraduate levels and awards its own degrees. Teaching and research are conducted in 50 disciplines. In the field of medical research AIIMS is the leader, having more than 1500 research publications by its faculty and researchers in a year. AIIMS also runs a College of Nursing, training students for B. Sc. (Hons.) Nursing and B. Sc. Nursing (Post-Certificate) degrees.

Twenty-five clinical departments including six super-speciality centres manage practically all types of disease conditions with support from pre-clinical and para-clinical departments. AIIMS also runs a 60-bedded hospital and the Comprehensive Rural Health Centre at Ballabgarh in Haryana and provides health cover to about 7.7 lakh people through the Centre for Community Medicine.
AIIMS AT A GLANCE
2009–2010

Year of establishment 1956

| Teaching Departments and Centres | 50 | Medical graduates | 2321 |
| Faculty members (Sanctioned 629) | 434 | Postgraduates | 7405 |
| Non-faculty staff (Sanctioned 9198) | 7832 | Nursing graduates | 1690 |
| No. of Undergraduate students | 673 | Publications in journals | 1559 |
| No. of Postgraduate students | 1134 | Chapters in Books/monographs | 245 |

HOSPITAL SERVICES

<table>
<thead>
<tr>
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<td>C.C.M.</td>
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<td>JPNAT Centre</td>
<td>44456</td>
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<td>4307</td>
<td>30</td>
<td>—</td>
</tr>
</tbody>
</table>

Average bed occupancy 80.7%
Average period of hospital stay 5.5 days
Net death rate 2.7%
Infection rate (Crude) 8.69%
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AIIMS

ORGANISATIONAL STRUCTURE

Institute Body

Governing Body

Finance Committee
Selection Committee
Academic Committee
Estate Committee
Hospital Affairs Committee

All India Institute of Medical Sciences
New Delhi
I am glad to present the Fifty-fourth Annual Report and audited statement of accounts for the year 2009–2010.

The All India Institute of Medical Sciences (AIIMS) was established in 1956 by an Act of Parliament as an institution of national importance. In keeping with this mandate, AIIMS continues to be the torch bearer in the field of medical education, research and patient care. It is committed to serving the people of India by training clinicians, scientists and scholars; discovering newer modalities to ameliorate the suffering of people and translating these to better healthcare for society. In 2009-2010, we advanced our key priorities because of the dedication and creativity of the Institute community.

Innovative and equitable education

Educating tomorrow’s leaders in healthcare is the paramount goal at AIIMS. Since its inception AIIMS has introduced innovative approaches to training. Our students do not acquire knowledge passively while sitting in lecture halls. We have a curriculum that requires trainees to take responsibility for their own learning. In addition, the use of modern teaching–learning methodologies ensures a steady stream of self-reliant medical scholars.

In keeping with India’s need for diverse health manpower, AIIMS offers graduate level courses in medicine (MBBS), nursing (B.Sc. [post-certificate], B.Sc. [Hons.]), and medical technology (B.Sc. [Hons.] in Ophthalmic Techniques, B.Sc. [Hons.] in Medical Technology in Radiography). The curricula of these courses are constantly scrutinized and upgraded by the faculty to keep these abreast with current developments. These courses are immensely popular within India and also attract students from other countries. AIIMS has full time postgraduate, post-doctoral and super-specialty courses, i.e. MD, MS, MDS, MHA, PhD, MCh, DM, and MSc in 47 disciplines. The guiding principle for postgraduate training is to produce competent, compassionate and ethical teachers, researchers and doctors. This year we have approved a specialized postgraduate course in emergency medicine in collaboration with the University of South Florida, Tampa. Student enrollment will start in the coming year.

AIIMS has also built alliances with scientists from all over India and other countries to facilitate research and training for clinicians and scientists. We provided short/long term training to doctors and other health trainees from various organizations and state governments, World Health Organization (WHO)-in-country fellows and foreign students. In addition, elective training was provided to several candidates, including foreign nationals. The Institute also continued to provide consultancy services to several neighbouring countries under bilateral agreements or under the aegis of intergovernmental and international agencies. In addition to courses offered on site and online, over 150 conferences were held. In 2009, department leaders advanced the all-important goal of developing strategies to better evaluate learning effectiveness.

Social considerations must not bar the most qualified students from disadvantaged sections from joining our community. In keeping with this, AIIMS has increased undergraduate and postgraduate
seats by 30% to accommodate more such scholars. Also, a new code of conduct has been ratified, wherein students and where applicable, their parents have to give a written undertaking that they will not discriminate against students belonging to disadvantaged communities.

**Research infrastructure and state of the art research**

AIIMS is a leader in the field of medical research. Our faculty and scientists are active in frontline research areas such as molecular medicine, nanotechnology, proteomics, radiocrystallography, newer diagnostics through imaging sciences, immunogenetics and transplantation, stem cell therapy, cancer therapy, and technology-based innovations including biocompatible implant devices for joint replacement, and implants and stents in cardiology, otology, trauma-related clinical research, newer surgical practices, and a host of contemporary research areas of national and global importance. Research grants amounting to Rs 56 crores (approximately) were obtained from various intergovernmental, international and national funding agencies during the year 2009–2010. These grants support projects in multiple disciplines and are deemed likely to have a high impact in biomedicine and public health. During the year the faculty and the scientists of the Institute participated in over 300 research projects, published over 1500 research papers in national and international journals and over 200 books/monographs and chapters in books/monographs.

AIIMS has initiated a partnership with the Wellcome Trust and the Department of Biotechnology, Government of India, to support research and develop projects that would provide innovative healthcare products at affordable costs. The aim is to bring together researchers from both the public and private sectors, largely working in India, to develop new medical devices, diagnostics, medicines, vaccines, etc. that will reach the largest numbers of beneficiaries, without compromising on quality. Funded projects would cover a wide range of applications including new treatments for tuberculosis, cardiovascular disease and stem cell-based therapy. Similarly, the continuing Stanford–India Biodesign Programme aims to train the next generation of medical technology innovators in India through fellowships, internships and events to develop cheap, affordable and indigenous biomedical devices. This programme is funded by the Department of Biotechnology, Ministry of Science and Technology, and Stanford University, and is administered in collaboration with Stanford University, the Indian Institute of Technology Delhi, and the Indo-US Science & Technology Forum (IUSSTF). Five devices have already been developed and are in various stages of trial.

The AIIMS research scheme supports research, scholarship and service by young researchers dedicated to understanding and curing disease. Pilot funds enable research teams to generate the preliminary data necessary for securing long term funding, an especially important consideration for junior investigators looking to establish independent research programmes.

**Caring for patients and communities**

The Institute has constantly endeavored to demonstrate its commitment to professionalism and service to common people at an affordable cost. Presently, the AIIMS hospital has a total of 2534 beds, including those for day care. Thousands of patients from all over the country and from neighbouring countries such as Nepal, Bangladesh, Sri Lanka, and Bhutan come to AIIMS everyday for treatment.

The AIIMS main hospital and its centres—the Cardiothoracic and Neurosciences Centre (CN Centre), the Jai Prakash Narain Apex Trauma Centre (JPNATC), the Dr B.R. Ambedkar Institute—
Rotary Cancer Hospital (Dr BRAIRCH), the Dr Rajendra Prasad Centre for Ophthalmic Sciences (RAPCOS), the Centre for Dental Education and Research (CDER), the Centre for Behavioural Sciences (National Drug Dependence Treatment Centre, NDDTC)—provided care to nearly 25 lakh outpatients, 1.5 lakh inpatients and 1.8 lakh patients with emergent conditions. Also, nearly 1.3 lakh surgical procedures were conducted in the main hospital and the centres. Due to expansion of facilities such as the OPD, emergency service, private wards and use of innovative methods, the AIIMS hospital has been able to provide better and more efficient patient care. The average duration of stay in hospital is around 5.5 days; the average bed occupancy 80.7%, and the net death rate 2.7%, which is at par with similar parameters in developed countries. With the use of mechanical cleaning devices and active interaction of the Hospital Infection Control Committee (HIFCOM), the general hygiene and sanitation of the hospital is of a high level. Medicines are supplied to all patients attending the Emergency services free of cost.

With the view to decongest AIIMS, a second campus is planned at Jhajjar. The Haryana Government has given 300 acres of land and the project will cost Rs 5000 crores.

AIIMS is the nodal centre for the National Initiative on Patient Safety (NIPS). The cell will maintain a database of medical negligence reported in the country with the aim of helping other hospitals avoid such errors. The initiative has been implemented in 11 medical colleges in the country and will cover over 60 healthcare institutions across India in the next two years. The National Pharmacovigilance Programme of the Union Health and Family Welfare Ministry was launched in the country under the aegis of Central Drugs Standard Control Organisation (CDSCO) in collaboration with the Department of Pharmacology, AIIMS. The programme will aid in the detection, assessment, understanding and prevention of adverse effects and other drug-related problems and thus will enhance patient safety. The programme has been implemented in 40 medical colleges across the country and will cover all medical colleges across India in the next two years.

AIIMS has developed a computerized patient management system for its outpatient department as well as a computerized centralized admission facility. The Trauma Center already has an online software system that monitors and transmits vital data of all ICU patients over the internet, which can be viewed by doctors from any station through a secure login from any internet-enabled computer. The trauma center has also become the first centre in the country to have a legally tenable system of computer generated medico-legal certificates.

AIIMS continued to provide specialized investigations and services for common as well as difficult-to-treat patients in medical and surgical fields; and introduced a number of innovations in practice, e.g. urine screen to screen out early stage renal disease in potential kidney donors, robotic surgery in urology, repeating transcranial magnetic stimulation (rTMS) for psychiatric patients, cyber knife facility for surgery of intracranial tumours, new techniques for in vitro fertilization (IVF), etc.

In keeping with its status as an institution of national importance, AIIMS clinicians and scientists were called upon to provide expert opinion on issues of public health importance such as swine flu, dengue, head injury, declining sex ratio, stroke, pentavalent vaccine, vaccination to prevent cervical cancer, organ donation, etc. Experts from AIIMS also opined in sensitive court cases of national importance. AIIMS was also selected as a sentinel centre to treat dengue, and for treating injuries during the Commonwealth Games. In recognition of the planned implementation of National...
programmes for diabetes and heart disease, AIIMS was entrusted with the development of Indian standards for the management of these conditions.

We want to remove societal roadblocks and redress infrastructure failures that prevent advances in AIIMS from reaching destitute populations. One factor contributing to the surge in interest in health across barriers is information technology’s ability to connect people in real time. AIIMS has created a telemedicine program that brings diagnostic tools and treatments to patients in remote locations by providing consultancy to primary care providers. In response to Dr. APJ Abdul Kalam’s promise (made in 2005) of providing medical assistance to African nations, this year AIIMS Telemedicine went international with doctors from AIIMS providing diagnostic and therapeutic expertise for patient management in 54 African countries.

Community-based programmes have been an integral part of the Institute’s clinical and research activities. The Centre for Community Medicine has a widely acclaimed model of rural health services at Ballabgarh in the neighbouring state of Haryana. Apart from providing comprehensive health services at the doorsteps of people in the villages under its coverage, the centre also provides secondary healthcare through a 50-bed hospital at Ballabgarh. The project has achieved significant successes in terms of improving the health of mothers and children in the area. The Urban Health and Family Health Exercise Programmes of the Centre for Community Medicine cater to some urban slums of Delhi with a population of about 87,106. These services include domiciliary care and are coordinated through a Mobile Health Clinic. In addition, the Centre for Community Medicine has a Disease Outbreak Response Cell (DORC) to provide a rapid response to outbreaks of infectious diseases; and an AIDS Education and Training Cell for the prevention of HIV/AIDS. In addition to community services provided by the Centre for Community Medicine, the departments of Obstetrics and Gynecology, Rehabilitation and Physical Medicine, Pediatrics, Dr. Rajendra Prasad Centre for Ophthalmic Sciences and the National Drug Dependence Treatment Centre serve various rural communities through numerous community outreach programmes including camps.

Due to consistent advocacy efforts of the JPNATC (AIIMS), the Central Board of Secondary Education has agreed to introduce a course on life support system and emergency medicine in its curriculum.

The Hospital Administration Department of AIIMS was awarded the ISO 9001: 2008 certification for delivering technologically sophisticated and safe health services as well as emergency care. The MBBS course of the Institute has been adjudged the best in the country for the 8th consecutive year by national surveys published in the popular media. Also, 25 scholars from AIIMS have received prestigious ICMR awards for their significant research work.

AIIMS has made a sincere effort to live up to the mandate given to it by Parliament as it strives to provide better healthcare to our people and produce significant research work.

Professor R. C. Deka
Director, AIIMS
2. Institute Body

1. **Sh. Ghulam Nabi Azad**
   Union Minister for Health & Family Welfare,
   Nirman Bhawan, New Delhi-110011
   President
   (w.e.f. 05.06.2009)

2. **Sh. R.K. Dhawan**, MP(Rajya Sabha)
   141, Golf Links, New Delhi-110003
   Member

3. **Prof. Vijay Kumar Malhotra**, MP (Lok Sabha)
   6, Dr. Bishamber Dass Marg,
   New Delhi-110001
   **Dr. Jyoti Mirdha**, MP (Lok Sabha)
   875 Sector-17B, Gurgaon
   Haryana - 122001
   Member
   (w.e.f. 27.10.2009)

4. **Dr. Karan Singh Yadav**, MP (Lok Sabha)
   C-6 M.P Flats, Baba Khadak Singh Marg,
   New Delhi-110001
   **Smt. Sushma Swaraj**, MP (Lok Sabha)
   8 Safdarjung Lane,
   New Delhi
   Member
   (w.e.f. 27.10.2009)

5. **Dr. Deepak Pental**
   Vice Chancellor,
   Delhi University.
   Member
   (Ex-Officio)

6. **Shri Naresh Dayal**
   Secretary (Health)
   Ministry of Health & Family Welfare,
   Nirman Bhawan, New Delhi-110011
   **Ms. K. Sujatha Rao**
   Secretary (Health)
   Ministry of Health & Family Welfare,
   Nirman Bhawan, New Delhi-110011
   Member
   (w.e.f. 27.10.2009)

7. **Dr. R.K. Srivastava**
   Directorate General of Health Services
   Nirman Bhawan, New Delhi-110011
   Member
   (Ex-Officio)

8. **Dr. Shyam Prasad**
   Vice President,
   National Board of Examinations, New Delhi
   Member

w.e.f. 1-4-2009 to 31-3-2010
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<th><strong>Name</strong></th>
<th></th>
<th><strong>Position</strong></th>
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| 9. | Dr. S.S. Agarwal              | Member | Central Drug Research Institute,  
                                   | Chattar Manzil Palace,          |                                   |
|    |                               |     | Post Box No. 173, Lucknow-226001 | Dr. S.S. Agarwal                | Former Director, SGPGI,           |
|    |                               |     |                                   | D-13, Vivekanandpuri, Lucknow-226007 |                                 |
| 10.| Prof. B.P. Chatterjee         | Member | Dept. of Biological Chemistry,  
                                   | Indian Association for the Cultivation of Science, |
|    |                               |     | Jadavpur, Kolkata-700032.         |                                   |                                   |
| 11.| Sh. R.P. Agrawal              | Member | Secretary,                        |
|    |                               |     | Department of Secondary Education and  |
|    |                               |     | Higher Education,                 |                                   |
|    |                               |     | Ministry of Human Resource Development (HRD) |
|    |                               |     | Shastri Bhawan, (Gate No.6), New Delhi-110001 |                                   |
| 12.| Prof. K.K. Talwar             | Member | Director                          |
|    |                               |     | Postgraduate Institute of Medical Education and Research, Chandigarh. |                                   |
| 13.| Prof. Kartar Singh            | Member | Director                          |
|    |                               |     | Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow. |                                   |
| 14.| Professor R. Surendran        | Member | Professor and Head of the Department of Surgical Gastroenterology, |
|    |                               |     | Government Stanley Hospital, Chennai |                                   |
| 15.| Dr. (Mrs.) Nilima Arun Kshirsagar | Member | Dean, Professor and Head,  
                                   | Department of Clinical Pharmacology, |
|    |                               |     | Seth G.S. Medical College and KEM Hospital, Mumbai. |                                   |
| 16.| Shri Naved Masood             | Member | Addl. Secretary & Financial Advisor |
|    |                               |     | Ministry of Health & Family Welfare,  
                                   | Nirman Bhawan, New Delhi-110011 |                                   |
| 17.| Prof. R.C. Deka               | Member Secretary | Director, AIIMS |                                   |
18. **Sh. B.K. Prasad**
   Joint Secretary
   Ministry of Health & Family Welfare,
   Nirman Bhawan, New Delhi-110011
   
   Special Invitee

19. **Dr. Rani Kumar**
   Dean (Acad.), AIIMS
   New Delhi
   
   Special Invitee

20. **Dr. D.K. Sharma**
   Medical Superintendent
   AIIMS, New Delhi
   
   Special Invitee

**GOVERNING BODY**

1. **Sh. Ghulam Nabi Azad**
   Chairman
   Union Minister for Health & Family Welfare,
   Nirman Bhawan, New Delhi-110011
   (w.e.f. 05.06.2009)

2. **Sh. R.K. Dhawan**, MP(Rajya Sabha)
   Member
   141, Golf Links,
   New Delhi – 111000

3. **Dr. Karan Singh Yadav**, MP (Lok Sabha)
   Member
   C-6 M.P Flats, Baba Khadak Singh Marg,
   New Delhi-110001
   (upto 16.05.2009)

4. **Shri Naresh Dayal**
   Member
   Secretary (Health)
   Ministry of Health & Family Welfare,
   Nirman Bhawan, New Delhi-110011
   Ms. K. Sujatha Rao
   Member
   Secretary (Health)
   Ministry of Health & Family Welfare,
   Nirman Bhawan, New Delhi-110011
   (w.e.f. 27.10.2009)

5. **Dr. R.K. Srivastava**
   Member
   Directorate General of Health Services
   Nirman Bhawan, New Delhi-110011
   (Ex-Officio)

6. **Shri Naved Masood**
   Member
   Addl. Secretary & Financial Advisor
   Ministry of Health & Family Welfare,
   Nirman Bhawan, New Delhi-110011

7. **Dr. Shyam Prasad**
   Member
   Vice President,
   National Board of Examinations,
   New Delhi
8. Prof. K.K. Talwar
   Director
   Postgraduate Institute of Medical Education and Research, Chandigarh.

9. Prof. Kartar Singh
   Director,
   Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow.

10. Professor R. Surendran,
    Professor and Head of the Department of Surgical Gastroenterology,
    Government Stanley Hospital, Chennai

11. Prof. R.C. Deka
    Director, AIIMS

12. Sh. B.K. Prasad,
    Joint Secretary
    Ministry of Health & Family Welfare,
    Nirman Bhawan, New Delhi-110011

13. Dr. Rani Kumar
    Dean (Acad.), AIIMS
    New Delhi

14. Dr. D.K. Sharma
    Medical Superintendent

FINANCE COMMITTEE

1. Shri Naresh Dayal, Health Secretary Chairman (upto 26.10.2009)
2. Prof. Vijay Kumar Malhotra, MP (Lok Sabha) Member (upto 16.05.2009)
3. Shri R.K. Dhawan, MP (Rajya Sabha) Member
4. Dr. R.K. Srivastava, DGHS Member
5. Shri Naved Masood, Addl. Secretary Member
6. Dr. Shyam Prasad Member
7. Sh. R.P. Agrawal, Member
8. Dr. S.S. Agarwal Member
9. Prof. R.C. Deka
    Director, AIIMS Member Secretary
10. Dr. Rani Kumar
    Dean (Acad.), AIIMS
    New Delhi Special Invitee
11. **Sh. B.K. Prasad**, Special Invitee
   Joint Secretary
   Ministry of Health & Family Welfare
   Nirman Bhawan, New Delhi-110011

**ESTATE COMMITTEE**
1. Prof. Vijay Kumar Malhotra, Chairman (upto 16.05.2009)
2. Prof. Karan Singh Yadav, MP (Lok Sabha), Member (upto 16.05.2009)
3. Dr. R.K. Srivastava, DGHS, Member
4. Dr. S.S. Agarwal, Member
5. Shri Naresh Dayal, Health Secretary, Member (upto 26.10.2009)
6. Prof. Deepak Pental, Member
7. Shri Naved Masood, A.S. & F.A, Member
8. Shri R.P. Agrawal, Member
9. Prof. R.C. Deka, Member Secretary, Director, AIIMS

**ACADEMIC COMMITTEE**
1. Prof. Nilima Arun Kshirsagar, Chairperson
2. Prof. R. Surendran, Member
3. Prof. Kartar Singh, Member
4. Prof. K.K. Talwar, Member
5. Dr. R.K. Srivastava, Member
6. Dr. Shyam Prasad, Member
7. Prof. B.P. Chatterjee, Member
8. Shri R.P. Agrawal, Secretary, Member
9. Prof. R.C. Deka, Member Secretary, Director, AIIMS

**HOSPITAL AFFAIRS COMMITTEE**
1. Prof. S.S. Agarwal, Chairman
2. Shri R.K. Dhawan, MP (Rajya Sabha), Member
3. Prof. Karan Singh Yadav, MP (Lok Sabha), Member (upto 16.05.2009)
4. Dr. R.K. Srivastava, DGHS, Member
5. Shri Naresh Dayal, Health Secretary, Member (upto 26.10.2009)
6. Shri Naved Masood, A.S. & F.A., Member
7. Prof. Nilima Arun Kshirsagar, Member
8. Prof. K.K. Talwar Member
8(a) Dr. Shyam Prasad Member
9. Prof. R.C. Deka Member Secretary
   Director, AIIMS

SELECTION COMMITTEE
1. Prof. R. Surendran Chairman
2. Prof. Karan Singh Yadav, MP (LS) Member (upto 16.05.2009)
3. Dr. R.K. Srivastava Member
4. Prof. K.K. Talwar Member
5. Prof. Kartar Singh Member
6. Sh. R.P. Agrawal, Secretary Member
7. Prof. Nilima Arun Kshirsagar Member
8. Dr. Shyam Prasad Member
9. Prof. R.C. Deka Member Secretary
   Director, AIIMS
The Academic Section develops policy, plans and executes academic activities. It also administers intramural research projects. 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. The courses include M.B.B.S., B.Sc. (Hons.) in paramedical courses such as Medical Technology in Radiography and Ophthalmic Techniques, and B.Sc. Nursing (Post-certificate) and B.Sc. (Hons.) Nursing courses.

**Bachelor of Medicine and Bachelor of Surgery (M.B.B.S.)**

The pattern of education at the undergraduate level was reviewed and implemented from July, 2004 onwards. The duration of the M.B.B.S. course continues to be 5 ½ years, including one year compulsory internship training. The training during this period is as follows:

- One year: Pre-clinical training.
- One-and-a-half years: Paraclinical training.
- Two years: Clinical training.
- One year: Rotating internship (compulsory).

From August 2008 onwards 27 seats of MBBS students are increased and now MBBS seats are 77. Out of 77 seats, 5 seats are reserved for foreign nationals and the screening and admissions for these 5 seats is done on the recommendation of the Ministry of External Affairs, Government of India. For the remaining 72 seats (11 for Scheduled Caste, 6 for Scheduled Tribe, 19 OBC and 36 General Category Candidates), students are selected on the basis of their performance in an All-India Entrance Examination. Further, 3% seats are reserved for orthopaedic physically handicapped candidates on horizontal basis. During the year, there were 44,269 applicants, and 34,253 candidates appeared in the entrance examination held on 01.06.2009 at national level for these 77 seats. The total number of undergraduate (MBBS) students as on 31st March 2010 was 311 including 56 interns.

Merit scholarships of Rs.750 per month and Rs.500 per month were awarded to 6 students who secured first and second position in the 1st, 2nd and final M.B.B.S. examination.
Summer fellowships were awarded to nil for research in selected areas. These students were given a stipend of Rs. 500 per month. They worked under the supervision of a member of the faculty.

**PARAMEDICAL AND NURSING EDUCATION**

All activities pertaining to the admission and training of paramedical and nursing students are handled by this cell. A batch of 62 students was admitted for B.Sc. (Hons) Nursing in August 2009. A batch of 26 students was admitted for B.Sc. Nursing (Post-Certificate) Course in August 2009. 15 students was admitted for B.Sc. (Hons) Ophthalmic Techniques in August 2009 and 9 students was admitted for B.Sc. (Hons) Medical Technology in Radiography in August 2009.

The current student strength for the nursing and paramedical courses is as follows:

<table>
<thead>
<tr>
<th>Nursing courses</th>
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<td>B.Sc. (Hons.) Medical Technology in Radiography</td>
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</table>

**POSTGRADUATE EDUCATION**

The Academic Section looks after all the activities pertaining to admission, selection and training of postgraduate students including junior and senior residents. It also deals with all service matters relating to senior residents. It handles all activities of the PhD, DM, MCh, MD, MS, MDS, MHA, MSc and MBiotech courses in different disciplines.

The admission to all postgraduate courses is done by an All India Entrance Examination that is held twice a year. Foreign nationals are also admitted through an entrance examination. Postgraduate students from Nepal are admitted under a bilateral agreement between the Governments of India and Nepal.

A total of 448 students, including 24 state-sponsored and 12 foreign nationals, were admitted to the above-mentioned courses during the year under review. The total number of postgraduate and doctoral students on 31 March 2010 was 1134. The subject wise distribution of postgraduate students is given below.

A total of 294 postgraduate students MS/MS/MDS/DM/MCh/PhD/MSc/M.Biotech passed out during the year 2009–2010.

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AIIMS 2009-2010 / 14
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<tr>
<td>Biophysics</td>
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AIIMS 2009-2010 / 15
Salaries: The present salary of residents, as recommended by the Sixth Pay Commission is:

Junior Residents Rs 15600-39100 + (GP Rs.5400) plus allowances as per rules
Senior Residents Rs 15600–39100 + (GP Rs.6000) plus allowances as per rules.

TRAINING PROGRAMMES

The section handles activities regarding training programmes of short and long term duration for both medical and para-medical personnel. During the year, the Institute had 649 short and 05 long-term trainees. In addition 32 WHO Fellows (Foreign National) under WHO fellowship programme & 51 foreign trainees and 12 WHO Fellows (Indian National) for WHO-In-Country Fellowship training programme (2009-2010) were imparted training in various departments. The elective posting of foreign undergraduate medical students is also handled by the section. 35 foreign undergraduate medical students underwent elective training during the year.

WHO In-Country Fellowship (Indian) = 12
WHO Sponsored Foreign National = 32
Foreign National = 51
Elective Training = 35
Conferences/Workshops/Symposiums = 152

SHORT-AND LONG-TERM TRAINING

Short Term Trainee Joined w.e.f. 1.4.2009 to 31.3.2010 = 649
Long Term Trainee Joined w.e.f. 1.4.2009 to 31.3.2010 = 5
COMMITTEE MEETINGS
The Academic Section is responsible for arranging the meetings like Academic committee, Staff Council, Faculty meetings and Dean’s Committee. During the year details of the meetings held is as under:

- Academic Committee Meetings: 02
- Staff Council Meeting: 01
- Dean’s Committee Meeting: 01
- Faculty Meetings: 13

ORATION’S
The Academic Section organized the following Orations during 2009-2010.

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Name of Oration</th>
<th>Name of Orator</th>
<th>Date of Oration, Time &amp; Venue</th>
</tr>
</thead>
<tbody>
<tr>
<td>01.</td>
<td>2nd (Second) Dr. L.K. Bhutani Oration</td>
<td>Dr. Sanjay K. Agarwal, Professor and Head, Department of Nephrology, AIIMS</td>
<td>On Wednesday the 2nd September, 2009 at 4.00 PM in LT-I, AIIMS.</td>
</tr>
<tr>
<td>02.</td>
<td>13th (Thirteenth) Kamla B.K. Anand Oration</td>
<td>Dr. C.S. Paulose, Director, Centre for Neuroscience, Professor and Head, Department of Biotechnology, Cochin University of Science and Technology, Cochin, Kerala</td>
<td>On Friday the 4th September, 2009 at 4.00 PM in LT-I, AIIMS.</td>
</tr>
<tr>
<td>03.</td>
<td>4th (Fourth) Prof. K.C. Kandhari Oration</td>
<td>Dr. C. Balachandran, Professor and Unit Head, Department of Skin &amp; STD, Kasturba Medical College &amp; Hospital, Manipal-576 104</td>
<td>On Friday the 11th September, 2009 at 4.00 PM in LT-I, AIIMS.</td>
</tr>
<tr>
<td>04.</td>
<td>19th (Nineteenth) AIIMS Silver Jubilee Oration</td>
<td>Dr. Ajay Nehra, Professor of Urology, Mayo Clinic, Rochester, Minnesota, USA</td>
<td>On Friday the 12th February, 2010 at 4.00 PM in LT-I, AIIMS.</td>
</tr>
<tr>
<td>05.</td>
<td>20th (Twenty) Sarveshwari Memorial Oration</td>
<td>Prof. Madjid Samii, Director, Neurosurgical Clinic, Nordstadt Hospital, Hannover.</td>
<td>On Thursday the 18th February, 2010 at 4.00 PM in J.L. Auditorium, AIIMS.</td>
</tr>
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</table>

Convocation
The Annual Convocation of the Institute was held on Monday the 16th November, 2009 at the Jawaharlal Auditorium, AIIMS. Hon’ble Smt. Pratibha Devi Singh Patil, President of India addressed
the Convocation. The Chief Guest distributed Institute Medals/Awards to the outstanding students and addressed the gathering. The President, AIIMS and Hon’ble Minister of Health and Family Welfare distributed the degrees.

RESEARCH

The intramural research funds and its allocation is handled by the Section. The details of intramural research conducted during the year is given in Appendix I.

1. The research grant allocated to faculty members Rs.50000/- to Rs.1,00000/- per annum depending on the Research Project.

2. Project review by specially review groups - 15th March.


Appendix-I

ACADEMIC SECTION-II
(Nursing & Para Medical Cell)

Statement of Institute Research Grant for the year, 2009-2010.

BASIC SUBJECTS

<table>
<thead>
<tr>
<th>S.No.</th>
<th>NAME OF THE INVESTIGATOR</th>
<th>TITLE OF THE PROJECT</th>
<th>AMOUNT ASKED FOR</th>
<th>DURATION</th>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr. Rima Dada Assoc. Prof. Deptt. of Anatomy</td>
<td>Cytogenetic and PAX6 gene mutation analysis in Ocular Coloboma.</td>
<td>1,00,000/-</td>
<td>2 years</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Suman Jain Asstt. Prof. Deptt. of Physiology</td>
<td>Behavioral development of visual system following prenatal chronic auditory stimulation in chicks (Gallus domesticus).</td>
<td>1,00,000/-</td>
<td>1 year</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Kunzang Chosdol Asstt. Prof. Deptt. of Biochemistry</td>
<td>A case – control study of the genetic polymorphism (SNP) of folate metabolizing enzymes and their association with Meningioma and Glioma in Indian population.</td>
<td>1,00,000/-</td>
<td>2 years</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. Seema Sen Assoc. prof. Ocular Pathology Dr. R. P. Centre</td>
<td>Identification of Human Papilloma Virus types in malignant ocular tumours.</td>
<td>1,00,000/-</td>
<td>2 years</td>
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<td>5.</td>
<td>Dr. Jatinder Katyal Asstt. Prof.</td>
<td>Development and standardization of model of drug resistant seizures</td>
<td>1,00,000/-</td>
<td>1 year</td>
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<td>6.</td>
<td>Dr. T. K. Das</td>
<td>Deptt. of Pharmacology</td>
<td>To study the regional differences in amyloid beta induced microglia activation in vivo.</td>
<td>1,00,000/-</td>
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<tr>
<td>7.</td>
<td>Dr. Garima Shukla</td>
<td>Deptt. of Anatomy</td>
<td>Prevalence of the restless legs syndrome in women and its relationship with iron deficiency – a prospective case – controlled study from North India.</td>
<td>44,000/-</td>
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<td>8.</td>
<td>Dr. S.S. Chauhan</td>
<td>Deptt. of Biochemistry</td>
<td>Diagnostic Significance of aberrantly methylated genes in breast cancer.</td>
<td>6803/-</td>
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<td>9.</td>
<td>Dr. Ratna Sharma</td>
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<td>Cognition induced changes in brain oscillations.</td>
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<td>Dr. Seema Kashyap</td>
<td>Deptt. of Physiology</td>
<td>Immunohistochemical detection of cancer stem cell markers in retinoblastoma.</td>
<td>1,00,000/-</td>
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<td>Dr. Tulika Seth</td>
<td>Deptt. of Hematology</td>
<td>Pilot study of the cytokine Profile of chronic immune thrombocytopenic purpura patients.</td>
<td>1,00,000/-</td>
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<td>Dr. Sujata Mohanty</td>
<td>Stem Cell Facility</td>
<td>Establishment of Melanocyte Culture in a serum free system for transplantation in Vitiligo Patients. Pharmacological studies on Asparagus racemosus in experimentally induced myocardial infarction in rats.</td>
<td>1,00,000/-</td>
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<td>Dr. D. S. Arya</td>
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<td>Genotyping of C. difficile by PCR sequencing and PFGE from fecal samples in HIV and non-HIV patient.</td>
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<td>Dr. Pramod Garg</td>
<td>Deptt. of Gastroenterology</td>
<td>To develop a mouse model of acute pancreatitis and to correlate the severity of acute pancreatitis with levels of TNF-a and IL-6 cytokines.</td>
<td>1,00,000/-</td>
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<td>16.</td>
<td>Dr. S. K. Maulik</td>
<td>Addl. Prof.</td>
<td>Dept. of Pharmacology</td>
<td>Evaluation of preventive potential of atorvastatin and coenzyme-Q10 in doxorubicin-induced cardiomyopathy in rats.</td>
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<td>17.</td>
<td>Dr. Raju Sharma</td>
<td>Addl. Prof.</td>
<td>Dept. of Radiodiagnosis</td>
<td>Diagnostic accuracy of coronal whole body diffusion-weighted MRI in oncologic imaging: comparison with whole body STIR-MRI and FDG-PET-CT.</td>
</tr>
<tr>
<td>18.</td>
<td>Dr. Neena Malhotra</td>
<td>Assoc. Prof.</td>
<td>Dept. of Obst. &amp; Gynaec.</td>
<td>Perifollicular vascularity and follicular fluid vascular endothelial growth factor concentration in in-vitro fertilization (IVF) cycles.</td>
</tr>
<tr>
<td>19.</td>
<td>Dr. Pushpa Dhar</td>
<td>Addl. Prof.</td>
<td>Dept. of Anatomy</td>
<td>To study the effects of antioxidant supplementation on rat hippocampus following sodium arsenite exposure during early postnatal period.</td>
</tr>
<tr>
<td>20.</td>
<td>Dr. Anjana Talwar</td>
<td>Asstt. Prof.</td>
<td>Dept. of Physiology</td>
<td>To study the effect of Ocimum sanctum (Tulsi) leaf extract on Event related potentials in healthy adults.</td>
</tr>
<tr>
<td>21.</td>
<td>Dr. Tushar Agarwal</td>
<td>Asstt. Prof. of Ophthalmology Dr. R. P. Centre</td>
<td>CRYAA gene profile in Congenital Cataract Patients.</td>
<td></td>
</tr>
<tr>
<td>22.</td>
<td>Dr. Nibhriti Das</td>
<td>Professor</td>
<td>Dept. of Biochemistry</td>
<td>Paraoxonase (PON 1) activity and its genetic determinants (PON 1 gene polymorphisms, in coding region at codon 55, 192 and in promoter region at position – 108) in relation to coronary artery disease (CAD).</td>
</tr>
<tr>
<td>23.</td>
<td>Dr. Ajay Logani</td>
<td>Asstt. Prof. Centre for Dental Education and Research</td>
<td>Evaluation of Atraumatic Restorative Treatment (ART) for dental caries in geriatric patients in a resettlement colony of Delhi.</td>
<td></td>
</tr>
<tr>
<td>S.No.</td>
<td>NAME OF THE INVESTIGATOR</td>
<td>TITLE OF THE PROJECT</td>
<td>AMOUNT ASKED FOR</td>
<td>DURATION</td>
</tr>
<tr>
<td>-------</td>
<td>--------------------------</td>
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<td>------------------</td>
<td>----------</td>
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<tr>
<td>1.</td>
<td>Dr. Amit Gupta Asstt. Prof. Deptt. of Surgery JPNAT Centre</td>
<td>Randomized Control Clinical Trial of Early versus Late Tracheostomy to compare length of mechanical ventilations; and, length of ICU stay in Critically ILL Trauma Patients.</td>
<td>50,000/-</td>
<td>2 years</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. V. K. Iyer Assoc. Prof. Deptt. of Pathology</td>
<td>Prognostication of Pediatric Abdominal Solid Tumors on the Basis of 1p And 16q Chromosomal Deletions.</td>
<td>1,00,000/-</td>
<td>3 years</td>
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<td>3.</td>
<td>Dr. Rajesh Sinha Asstt. Prof. Ophthalmology Dr. R. P. Centre</td>
<td>Lamellar Keratectomy in Central Corneal Ulcers.</td>
<td>1,00,000/-</td>
<td>1 year</td>
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<td>4.</td>
<td>Dr. Sandeep R. Mathur Asstt. Prof. Deptt. of Pathology</td>
<td>Evaluation of apoptosis in breast cancer and its correlation with hormone receptor status, grade and Her 2 neu status.</td>
<td>1,00,000/-</td>
<td>1 year</td>
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<td>5.</td>
<td>Dr. Ramesh Agarwal Asstt. Prof. Deptt. of Pediatrics</td>
<td>Natural history of patent ductus arteriosus (PDA) and cardiac functions in preterm VLBW babies with hemodynamically significant PDA and role of Brain Natriuretic Peptide (BNP) in predicting the need for treatment.</td>
<td>1,00,000/-</td>
<td>1 year</td>
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<tr>
<td>6.</td>
<td>Dr. Atul Sharma Assoc. Prof. Dept. of Medical Oncology, IRCH</td>
<td>Prothrombotic Factors in Patients with Newly Diagnosed Multiple Myeloma-an Observational Study.</td>
<td>1,00,000/-</td>
<td>18th Months</td>
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<td>7.</td>
<td>Dr. Kh Reeta Asstt. Prof. Dept. of Pharmacology</td>
<td>Randomized Double Blind Placebo-Controlled Study to Compare the Efficacy of Riboflavin Versus Propranolol in Prophylaxis of Migraine.</td>
<td>1,00,000/-</td>
<td>1 year</td>
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<tr>
<td>8.</td>
<td>Dr. Achal K.Srivastava Assoc. Prof. Deptt. of Neuroulogy</td>
<td>Study of Risk Factors, Psychiatric Co-Morbid Condition and Disability in Patients of Psychogenic Nonepileptic Seizure (PNES).</td>
<td>1,00,000/-</td>
<td>1 year</td>
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<tr>
<td></td>
<td>Name</td>
<td>Department</td>
<td>Research Topic</td>
<td>Amount</td>
</tr>
<tr>
<td>---</td>
<td>-----------------------</td>
<td>---------------------------</td>
<td>-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>----------</td>
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<tr>
<td>9.</td>
<td>Dr. Vandana Jain</td>
<td>Asstt. Prof. Deptt. of Pediatrics</td>
<td>Adiponectin, C-reactive protein and interleukin-6 in overweight children and adolescents and their relationship with dyslipidemia and insulin resistance.</td>
<td>1,00,000/-</td>
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<tr>
<td>10.</td>
<td>Dr. Alpana Sharma</td>
<td>Asstt. Prof. Deptt. of Biochemistry</td>
<td>Study of extra cellular matrix proteins as prognostic factors in multiple myeloma.</td>
<td>1,00,000/-</td>
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<tr>
<td>11.</td>
<td>Dr. Sambhunath Das</td>
<td>Asstt. Prof. Deptt. of Cardiac Anaesthesia CNC</td>
<td>Role of pentoxifyline in reducing neurocognitive decline and inflammatory response after coronary artery bypass grafting using cardiopulmonary bypass.</td>
<td>1,00,000/-</td>
</tr>
<tr>
<td>12.</td>
<td>Dr. D. N. Sharma</td>
<td>Asstt. Prof. Deptt. of Radiotherapy DR. BRAIRCH</td>
<td>Clinical Impact of PET scan in patients with pelvic recurrence from cervical cancer following radiation therapy.</td>
<td>1,00,000/-</td>
</tr>
<tr>
<td>13.</td>
<td>Dr. Vatsla Dadhwal</td>
<td>Assoc. Prof. Deptt. of Obst. &amp; Gynae.</td>
<td>Screening for Inherited Thrombophilies in Women with Adverse Pregnancy Outcome.</td>
<td>1,00,000/-</td>
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<tr>
<td>14.</td>
<td>Dr. Seema Mishra</td>
<td>Asstt. Prof. Unit of Anaesthesiology Dr. BRAIRCH</td>
<td>Efficacy of The Anterior Ultrasound-Guided Superior Hypogastric Plexus Neurolysis in intractable pelvic cancer pain in advanced gynaecological cancer patients and assessment of Quality of life before the neurolysis and after neurolysis.</td>
<td>1,00,000/-</td>
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<tr>
<td>15.</td>
<td>Dr. G. Sethuraman</td>
<td>Assoc. Prof. Deptt. of Derm. &amp; Vene.</td>
<td>Histopathological and etiological profile of small and medium vessel vasculitis.</td>
<td>1,00,000/-</td>
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<tr>
<td>16.</td>
<td>Dr. Sushmita Pathy</td>
<td>Asstt. Prof. Deptt. of Radiotherapy Dr.BRAIRCHAIIMS</td>
<td>To study the impact of overall treatment time and scheduling of brachytherapy on outcome of concurrent chemo radiotherapy in advanced carcinoma of uterine cervix.</td>
<td>54,000/-</td>
</tr>
</tbody>
</table>
### 17. Dr. Rachna Seth
Asstt. Prof. of Pediatric Oncology
A study of infections in Febrile neutropenic pediatric oncology patients at a tertiary care hospital.
1,00,000/-
3 years

### 18. Dr. S. Seth
Assoc. Prof. Deptt. of Cardiology
Labeling of stem cells with Technetium-99m hexamethylene propylene amine oxine (Tc99mm HMPAO) and to detect the homing of stem cells in the myocardium after intra-coronary injection.
1,00,000/-
1 year

### 19. Dr. Namrata Sharma
Assoc. Prof. of Ophthalmology Dr. R. P. Centre
Comparison of the results of autologous cultured limbal stem cells on amniotic membrane versus amniotic membrane transplantation alone in the management partial limbal stem cell deficiency due to ocular burns.
1,00,000/-
1 year

### 20. Dr. Minati Choudhury
Assoc. Prof. Deptt. of Cardiac Anaesthesia
Osteopontin, a mediator of systemic inflammatory response in high risk cardiac surgical patients.
1,00,000/-
2 years

### 21. Dr. Milind P. Hote
Asstt. Prof. Deptt. of CTVS
Serum osteopontin, a marker of severity of coronary artery disease.
1,00,000/-
2 years

### 22. Dr. Vineet Ahuja
Assoc. Prof. Deptt. of Gastroenterology
Retinoic acid is the “Microenvironmental cue” determining disease activity in patients with Ulcerative colitis.
1,00,000/-
1 year

### COMMUNITY STUDIES

<table>
<thead>
<tr>
<th>S.No.</th>
<th>NAME OF THE INVESTIGATOR</th>
<th>TITLE OF THE PROJECT</th>
<th>AMOUNT ASKED FOR</th>
<th>DURATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>01.</td>
<td>Dr. K. Anand Assoc. Prof. C.C.M.</td>
<td>Validation of available risk assessment scores for Non communicable diseases in adults.</td>
<td>70,000/-</td>
<td>1 year</td>
</tr>
<tr>
<td>02.</td>
<td>Dr. Baridalyme Nongkynrih Asstt. Prof. C.C.M.</td>
<td>Expenditure on Non-Comunicable Diseases-related Risk Behaviours among adults in urban and rural India.</td>
<td>84,500/-</td>
<td>1 year</td>
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## CONTINUATION PROJECTS

<table>
<thead>
<tr>
<th>S.No.</th>
<th>NAME OF THE INVESTIGATOR</th>
<th>TITLE OF THE PROJECT</th>
<th>AMOUNT ASKED FOR</th>
<th>DURATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr. T. C. Nag Assoc. Prof. Deptt. of Anatomy</td>
<td>Mechanism of Muller glial activation in aging human retina: an immunohistochemical investigation.</td>
<td>1,00,000/-</td>
<td>1 year</td>
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<tr>
<td>2.</td>
<td>Dr. Kalpana Luthra Assoc. Prof. Deptt. of Biochemistry</td>
<td>Genetic characteristics of HIV-1 subtype C envelopes inducing v3 antibodies.</td>
<td>1,00,000/-</td>
<td>2 year</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Tanuj Dada Assoc. Prof. for Ophthalmic Sciences Dr. R. P. Centre</td>
<td>Mitochondrial genome mutation analysis in congenital glaucoma.</td>
<td>1,00,000/-</td>
<td>2 year</td>
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<tr>
<td>4.</td>
<td>Dr. N. C. Chandra Asstt. Prof. Deptt. of Biochemistry</td>
<td>A comparative study on expression and/or transcription between LDL receptor (LDLR) and tumor suppressor proteins (p53, pRB) in presence of Insulin, thyroxin and Benzo(a)-pyrene.</td>
<td>1,00,000/-</td>
<td>2 years</td>
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<td>5.</td>
<td>Dr. Renu Dhingra Assoc. Prof. Deptt. of Anatomy</td>
<td>Role of circulating angiogenetic factors in the pathogenesis of Preeclampsia.</td>
<td>75,000/-</td>
<td>2 years</td>
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<tr>
<td>6.</td>
<td>Dr. Sameer Bakhshi Assoc. Prof. Deptt. of Medical Oncology IRCH</td>
<td>To study chromosomal abnormalities and FLT3 Internal Tanden Duplication (ITD) mutations in acute myeloid leukemia.</td>
<td>1,00,000/-</td>
<td>3 years</td>
</tr>
<tr>
<td>7.</td>
<td>Dr. Ashutosh Halder Assoc. Prof. Deptt. of Re-Biology</td>
<td>Rapid Detection of Chromosome X, Y, 21, 18 &amp; 13 Aneuploidy by Primed In Situ Labeling.</td>
<td>1,00,000/-</td>
<td>2 years</td>
</tr>
<tr>
<td>8.</td>
<td>Dr. Neeta Singh Asstt. Prof. Deptt. of Obst. &amp; Gynae.</td>
<td>To evaluate endometrial and sub-endometrial blood flows in the prediction of Pregnancy during In-Vitro fertilization Treatment.</td>
<td>1,00,000/-</td>
<td>2 years</td>
</tr>
<tr>
<td>No.</td>
<td>Name</td>
<td>Project Description</td>
<td>Amount</td>
<td>Duration</td>
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<td>-----</td>
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<td>--------------------------------------------------------------------------------------</td>
<td>------------</td>
<td>----------</td>
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<tr>
<td>9.</td>
<td>Dr. Y. S. Kusuma</td>
<td>Antenatal care: utilization, perceptions and expectations of migrant women in Delhi – a mixed methods study.</td>
<td>99,950/-</td>
<td>2 years</td>
</tr>
</tbody>
</table>

Total                                      51,64,253/-
Total Allocated                            50,00,000/-
Balance                                    1,64,253/-
During the period under review (2009 - 2010), the Examination Section conducted the following Professional and Entrance Examinations:

**A. POSTGRADUATE AND UNDER GRADUATE PROFESSIONAL EXAMINATION**

Details of various undergraduate and postgraduate professional examinations conducted by A.I.I.M.S. from 1.4.2009 to 31.3.2010.

**Data of Professional Examinations held between 1.4.2009 – 31.3.2010**

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Month &amp; Year</th>
<th>Examination</th>
<th>NUMBER OF STUDENTS</th>
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<tbody>
<tr>
<td></td>
<td></td>
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<td>Appeared</td>
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<tr>
<td>1</td>
<td>MAY 2009</td>
<td>Final Postgraduate/Postdoctoral</td>
<td>130</td>
</tr>
<tr>
<td>2</td>
<td>-do-</td>
<td>M.Sc. (Nursing) Phase-I</td>
<td>18</td>
</tr>
<tr>
<td>3</td>
<td>-do-</td>
<td>M.Sc. (Nursing) Phase-II</td>
<td>12</td>
</tr>
<tr>
<td>4</td>
<td>-do-</td>
<td>Final MBBS (Supple.)</td>
<td>9</td>
</tr>
<tr>
<td>5</td>
<td>-do-</td>
<td>Second MBBS (Supple.)</td>
<td>10</td>
</tr>
<tr>
<td>6</td>
<td>-do-</td>
<td>B.Sc. Nursing (Post-certificate)Phase-I</td>
<td>28</td>
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<tr>
<td>7</td>
<td>-do-</td>
<td>Phase-II</td>
<td>16</td>
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<td>8</td>
<td>-do-</td>
<td>B.Sc. (Hons) Nursing Phase-I</td>
<td>62</td>
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<tr>
<td>9</td>
<td>-do-</td>
<td>Phase-II</td>
<td>51</td>
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<tr>
<td>S.No.</td>
<td>Month &amp; Year</td>
<td>Examination</td>
<td>NUMBER OF STUDENTS</td>
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<tr>
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<tr>
<td></td>
<td></td>
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<td>Appeared</td>
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<tr>
<td>10</td>
<td>-do-</td>
<td>Phase-III</td>
<td>46</td>
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<tr>
<td>11</td>
<td>-do-</td>
<td>Phase-IV</td>
<td>52</td>
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<tr>
<td>12</td>
<td>JULY 2009</td>
<td>First Professional MBBS</td>
<td>76</td>
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<tr>
<td>13</td>
<td>-do-</td>
<td>B.Sc. (Hons) Ophthalmic Techniques Phase-I</td>
<td>11</td>
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<tr>
<td>14</td>
<td>-do-</td>
<td>Phase-II</td>
<td>12</td>
</tr>
<tr>
<td>15</td>
<td>-do-</td>
<td>Phase-III</td>
<td>7</td>
</tr>
<tr>
<td>16</td>
<td>-do-</td>
<td>B.Sc.(H) Medical Tech. in Radiography Phase-I</td>
<td>8</td>
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<tr>
<td>17</td>
<td>-do-</td>
<td>Phase-II</td>
<td>7</td>
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<tr>
<td>18</td>
<td>-do-</td>
<td>Phase-III</td>
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<td>19</td>
<td>AUG. 2009</td>
<td>First MBBS Professional (Supplementary)</td>
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<td>NOV. 2009</td>
<td>B.Sc.(H) Ophthalmic Tech. Phase-I (Supple.)</td>
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<td>B.Sc. (H) Medical Tech. in Radiography Phase-I Supple.)</td>
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<td>24</td>
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<td>-do-</td>
<td>M.Sc. (Nursing) Phase-I (Supple.)</td>
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<tr>
<td>26</td>
<td>-do-</td>
<td>Final MBBS</td>
<td>63</td>
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<td>27</td>
<td>-do-</td>
<td>Second MBBS</td>
<td>54</td>
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<tr>
<td>28</td>
<td>-do-</td>
<td>B.Sc. Nursing (Postcertificate) Phase-I (Supple.)</td>
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<tr>
<td>29</td>
<td>-do-</td>
<td>B.Sc. Nursing (Postcertificate) Phase-II (Supple)</td>
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<tr>
<td>30</td>
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<td>B.Sc. (Hons) Nursing Phase-I (Supple.)</td>
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<td>31</td>
<td>-do-</td>
<td>Phase-II (Supple.)</td>
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<td>32</td>
<td>-do-</td>
<td>Phase-III (Supple.)</td>
<td>2</td>
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<td>33</td>
<td>JAN. 2010</td>
<td>Final MBBS (Compartmental examination)</td>
<td>5</td>
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Grand Total: 871 26 749 96
B. Entrance Examinations for Undergraduate and Postgraduate courses:

<table>
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<tr>
<th>Sl. No.</th>
<th>Courses</th>
<th>Date of Examination</th>
<th>No. of Candidates Applied</th>
<th>No. of Candidates Appeared</th>
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<tbody>
<tr>
<td>1.</td>
<td>MD/MS/MDS (AIIMS) July Session 2009</td>
<td>10-05-2009</td>
<td>18318</td>
<td>14703</td>
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<tr>
<td>2.</td>
<td>DM/MCh/MHA July Session 2009</td>
<td>17-05-2009</td>
<td>1751</td>
<td>1415</td>
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<tr>
<td>4.</td>
<td>B.Sc. (Hons) Nursing 2009</td>
<td>14-06-2009</td>
<td>881</td>
<td>635</td>
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<td>6.</td>
<td>B.Sc. (Hons) Paramedical Courses 2009</td>
<td>06-06-2009</td>
<td>189</td>
<td>152</td>
</tr>
<tr>
<td>11.</td>
<td>Senior Residents Ent Examination, July, 2009</td>
<td>26-04-2009</td>
<td>739</td>
<td>492</td>
</tr>
<tr>
<td>12.</td>
<td>MD/MS/MCh (6 yrs)/MDS (AIIMS) January Session 2010</td>
<td>15-11-2009</td>
<td>28603</td>
<td>26794</td>
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<tr>
<td>13.</td>
<td>DM/MCh/MHA January Session 2010</td>
<td>13-12-2009</td>
<td>2201</td>
<td>1815</td>
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<tr>
<td>14.</td>
<td>All India PG Entrance Exam: MD/MS/Diploma/ MDS-2010</td>
<td>10-01-2010</td>
<td>62161</td>
<td>56826</td>
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</tbody>
</table>

Details of Entrance Examination:-

Number of Entrance Exams conducted : 15 (fifteen)
Number of Applicants : 161815 (One lakh sixty one thousand eight hundred fifteen)
Number of candidates appeared : 138799 (One lakh thirty eight thousand seven hundred Ninety nine)

Candidate Passed in Ph.D. Viva-Voce
Examination 1st April, 2009 to 31st March, 2010 : —— (41)
C. Examination for Recruitment

<table>
<thead>
<tr>
<th>S.No</th>
<th>Name of Exam</th>
<th>Written Exam</th>
<th>Interview</th>
<th>Applied</th>
<th>Appeared</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Technical Officer</td>
<td>29.08.2009</td>
<td></td>
<td>29</td>
<td>25</td>
</tr>
<tr>
<td>2.</td>
<td>UDC Departmental Test</td>
<td>06.09.2009</td>
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<td>107</td>
<td>94</td>
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<td>3.</td>
<td>Stenographer</td>
<td>25.10.2009</td>
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<td>1415</td>
<td>523</td>
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Details of Recruitment Examination:

Number of Examinations conducted: 03
Number of Applicants: 1551
Number of candidates appeared: 642

Entrance Examinations conducted:

1. All India PG Entrance Examination for admission to MD/MS/Diploma/MDS Courses against 50% open merit seats quota was held in 126 centres (Local= 25, out station= 101) in 15 cities of India on 10.01.2010. The results were declared on 15th February, 2009.

2. AIIMS PG Entrance Examination for admission to MD/MS/MDS courses was conducted on 10th May, 2009 for July, 2009 session in Delhi at 37 centres and 15th November, 2009 for January, 2010 session at 55 centres respectively. The results were declared on 25th May, 2009 and 25th November, 2009 respectively.

3. Selections for various Post-Doctoral (super-specialty) courses viz. DM/M.Ch and Master in Hospital Administration for July, 2009 and January 2010 sessions were made on the basis of a two stage performance evaluation between 21st – 23rd May, 2009 and 17th - 19th December, 2009 respectively.

4. The Institute has also conducted written test for the Post of Senior Residents/ Senior Demonstrators on 26.04.2009.

5. Selections of candidates for registration to Ph.D. programme for July, 2009 and January 2010 sessions were held between 29th June to 1st July, 2009 and 19th to 21st January, 2010. The results were declared on 3rd July, 2009 and 25th January, 2010 respectively.

6. The Entrance Examination for admission to MBBS course of AIIMS for August 2009 session was held in 91 (local = 42 and outstation = 49) centres in ten cities of India on 1st June, 2009.

7. B.Sc. (Hons.) Nursing Entrance Examination was held in Delhi & Thiruvananthapuram on 14th June, 2009.

8. The Entrance Examination for admission to M.Sc. Course and M. Biotechnology courses August, 2009 session was held in Delhi on 11th July, 2009 and 19th July, 2009 respectively.

9. The Entrance Examination for admission to M.Sc. Nursing course was introduced from the year 2005. This examination was held on 15th June, 2009 in Delhi only. The admission was made by allotment of seats on merit basis through counselling held on 16.07.2009.
10. B.Sc. Nursing (Post-Certificate) Entrance Examination was held in Delhi on 20.06.2009 followed by the personal assessment of candidates on 22.06.2009.

11. The entrance examination for admission to Para-Medical courses viz. B.Sc. (Hons.) Ophthalmic Techniques and B.Sc. (Hons.) Medical Technology in Radiography for August, 2009 session was held in Delhi at one centre on 6th June, 2009. The admissions to these two courses were made by allotment of seats on merit basis through Counselling held on 15th July, 2009.

12. The Examination Section has also conducted Written/Skill Test for recruitment to the following posts at the Institute:
   i) Written Test for the post of Technical Officer at AIIMS was held on 29.08.2009. The interview for same was held on 15.09.2009.
   ii) For Departmental candidate written test for the post of UDC was conducted on 06.09.2009.
   iii) Written Test for the post of Stenographer was conducted by the Examination Section on 25.10.2009 and Skill Test held on 27.10.2009. The interview for same was held on 14.01.2010.

Participation in other events:

1. The Examination Section actively participates in the counselling for admission to AIIMS-PG, B.Sc (Hons) Para-Medical, M.Sc. (Nursing) courses and interview for B.Sc. (Nursing) Post-Certificate course.

2. Professor-in-charge (Exam) has been co-ordinating the evaluation of P.G. students thesis from B.P. Koirala Institute of Health Sciences, Dharan, Nepal.

3. The Institute is also conducting MBBS Entrance Examination of North Eastern Indira Gandhi Regional Institute of Health & Medical Sciences, Shillong, Meghalaya from 2009. This year the examination was conducted on 26.07.2009.

SIGNIFICANT EVENTS

The M.Biotechnology Entrance Examination has now been separated from other M.Sc. courses with effect from August, 2006 session, in order to facilitate the candidate to apply for other M.Sc. courses as well as for M.Biotechnology. The Examination Section has also been conducting the MBBS Entrance Examination of North Eastern Indira Gandhi Regional Institute of Health & Medical Sciences, Shillong, Meghalaya from 2009. The Examination for the year 2009 was held on 26th July, 2009.

As a further step towards introduction of more checks and balances, so as to maintain complete confidentiality and integrity of the examination system, question papers for outstation centres are now kept in the safe custody of SBI branches. In order to avoid any case of impersonation, all candidates are digitally photographed and thumb impressions obtained during the entrance examination. In addition to this physical frisking has also been started from the year 2006.

The Examination Section has also introduced Online Application system for inviting the applications for various Entrance Examination from January, 2010. Candidates can now apply online and also get their Admit Cards downloaded from the Internet.
In All India PG Entrance Examination, each candidate was provided pen to write. This was done to prevent use of any electronic feature inbuilt into pen carried by them.

Frisking of every candidate on main entrance of the examination centre has been introduced to prevent the usage of electronic gadgets during the examination.

Photography (Snapshot) is being done in case of doubt in genuineness of identity of a candidate during the course of the examination.

Cash Transaction has been minimized by sending 90-95% amount through Demand Draft/ Bankers Cheque in advance to the designated Exams. centres.
## 5. General Administration

**Deputy Director (Administration)**

<table>
<thead>
<tr>
<th>Name</th>
<th>IPS/IAS</th>
<th>Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shailesh Kumar Yadav</td>
<td>IPS</td>
<td>(upto 18.12.2009)</td>
</tr>
<tr>
<td>Sharat Chauhan, IAS</td>
<td></td>
<td>(w.e.f. 19.12.2009)</td>
</tr>
</tbody>
</table>

**Chief Administrative Officer**

Attar Singh

**Senior Administrative Officers**

<table>
<thead>
<tr>
<th>Name</th>
<th>Period</th>
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</thead>
<tbody>
<tr>
<td>K.C. Chhoker</td>
<td>(upto 31.01.2010)</td>
</tr>
<tr>
<td>E.L. Lakra</td>
<td></td>
</tr>
<tr>
<td>K.K. Vaid</td>
<td></td>
</tr>
</tbody>
</table>

**Hospital**

Kundan Kumar

**Recruitment & Hostel**

Ravi Chauhan

**JPNA Trauma Centre**

Rajavelu Simon

**General, Estate & Transport**

V.V. Mishra

**ACR/SC/ST & Coordination Cell**

A.K. Nim

**Legal Cell**

Bhagirath Jha

**Faculty Cell/Estt. Section-I & II**

Lalit Kumar

**Assistant Administrative Officers**

<table>
<thead>
<tr>
<th>Location</th>
<th>Name</th>
<th>Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>NDDTC</td>
<td>Uday Singh</td>
<td></td>
</tr>
<tr>
<td>CT &amp; NS Centre</td>
<td>Shyam Lal</td>
<td></td>
</tr>
<tr>
<td>DR. BRA IRCH</td>
<td>Ram Rattan</td>
<td></td>
</tr>
</tbody>
</table>

**SECURITY**

**Deputy Chief Security Officer**

Rajiv Lochan

**Security Officers**

R.S. Rawat

Deepak Kumar

**STORES**

**Stores Officers**

S.S. Bhaduria

K.D. Sharma

Pradeep Kumar Gupta
GENERAL ADMINISTRATION

The General Administration, including personnel and establishment, security, estate, matters related to Engineering Services Department, stores, vigilance and public relations activities of AIIMS 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. A brief description of the activities of these branches is given below.

All matters relating to Establishment Section and General Administration including appointment of staff, arranging meetings of statutory committees, management of estate and property, purchase of equipments, materials and consumables, security arrangements, employees’ welfare are looked after by the administration.

The total sanctioned staff of AIIMS is 9827, including the main hospital, all the centres and administration. These include the following:

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Category/group</th>
<th>Sanctioned strength</th>
<th>In position staff</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Faculty</td>
<td>629</td>
<td>434</td>
</tr>
<tr>
<td>2.</td>
<td>Group ‘A’</td>
<td>320</td>
<td>200</td>
</tr>
<tr>
<td>3.</td>
<td>Group ‘B’</td>
<td>4,189</td>
<td>3,501</td>
</tr>
<tr>
<td>4.</td>
<td>Group ‘C’</td>
<td>2,845</td>
<td>1,940</td>
</tr>
<tr>
<td>5.</td>
<td>Group ‘D’</td>
<td>1,844</td>
<td>2,191</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>9,827</td>
<td>8,266</td>
</tr>
</tbody>
</table>
# 6. Main Hospital

**Medical Superintendent**  
D.K. Sharma

**Additional Professor**  
Siddhartha Satpathy

**Associate Professor**  
I.B. Singh  
Sanjay Arya

## General Information

<table>
<thead>
<tr>
<th></th>
<th>Total Number of Beds (This includes Main Hosp., Bassinets &amp; CNC)</th>
<th>1504</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Main Hosp &amp; Pvt. Wards</td>
<td>1056</td>
</tr>
<tr>
<td></td>
<td>Bassinets</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>CNC</td>
<td>423</td>
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## Hospital Performance Indices

<table>
<thead>
<tr>
<th></th>
<th>2009-10</th>
<th>2008-09</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Main</td>
<td>CCN</td>
<td>Main</td>
</tr>
<tr>
<td>Hospital</td>
<td>Hospital</td>
<td>CNC</td>
<td></td>
</tr>
<tr>
<td>Average length of stay (Days) utilisation of beds.</td>
<td>5.5</td>
<td>7.3</td>
<td>5.9</td>
</tr>
<tr>
<td>Average Bed Occupancy rate %</td>
<td>80.7</td>
<td>79.9</td>
<td>79.9</td>
</tr>
<tr>
<td>Net Death Rate (%)</td>
<td>2.7</td>
<td>4.4</td>
<td>2.7</td>
</tr>
<tr>
<td>Combined crude Infection Rate (%)</td>
<td>8.69</td>
<td>—</td>
<td>7.60</td>
</tr>
</tbody>
</table>

Please See *Appendix I and II* for details.
6.1 Medical Records Services

Medical Records Services

Chief Medical Record Officer &
Sub-Registrar, Births & Deaths
N.K. Sharma

MEDICAL RECORDS SERVICES

a) Education & Training:
   • A group of Medical Record Students from S.D.A. School of Medical Records, Ranchi
     visited in Medical Record Section (Main Hospital) and Out Patient Department of AIIMS
     on 1st April, 2009.
   • A group of Medical Record Technician from St. Stephens Hospital, New Delhi visited in
     Medical Record Section (Main Hospital) and Out Patient Department of AIIMS on 17th
     June, 2009.
   • A group of 21 B.Sc. (PC) Nursing students visited in Medical Record Section (Main
     Hospital) and a brief lecture was delivered on Medical Record Management at AIIMS by
     Sh. N.K. Sharma, Chief Medical Record Officer on 7th August, 2009.

b) Meetings:
   During the year, Dr. Sanjay Arya, Assoc. Professor, Sh. N.K. Sharma, Chief Medical Record
   Officer and Sh. Ashok Kumar, MRT were attended the meeting regarding the Registration of
   Birth & Deaths in the office of M.O.H., Health Department, NDMC, Palika Kendra, New
   Delhi on 28th July, 2009.

c) Court Attendance:
   A total number of 1239 Summons (Average 4 summons per day) were received in the Medical
   Record Section (Main Hospital) from the various Courts of Delhi and Out-side Delhi.

d) Computerization of Medical Record:
   Computerization of Medical Records is in full swing. In the 1st phase, Central Admission Office
   & Hospital Enquiry is computerized. The 2nd phase, the computerization of Medical Record
   Section (Hospital) is under progress, as assurance given by the Computer Facility.

In-Patient Services:

The hospital has maintained its tradition of services and quality of patient care, in-spite of ever
increasing number of Patients that come to this hospital from all over the country as well as from
abroad. A total number of 88486 Patients were admitted during the year in the various clinical
units of the Main Hospital and C.N.C. The Department-wise, State-wise and Gender-wise
admissions are given in Appendix-III & IV. The number of Surgical Procedures performed
during the year in different Surgical Disciplines is given in Appendix -V.
Medical Record of indoor patients is systematically classified and categorized for easy retrievals. These records are stored in the Compactors. All the In-patient records of C. N. Centre are also maintained by the Medical Record Section of the Main Hospital.

In addition to that the following two wards i.e. (i) KMC Ward and (ii) NICU-B has been started w.e.f. 21.4.2009 in the New Private Ward Block for providing the extra care of Mother’s and Kangaroo’s:

1) Kangaroo Mother Care (KMC Ward) - 8 Beds
2) Neonatal Intensive Care Unit (NICU-B) - 10 Beds

**Central Admission Office & Hospital Enquiry:**

Medical Records of Patients admitted to the hospital are initiated from the Central Admission Office which also functions as Enquiry Counter. All types of enquiries regarding Patients, Departments, Doctors and Centres are provided from this office.

This office functions round the clock i.e. 365 x 24. Therefore, the staff working there is on shift duties. This office is manned by Receptionists, Medical Record Technicians & other Ministerial & Hospital staff.

**Out Patient Department and Specialty Clinics**

A total of 1440254* Patients attended the general out-patient department and Specialty Clinics of the Main Hospital. The details of the out-patient load profile are given in Appendix-VI.
### YEARLY STATISTICAL HEALTH BULLETIN (2009 – 2010)

<table>
<thead>
<tr>
<th></th>
<th>MAIN HOSPITAL</th>
<th>CNC</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1. Total Patient Admitted</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. Adults &amp; Children</td>
<td>67838</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>b. New Born Infants</td>
<td>2338</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>2. Total No. of Patients Discharge</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. Adult &amp; Children</td>
<td>60179</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>b. New Born Infants</td>
<td>2274</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>3. Total Days of Care</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. Adult &amp; Children</td>
<td>331370</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>b. New Born Infants</td>
<td>14264</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>4. Average length of Stay (ALS)</strong></td>
<td>5.5</td>
<td>7.3</td>
<td>5.9</td>
</tr>
<tr>
<td>a. Adult &amp; Children</td>
<td>5.5</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>b. New Born Infants</td>
<td>6.3</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>5. Total number of Patient Care days in Hospital (as per daily census)</strong></td>
<td>318240</td>
<td>123263</td>
<td>441503</td>
</tr>
<tr>
<td>a. Adult &amp; Children</td>
<td>313766</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>b. New Born Infants</td>
<td>4474</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>6. Daily Average Number of Patients (as per daily census)</strong></td>
<td>872</td>
<td>338</td>
<td>1210</td>
</tr>
<tr>
<td>a. Adult &amp; Children</td>
<td>860</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>b. New Born Infants</td>
<td>12</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>7. Average % age of Bed occupancy</strong></td>
<td>80.7</td>
<td>79.9</td>
<td>80.4</td>
</tr>
<tr>
<td>a. Adult &amp; Children</td>
<td>81.4</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>b. New Born Infants</td>
<td>48.0</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>8. Births in Hospital</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. Male</td>
<td>1244</td>
<td>—</td>
<td>1244</td>
</tr>
<tr>
<td>b. Female</td>
<td>1094</td>
<td>—</td>
<td>1094</td>
</tr>
<tr>
<td>c. Inter Sex</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>9. Total Death (including new born)</strong></td>
<td>2700</td>
<td>978</td>
<td>3678</td>
</tr>
<tr>
<td>a. Death under 48 hrs.</td>
<td>1052</td>
<td>281</td>
<td>1333</td>
</tr>
<tr>
<td>b. Death over 48 hrs.</td>
<td>1648</td>
<td>697</td>
<td>2345</td>
</tr>
<tr>
<td>c. Gross death rate (in %age)</td>
<td>4.3</td>
<td>6.1</td>
<td>4.7</td>
</tr>
<tr>
<td>d. Net death rate (in %age)</td>
<td>2.7</td>
<td>4.4</td>
<td>3.0</td>
</tr>
<tr>
<td><strong>10. Attendance in Casualty</strong></td>
<td>109605</td>
<td>—</td>
<td>109605</td>
</tr>
<tr>
<td>deaths in Casualty</td>
<td>431</td>
<td>—</td>
<td>431</td>
</tr>
<tr>
<td>Brought Dead in Casualty</td>
<td>250</td>
<td>—</td>
<td>250</td>
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### DEPARTMENT WISE DISTRIBUTION (MAIN HOSPITAL + CNC)

<table>
<thead>
<tr>
<th>Department</th>
<th>Admission</th>
<th>Discharges</th>
<th>Day of Care</th>
<th>Average Length of stay</th>
<th>Total Deaths</th>
<th>Deaths under 48 hrs.</th>
<th>Deaths Over 48 hrs.</th>
<th>Gross Deaths Rate in%</th>
<th>Net Deaths Rate in%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medicine I</td>
<td>1574</td>
<td>1431</td>
<td>12740</td>
<td>8.9</td>
<td>388</td>
<td>176</td>
<td>212</td>
<td>27.1</td>
<td>16.9</td>
</tr>
<tr>
<td>Medicine II</td>
<td>1169</td>
<td>1142</td>
<td>10715</td>
<td>9.4</td>
<td>316</td>
<td>146</td>
<td>170</td>
<td>27.7</td>
<td>17.1</td>
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<tr>
<td>Medicine III</td>
<td>1423</td>
<td>1340</td>
<td>12518</td>
<td>9.3</td>
<td>372</td>
<td>170</td>
<td>202</td>
<td>27.8</td>
<td>17.3</td>
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<tr>
<td>Surgery I</td>
<td>1415</td>
<td>1235</td>
<td>9941</td>
<td>8.0</td>
<td>32</td>
<td>5</td>
<td>27</td>
<td>2.6</td>
<td>2.2</td>
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<td>Surgery II</td>
<td>2244</td>
<td>1792</td>
<td>14401</td>
<td>8.0</td>
<td>48</td>
<td>11</td>
<td>37</td>
<td>2.7</td>
<td>2.1</td>
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<td>Surgery III</td>
<td>1250</td>
<td>1026</td>
<td>9707</td>
<td>9.5</td>
<td>25</td>
<td>5</td>
<td>20</td>
<td>2.4</td>
<td>1.9</td>
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<tr>
<td>Surgery IV</td>
<td>1674</td>
<td>1418</td>
<td>9417</td>
<td>6.6</td>
<td>23</td>
<td>8</td>
<td>15</td>
<td>1.6</td>
<td>1.1</td>
</tr>
<tr>
<td>Orthopaedics I</td>
<td>1763</td>
<td>1490</td>
<td>13105</td>
<td>8.8</td>
<td>1</td>
<td>2</td>
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<td>0.1</td>
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<td>Orthopaedics II</td>
<td>1925</td>
<td>1644</td>
<td>16175</td>
<td>9.8</td>
<td>8</td>
<td>1</td>
<td>7</td>
<td>0.5</td>
<td>0.4</td>
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<tr>
<td>Obst. &amp; Gynaec. I</td>
<td>4234</td>
<td>3705</td>
<td>18931</td>
<td>5.1</td>
<td>4</td>
<td>1</td>
<td>3</td>
<td>0.1</td>
<td>0.1</td>
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<tr>
<td>Obst. &amp; Gynaec. II</td>
<td>3090</td>
<td>2697</td>
<td>16441</td>
<td>6.1</td>
<td>3</td>
<td>—</td>
<td>3</td>
<td>0.1</td>
<td>0.1</td>
</tr>
<tr>
<td>Obst. &amp; Gynaec. III</td>
<td>3234</td>
<td>2926</td>
<td>14480</td>
<td>4.9</td>
<td>14</td>
<td>1</td>
<td>13</td>
<td>0.5</td>
<td>0.4</td>
</tr>
<tr>
<td>Nephrology</td>
<td>4898</td>
<td>4376</td>
<td>15459</td>
<td>3.5</td>
<td>155</td>
<td>56</td>
<td>99</td>
<td>3.5</td>
<td>2.3</td>
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<tr>
<td>Endocrine</td>
<td>473</td>
<td>465</td>
<td>8399</td>
<td>18.1</td>
<td>7</td>
<td>3</td>
<td>4</td>
<td>1.5</td>
<td>0.9</td>
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<tr>
<td>Gastro-Entrology</td>
<td>2608</td>
<td>2416</td>
<td>18784</td>
<td>7.8</td>
<td>503</td>
<td>195</td>
<td>308</td>
<td>20.8</td>
<td>13.9</td>
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<td>Haematology</td>
<td>8839</td>
<td>8107</td>
<td>20345</td>
<td>2.5</td>
<td>234</td>
<td>85</td>
<td>149</td>
<td>2.9</td>
<td>1.8</td>
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<tr>
<td>Psychiatry</td>
<td>355</td>
<td>307</td>
<td>8768</td>
<td>28.6</td>
<td>—</td>
<td>—</td>
<td>—</td>
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<tr>
<td>Urology</td>
<td>5184</td>
<td>3870</td>
<td>16748</td>
<td>4.3</td>
<td>20</td>
<td>6</td>
<td>14</td>
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AIIMS 2009-2010 / 38
## IN-PATIENTS
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# APPENDIX-IV

## STATEWISE DISTRIBUTION OF IN-PATIENTS
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</tr>
<tr>
<td>a) STD(Dermatology Surg.)</td>
<td>712</td>
<td>1190</td>
<td>1902</td>
</tr>
<tr>
<td>b) Allergy Clinic</td>
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<td>1217</td>
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<tr>
<td>c) Leprosy</td>
<td>359</td>
<td>2543</td>
<td>2902</td>
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<tr>
<td>d) Pigmentation</td>
<td>517</td>
<td>2298</td>
<td>2815</td>
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<tr>
<td>e) Psycho-Sexual</td>
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<td>—</td>
<td>—</td>
</tr>
<tr>
<td>f) Dermo-Surgery</td>
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<td>Psychiatry</td>
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<tr>
<td>1. General O.P.D.</td>
<td>1727</td>
<td>—</td>
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<tr>
<td>2. Specialty Clinics</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a) Walk-in-clinic</td>
<td>11899</td>
<td>26327</td>
<td>38226</td>
</tr>
<tr>
<td>b) Child Guidance</td>
<td>445</td>
<td>507</td>
<td>952</td>
</tr>
<tr>
<td>(B) Surgical Disciplines</td>
<td>NEW CASES</td>
<td>OLD CASES</td>
<td>Total</td>
</tr>
<tr>
<td>------------------------------------------</td>
<td>-----------</td>
<td>-----------</td>
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</tr>
<tr>
<td><strong>Surgical Discipline</strong></td>
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<tr>
<td>1. General O.P.D.</td>
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<td>28005</td>
<td>65491</td>
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<td>2. Speciality Clinics</td>
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</tr>
<tr>
<td>a) Plastic Surgery</td>
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<td>b) Urology</td>
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<td>29007</td>
<td>42391</td>
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<tr>
<td>c) G.I. Surgery</td>
<td>2050</td>
<td>5377</td>
<td>7427</td>
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<td><strong>Paediatric Surgery</strong></td>
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<td></td>
</tr>
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<td>a) Hydrocephalus</td>
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<td>225</td>
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<td>b) Inter Sex Clinic</td>
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<td>241</td>
<td>266</td>
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<tr>
<td>c) Paed. Urology</td>
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<td>3032</td>
<td>3362</td>
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<tr>
<td><strong>Anaesthesia Clinics</strong></td>
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<td></td>
<td></td>
</tr>
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<td>a) Pain Clinic</td>
<td>948</td>
<td>2355</td>
<td>3303</td>
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<tr>
<td>b) Pre-Anaesthesia Clinic</td>
<td>7935</td>
<td>1445</td>
<td>9380</td>
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<td><strong>Orthopaedics</strong></td>
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<td>108821</td>
<td>171596</td>
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<tr>
<td>a) Follow up Clinic</td>
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<td>7410</td>
<td>7410</td>
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<tr>
<td>b) Tuberculosis</td>
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<td>902</td>
<td>1141</td>
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<tr>
<td>c) Polio</td>
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<td>—</td>
<td>—</td>
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<tr>
<td>d) Scoliosis</td>
<td>427</td>
<td>1356</td>
<td>1783</td>
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<tr>
<td>e) Hand Clinic</td>
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<td>1238</td>
<td>2055</td>
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<td>f) C.T.E.V.</td>
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<td>1290</td>
<td>1435</td>
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<td>g) Arthritis</td>
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<td>2</td>
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<td>h) Sports Clinic</td>
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<td>3</td>
<td>25</td>
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<tr>
<td><strong>Otorhinolaryngology including Ruas</strong></td>
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<td>1. General O.P.D.</td>
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</tr>
<tr>
<td>a) Audiology</td>
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<td>102</td>
<td>234</td>
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<td>b) Speech</td>
<td>1111</td>
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<td>2629</td>
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<td>c) Hearing</td>
<td>838</td>
<td>1914</td>
<td>2752</td>
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<tr>
<td>d) Voice</td>
<td>632</td>
<td>920</td>
<td>1552</td>
</tr>
<tr>
<td>e) Vertigo</td>
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<td>77</td>
<td>195</td>
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<tr>
<td>f) Rhinology</td>
<td>97</td>
<td>63</td>
<td>160</td>
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<td><strong>Obstetrics &amp; Gynaecology</strong></td>
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<tr>
<td>1. General O.P.D.</td>
<td>29859</td>
<td>50661</td>
<td>80520</td>
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<td>2. Specialty Clinics</td>
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</tr>
<tr>
<td>a) Post Natal</td>
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<td>12</td>
<td>54</td>
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<td>b) Infertility</td>
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<td>—</td>
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<td>c) IVF</td>
<td>354</td>
<td>1444</td>
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<td>d) Family Welfare</td>
<td>8272</td>
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<td>e) Antenatal</td>
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<tr>
<td>f) Endo-Gynaecology</td>
<td>37</td>
<td>71</td>
<td>108</td>
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<tr>
<td>g) High Risk Pregnancy</td>
<td>2415</td>
<td>12588</td>
<td>15003</td>
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<tr>
<td><strong>Radio-Therapy</strong></td>
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<tr>
<td>General O.P.D.</td>
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<td>41950</td>
<td>42363</td>
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<tr>
<td>(B) Surgical Disciplines</td>
<td>NEW CASES</td>
<td>OLD CASES</td>
<td>Total</td>
</tr>
<tr>
<td>--------------------------</td>
<td>-----------</td>
<td>-----------</td>
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<tr>
<td><strong>Dental Surgery</strong></td>
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<td><em>(Data for the period of 1.4.09 to 30.9.09)</em></td>
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<td>1. General O.P.D.</td>
<td>14878</td>
<td>6227</td>
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<td>2. Speciality Clinic</td>
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<td>a) Orthodontics Clinic</td>
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<td>5474</td>
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<tr>
<td>b) Combined Cleft Palate</td>
<td>23</td>
<td>214</td>
<td>237</td>
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<td>c) Tri-Neuralgia Clinic</td>
<td>82</td>
<td>158</td>
<td>240</td>
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<td>d) Restorative-cum-Endodontic</td>
<td>5471</td>
<td>5183</td>
<td>10654</td>
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<tr>
<td>e) Oral Prophylaxis Clinic</td>
<td>3076</td>
<td>4679</td>
<td>7755</td>
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<tr>
<td>f) Prosthodontics-cum-Maxillofacial Prosthesis</td>
<td>5791</td>
<td>8420</td>
<td>14211</td>
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<tr>
<td><strong>Others</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Casualty</td>
<td>109605</td>
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<tr>
<td>2. E.H.S.</td>
<td>101942</td>
<td>67960</td>
<td>169902</td>
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<tr>
<td>3. Nutrition</td>
<td>1626</td>
<td>856</td>
<td>2482</td>
</tr>
<tr>
<td>4. P.M.R.</td>
<td>14042</td>
<td>10369</td>
<td>24411</td>
</tr>
<tr>
<td>5. S.M.C.C.</td>
<td>1972</td>
<td>2129</td>
<td>4101</td>
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<tr>
<td><strong>Total</strong></td>
<td>657238</td>
<td>783016</td>
<td>1440254</td>
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</table>
### 6.2 Hospital Dietetics Services

**Chief Dietician (Actg.)**  
Parmeet Kaur

**Dietician**  
Swapna Chaturvedi

**Assistant Dieticians**  
Gurdeep Kaur  
Richa Jaiswal  
Vasundhara Singh  
Anjali Bhola  
Monita Gahlot

<table>
<thead>
<tr>
<th>Services</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of diets</td>
<td>6,74,561</td>
</tr>
<tr>
<td>Normal diets</td>
<td>3,37,551</td>
</tr>
<tr>
<td>Semisolid</td>
<td>50,565</td>
</tr>
<tr>
<td>Therapeutic Diets</td>
<td>1,44,660</td>
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<tr>
<td>Kitchen based Enteral feeds</td>
<td>42,348</td>
</tr>
<tr>
<td>Commercial Enteral feeds</td>
<td>367</td>
</tr>
<tr>
<td>Private ward diet</td>
<td>99,437</td>
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**Nutrition Clinic - Out patients**

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
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</thead>
<tbody>
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<td>Old OPD patients</td>
<td>856</td>
</tr>
<tr>
<td>Male</td>
<td>513</td>
</tr>
<tr>
<td>Female</td>
<td>343</td>
</tr>
<tr>
<td>New OPD patients</td>
<td>1626</td>
</tr>
<tr>
<td>Male</td>
<td>869</td>
</tr>
<tr>
<td>Female</td>
<td>757</td>
</tr>
</tbody>
</table>
6.3 Welfare Unit

**WELFARE UNIT**

Patients and employees welfare services were organized by the Welfare Officer.

**Patients Welfare:**

**Patients’s Care : Rs. 49,84,400/- (approx.) raised as donation.**

<table>
<thead>
<tr>
<th>Purpose</th>
<th>Donation</th>
<th>Donor</th>
</tr>
</thead>
<tbody>
<tr>
<td>For treatment and surgery of poor and needy patients who are undergoing treatment in the Main Hospital &amp; Centres.</td>
<td>Rs. 6,99,731/-</td>
<td>Shri Sai Bhakta Samaj (Regd.)</td>
</tr>
<tr>
<td></td>
<td>Rs. 5,11,080/-</td>
<td>Handicapped Children’s Rehabilitation Association</td>
</tr>
<tr>
<td></td>
<td>Rs. 2,50,000/-</td>
<td>Jawahar Bhawan Trust</td>
</tr>
<tr>
<td></td>
<td>Rs. 1,33,400/-</td>
<td>Sahu Jain Trust</td>
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<tr>
<td></td>
<td>Rs. 65,000/-</td>
<td>Indo Global Social Service Society</td>
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<tr>
<td></td>
<td>Rs. 63,000/-</td>
<td>Chetnalya</td>
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<tr>
<td></td>
<td>Rs. 45,000/-</td>
<td>Rajendra Bhawan Trust</td>
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<tr>
<td></td>
<td>Rs. 38,737/-</td>
<td>Voluntary Donors</td>
</tr>
<tr>
<td></td>
<td>Rs. 19,800/-</td>
<td>Shirdi Sai Dhaam (Trust)</td>
</tr>
<tr>
<td></td>
<td>Rs. 11,000/-</td>
<td>Sewa Prakalp Mahila Mandal Trust</td>
</tr>
<tr>
<td></td>
<td>Rs. 14,000/-</td>
<td>Vijay Gujral Foundation</td>
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</table>

**AIIMS Poor Fund Account**

<table>
<thead>
<tr>
<th>Donation</th>
<th>Donor</th>
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</thead>
<tbody>
<tr>
<td>Rs. 75,000/-</td>
<td>Mrs. Dwarka Prasad Trust</td>
</tr>
<tr>
<td>Rs. 51,000/-</td>
<td>M/S Cargo Planners Ltd.</td>
</tr>
<tr>
<td>Rs. 10,000/-</td>
<td>Mrs. Anjana Ahluwalia</td>
</tr>
<tr>
<td>Rs. 5,000/-</td>
<td>Mrs. Vimmi Bhutani</td>
</tr>
</tbody>
</table>

**Anti-Cancer drugs provided Free to cancer patients.**

Rs. 29,92,711/- Gopal Foundation

Shakti Sewa Samiti Charitable Trust (Regd.) New Delhi provided House Keeping through professional service provider for Raj Kumari Amrit Kaur OPD. The Trust spent approx. Rs.50 lakhs to provide these services over the past 3 years i.e. 2007-2010. Earlier, the Trust had donated mattresses, steel almirah, blankets, blanket covers, bed sheets, geysers etc. for the benefit of the inmates of the Vishram Sadans.

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 and non governmental agencies.
Assistance to poor patients from Hospital Poor Patient Fund is also extended and they are also guided and helped for admission, exemption of levy charges, investigation charges, etc.

Dharamshalas:

As a welfare activity through the aegis of the AIIMS Hospital Social Welfare Society, the Rajgarhia Vishram Sadan, Sureka Vishram Sadan and Shri Sai Vishram Sadan provided shelter to over 15900 patients and their attendants who were undergoing treatment at the Institute and it’s Centres. In special cases, food is arranged through donors for the poor & needy inmates of the Vishram Sadans. Cancer Patients Aid Association celebrated Diwali with the inmates of the Sadans.

Employees Welfare:

Appointment on Compassionate grounds:

Cases for appointments on compassionate grounds were dealt with. Counselling services and moral support was provided to the family members so as to assist them to accept/overcome the great loss they has suffered and thereby enable them to shoulder the responsibilities befallen upon them. As need be, assistance for funeral expenses was provided to the relatives of the deceased employees. Assistance for school fees was also extended.

Counselling Services:

Counselling 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.

Free Hearse Van Facility:

Free Hearse Van Facility is being organized through Shri Sai Bhakta Samaj (Regd.) to enable easy transportation of the dead body by the distressed relatives to their homes/crematorium in Delhi.

Sports Activities:

Facilitating participation of Institute employees in the Inter-Ministry Tournaments. The AIIMS Badminton Team secured 3rd position in the Men Team Championship of the Inter Ministry Badminton Tournament. Dr. Biplab Mishra secured the Winners in the Men Singles (Qualifying) Inter Ministry Badminton Tournament. The AIIMS Shooting Ball Team won the 28th National Shooting Ball championship.
6.4 Billing Section

**HOSPITAL BILLING SECTION**

Following is the amount of Donation received and the payments made to the patients during the financial year 2009-2010:

- Donations received from donors : **Rs. 1,28,815.00**
- (Bank Int. + donations + Poor fund boxes)
- Payment made to [62+207] 269 patients : **Rs. 89,815.00**

(The amount disbursed to these 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**”).

6.5 Laundry

**LAUNDRY**

The mechanized laundry of AIIMS Hospital is providing its services to all departments of AIIMS Hospital, Dr. R.P.Centre, Dr. B.R.Ambedkar Institute Rotary Cancer Hospital, Cardio-Thoracic and Neuro-Sciences Centre.

Hospital Laundry was visited by several batches of Hospital Administrator attending the causes at National Institute of Health and Family Welfare and by several teams of Doctors from other hospitals in the country. These visits have helped the participants to gain first hand knowledge of the mechanized laundry with a view to start similar system in their respective hospitals.

**Workload during the year 2009-2010 :**

1. Total pieces processed : 38,83,890
2. Total weight (in kgs.) : 11,94,950
3. Total cost of washing material (Rs.) : 18,79,973
4. Cost of washing material per piece : 0.4840
5. Cost of washing material per kg. of linen : 1.573
6.6 Blood Bank

BLOOD BANK

(1) Donor Room
1. Total relative Donors 17536
2. Total Voluntary Donors 19037
   (From Donation camps 10340)
   (From AIIMS Blood Bank 8697)
   (From Mobile Donation Nil)
3. Collected from CNC 1040
   IRCS 1139
   Others 1304
   JPNA Trauma Centre 195

Total Collection 40251

4. Total camps organised 83

(II) Routine Lab
1. Total Patients 45352
2. Total ABO Grouping 125854
3. Total Rh 85603
4. Total OPD grouping & Rh 3661
5. Total X match (Emergency & Routine) 62842
6. Total Donor Grouping 80502
7. Total ICT 1095
   ICT Pos 177
8. Total Titre 85
9. Total A/B 41691
10. Total DCT 615
    DCT Pos 146
11. Total Blood Issued 35373
12. Total Receive Back 523
13. Total small units 928
14. Total blood discarded 3526
15. Blood issued but not transfused Nil
16. Total blood issued to private ward 2979
17. Total component issued to private ward 3127
18. Total blood issued to out side hospital 1218
19. Total component issued to out side hospital 104
20. Total X- match but not transfused 10268
21. Blood issued to IRCH
   IRCS  06
   CNC  141

   Total  512684

(III) Special Procedure Laboratory
1. Minor grouping  73
2. Platelet Antibody  03
3. Reagent Cell Thawing  650
4. Cell freezing  Nil
5. DAT  37
6. Cross matching Discrepancy  54
7. Gr. Discrepancy  16
8. AB Screening  26
9. Blood Thawing  Nil
10. Anti Sera Q.C.  72
11. EQAS  18

   Total  1386

(IV) Component Lab
1. Platelet Rich Concentrate  26624
2. Fresh Frozen Plasma  18639
3. Liquid Plasma  15124
4. Cryoprecipitate  1202
5. Red Blood Cells  33966
6. Single Donor Platelet Pheresis (SDP)  141
7. Component QC  340

   Total Component Prepared  95696

Infection Lab
1. HIV test  46505
2. HBV test  44494
3. Anti HBc test  43866
4. HCV test  44531
5. VDRL  40832

   Total  220228
6.7 Division of Emergency Medicine

Professor Incharge
Praveen Aggarwal

Professor
L. R. Murmu

DIVISION OF EMERGENCY MEDICINE

EDUCATION

The Faculty organized several life support courses (both basic and advanced) for both undergraduates and postgraduates posted in Emergency Medicine. In addition, the department faculty was involved in didactic teaching of undergraduates and postgraduates through journal clubs and seminars.

The department imparted short term training to 11 undergraduate students from Europe, Australia and USA. A few residents from the Department of Community Medicine were also provided training in Emergency.

CONTINUING MEDICAL EDUCATION

Conferences/seminars/workshops organized:

- Division of Emergency Medicine, AIIMS was one of the collaborating partners for the ‘Indo-US Emergency Medicine Summit - 2009’ held at Coimbatore on 30th October – 1st November, 2009. The Conference was hosted by PSG Institute of Medical Sciences & Research. Other collaborating partner was University of South Florida, USA and State University of New York, Downstate Medical Center, USA.

Dr. Praveen Aggarwal


Dr. L.R. Murmu

- “National CME on Advances in Wound Care” on 6th Sept, 2009 at AIIMS, New Delhi.
- “National Patient Safety Conference” on 12th & 13th Oct, AIIMS, New Delhi
- “AIIMS Trauma Alert” during Indo-US Emergency Medicine Summit 2009 on 30th Oct to 1st Nov, 2009 at Coimbatore

Lectures delivered:

The Faculty of the Department participated and delivered lectures in both national and international workshops and conferences during the year.
Dr. Praveen Aggarwal

- ‘Essential Drugs in Emergency Medicine’ at the ‘Expert Group Meeting on National Essential Medicine List’ organized jointly by Central Drugs Standards Control Organization, Ministry of Health, Govt. of India and Department of Pharmacology, AIIMS on 16th September, 2009
- ‘Childhood Poisoning in India’ in ‘Indo-US Emergency Medicine Summit 2009’ on 30th October, 2009 at Coimbatore

Dr. L.R. Murmu

- ‘Medico-legal Issues in Emergency Care’ in ‘Trauma -2009’ at JPNATC, AIIMS

RESEARCH

Funded Research

Dr. Praveen Aggarwal

Completed Projects:

1. To compare the efficacy and safety of intravenous methyl prednisolone followed by oral administration of methyl prednisolone with intravenous hydrocortisone followed by oral prednisolone in the treatment of acute exacerbation of chronic obstructive lung disease – Completed Research; Funded by M/s Pfizer Limited; Funding Rs. 1,24,138; duration of project – one year

2. To compare the efficacy and safety of intravenous methyl prednisolone followed by oral administration of methyl prednisolone with intravenous hydrocortisone followed by oral prednisolone in the treatment of acute bronchial asthma – Completed Research; Funded by M/s Pfizer Limited; Funding Rs. 1,24,138; duration of project – one year

PUBLICATIONS

Chapters in Books:

PATIENT CARE:

The details of various activities of Emergency Services (2009-2010)

Average no. of patients: 9,000/month 1,06,624/year

SIGNIFICANT EVENTS AND HONOURS

In collaboration with University of South Florida, Tampa, USA, Emergency Medicine has started publishing an international journal, Journal of Emergencies, Trauma and Shock (JETS). Dr. Praveen Aggarwal and Dr. L.R. Murmu are the chief Editors of JETS from India, the other two are from USF, Tampa. This journal is published quarterly and has been indexed in PubMed.

To promote the specialty of Emergency Medicine in India, the fourth annual meeting of Academic Council of Emergency and Trauma (ACET) was organized at Coimbatore. This Council includes a group of faculty from MCI recognized medical colleges in India. The goal is to establish and promote the idea of specialty of emergency medicine in India. This Council is led by faculty from Division of Emergency Medicine, AIIMS and Department of Emergency Medicine at University of South Florida, USA.

Dr. Aggarwal has been nominated as a member of Committee constituted by the Indian Pharmacopoeia Commission to revise the National Drug Formulary of India.

Dr. Aggarwal and Dr. Murmu were nominated as members of a Committee constituted by the Governing Body of University College of Medical Sciences for framing recruitment rules for faculty posts for the Department of Emergency Medicine.

Dr. Praveen Aggarwal was invited as the Guest of Honour at the 1st Emergency and Trauma Airway Course (ETAC) & Workshop organized by the Department of Anaesthesiology, Jawaharlal Nehru Medical College, Aligarh Muslim University on 8th-10th August, 2009.
A. EDUCATION

1. Undergraduate:
   i) B.Sc. (Hons.) Nursing - students graduated from the four years course.
   ii) B.Sc. Nursing (Post-certificate) – students graduated from the two Years course.

2. Post Graduate:
   M. Sc. Nursing - students graduated from M. Sc. Nursing two year course.
   Eighteen students have joined the program this year in the following specialties:
   1. Pediatric Nursing
   2. Psychiatric Nursing
   3. Cardiology/CTVS Nursing
   4. Neurosciences Nursing
   5. Oncology Nursing
   6. Critical care Nursing
   7. Nephrology Nursing

3. Continuing Nursing Education (CNE)
   I. The College of Nursing has organized the following CNE programs- Short term courses/ Symposium /Workshops:
      i) “Cardiology Nursing Update” was held in October, 2009. A total of 33 nurses from AIIMS Hospital attended the update. Ms. R. Andrews, Lecturer was the coordinator.
      ii) “Mental Health Nursing update” was held in November, 2009. In all 26 nurses from AIIMS hospital attended the update. Dr. S. Gupta, Lecturer was the coordinator.
      iii) “Oncology Nursing Update” was held in October, 2008. In all 37 nurses from AIIMS hospital attended the update. Ms. K. Sharma, Lecturer, was the coordinator.
iv) “Nephrology Nursing Update” was held in March, 2009. Total 27 nurses from AIIMS hospital attended the update. Ms. D. C. Khakha was the coordinator.

v) Workshop on “Feeding of normal & sick newborns with special emphasis on breast feeding” was held in November, 2007. In all 17 nurses from AIIMS attended the update. Ms. P. Joshi, Tutor was the coordinator.

vi) “Neurological Nursing Update” was held in September, 2008. In all 24 nurses from AIIMS Hospital attended the update. Ms. M. Agarwal, Lecturer was the coordinator.

vii) Workshop on “Substance use disorder nursing” was held on March 2009. In all 17 nurses from AIIMS hospital attended the workshop. Dr. S. Gupta was the coordinator.

viii) Symposium on “Making Hospitals Safe” was held on Annual day of the college. More than 370 nurse participants, students & others from AIIMS hospital attended the program. Ms. R. Andrews, lecturer was the coordinator.

ix) One “Master Trainers training program in HIV/AIDS” funded by INC-GFATM project were held. A Total of 32 Faculty members from different colleges of nursing in Delhi, Chandigarh, Kolkata, SNDT Mumbai, Punjab, Chattisgarh, Gujrat, Rajasthan & Haryana attended the programs. Dr. Manju Vatsa coordinated the workshop.

x) Master Trainer workshop on “Essential Newborn Care” funded by WHO was held in which 30 faculty members from different colleges of nursing in India got the certification

xi) Master trainer in NRP in collaboration with NNF. 28 faculty members got the certification

xii) CON collaborated for Annual conference of the IANN was held in October 2009. Total 150 nurse participants from all over India attended the conference

2. The College of Nursing conducted orientation/briefing sessions for:
   - Two groups of visitors from abroad and 5 groups of visitors from various educational institutions from India.

3. Faculty members of the college attended 21 workshops/conferences & delivered 67 lectures for 35 continuing nursing/medical education programs and workshops held during the year.

B. CONSULTANCY AND PARTICIPATION AS EXPERT

1. Principal, Dr. M. Vatsa participated in/ as:
   - Core group member of Ph.D. consortium in India coordinated by the Indian Nursing Council
   - Took teaching sessions for Ph.D. scholars through Video conferencing
   - Continuing as Guide for 6 Ph.D scholars for consortium for Ph.D. in Nursing, INC & RGUHS
   - Member of the Indian Nursing Council and its executive and education committees.
- Expert group member for INC GFATM project
- Member National Advisory Board, Prism’s Nursing Practice- Journal of clinical nursing – education, training and career development, (earlier called The Journal of Nursing), Quarterly publication of Prism books, Bangalore, since its inception in 2005.
- Member Advisory Board, Journal of Nursing Practice & Research Publication of SKIMS Srinagar.
- Member Advisory Board, ISJBT.
- Member National Editorial Advisory Board, International Journal of Nursing Education, Published from New Delhi.
- Member faculty of nursing BFUHS, Faridkot
- Chairperson Institutional review committee, I P University
- Preconf workshop on CPAP, First annual conference of IANN October 2009
- Board of studies in nursing- BHU Varanasi
- Board of studies in nursing, SGPGI, Lucknow
- Center of excellence in Midwifery SBA - INC JHPIEGO
- Second meeting of the South –East asia Nursing & Midwifery Educational Institutions Network, Yangon, Myanmar,
- Member Committee for complaints regarding sexual harassment of women at workplace, AIIMS
- CMET Adjunct faculty & committee for Skill Lab
- INC QAM Project meeting of expert group
- Invited as expert for valedictory session for the Holistic Health Conference for nursing professionals, “Caring, sharing & Inspiring core values for better nursing care” September 2009
- She was Expert members for
  i. Technical resource group on HRD for Technical support for capacity building and HR planning and Development. NACO-Phase III.
  ii. Development of National maternal health policy, Govt.of India, Ministry of Health and Family Welfare, Maternal Health Division.
  iii. Revision of MTP act, MOH & FW, GOI
  iv. Strengthening of Pre-service education of ANM, GNM as Skilled Birth Attendant, INC.
  v. Technical meeting on strengthening nursing & midwifery programs to support NRHM, INC
  vi. Teaching modules for ANM school teachers for midwifery INC
vii. TOT for ENBC, Nrupur nursing academy, Baroda
viii. Skilled birth attendant modules & teaching –INC & CEDPA
ix. Indian Association of Neonatal Nurses (IANN) president & executive Committee member
x. Guidelines for oral health promotion in disabled population GOI WHO project, Centre for Dental Education & Research, AIIMS
xi. Review meeting on Pre service IMNCI for NIPI states LHMC/ WHO
xii. Expert group meeting on community & home based newborn care – finalization of strategy & modules NIHFW & UNOPS
xiii. Invited as Chief Guest for ENBC training for teachers in Haryana state at MM College of nursing, Mullana Ambala

2. Dr. Manju Vatsa, Principal and Dr. Sandhya Gupta, Lecturer continue to be on review panel of Indian Journal of Nursing and midwifery

3. Dr. Manju Vatsa, Principal and Ms. Sandhya Gupta, Ms. R. Andrews and Ms. Deepika C.Khakha, Lecturers participated as expert for
   i. Development of “training manual for nurses for trainers and nursing personnel in HIV/AIDS” organized by the Indian Nursing Council, & NACO
   ii. Two days orientation training program for trainers for HIV modules organized by the Indian Nursing Council under GFATM project.

4. Dr. S Gupta Is nominated as:
   i. Chief Editor of Indian Society of Psychiatric Nurses
   ii. Joint-organizing secretary for International conference of Indian society of Psychiatric Nursing to be held in 2009 at Bangalore.
   iii. Member of Editorial Board: International Journal of Nursing Education
   iv. Member Expert group of NACO on HIV/AIDS for IDUs, Govt of India
   v. Member Education committee, Indian nursing Council
   vi. Member of technical committee, Indian Standard’s Institute
   viii. Expert group member of committee on geriatric care homes in India by Helpage India
   ix. Participated as expert for revision of syllabus of ‘Nursing management of Substance Use Disorders for Paramedical staff, NDDTC,AIIMS’.
xi. Facilitator for workshops on ‘standards for old age homes’ & ‘standards for long term care’ for the Conference Proceedings of international conference of Gerontology, organized by Indian geriatric society, held in Delhi in February, 2009

5. Ms. Rachel Andrews
   (i) Was trainer for HIV/AIDS TOT under the GMFT project at con AIIMS & Kolkata
   (ii) Coordinator for HIV/AIDS course for the NACO in training of nursing personnel working in ART centers
   (iii) Was expert committee member for developing evaluation tools for the critical care specialty training for nurses organized by booc.
   (iv) Worked as counselor for IGNOU Post basic B.Sc. nursing 2nd year students in Medical Surgical Nursing course (24 hours)

6. Ms. Rachel Andrews, Ms. Deepika Khakha, & Ms. Kamlesh Sharma attended Workshop for “Medical Teachers on Research Methodology Improving Quality of PG thesis’ held at Department of Pediatrics, AIIMS.

7. Ms. Deepika Khakha was
   (i) Co-ordinator for Asian Congress of Urology, Nursing Workshop held on 3-4 October, 08, New Delhi
   (ii) Resource Person for Sessions for NACO Training in HIV Counselling for Pare Medical Staff of Central Paramilitary Forces Medical Services organized by Jamia Milia Islamia University in October 2008

8. Ms. Kamlesh Sharma, Lecturer, was resource persons for
   (i) Training of trainers workshop on “Breast self examination” for CGHS doctors from Delhi in May, 2008, organized at AIIMS, New Delhi.
   (ii) One day workshops on Kangaroo Mother Care (KMC) at Sir Ganga Ram Hospital and Chacha Nehru Hospital in Delhi in November, 2008.
   (iv) For development of training module on Midwifery, organized by INC
   (v) Subcommittee member (DNC) to develop ANM practical records and question bank in December, 2008.


10. Ms. Kiran Singh is continuing as program officer of NSS Unit, AIIMS.

11. Participation of Dr. M. Vatsa, Principal and other faculty members as resource persons/committee members for the following organizations”
    - Various committees at AIIMS
    - Indian Nursing Council – General Body, executive committee and education committee
• Faculty of Nursing, Baba Farid University of Health Sciences
• Ministry of Health and Family Welfare, Govt. of India
• Public Service Commission, Allahabad
• RAK College of Nursing, external lecturers selection committee
• Adjunct faculty, CMET, AIIMS
• Punjab University, Chandigarh - Board of Studies in Nursing
• NEIGRIHMS Shillong – NIMHANS – Selection Committee
• Indira Gandhi National Open University – Core/expert group member
• Trained Nurses Association of India
• Indian Journal of Nursing and Midwifery – Review Committee
• GGS Indraprastha University – Institutional assessment committee
• Indian academy of hospital administration
• I.P. University: inspections, College of Nursing of Batra Hospital & St. Stephen Hospital, Safdarjang & RML Hospitals
• NIPI
• Jamia Milia Islamia University
• Institute of liver & Biliary Sciences, New Delhi

12. Faculty members of the College participated in conduct of inspections and examinations in various colleges of nursing and universities in India.

**CLINICAL AND COMMUNITY SERVICES**

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:
   1. Participated in 6 rounds of Pulse Polio program at 2 centers of South Delhi, organized by Govt. of N.C.T. of Delhi. Ms. Kiran Singh coordinated and supervised the program.
   2. >100 health education sessions in rural areas and >100 in urban slums and OPDS of AIIMS on various health issues, such as B.P. Immunization, New born care, PNC Care etc.
   3. Community awareness camp was organized and supervised which was held in Kalyanpuri area on ‘Prevention of Substance abuse’.
   4. Training program on “Life skills” was organized for Street children and school drop-outs in Trilok puri area for one month.
   5. An educational program was organized for patients recovering from Substance Use disorder who were taking treatment from Trilok puri treatment Centre.
vi) Street plays (10) and exhibitions on various health related topics for urban slums, Prevention of obesity, HIV/AIDS substance abuse, prevention of female feticide.

vii) Newborn week was celebrated in November 2009. Breastfeeding promotion programs in urban & rural community at Ballabhgarh. 100 women actively participated & benefited from the program.

D. PUBLICATIONS


7. Gupta Sandhya, “Investigation into the Quality of Life of institutionalized older persons” Papers published in Conference Proceedings of international conference of Gerontology, organized by Indian geriatric society, held in Delhi in February, 2009


E. AWARDS AND HONOURS
   i) Principal, Dr. Manju Vatsa is Nominated member, faculty of nursing, Baba Farid University of Health Sciences, Faridkot, Punjab.
   ii) Dr. S. Gupta is nominated member of Board of studies –Punjab University, Chandigarh.
8. Research Section

The mandate of the All India Institute of Medical Sciences makes research an important and integral part of the activities of the faculty. AIIMS has been at the forefront of conducting high quality research, both in the fields of basic and applied health sciences. During the year under review, the faculty of AIIMS had 339 ongoing projects and initiated 119 new projects. These were funded by national and international agencies and the total funding was nearly Rs. 56 crores.

The Research Committee constituted by the Director is as follows:

From 1st April 2009 to 31st March 2010

1. Professor Rani Kumar, Dean (Academic) Chairperson
2. Dr N.R. Jagannathan, Professor and Head of NMR Member
3. Dr S. S. Chauhan, Professor of Biochemistry Member
4. Dr Rama Chaudhary, Professor of Microbiology Member
5. Dr Y. D. Sharma, Professor and Head of Biotechnology Member
6. Dr Y.K. Gupta, Professor and Head of Pharmacology Member
7. Dr R. Handa, Professor of Medicine Member
8. Dr C. S. Bal, Professor of Nuclear Medicine Member
9. Dr S. K. Aggarwal, Professor and Head of Nephrology Member
10. Dr G. V. S. Murthy, Additional Professor of Community Medicine Member
11. Dr Sunil Chumber, Sub-Dean (Academic) Member
12. Dr D. K. Mitra, Associate Professor of T.I.I. Member
13. Dr A.K. Dinda, Additional Professor of Pathology Member
14. Dr S. Bhatnagar, Scientist-III, Department of Paediatrics Member
15. Dr A. B. Dey, Professor of Medicine and Professor-in-Charge Member-Secretary (Research Section)

Ongoing projects funded by Indian agencies

<table>
<thead>
<tr>
<th>Investigator</th>
<th>Project</th>
<th>Funding agency</th>
<th>Funds (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rima Dada</td>
<td>Genetic and DNA fragmentation study in infertile couples opting for ART and couples experiencing recurrent IVF/ICSI failure</td>
<td>ICMR</td>
<td>1,040,768</td>
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<td>S. B. Ray</td>
<td>A study on the novel analgesic effect of intraspinal loperamide in a murine model of postsurgical pain</td>
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<td>Shashi Wadhwa</td>
<td>Influence of prenatal chronic noise exposure on brain stem auditory nuclei hippocampus and spatial memory in chicks</td>
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<td>T.S.Roy</td>
<td>Prenatal development and maturation of human inferior colliculus</td>
<td>DST</td>
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<td><strong>Biochemistry</strong></td>
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<td>Alpana Sharma</td>
<td>Role of angiogenic factors and cyclooxygenase in multiple myeloma</td>
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<td>836,116</td>
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<td>Alpana Sharma</td>
<td>Determination of telomerase activity and telomere length in the T-cells of peripheral blood in patients of Parthenium induced contact dermatitis and its correlation with severity of the disease</td>
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<td>1,305,568</td>
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<td>D. N. Rao</td>
<td>A study to assess the effects of long-term obstruction of epididymis on the morphology, functional and chromatin status of epididymal spermatozoa in men: comparison with ejaculated sperm from men of proven fertility</td>
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<td>D. N. Rao</td>
<td>III Clinical trial with an intravasal injectable male contraceptive-RSIUG</td>
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<td>105,434</td>
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<td>D. N. Rao</td>
<td>Multiple antigen peptide approch (MAP) incorporating BT constructs of FI and V antigen of Y pestis in nanoparticles for plague vaccine</td>
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<td>1,314,639</td>
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<td>D. N. Rao</td>
<td>Programme for productization of diagnostics and development of prophylactics for neglected infectious diseases with filariasis as a model</td>
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<td>138,532</td>
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<td>Kalpana Luthra</td>
<td>SDF-1 &amp; DC-SIGNR polymorphisms and expression in HIV-1 infection</td>
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<td>588,100</td>
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<tr>
<td>Kalpana Luthra</td>
<td>Production and characterization of site-selected human monoclonal antibodies against the envelope glycoprotein of HIV-1(Clade-C)</td>
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<td>Kalpana Luthra</td>
<td>Investigation of genetic basis and gene-lifestyle interactions in generalized and regional obesity, insulin resistance and diabetes in Asians</td>
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<tr>
<td>Kunzang Chosdol</td>
<td>An in vitro study of the role of FAT, a Drosophilla tumour suppressor gene homologue in human glial tumorigenesis</td>
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<tr>
<td>M. R. Rajeswari</td>
<td>Neurological disorders Friedreich’s ataxia (FRDA) and spinocerebellar ataxia (SCA) associated with DNA trinucleotide repeats: Identification and development of protein biomarkers and circulating DNA for clinical diagnosis</td>
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<td>510,390</td>
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<td>N. C. Chandra</td>
<td>Studies on SREBP-mediated regulation of low-density lipoprotein receptor (LDLR), low-density lipoprotein receptor-related protein (LRP) and receptor-associated protein (RAP)</td>
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<td>N. C. Chandra</td>
<td>An in vitro model study of hyperlipoproteinemia on the degree of LDL receptor expression in placental trophoblast cells: Correlation with oral steroid contraceptive induced hyperlipoproteinemia</td>
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<td>Neeta Singh</td>
<td>To study the immune response of T cell dominant synthetic peptides derived from HPV-16 using different adjuvants in a mouse model of cervical cancer</td>
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<td>S. S. Chauhan</td>
<td>Mechanism(s) of regulation of human dipeptide peptidase-III expression in tumour cell lines</td>
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<td>Subrata Sinha</td>
<td>Funds for improvement of S&amp;T infrastructure (FIST)</td>
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<td>Subrata Sinha</td>
<td>Deregulated initiation of translation in oral carcinogenesis</td>
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<td>320,708</td>
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<td>Subrata Sinha</td>
<td>Therapy of infectious and chronic diseases. Targeted gene delivery and long-term specific modulation of gene expression</td>
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<td>J. C. Bhardwaj</td>
<td>Reversibility of injectable intravasal contraceptive for the male: Technology development and multicentric non human primates study</td>
<td>MoHFW</td>
<td>293,846</td>
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<td>J. C. Bhardwaj</td>
<td>Evaluation of vaginal microbial flora and sperms after styene maieic anhydride (SMA) application</td>
<td>IIT</td>
<td>169,533</td>
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<td>Sneh Anand</td>
<td>Analysis of autonomic nervous system correlates and health of rhythmic breathing techniques</td>
<td>AYUSH, MoHFW</td>
<td>864,231</td>
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<td><strong>Biophysics</strong></td>
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<td>Punit Kaur</td>
<td>Three-dimensional structure determination of the novel mammalian signaling proteins SPX-40 secreted during involution and their complexes with various oligo-saccharides and designed oligopeptides</td>
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<td>Punit Kaur</td>
<td>Structural and functional studies of peptidoglycan recognition proteins</td>
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<td>811,861</td>
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<td>Savita Yadav</td>
<td>Isolation, purification and structural and functional characterization of new proteins from amniotic fluids and seminal plasma</td>
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<td>Savita Yadav</td>
<td>Purification, biochemical and functional characterization of heparin binding proteins in human seminal plasma</td>
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<td>779,520</td>
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<td>Sharmistha Dey</td>
<td>Development of synthetic alternatives to currently available microbicidal agents</td>
<td>ICMR</td>
<td>911,105</td>
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<td>Sujata Sharma</td>
<td>Structural and functional studies of lactoperoxidase</td>
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<td>R. M. Pandey</td>
<td>New born screening for congenital hypothyroidism and congenital adrenal hyperplasia: A multicentric study</td>
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<td>V. Sreenivas</td>
<td>A multicentric randomized controlled clinical trial of lamivudine, lamivudine and adefovir, glycyrrhizin and adefovir in HBV related decompensated cirrhosis</td>
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<td><strong>Biotechnology</strong></td>
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<td>Anushree Gupta</td>
<td>Polymorphisms in genes of the endothelin system in patients undergoing coronary artery bypass grafting surgery and having a concomitant diagnosis for diabetes</td>
<td>ICMR</td>
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<td>H. K. Prasad</td>
<td>Functional characterization of RV2986c. A DNA binding protein of <em>M. tuberculosis</em></td>
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<td>H. K. Prasad</td>
<td>Comprehensive proteomics profiling of CSF from patients of different meningitis infections for biomarker discovery</td>
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<td>H. K. Prasad</td>
<td>Development of Vaccine for control of Bovine tuberculosis</td>
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<td>H. K. Prasad</td>
<td>Molecular switch in Th1-Th2 response by SMAR1: Its implications in Mycobacterium infection</td>
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<td>J. S. Tyagi</td>
<td>Comprehensive proteomics profiling of CSF proteins from patients of different meningitis infections for biomarker discovery</td>
<td>DBT</td>
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<tr>
<td>J. S. Tyagi</td>
<td>Computational design and development of inhibitors for the treatment of tuberculosis</td>
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<td>J. S. Tyagi</td>
<td>Deciphering the transcriptional profile of dormant and replicating tubercle bacilli within THP-human macrophages</td>
<td>DBT</td>
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<td>J. S. Tyagi</td>
<td>Reconstructing cellular network: Two-component regulatory systems</td>
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<tr>
<td>Satya N. Das</td>
<td>Studies of FAC (CD95) and FAS ligand (CD95L) gene polymorphisms and their association with tobacco related oral carcinomas</td>
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<td>Satya N. Das</td>
<td>Development and characterization of autologous NKT cell vaccine for active specific immunotherapy of oral squamous cell carcinoma</td>
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<td>R. Lakshmy</td>
<td>Evaluation of HDL2, HDL3 and apolipoprotein A1 levels in a large Indian industrial population: Association with genetic variants in CETP, LCAT, hepatic lipase and LPL gene</td>
<td>DST</td>
<td>1,730,053</td>
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<td>R. Lakshmy</td>
<td>Relation of candidate gene variants regulating triglyceride metabolism to serial changes in childhood body mass index and coronary artery disease risk factors in young adulthood</td>
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<td>R. Lakshmy</td>
<td>Low dose magnesium sulphate regimen for management of eclampsia: A randomized controlled trial</td>
<td>ICMR</td>
<td>60,267</td>
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<tr>
<td>R. Lakshmy</td>
<td>Circulating endothelial progenitor cells in CAD patients: Role of telomere length and telomerase activity in EPC senescence</td>
<td>DBT</td>
<td>998,525</td>
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<td><strong>Cardiac Radiology</strong></td>
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<td>Gurpreet Gulati</td>
<td>MRI for in vivo tracking iron oxide labeled mesenchymal stem cells in a rat model of heart failure</td>
<td>DBT</td>
<td>874,829</td>
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<td><strong>Cardiology</strong></td>
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<td>Anita Saxena</td>
<td>To study the prevalence of rheumatic heart disease among children of 5–15 years age group in Ballabhgarh block of Haryana using echocardiography with Doppler (Pilot study)</td>
<td>ICMR</td>
<td>198,600</td>
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<td>Balram Bhargava</td>
<td>Efficacy of stem cell in improvement of left ventricular function in patients with acute myocardial infarction</td>
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<td>1,273,645</td>
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<td>Balram Bhargava</td>
<td>Stanford India Biodesign SIB Programme</td>
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<td>21,529,017</td>
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<td>Balram Bhargava</td>
<td>Cardiovascular product evaluation support service for industry</td>
<td>DBT</td>
<td>5,141,999</td>
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<td>Balram Bhargava</td>
<td>Biodesign in Medicine</td>
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<td>729,442</td>
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<td>R. Juneja</td>
<td>Intravascular ultrasound for severe pulmonary artery hypertension in congenital heart diseases</td>
<td>DST</td>
<td>672,879</td>
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<td>Rakesh Yadav</td>
<td>Zyban as an effective smoking cessation aid for patients following an acute coronary syndrome</td>
<td>Centre for Chronic</td>
<td>201,290</td>
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<tr>
<td><strong>Department</strong></td>
<td><strong>Researcher</strong></td>
<td><strong>Project Title</strong></td>
<td><strong>Institute</strong></td>
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<tr>
<td>Cardiothoracic and Vascular Surgery</td>
<td>Balram Airan</td>
<td>Establishment of centre for stem cell research: Basic and translational</td>
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<td>Balram Airan</td>
<td>Use of autologous bone marrow stem cells for myocardial regeneration</td>
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<td>Centre for Behavioural Sciences (Psychiatry)</td>
<td>Nand Kumar</td>
<td>Effects of breathing techniques (SKY) with standard treatment on depressive disorder patients in comparison to standard treatment alone</td>
<td>ICMR</td>
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<td>R. K. Chadda</td>
<td>Development of Pharmacogenomics SNP database for critical candidate genes involved in drug response for Schizophrenia</td>
<td>DBT</td>
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<td>Rajesh Sagar</td>
<td>Efficacy and safety of a gomeiatine (25mg/day with potential adjustment at 50mg/day) given orally compared to placebo in addition to a mood stabilizer in bipolar patients with a current major depressive episode</td>
<td>Quintiles Spectral India</td>
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<td>Centre for Community Medicine</td>
<td>K. Anand</td>
<td>NCD risk factor surveillance under Integrated Diseases Surveillance Project</td>
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<td>Centre for Dental Education and Research</td>
<td>O. P. Kharbanda</td>
<td>Computerised cephalogram analysis for orthodontics</td>
<td>Central Scientific Instruments Organization</td>
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<td>Ritu Duggal</td>
<td>Assessment of safety profile for dental procedures in India</td>
<td>MoHFW</td>
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<td>Dermatology and Venereology</td>
<td>K. K. Verma</td>
<td>Randomized clinical trial of azathioprine weekly pluse versus daily azathioprine for the treatment of parthenium dermatitis</td>
<td>ICMR</td>
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<td>Neena Khanna</td>
<td>Prevalence of antibiotic resistant Propionibacterium acnes and periadolescent acne before and after treatment with oral retinoids</td>
<td>ICMR</td>
<td>559,761</td>
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<td>Somesh Gupta</td>
<td>A comparative study of effectiveness of immunotherapy with intrallesional injection of killed <em>Mycobacterium</em> w vaccine and imiquimod cream in clinical resolution of external anogenital warts and reduction of viral load: A randomized trial</td>
<td>DBT</td>
<td>1,835,300</td>
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<td>V. K. Sharma</td>
<td>Evaluation of cyclophosphamide pulse therapy as adjuvant in the management of pemphigus</td>
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<td>V. K. Sharma</td>
<td>Programme support for skin pigmentation and melanocyte–keratinocyte biology</td>
<td>DBT</td>
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<td><strong>Dr B. R. Ambedkar Institute–Rotary Cancer Hospital</strong></td>
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<td>Atul Sharma</td>
<td>Randomized phase III b, multicentre, open-label parallel study of enoxaparin (low molecular weight heparin) given concomitantly with chemotherapy vs chemotherapy alone in patients with inoperable gastric and gastro-oesophageal cancer</td>
<td>Criterium</td>
<td>881,687</td>
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<td>B. K. Mohanti</td>
<td>Patterns of care and survival studies in cancers: Registry programme</td>
<td>ICMR</td>
<td>643,717</td>
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<td>Lalit Kumar</td>
<td>Lenalidomide plus low dose dexamethasone versus thalidomide plus low dose dexamethasone for multiple myeloma: A randomized phase III study</td>
<td>Dr Reddys Lab.</td>
<td>170,394</td>
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<td>Lalit Kumar</td>
<td>CML registry: An observational study</td>
<td>Novartis India</td>
<td>81,027</td>
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<td>Lalit Kumar</td>
<td>To study the molecular biology of multiple myeloma</td>
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<td>1,067,599</td>
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<td>Lalit Kumar</td>
<td>Endothelial progenitor cells as biomarker of disease activity in multiple myeloma</td>
<td>DBT</td>
<td>410,791</td>
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<td>P. K. Julka</td>
<td>A phase III trial of ALIMTA vs. docetaxel in patients with locally advanced or mmetastatic non-small cell lung cancer</td>
<td>Ranbaxy/ Eli Lilly &amp; Co.</td>
<td>885,963</td>
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<td>P. K. Julka</td>
<td>A randomized double blind placebo controlled multicentre phase 3 study of denosumab on prolonging bone metastasis free survival in men with hormone refractory prostate cancer</td>
<td>Quintiles Spectral India</td>
<td>468,980</td>
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<td>Ritu Gupta</td>
<td>Molecular and immunological basis of biological heterogeneity in chronic lymphocytic leukemia</td>
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<td>Ritu Gupta</td>
<td>Regulatory T cells repertoire in plasma cell myeloma</td>
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<td>Sameer Bakhshi</td>
<td>An open label multicentric study to assess the efficacy and safety of pegylated recombinant human granulocyte colony stimulating factor (pegfilgastrin) injections in patients undergoing myelosuppressive chemotherapy</td>
<td>Cadila Health Care</td>
<td>112,561</td>
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<td>Sameer Bakhshi</td>
<td>Evaluation of prognostic value of FDG-PET after two cycles of chemotherapy in pediatric and adolescent high grade lymphomas</td>
<td>DBT</td>
<td>957,591</td>
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<td>Sameer Bakhshi</td>
<td>Pharmacokinetic and toxicity profile of high dose methotrexate: Relationship with serum creatinine and MTHER polymorphisms in Indian children</td>
<td>Jiv Daya Foundation</td>
<td>508,678</td>
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<tr>
<td>Sameer Bakhshi</td>
<td>An open label multicentric study to assess the efficacy and safety of recombinant human granulocyte colony stimulating factor (filgastrim) injections in patients undergoing myelosuppressive chemotherapy</td>
<td>Cadila Health Care</td>
<td>188,413</td>
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<tr>
<td>V. Raina</td>
<td>A double-blind, randomized phase 2b study evaluating the efficacy and safety of sorafenib compared to placebo when administered in combination with paclitaxel in patients with locally recurrent or metastatic breast cancer</td>
<td>Reliance Clinical Research Services</td>
<td>1,813,632</td>
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<td>V. Raina</td>
<td>Evaluation of circulating tumour DNA in serum of breast cancer patients</td>
<td>DBT</td>
<td>679,000</td>
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<td>V. Raina</td>
<td>A treatment protocol for patients with gastrointestinal stromal tumour who are ineligible for participation in other SU011248 protocols and are refractory to or intolerant of imatinib mesylate</td>
<td>Pfizer</td>
<td>635,594</td>
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<tr>
<td>V. Raina</td>
<td>A SU011248 expanded access protocol for systemic therapy of patients with metastatic renal cell carcinoma who are ineligible for participation in other SU011248 protocols but may derive benefit from treatment with SU011248</td>
<td>Pfizer</td>
<td>688,386</td>
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<td>V. Raina</td>
<td>Randomized phase 3 trial of ALIMTA (PEMETREXED) and carboplatin versus etoposide and carboplatin in extensive-stage small cell lung cancer</td>
<td>Ranbaxy/Eli Lilly &amp; Co.</td>
<td>119,369</td>
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<td>Dr Rajendra Prasad Centre for Ophthalmic Sciences</td>
<td>Use of autologous bone marrow derived stem cells for rehabilitation of patients with age related macular degeneration and retinitis pigmentosa: A phase 1 clinical trial</td>
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<tr>
<td>Name</td>
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<td>Gita Satpathy</td>
<td>Development of small interfering RNAs [(s)RNAs] for inhibition of Enterovirus 70 and Coxsackievirus zA24 virus causing acute hemorrhagic conjunctitis</td>
<td>DBT</td>
<td>1,660,778</td>
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<td>Niranjan Nayak</td>
<td>Phenotypic molecular and ultrastructural study of coagulase negative <em>Staphylococci</em> and their biofilms in device related infections</td>
<td>ICMR</td>
<td>316,216</td>
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<td>Radhika Tandon</td>
<td>Development of a potential bio-polymer to serve as an alternative substrate of human amniotic membrane for ex-vivo expansion of corneal epithelial stem cells</td>
<td>DBT</td>
<td>921,875</td>
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<td>Rohit Saxena</td>
<td>Assessment of magnitude and progression of myopia in school going children in Delhi</td>
<td>DST</td>
<td>1,364,490</td>
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<td>T. Velpandian</td>
<td>Development of topical ocular formulation of calcium dobesilate and evaluation of its formulation characteristics</td>
<td>Ozone Pharmaceuticals</td>
<td>365,792</td>
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<td>T. Velpandian</td>
<td>Development of novel water-soluble isoflavone derivatives using in-silico approach and determination of its ocular pharmacological activity in experimental model of post-menopausal dry eye</td>
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<td>Endocrinology and Metabolism</td>
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<td>A. C. Ammini</td>
<td>B-cell dysfunction versus insulin resistance in polycystic ovary syndrome in Indian women</td>
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<td>A. C. Ammini</td>
<td>Congenital adrenal hyperplasia: Genotype phenotype correlation</td>
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<td>792,472</td>
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<td>A. C. Ammini</td>
<td>A phase II multicenter, randomized, double-blinded, placebo and active comparator controlled study to evaluate the safety and efficacy of MBX-102/JNJ-39659100 in patients with type 2 diabetes mellitus with inadequate glycemic control on metformin monotherapy</td>
<td>Pharm-Olam International</td>
<td>47,520</td>
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<td>A. C. Ammini</td>
<td>Effects of arzoxifene on vertebral fracture incidence and on invasive breast cancer incidence in postmenopausal woman with osteoporosis or with low bone density</td>
<td>Quintiles Spectral India</td>
<td>1,421,879</td>
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<td>A. C. Ammini</td>
<td>A phase 2B long-term randomized, open-label safety and tolerability trial comparing (S.S.) reboxetine (PNU-165442G) with routine care in patients with chronic painful diabetic peripheral neuropathy (DPN) clinical trial agreement</td>
<td>Pfizer</td>
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<td>M. L. Khurana</td>
<td>Development of N-BNP assay for screening of cardiovascular disease in patients with type II diabetes mellitus</td>
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<td>M. L. Khurana</td>
<td>Relationship of androgens deficiency to the bone mineral density in aging men</td>
<td>ICMR</td>
<td>780,271</td>
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<td>Nikhil Tandon</td>
<td>Registry of people with diabetes in India with young age at onset</td>
<td>ICMR</td>
<td>1,243,871</td>
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<td>Nikhil Tandon</td>
<td>A randomized, double-blind, placebo-controlled, parallel group study to determine whether, in patients with type 2 diabetes at high risk for cardiovascular and renal events, aliskiren, on top of conventional treatment, reduces cardiovascular and renal morbidity and mortality</td>
<td>Novartis India</td>
<td>2,106,750</td>
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<td>Nikhil Tandon</td>
<td>Safety and efficacy of exenatide once weekly injection versus metformin depeptidyl peptidase-4 inhibitor or thiazolidinedione as monotherapy in drug naive patient with type 2 diabetes</td>
<td>Eli Lilly</td>
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<td>Rajesh Khadgawat</td>
<td>Correlation between first trimester glucose screening and serum insulin levels with development of gestational diabetes mellitus in pregnancy</td>
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<td>Ravinder Goswami</td>
<td>Prevalence and significance of celiac disease in patients with type 1 diabetes</td>
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<td>Ravinder Goswami</td>
<td>Role of oral vitamin D as an adjunct therapy in category I pulmonary tuberculosis along with assessment of immunological parameter (Double-blind randomized, placebo-controlled, clinical trial)</td>
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<td>Viveka P. Jyotsna</td>
<td>Effect on glycemic control, depression and quality of life, in patients of diabetes mellitus with rhythmic breathing (Sudarshan Kiya Yoga and Pranayam) in addition to standard treatment of diabetes</td>
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<td>Phase II/III randomized placebo controlled clinical trial of curcumin in squamous head and neck cancers</td>
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<td>Alok Thakar</td>
<td>Prevalence of hypothyroidism following treatment of head neck cancer and its impact on quality of life</td>
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<td>Gastroenterology and Human Nutrition Unit</td>
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<td>Anoop Saraya</td>
<td>Study on prognostic significance of protease expression and molecular markers in patients with carcinoma of pancreas</td>
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<td>Govind Makharia</td>
<td>A multicenter study of efficacy and safety of DOTS category I regimen in abdominal tuberculosis under revised national tuberculosis control program</td>
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<td>Govind Makharia</td>
<td>Detection of Mycobacterial pathogens in patients with Crohn’s disease</td>
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<td>Pramod Garg</td>
<td>A study of mutational and histopathological risk factors for gallbladder cancer in patients with gallstones</td>
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<td>S. K. Acharya</td>
<td>FIST infrastructure in universities and higher educational institutes</td>
<td>DST</td>
<td>199,684</td>
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<td>S. K. Acharya</td>
<td>Advanced center for liver diseases</td>
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<td>7,068,944</td>
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<td>S. K. Acharya</td>
<td>Identification of a biomarker for differentiation of Crohn’s disease from intestinal tuberculosis using proteomics and gene expression analysis</td>
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<td>S. K. Acharya</td>
<td>An open label response adaptive study of telbivudine in adults with HBeAg positive compensated chronic hepatitis B</td>
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<td>Umesh Kapil</td>
<td>Efficacy of daily iron folic acid supplementation in correction of iron deficiency anemia amongst 3–5 years old children</td>
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<td>Y. K. Joshi</td>
<td>Assessment of intestinal permeability in chronic liver disease and its consequences</td>
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<td><strong>Haematology</strong></td>
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<td>Tulika Seth</td>
<td>Community based planned intervention for change in perception and health seeking behaviour of cancer in Delhi: A pilot study</td>
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<td>Renu Saxena</td>
<td>Role of nitric oxide in the development of stroke</td>
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<td>Renu Saxena</td>
<td>Evaluation of platelet receptor polymorphism in patients with coronary artery disease</td>
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<td>Renu Saxena</td>
<td>Modulation of genes in response to Imatinib therapy in the Philadelphia-chromosome-positive chronic myeloid leukemia</td>
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<td>Renu Saxena</td>
<td>Evaluation of molecular parameters affecting biology of chronic lymphocytic leukemia in India</td>
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<td>Renu Saxena</td>
<td>Thalassemia awareness and screening programme for detection of Thalassemia trial</td>
<td>National Thalassemia Welfare Society</td>
<td>90,245</td>
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<td><strong>Jai Prakash Narayan Apex Trauma Centre</strong></td>
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<td>Purva Mathur</td>
<td>Efficacy of a short course of prophylactic antibiotic treatment for prevention of postoperative infections in open reduction and internal fixation of closed fractures</td>
<td>ICMR</td>
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<tr>
<td>Purva Mathur</td>
<td>Molecular and epidemiological study of <em>Streptococcus pyogenes</em> in India</td>
<td>ICMR</td>
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</table>

<p>| <strong>Laboratory Medicine</strong> |
|------------------------|---------------------------------|----------------|
| A. K. Mukhopadhyay | Assessment of risk factor associated with Alzheimer’s disease and vascular dementia | ICMR | 757,295 |
| A. K. Mukhopadhyay | Study of oxidative stress risk factors in Alzheimer’s disease and vascular dementia in geriatric patients | ICMR | 494,163 |
| A. K. | Effect of yoga on serum interleukin levels in Mukhopadhyay adolescents with depression | Central Council for Research in Yoga and Naturopathy | 1,175,288 |
| M. Irshad | Cloning sequencing and expression of different genomic regions of transfusion transmitted virus (TTV) prevalent in Indian population | ICMR | 1,104,110 |
| M. Irshad | Role of Hepatitis C virus (HCV) core protein in diagnosis and pathogenesis of HCV infection | ICMR | 1,202,596 |
| Sarman Singh | Identification of <em>Leishmania donovani</em> reservoir (S) in various animal species of endemic areas using species-specific antibodies and PCR technique | DST | 480,924 |
| Sarman Singh | Genotyping of <em>Mycobacterium tuberculosis</em> isolates from an endemic area of Delhi and determining their transmission dynamics in the house hold contacts and the community using molecular methods | ICMR | 1,244,880 |
| Sarman Singh | Isolation and purification of active compounds with anti-leishmanial acitivity of unani medicinal plants | Central Council for Research in Unani Medicine | 1,229,680 |
| Sarman Singh | Proteomic analysis of <em>M. tuberculosis</em> during the stage of acquisition of resistance to isoniazid and rifampicin | DBT | 1,165,098 |
| Sarman Singh | Developing a novel multiplex PCR assay for simultaneous detection and differentiation of hepatitis | DBT | 713,475 |</p>
<table>
<thead>
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<th>Name</th>
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<tr>
<td>A &amp; E, Salmonella spp., Entamoeba histolytica and Giardia lamblia directly from drinking water samples</td>
<td>A novel multiplex PCR assay for simultaneous detection and differentiation of <em>Mycobacterium tuberculosis</em>, <em>M. avium</em> complex and other Mycobacterium species directly from clinical samples of suspected tuberculosis cases</td>
<td>DBT</td>
<td>1,470,360</td>
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<td>Sarman Singh</td>
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<td>A. B. Dey</td>
<td>Development of a web-portal directed at welfare of older people</td>
<td>DST</td>
<td>1,066,572</td>
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<td>A. B. Dey</td>
<td>Health emergencies in older people: Predictors of hospital revisit and adverse outcome</td>
<td>ICMR</td>
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<td>Anant Mohan</td>
<td>Study of variability in the degree of systemic inflammation in patients with chronic obstructive pulmonary disease due to tobacco and non-tobacco related causes</td>
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<td>Anant Mohan</td>
<td>Mitochondrial DNA mutations and its clinical applications in lung cancer</td>
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<td>Randeep Guleria</td>
<td>Genetic, metabolic and hormonal profile in obstructive sleep apnoea syndrome</td>
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<td>Randeep Guleria</td>
<td>Serum leptin, nutritional status and inflammatory markers in chronic obstructive pulmonary disease. Relationship with dyspnea and severity of disease</td>
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<td>Randeep Guleria</td>
<td>Clinical implications of circulating DNA and protein markers in lung cancer</td>
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<td>Randeep Guleria</td>
<td>To compare the efficacy of yoga and pulmonary rehabilitation on dyspnoea, muscle strength, inflammatory markers and quality of life in patients with chronic obstructive pulmonary disease</td>
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<td>Randeep Guleria</td>
<td>A randomized, double-blind, placebo controlled, exploratory study to assess the safety and efficacy of multiple doses of ACZ885 in COPD</td>
<td>Novartis India</td>
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<td>Randeep Guleria</td>
<td>Double blind randomized placebo controlled trial of herbal compound MA-364 in patients with mild to moderate bronchial asthma</td>
<td>Maharishi Ayurveda</td>
<td>44,326</td>
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<td>S. K. Sharma</td>
<td>Impact of HIV infection on latent TB among patients with HIV–TB co-infection</td>
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<td>S. K. Sharma</td>
<td>International, multi-centre, randomized, double blind study to compare the overall mortality in acutely ill patients with HIV- and TB co-infection</td>
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<td>S. K. Sharma</td>
<td>Medical patients treated with enoxaparin versus placebo in addition to graduated elastic stocking. Comparison of tuberculin skin test (TST) and interferon-y release assay in latent TB infection and tuberculosis disease</td>
<td>Research Services NCT</td>
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<td>S. K. Sharma</td>
<td>Obstructive sleep apnoea and the effect of treatment with continuous airway pressure (CPAP) on metabolic syndrome</td>
<td>Pfizer</td>
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<td>S. K. Sharma</td>
<td>A Phase II, placebo-controlled, double-blind, randomized trial to evaluate the anti-bacterial activity, safety, and tolerability of TMC207 in subjects with sputum smear-positive pulmonary infection with multi-drug resistant <em>Mycobacterium tuberculosis</em> (MDR-TB)</td>
<td>Johnson &amp; Johnson</td>
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<td>S. K. Sharma</td>
<td>Efficacy and safety of immunomodulator mycobacterium w, mw as an adjunct therapy in pulmonary tuberculosis</td>
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<td>S. K. Sharma</td>
<td>Anti retroviral treatment</td>
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<td>S. K. Sharma</td>
<td>Efficacy of thrice weekly intermittent short course antituberculosis chemotherapy in tuberculosis patients with and without HIV infection</td>
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<td>S. K. Sharma</td>
<td>Evaluation of the efficacy of thrice weekly DOTS regimen in TB pleural effusion at six months</td>
<td>Directorate General Health Services</td>
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<td>S. K. Sharma</td>
<td>Role of oral vitamin D as an adjunct therapy in category I pulmonary tuberculosis along with assessment of immunological parameter s (Double-blind, randomized, placebo-controlled, clinical trial)</td>
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<td>S. K. Sharma</td>
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<td>Sanjeev Sinha</td>
<td>Study of early versus delayed initiation of antiretroviral therapy for HIV infected patients with tuberculosis on antituberculosis chemotherapy in Indian subjects</td>
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<td>Nevirapine versus efavirenz based highly active antiretroviral therapy regimens in antiretroviral-naive patients with HIV and tuberculosis infection in India</td>
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<td>Uma Kumar</td>
<td>Genome sciences and predictive medicine</td>
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<td>Uma Kumar</td>
<td>A phase IIIB multicenter, randomized, double-blind, double-dummy study to compare the efficacy and safety of Abatacept administered subcutaneously and intravenously in subjects with rheumatoid arthritis, receiving background methotrexate, and experiencing an inadequate response to methotrexate</td>
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<td><strong>Microbiology</strong></td>
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<td>Arti Kapil</td>
<td>Mechanisms of resistance to ciprofloxacin in <em>Salmonella typhi</em></td>
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<td>Arti Kapil</td>
<td>Comprehensive proteomics profiling of CSF proteins from patients of different meningitis infections for biomarker discovery</td>
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<td>Arti Kapil</td>
<td>Development of nanosilver nanohydrogets for biomedical applications</td>
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<td>B. K. Das</td>
<td>Pneumolysin DNA construct as a vaccine candidate against <em>Streptococcus pneumoniae</em>: An immune response study</td>
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<td>B. R. Mirdha</td>
<td>Study of genetic diversity and phylogenetic analysis of pneumocystis proved isolated obtained from patients with clinical diagnosis of <em>Pneumocystis carinii</em> pneumonia (PCP)</td>
<td>CSIR</td>
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<td>Benu Dhawan</td>
<td>Molecular tracking of community-associated methicillin resistant <em>Staphylococcus aureus</em> strains disseminating in a tertiary hospital</td>
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<td>Madhu Vajpayee</td>
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<td>Rama Chaudhary</td>
<td>Cloning and expression of flagellin gene of <em>Salmonella typhi</em>: An immunodiagnostic approach</td>
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<td>Rama Chaudhary</td>
<td>To study colonization and immunomodulatory effect of probiotic strains in Indian children</td>
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<td>Rama Chaudhary</td>
<td>Administration of <em>Lactobacillus rhamnosus</em> GG for the prevention and treatment of <em>Clostridium difficile</em> infection and subsequent diarrhea in Indian population</td>
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<td>Seema Sood</td>
<td>Development of DNA biosensor for detection of <em>Neisseria gonorrhoea</em> in clinical samples</td>
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<td>Shobha Broor</td>
<td>Respiratory virus infections: Rapid low molecular detection</td>
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<td>Shobha Broor</td>
<td>Cloning and expression of G protein gene of group B respiratory syncytial viruses in bacterial and mammalian systems and their antigenic as well as biophysical characterization</td>
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<td>Shobha Broor</td>
<td>An RNA interference based approach to study the simultaneous inhibition of respiratory syncytial virus (<em>hRSV</em>) and human metapneumovirus virus (<em>hMPV</em>) multiplication in tissue culture and animal model</td>
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<td>Urvashi B. Singh</td>
<td>Comprehensive proteomics profiling of CSF proteins from patients of different meningitis patients for biomarker discovery</td>
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<td>Urvashi B. Singh</td>
<td>Role of oral vitamin D as an adjunct therapy in category I pulmonary tuberculosis along with assessment of immunological parameter (Double-blind, randomized, placebo-controlled, clinical trial)</td>
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<td><strong>National Drug Dependence Treatment Centre</strong></td>
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<td>Anju Dhawan</td>
<td>Effectiveness of yoga in patients of opiate dependence</td>
<td>AYUSH, MoHFW</td>
<td>428,740</td>
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<td>S. K. Agarwal</td>
<td>Detection of HCV core antigen (<em>HCV c-Ag</em>) for diagnostic screening of HCV infection in patients on maintenance haemodialysis</td>
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<td>S. K. Agarwal</td>
<td>To study the diagnostic value of quantiFERON gold test in detecting latent tubercular infection in end stage renal disease patients on replacement therapy</td>
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<td>S. Vivekanandhan</td>
<td>The study of mitochondrial dysfunction in genesis of programmed cell death cascade in patients with amyotrophic lateral sclerosis</td>
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<td>S. Vivekanandhan</td>
<td>Exploring the role of MHC and co-stimulatory molecules in the immune evasion mechanism of glioma stem cells</td>
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<td>Achal Kumar Srivastava                                                  Mitochondrial variations and common founders for Friedreich’s ataxia in the Indian population</td>
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<td>Kameshwar Prasad                                                       Intravenous autologous bone marrow stromal cells (MSC) or mononuclear cells (MMC) for patients with acute ischaemic stroke: A multi-institutional project</td>
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<td>Kameshwar Prasad                                                       Mobilization of stem cells using G-CSF for acute ischemic stroke: A randomized clinical trial</td>
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<td>M. V. Padma                                                            Intra-arterial autologous bone marrow mononuclear cells (MNCs) infusion in patients with non-progressive (static) encephalopathy with special reference to cerebral palsy</td>
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<td>M. V. Padma                                                            Normobaric oxygen therapy in acute ischemic stroke</td>
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<td>M. V. Padma                                                            Efficacy of minocycline in acute ischemic stroke: A single-blinded placebo-controlled trial</td>
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<td>Madhuri Behari                                                          Clinical correlation of AchR-Abs and MuSK-Abs in myasthenia gravis patients in context with phenotype and genotype variation</td>
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<td>Madhuri Behari                                                          To study the safety and efficacy of R-HSC-001 in patients with Parkinson’s disease</td>
<td>Reliance Clinical Research Services</td>
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<td>Madhuri Behari                                                          A phase III, double blind placebo controlled study to determine the efficacy and safety of a low (50–100 mg/day) and high (150–200 mg/day) dose range of safinamide as add-on therapy in patients with idiopathic Parkinson’s disease with motor fluctuations, treated with a stable dose of levodopa and a phase III, double blind placebo controlled, 12 months extension study to investigate the long term efficacy and safety of a low (50–100 mg/day) and high (150–200 mg/day) dose range of safinamide, as add-on therapy, in patients with idiopathic Parkinson’s disease with motor fluctuations, treated with a stable dose of levodopa</td>
<td>Clinirx Research, Gurgaon, Haryana</td>
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<td>Madhuri Behari                                                          A multicentre randomized double blind placebo and entacapone controlled parallel group study of the efficacy safety and tolerability of E2007 in India</td>
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<td>Manjari Tripathi</td>
<td>Cognitive activation studies of languages and memory as a preoperative evaluation in patients with intractable epilepsy: A novel noninvasive method of investigation</td>
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<td>To assess whether saliva and serum free anti-epileptic drugs levels are equivalent</td>
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<td>Manjari Tripathi</td>
<td>A randomized double blind parallel group multicenter study to evaluate the retention rate, efficacy, safety, and tolerability of carisbamate, topiramate and levetiracetam as adjunctive therapy in subjects with partial onset seizures</td>
<td>Quintiles Spectral India</td>
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<td>Manjari Tripathi</td>
<td>Correlation of electrophysiological states and haemodynamic changes during simultaneous performance of EEG-fMRI (SEM) in intractable epilepsy: Another non-invasive tool for localisation of seizures in patients with intractable epilepsy</td>
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<td>Neuroradiology</td>
<td>Ajay Garg</td>
<td>Quantitative vessel size imaging (VSI) in cerebral gliomas and correlation with histopathological grading and vascular endothelial growth factor expression</td>
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<td>Neurosurgery</td>
<td>B. S. Sharma</td>
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<td>P. Sarat Chandra</td>
<td>Evaluation of autonomic function, saccadic eye movement control and fibrilin gene (exon 24–28) in development bony craniovertebral junction anomalies</td>
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<td>Nuclear Magnetic Resonance</td>
<td>N. R. Jagannathan</td>
<td>A proposal for 700 MHz NMR spectrometer for biomedical research</td>
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<td>N. R. Jagannathan</td>
<td>Magnetic resonance spectroscopic imaging (MRSI) and diffusion-weighted MRI (DW-MRI) in the non-invasive detection, assessment of treatment response and tumor metabolism in breast cancer</td>
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<td>Nuclear Medicine</td>
<td>G. P. Bandopadhyaya</td>
<td>To evaluate radiolabeling and efficacy of radiolabelled betacyclodextrin for infection imaging</td>
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### Obstetrics and Gynaecology

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<td>J. B. Sharma</td>
<td>Study of efficacy and safety of directly observed treatment strategy (DOTS) in female genital tuberculosis</td>
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<td>Alka Kriplani</td>
<td>Comparative study of oral single dose of metronidazole, tinidazole, secnidazole and ornidazole in the case of bacterial vaginosis</td>
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<td>420,756</td>
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<td>Alka Kriplani</td>
<td>An open label single-arm, non comparative study to evaluate the efficacy and safety of iron sucrose (OROFER-S) injection in the treatment of iron deficiency anaemia during pregnancy</td>
<td>Emcure Emcure Pharmaceutical</td>
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<td>Suneeta Mittal</td>
<td>Estimation of oxidative stress during oral iron supplementation (daily vs weekly) with or without vitamin C among anemic pregnant mothers</td>
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<td>Phase IV Multicentric study with Centchroman</td>
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<td>Study of placenta for oxidative stress status in pregnant women on daily versus weekly iron supplementation</td>
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<td>Suneeta Mittal</td>
<td>Prevention of mother to child transmission of HIV in Delhi</td>
<td>Delhi State AIDS Control Society</td>
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<td>Suneeta Mittal</td>
<td>Pretreatment with misoprostol before vacuum aspiration versus MVA: A double blind RCT</td>
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<td>Sunesh Jain</td>
<td>Evaluation of curcumin in the management of advanced cancer cervix</td>
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### Orthopaedics

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<td>Rajesh Malhotra</td>
<td>A new hip hemiarthroplasty option based on femoral stem design suitable for the morphology of proximal femur of elderly Indian population</td>
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<td>Rajesh Malhotra</td>
<td>Evaluation of efficacy of platelet concentrate in the treatment of non union of fractures of long bones</td>
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<td>Rajesh Malhotra</td>
<td>A phase III randomised, parallel group, double-blind, active controlled study to investigate the efficacy and safety of oral 220 mg dabigatran etexilate (110 mg on the day of surgery followed by 220 mg once daily) compared to subcutaneous 40 mg enoxaparin once daily for 28–35 days in prevention of venous thrombo-embolism in patients following primary elective total hip arthroplasty (RE-NOVATE II)</td>
<td>SiroClin Pharma</td>
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<td>Kanchan Mittal</td>
<td>To study the profile of musculoskeletal pain in tea garden workers in northeast India</td>
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<td><strong>Paediatric Surgery</strong></td>
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<td>D. K. Gupta</td>
<td>Role of stem cells in a surgically created rat model of biliary atresia</td>
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<td>M. Bajpai</td>
<td>A study on clinical and molecular markers of chronic interstitial nephropathy in congenital unilateral ureteropelvic junction obstruction</td>
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<td>Madhulika Kabra</td>
<td>IMD newborn screening for congenital hypothyroidism and congenital adrenal hyperplasia: A multicentric study</td>
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<td>Madhulika Kabra</td>
<td>To compare integrated screening with contingent sequent screening for prenatal detection of Downs syndrome in the Indian context</td>
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<td>Programme support on genetic medicine</td>
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<td>Identification of novel genes for nonsyndromic hearing loss in the Indian population</td>
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<td>Evaluation of MLPA and array CGH for the detection of cryptic subtelomeric rearrangements in idiopathic mental retardation</td>
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<td>Madhulika Kabra</td>
<td>Validation of strategies for rapid prenatal detection of aneuploides</td>
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<tr>
<td>Madhulika Kabra</td>
<td>Molecular genetic studies in Indian children with steroid resistant nephritic syndrome</td>
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<td>Pankaj Hari</td>
<td>Antibiotic prophylaxis in the management of vesicoureteric reflux: A multicentric randomized double blind placebo controlled trial</td>
<td>ICMR</td>
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<tr>
<td>Pratima Ray</td>
<td>Molecular characterization of Rotavirus strains infecting neonates born in the hospital and diarrheal children admitted at AIIMS</td>
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<tr>
<td>Pratima Ray</td>
<td>Evaluation of Chikungunya infection in children and adults</td>
<td>DBT</td>
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<tr>
<td>Rachna Seth</td>
<td>Detection of minimal residual disease (MRD) in B cell lineage acute lymphoblastic leukemia at the end of induction by flowcytometry</td>
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<tr>
<td>Rakesh Lodha</td>
<td>Nevirapine levels in HIV-infected children receiving antiretroviral therapy with fixed dose combinations</td>
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<td>Rakesh Lodha</td>
<td>Immunologic effect of zinc supplementation in HIV infected children receiving highly active antiretroviral therapy: A randomized, double blind placebo controlled trial</td>
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<td>Name</td>
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<td>Ramesh Agarwal</td>
<td>Micronutrient status of low birth weight babies during early infancy</td>
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<td>Shinjini Bhatnagar</td>
<td>Intravenous autologus bone marrow derived stem cell therapy for patients with acute ischaemic stroke: A multiinstitutional project</td>
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<td>Shinjini Bhatnagar</td>
<td>Efficacy of stem cell in improvement of left ventricular function in patients with acute myocardial infarction</td>
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<td>Shinjini Bhatnagar</td>
<td>Effects of administering 10 mg zinc orally to young infants aged 7 days and upto 4 months with possible serious bacterial infection on survival and function of peripheral blood mononuclear cells...age</td>
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<tr>
<td>Vandana Jain</td>
<td>Kigs Advanced patient outcome survey number SN87-052-38</td>
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<td>Veena Kalra</td>
<td>FIST in subject area life sciences for Level II support</td>
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<tr>
<td><strong>Pathology</strong></td>
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<td>Chitra Sarkar</td>
<td>Glial tumours: A correlative clinicopathological study of chromosome 1p/19q status, epidermal growth factor receptor (EGFR) amplification and p53 expression</td>
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<td>Chitra Sarkar</td>
<td>Angiogenesis in astrocytic tumors of the brain: A clinicopathological study with special reference to expression of vascular endothelial growth factor (VEGF), and hypoxia inducible factor (HIF)-I alpha and correlation with vascular morphometric parameters and tumor infiltrating inflammatory cells</td>
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<td>Manoj K. Singh</td>
<td>Primary cutaneous lymphomas: Use of an antibody panel to improve diagnostic accuracy in skin biopsy, classify cases using the WHO-EORTC classification of primary cutaneous lymphomas, flowcytometric analysis of peripheral blood to detect and quantify the circulating neoplastic lymphocytes in these patients, attempt to delineate therapeutic subgroups for future planning of therapeutic options</td>
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<td>S. K. Panda</td>
<td>Operation of the JC Bose Fellowship</td>
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<td>FIST Program</td>
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<td>S. K. Panda</td>
<td>Study of viral proteins and other molecular markers in hepatitis E virus (HEV) infected cells using high throughput molecular techniques</td>
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<td>S. K. Panda</td>
<td>Investigation related to mechanism of entry of HEV into the host cells</td>
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<td>Researcher</td>
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<td>Sandeep R. Mathur</td>
<td>Analysis of her 2/neu status on fine needle aspiration cytology smears and its correlation with hormone receptor status, proliferation markers and apoptosis in breast cancer: A fluorescent in situ hybridization (FISH) and immunocytochemistry study</td>
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<td>Vaishali Suri</td>
<td>Study of the role of bone marrow derived pluripotent cells in peripheral nerve repair in adult rats</td>
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<td><strong>Pharmacology</strong></td>
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<td>D. S. Arya</td>
<td>Studies on pharmacological and molecular mechanism to investigate an angiotensin type 1 receptor blocker, irbesartan in experimental model of myocardial ischemia-reperfusion injury</td>
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<td>D. S. Arya</td>
<td>Screening and scientific evaluation of hypoglycemic effects of some unani drugs in streptozotocin-induced diabetic rats</td>
<td>Central Council for Research in Unani Medicine</td>
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<td>D. S. Arya</td>
<td>To study the cardioprotective effects of seabuckthorn pulp oil in experimental models of myocardial infarction (MI)</td>
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<td>D. S. Arya</td>
<td>An experimental evaluation of the anti-atherogenic effect of selected unani medicines in experimentally induced hypercholesterolemic rats</td>
<td>Central Council for Research in Unani Medicine</td>
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<td>K. H. Reeta</td>
<td>Estimation of oxidative stress during oral iron supplementation (daily vs. weekly) with or without vitamin C among anemic pregnant mothers</td>
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<td>S. K. Maulik</td>
<td>Study of placenta for oxidative stress status in pregnant women on daily versus weekly iron supplementation</td>
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<td>Y. K. Gupta</td>
<td>Efficacy and safety evaluation on antiepileptic activity of selected Indian herbs</td>
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<td>Y. K. Gupta</td>
<td>Pharmacological evaluation of medicinal planta and their products</td>
<td>Ranbaxy/ Eli Lilly</td>
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<td>Physiology</td>
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<td>Ashok Kumar Jaryal</td>
<td>Development of blood flow variability software using impedance</td>
<td>Ministry of Communication and Information Technology</td>
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<td>plethysmography technique and derivation of BFV-BPV relationship</td>
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<td>H. N. Mallick</td>
<td>The role of lateral preoptic area in regulation of body temperature, thermal preference, sleep-wakefulness and homeostatic restoration of sleep during chronic exposure in rats</td>
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<td>Jayasree Sengupta</td>
<td>Role of human chorionic gonadotropin in endometrial receptivity for pregnancy establishment</td>
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<td>Jayasree Sengupta</td>
<td>Effect of inorganic arsenic compounds on the activity of intestinal smooth muscle in mammals: A molecular physiological study</td>
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<td>Jayasree Sengupta</td>
<td>Elucidating endometriosis using genomic strategy</td>
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<td>Raj Kumar Yadav</td>
<td>Psychoneurioimmune effects of meditation An evaluation by PET and biochemical markers</td>
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<td>Rashmi Mathur</td>
<td>To study the effect of repeated magnetic stimulation on sensori-motor recovery in spinal cord injured patients</td>
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<td>Rashmi Mathur</td>
<td>Effect of bone marrow cells transplantation and magnetic stimulation in the sensory motor functional recovery of spinalised rat</td>
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<td>S. C. Mahapatra</td>
<td>Immunomodulatory effects of <em>Tulsi</em> (<em>Ocimum sanctum</em> Linn) on healthy human subjects</td>
<td>AYUSH, MoHFW</td>
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<td>Sanjay Kumar Sood</td>
<td>To study pre-attentive and attentive processing of phonemes and tones in dyslexic children using pre-pulse inhibition paradigm, mismatch negativity and long latency event related evoked potentials</td>
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<td>Reproductive Biology</td>
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<td>Anand Kumar</td>
<td>Testing of pregnancy kits produced by Hindustan Latex Ltd for supply to NRHM programme of Govt of India</td>
<td>Hindustan Latex</td>
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<td>Stem Cell Facility</td>
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<td>Sujata Mohanty</td>
<td>Isolation and expansion of mesenchymal stem cells (MSC) from human bone marrow (BM)/umbilical cord blood (UCB) and evaluation of its cardiomyogenic and eurogenic differentiation potential</td>
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<td><strong>Surgery</strong></td>
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<td>Sujata Mohanty</td>
<td>Transplantation of mesenchymal stem cells in animal models of myocardial infarction</td>
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<td>and Parkinson’s disorder</td>
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<td>Anita Dhar</td>
<td>Safety and efficacy of autologous stem cells in prevention of amputation of patients</td>
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<td>Sandeep Guleria</td>
<td>Evaluation of efficacy and tolerability of Tacrolimus in patients undergoing renal</td>
<td>Panacea</td>
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<td><strong>Transfusion Medicine</strong></td>
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<td>Kabita Chatterjee</td>
<td>Prevention of infection and strengthening the blood banking system in the country</td>
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<td><strong>Transplant Immunology and Immunogenetics</strong></td>
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<td>D. K. Mitra</td>
<td>Early detection of polarized producing allo-reactive T cells and the role of</td>
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<td>chemokines in their selective homing among patients undergoing renal transplantation</td>
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<td>D. K. Mitra</td>
<td>Impact of HIV infection on latent TB among patients with HIV-TB co-infection</td>
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<td>D. K. Mitra</td>
<td>Study of NKT cells in polarized immunity among leprosy patients</td>
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<td>D. K. Mitra</td>
<td>Efficacy of oral zinc administration as an adjunct therapy in category I pulmonary</td>
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<td>D. K. Mitra</td>
<td>Role of oral vitamin D as an adjunct therapy in category I pulmonary tuberculosis</td>
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<td>along with assessment of immunological parameter</td>
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<td>(Double-blind, randomized, placebo-controlled, clinical trial)</td>
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<td>N. K. Mehra</td>
<td>Genomic analysis of MHC genes (HLA and non HLA) in type 1 diabetes in the Indian</td>
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<td>N. K. Mehra</td>
<td>Genetic basis for HIV-1 transmission, resistance and disease progression:</td>
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<td>Polymorphism in MHC, chemokin/cytokine and their receptor genes</td>
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<td>N. K. Mehra</td>
<td>Genetic basis for HIV-I transmission resistance and disease progression polymorphism</td>
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<td>in MHC chemokine/cytokine and their receptor genes</td>
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<td>N. K. Mehra</td>
<td>Hematopoietic stem cell transplantation in India. Challenges and opportunities and</td>
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<td>immunogenetic aspects of HIV infection</td>
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<td><strong>Biochemistry</strong></td>
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<td>Kalpana Luthra</td>
<td>Characterization of HIV-1 subtypes from Indian subjects</td>
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<td>Balram Bhargava</td>
<td>Future revascularization evaluation in patients with diabetes mellitus:</td>
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<td>Optimal management of multivessel disease (The FREEDOM Trial)</td>
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<td>G. Karthikeyan</td>
<td>Diagnostic performance of gated SPECT myocardial perfusion imaging at</td>
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<td>rest in patients presenting to the emergency room with chest pain</td>
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<td>and a normal or non-diagnostic ECG</td>
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<td>Sandeep Seth</td>
<td>Multi-sensor monitoring in congestive heart failure (MUSIC)</td>
<td>Corventis, USA</td>
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<td>V. K. Bahl</td>
<td>A double-blind, randomized, placebo-controlled, multicenter study to</td>
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<td>assess the efficacy and safety of Darbeopetin alfa treatment on mortality</td>
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<td>and morbidity in heart failure (HF) subjects with symptomatic left</td>
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<td>ventricular systolic dysfunction and anemia</td>
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<td>V. K. Bahl</td>
<td>A clinical evaluation of the Xience TM V everolimus eluting coronary</td>
<td>Abbott Vascular, USA</td>
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<td>stent system in the treatment of patients with de nova coronary artery</td>
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<td><strong>Cardiothoracic and</strong></td>
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<td><strong>Vascular Surgery</strong></td>
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<td>Balram Airan</td>
<td>CABG Off or On Pump Revascularization Study (CORONARY)</td>
<td>McMaster University Canada</td>
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<td><strong>Behavioural Sciences</strong></td>
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<td>Sonali Jhanjee</td>
<td>Rolling out of opioid substitution treatment (OST) in Tihar prisons,</td>
<td>UN International Drug and</td>
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<td>India. A collaborative project of UNODC-ROSA, AIIMS and Tihar prisons</td>
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<td><strong>Dermatology and</strong></td>
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<td><strong>Venereology</strong></td>
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<td>Somesh Gupta</td>
<td>Determination of melanin and haemoglobin distribution</td>
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<td>in the skin of idiopathic cutaneous hyperchromia of the orbital region (ICHOR)</td>
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<td>Service de Dermatologie, France</td>
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<td>Dr B. R. Ambedkar Institute–Rotary Cancer Hospital</td>
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<td>Sushma Bhatnagar</td>
<td>An open label study investigating long term safety and tolerability of nasalfent (fentanyl citrate nasal spray) in the treatment of breakthrough cancer pain (BTCP) in subjects taking regular opioid therapy</td>
<td>Archimedes Development, UK</td>
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<td>V. Raina</td>
<td>Adjuvant taxoxifen long against short (ATLAS) trial</td>
<td>Oxford Univ, UK</td>
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<td>V. Raina</td>
<td>Index Cancer Trials Network Center</td>
<td>Oxford Univ, UK</td>
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<td>V. Raina</td>
<td>A randomized double blind multicentre placebo controlled study of adjuvant lapatinib in women with early stage Erb B2 overexpressing breast cancer EGF 105485</td>
<td>Glaxo Smith Kline Asia</td>
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<td>V. Raina</td>
<td>A randomized, multi-centre, open-label, phase III study of adjuvant lapatinib, trastuzumab, their sequence and their combination in patients with HER2/ErbB2 positive primary breast cancer</td>
<td>GlaxoSmith Kline Asia</td>
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<td>Endocrinology and Metabolism</td>
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<td>A. C. Ammini</td>
<td>A phase III randomized, placebo-controlled clinical trial to assess the safety and efficacy of odanacatib (MK-0822) to reduce the risk of fracture in osteoporotic postmenopausal women treated with vitamin D and calcium</td>
<td>Merck &amp; Co., USA</td>
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<td>Rajesh Khadgawat</td>
<td>A phase III, multi-centre, randomized, parallel group study of safety and efficacy of the LB03002 a new sustained release formulation of human recombinant growth hormone as compared to standard daily therapy with genotropin in treatment naive children with growth failure due to insufficient secretion of endogenous growth hormone</td>
<td>Parexel International, UK</td>
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<td>Gastroenterology and Human Nutrition Unit</td>
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<td>Govind Makharia</td>
<td>A phase 2/3 multicenter, randomized, placebo-controlled, double-blind study to evaluate the safety and efficacy of golimumumab induction therapy,</td>
<td>Centocor Research Develop-</td>
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<tr>
<td>Medical Speciality</td>
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<td><strong>Laboratory Medicine</strong></td>
<td>administered subcutaneously, in subjects with moderately to severely active ulcerative colitis</td>
<td>Sarman Singh, European Network for global collaboration on AIDS and Tuberculosis</td>
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<tr>
<td><strong>Medicine</strong></td>
<td>ASHA HIV Health promotion intervention in India</td>
<td>Sanjeev Sinha</td>
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<td><strong>Microbiology</strong></td>
<td>Direct and indirect protection by influenza vaccine given to children in India</td>
<td>Shobha Broor</td>
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<td>Addressing emerging infectious disease in the Republic of India: Influenza disease burden in rural communities in India</td>
<td>Shobha Broor</td>
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<td><strong>Neurology</strong></td>
<td>Efficacy of nitric oxide in stroke (ENOS): A prospective, international, multicentre, randomised, parallel-group, blinded, controlled, collaborative, factorial trial to investigate the safety and efficacy of treatment with transdermal glyceryl trinitrate, a nitric oxide donor, and of stopping or continuing prior antihypertensive therapy, in patients with acute stroke</td>
<td>Kameshwar Prasad</td>
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<td>A randomized, multicenter, double-blind, placebo-controlled, dose-comparison study to determine the efficacy, and safety of BG00012 in subjects with relapsing-remitting multiple sclerosis</td>
<td>Madhuri Behari</td>
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<td>A multicenter, randomized, double blind, placebo-controlled, parallel group trial with placebo run-in, followed by an open label treatment period to evaluate the performance of the cogstate computerized neuropsychological battery and the ADAS-Cog in generally cholinesterase-naive AD patients randomized to either donepezil or placebo</td>
<td>Manjari Tripathi</td>
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<td>Safety and effectiveness of open label melperone in the treatment of patients with psychosis in Parkinson’s disease</td>
<td>Vinay Goyal</td>
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<td><strong>Neurosurgery</strong></td>
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<td>Ashish Suri</td>
<td>The International infant hydrocephalus study (IIHS): A multicentre prospective randomized study</td>
<td>Internatio-nal Society for Paediatric Neurosurgery (ISPNE)</td>
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<td>B. S. Sharma</td>
<td>A prospective, multi-centre, double blind, randomized, placebo-controlled, parallel-group study to assess the efficacy and safety of clazosentain in reducing vasospasm-related morbidity and all-cause mortality in adult patients with aneurysmal subarachnoid hemorrhage treated by surgical clipping</td>
<td>Actelion Pharmaceuticals, Switzerland</td>
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<td>Deepak Kumar Gupta</td>
<td>Open label, dose confirmation study of intestinal 1131-ch TNT-A/B MAb (COTARAR) for the treatment of recurrent glioblastoma multiforme (GBM) at first relapse</td>
<td>Peregrine Pharmaceuticals, USA</td>
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<td>P. Sarat Chandra</td>
<td>Safety, tolerability and effectiveness evaluation of the ISS in the treatment of vascular dementia. A pilot study</td>
<td>Brains Gate, Israel</td>
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<td>P. Sarat Chandra</td>
<td>Surgical trial in lobar intracerebral haemorrhage (STICH II trial)</td>
<td>Medical Research Council, UK</td>
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<td>Shashank Shard Kale</td>
<td>An assessment of surgical techniques for treating cervical spondylotic myelopathy—international multicenter study</td>
<td>AO Spine International, USA</td>
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<td>C. S. Bal</td>
<td>A multicentric, open-label, randomized phase II/III study to evaluate the safety and efficacy of combretastatin A-4 phosphate in combination with paclitaxel and carboplatin in comparison with paclitaxel and carboplatin against anaplastic thyroid carcinoma</td>
<td>OXiGENE, USA</td>
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<tr>
<td>C. S. Bal</td>
<td>Lu-177 EDTMP in hormone refractory prostate cancer patients with bone metastases: A phase I activity escalation study</td>
<td>Internatio-nal Atomic Energy Agency</td>
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<tr>
<td>Rakesh Kumar</td>
<td>Cost effective differential diagnosis in lung cancer using PET generator based radiopharmaceuticals</td>
<td>Internatio-nal Atomic Energy Agency</td>
</tr>
<tr>
<td>Name</td>
<td>Title</td>
<td>Institution</td>
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<tr>
<td>Rakesh Kumar</td>
<td>Role of nuclear cardiology techniques in ischemia assessment with exercise imaging in asymptomatic diabetes</td>
<td>Internation Atomic Energy Agency</td>
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<tr>
<td>Obstetrics and Gynaecology</td>
<td>J. B. Sharma</td>
<td>National Perinatal Epidemiology Unit, Univ of Oxford, UK</td>
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<tr>
<td>Neerja Bhatla</td>
<td>Effectiveness and safety of 2 vs 3 doses of HPV vaccine in preventing cervical cancer: An Indian multi-center randomized trial</td>
<td>WHO</td>
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<tr>
<td>Paediatrics</td>
<td>Arvind Bagga</td>
<td>Ace Pharmaceuticals BV, Netherland</td>
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<tr>
<td>S. K. Kabra</td>
<td>Strengthening of cystic fibrosis services at AIIMS</td>
<td>Cystic fibrosis Worldwide USA</td>
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<tr>
<td>S. K. Kabra</td>
<td>Zinc supplementation in childhood tuberculosis patients in Delhi, India</td>
<td>Univ of Bergen, Norway</td>
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<tr>
<td>Shinjini Bhatnagar</td>
<td>Hib meningitis sentinel surveillance in north India</td>
<td>Johns Hopkins Bloomberg School of Public Health</td>
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<tr>
<td>Shinjini Bhatnagar</td>
<td>Etiology and characteristics of influenza and other acute lower respiratory infection in New Delhi</td>
<td>Johns Hopkins Bloomberg School of Public Health</td>
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<tr>
<td>Sheffali Gulati</td>
<td>Model infection centres (MICs): A program to improve infection practices in the country</td>
<td>INCLEN and USAID</td>
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### Surgery

<table>
<thead>
<tr>
<th>Investigator</th>
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<th>Funding agency</th>
<th>Funds (Rs)</th>
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<tbody>
<tr>
<td>Rajinder Prasad</td>
<td>Adjuvant taxoxifen: longer against shorter (ATLAS) for breast cancer patients</td>
<td>Oxford Univ, UK</td>
<td>162,507</td>
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<tr>
<td>Virinder Kumar Bansal</td>
<td>Cost effectiveness analysis and comparison of single stage vs two stage management of patients with concomitant gall stone disease and common bile duct stones: A randomized controlled trial</td>
<td>Society of American Gastrointestinal Endoscopic Surgeons</td>
<td>1,409,706</td>
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### Transplant Immunology and Immunogenetics

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<tr>
<td>N. K. Mehra</td>
<td>Type 1 diabetes genetics consortium (TIDGC): An international effort</td>
<td>NIH, USA</td>
<td>943,106</td>
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<tr>
<td>N. K. Mehra</td>
<td>Comprehensive approach to understand streptococcal diseases and their sequelae to develop innovative strategies for diagnosis, therapy, prevention and control</td>
<td>European Commission</td>
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### New research projects funded by Indian agencies

<table>
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<tr>
<th>Investigator</th>
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<tr>
<td><strong>Anatomy</strong></td>
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<tr>
<td>Rima Dada</td>
<td>An exploratory study: Causes of congenital cataract</td>
<td>ICMR</td>
<td>1,348,401</td>
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<td><strong>Anesthesiology</strong></td>
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<tr>
<td>Jyotsna Punj</td>
<td>Isoflurane and vecuronium dose requirement in diabetics with and without diabetic autonomic neuropathy undergoing elective surgery as determined by entropy and neuromuscular transmission (NMT) monitor respectively. A prospective double blinded study</td>
<td>ICMR</td>
<td>160,422</td>
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<tr>
<td>Jyotsna Punj</td>
<td>Ultraviolet radiation to decontaminate mobile phones in hospital</td>
<td>ICMR</td>
<td>289,126</td>
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<tr>
<td><strong>Biochemistry</strong></td>
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<tr>
<td>D. N. Rao</td>
<td>Role of Immunochemical and cytokine gene polymorphism: Correlation with recovery in patients with post-traumatic shock</td>
<td>ICMR</td>
<td>416,200</td>
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<tr>
<td>Kalpana Luthra</td>
<td>Characterization of HIV-1 envelope in natural infection: Immune focusing vaccine development</td>
<td>ICMR</td>
<td>894,541</td>
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<tr>
<td>M. R. Rajeswari</td>
<td>Characterization of circulating cell-free mRNA species of differentially expressed protein in plasma and to correlate with molecular pathogenesis of Friedreich’s ataxia</td>
<td>ICMR</td>
<td>757,476</td>
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<tr>
<td>Name</td>
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<tr>
<td>N. C. Chandra</td>
<td>Intracellular cholesterol homeostasis and cell proliferation</td>
<td>BARC</td>
<td>570,300</td>
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<tr>
<td>Nibhriti Das</td>
<td>Complement receptor-I, TNF-a nitric oxide and the respective gene polymorphisms in relation to the pathophysiology and susceptibility to severe malaria</td>
<td>ICMR</td>
<td>998,500</td>
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<tr>
<td>Parthaprasad Chattopadhyya</td>
<td>Hypoxia and p53-HICI axis in stemness of glial tumors and cell lines</td>
<td>DBT</td>
<td>3,016,000</td>
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<tr>
<td>Subrata Sinha</td>
<td>To identify B and T cell epitopes and study their humoral and cellular mediated immune responses of peptides derived from envelope of chikungunya virus (CHIKV)</td>
<td>DST</td>
<td>576,000</td>
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<tr>
<td>Subrata Sinha</td>
<td>A comparison of gene expression in glioblastoma cell lines under short and long term exposure to hypoxia with reference to the key cellular regulatory and adaptive pathways</td>
<td>ICMR</td>
<td>861,698</td>
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<tr>
<td><strong>Biophysics</strong></td>
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<tr>
<td>A. Srinivasan</td>
<td>Proteomics of ascitic fluid for the differentiation of advanced ovarian cancer</td>
<td>DST</td>
<td>744,000</td>
</tr>
<tr>
<td>A. Srinivasan</td>
<td>Expression of human sperm proteins, lipids and sperm functional parameters in human treated RISUG vs NSV subjects: A comparative study</td>
<td>ICMR</td>
<td>300,000</td>
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<tr>
<td>Savita Yadav</td>
<td>Isolation and purification of anti-diabetic protein (s) from Syzygium cumini seeds</td>
<td>DST</td>
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<td>T. P. Singh</td>
<td>Distinguished Biotechnology Research Professorship Award</td>
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<td><strong>Biostatistics</strong></td>
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<td>V. Sreenivas</td>
<td>HCV The India Face</td>
<td>Liver Foundation</td>
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<td><strong>Biotechnology</strong></td>
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<tr>
<td>J. S. Tyagi</td>
<td>Lead optimization of promising anti-tubercular compounds with sterilizing activity against non-replicating (dormant) <em>Mycobacterium tuberculosis</em></td>
<td>DBT</td>
<td>2,507,000</td>
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<tr>
<td>J. S. Tyagi</td>
<td>Validation and clinical studies for method for diagnosis of tuberculosis by smear microscopy culture and polymerase chain reaction using processed clinical samples and kit thereof</td>
<td>DBT</td>
<td>227,000</td>
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<tr>
<td><strong>Cardiac Anaesthesiology</strong></td>
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<tr>
<td>Poonam Malhotra Kapoor</td>
<td>Role of prognostic markers in complex congenital cardiac surgery</td>
<td>ICMR 853,440</td>
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<tr>
<th><strong>Cardiac Radiology</strong></th>
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<tbody>
<tr>
<td>Sanjeev Sharma</td>
<td>Induction of therapeutic angiogenesis in limb ischemia by intra-arterial delivery of autologous bone marrow derived stem cells</td>
<td>DBT 2,908,800</td>
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<tr>
<th><strong>Cardiology</strong></th>
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<tr>
<td>Anita Saxena</td>
<td>To define the incidence of congenital heart disease in newborns</td>
<td>ICMR 1,191,545</td>
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<td>Rakesh Yadav</td>
<td>Prospective evaluation of outcome of Indian patients who meet Madit II (multicenter automatic defibrillator implantation trial) criteria for ICD implantation: Is it appropriate for Indian patients?</td>
<td>ICMR 392,493</td>
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<tr>
<td>Rakesh Yadav</td>
<td>South Asian Systolic Heart Failure Registry (SASHFER)</td>
<td>India Medtronic 35,565</td>
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<tr>
<td>S. Ramakrishnan</td>
<td>Fast Track Proposal for Young Scientists: Study of platelet morphology and function in patients of primary pulmonary hypertension (PPH)</td>
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<tr>
<th><strong>Centre for Community Medicine</strong></th>
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<tr>
<td>K. Anand</td>
<td>Prevalence of coronary heart disease and its risk factors in residents of urban and rural areas of NCR: A repeat survey</td>
<td>ICMR 3,969,601</td>
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<tr>
<td>Puneet Mishra</td>
<td>Indoor air pollutants and behaviour assessment of rural community to reduce health effects</td>
<td>TERI 150,000</td>
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<th><strong>Centre for Dental Education and Research</strong></th>
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<tr>
<td>Ajay Logani</td>
<td>Age estimation in living adults based on aspartic acid racemization from tooth biopsy specimen</td>
<td>DBT 841,000</td>
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<td>O. P. Kharbanda</td>
<td>Micro implant generated stress on maxilla: Effect of design and placement protocols</td>
<td>ICMR 674,006</td>
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<tr>
<td>Ritu Duggal</td>
<td>Finite element study to analyze the stress distribution in human mandible following twin block therapy</td>
<td>ICMR 922,338</td>
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<tr>
<th><strong>Dermatology and Venereology</strong></th>
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<tbody>
<tr>
<td>Somesh Gupta</td>
<td>Comparision of hair follicle stem cells differentiation into melanocytes and keratinocytes from grey and pigmented hair follicles</td>
<td>IADVL 427,000</td>
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<tr>
<th><strong>Dr B. R. Ambedkar Institute–Rotary Cancer Hospital</strong></th>
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<tbody>
<tr>
<td>Atul Sharma</td>
<td>A phase III study of ERBB2 positive advanced or metastatic gastric or esophageal or gastroesophageal junction adenocarcinoma treated with capecitabine plus oxaliplatin with or without lapatinob</td>
<td>Glaxo Smith Kline 388,069</td>
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<tr>
<td>Researcher</td>
<td>Project Description</td>
<td>Institution</td>
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<tr>
<td>P. K. Julka</td>
<td>A phase 1/2, modified dose escalation, open label trial to determine the therapeutic effect and safety of INCBO07839 combined with transtuszumab in patients with previously untreated HER2 positive metastatic breast cancer</td>
<td>Siro Clin Pharma</td>
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<tr>
<td>Pratik Kumar</td>
<td>Development of sensitive thermo-luminescent materials for radiation dose determination and its application in radiological medical imaging</td>
<td>ICMR</td>
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<tr>
<td>Sushma Bhatnagar</td>
<td>Evaluation of the effect of rhythmic breathing proception among advance state cancer patient having pain</td>
<td>Central Council for Research in Yoga and Naturopathy</td>
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<tr>
<td>V. Raina</td>
<td>A randomized open label, multicenter, phase 2/3 study to evaluate of safety and efficacy of lumiliximab in combination with fludarabine, cyclophosphamide and rituximab versus fludarabine, cyclophosphamide and rituximab alone in subjects with relapsed chronic lymphocytic leukemia</td>
<td>Siro Clin Pharma</td>
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<tr>
<td>V. Raina</td>
<td>Axitinib (AG-013736) as second line therapy for metastatic renal cell cancer: Axis trial</td>
<td>Pfizer</td>
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<tr>
<td>V. Raina</td>
<td>Single arm open label multicenter phase II study to evaluate the efficacy and safety of P276-00 in subjects with relapsed and/or refractory mantle cell lymphoma</td>
<td>Piramal Life Sciences</td>
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<td>V. Raina</td>
<td>A phase 3 randomized open label two arm study of Neartinib plus paclitaxel versus trastuzumab plus paclitaxel as first line treatment for erbB2 positive locally recurrent or metastatic breast cancer</td>
<td>Wyeth Pharmaceuticals</td>
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<td><strong>Endocrinology and Metabolism</strong></td>
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<tr>
<td>A. C. Ammini</td>
<td>A phase III randomized double blind, placebo-controlled parallel group study to compare the efficacy and safety of twice daily administration of the free combination of BI 1356 2.5mg+metformin 500mg or of BI 1356 2.5mg+metformin 1000mg with individual components of metformin (500mg or 1000mg, twice daily), and BI 1356 (5.0 mg, once daily) over 24 weeks drug naive or previously treated (4 week washout and 2 weeks placebo run-in) type 2 diabetic patients with insufficient glycemic control</td>
<td>Quintiles Spectral India</td>
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<tr>
<td>Nikhil Tandon</td>
<td>A 26 week randomized controlled open label multicenter, multinational three arm treat to target trial comparing efficacy and safety of three different dosing regimens of either soluble insulin basal analogue (SIBA) or insulin glargine with or without combination</td>
<td>Nova Nordisk</td>
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<tr>
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<td>Project Description</td>
<td>Funding Body</td>
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<td>Ravinder Goswami</td>
<td>Skeletal muscle strength including its energy metabolism, bone mineral homeostasis and Th1/Th2 cytokines expression in Asian Indians with chronic hypovitaminosis D before and after oral cholecalciferol supplementation</td>
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<td>Alok Thakar</td>
<td>Phase II/III randomized placebo controlled clinical trial of curcumin in squamous head and neck cancers</td>
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<tr>
<td>Alok Thakar</td>
<td>Prevalence of hypothyroidism following treatment of head neck cancer and its impact on quality of life</td>
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<td>Gastroenterology and Human Nutrition Unit</td>
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<td>Anoop Saraya</td>
<td>Effect of glutamine on intestinal permeability in acute pancreatitis</td>
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<td>Anoop Saraya</td>
<td>Gene mutations in patients with chronic pancreatitis and their role in pathogenesis of malignant transformation</td>
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<td>Govind Makharia</td>
<td>A multicenter (country wide) prospective data collection of patients with inflammatory bowel disease Indian Society of Gastroentrology task force on inflammatory bowel disease</td>
<td>Sun Pharmaceuticals</td>
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<tr>
<td>Vineet Ahuja</td>
<td>A phase 3, randomised, placebo-controlled, blinded, multicentre study of the induction and maintenance of clinical response and remission by MLN0002 in patients with moderate to severe ulcerative colitis</td>
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<tr>
<td>Vineet Ahuja</td>
<td>Phase 3, open/label study to determine the long term safety and efficacy of MLN0002 in patients with ulcerative colitis and Crohn’s disease</td>
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<tr>
<td>Vineet Ahuja</td>
<td>A phase 3, randomized, placebo-controlled, blinded multicentre study of the induction and maintenance of clinical response and remission by MLN0002 in patients with moderate to severe Crohn’s disease</td>
<td>Quintiles Spectral India</td>
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<td>Pramod Garg</td>
<td>Role of TNF-a in the pathogenesis of experimental acute pancreatitis and the effect of anti-TNF-a therapy in attenuating the severity of pancreatitis and in the subsequent regeneration of the pancreas</td>
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<td>Umesh Kapil</td>
<td>Validity of spot testing kit in the assessment of iodine content of salt. A multicentric study</td>
<td>MBI Kits</td>
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<td>Y. K. Joshi</td>
<td>Health related quality of life in patients with chronic liver disease and effect of probiotics in the treatment of MHE and health related quality of life</td>
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<tr>
<td><strong>Gastrointestinal Surgery</strong></td>
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<tr>
<td>Peush Sahni</td>
<td>Multi-centric trial of medical syringe pump developed by AIIMS for production know how</td>
<td>Dept of Information Technology</td>
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<tr>
<th><strong>Haematology</strong></th>
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<tr>
<td>Pravas Chandra Mishra</td>
<td>An open label, phase I dose escalation clinical trial of NRC-AN-019 in patients with all phases of chronic myeloid leukemia, who are resistant or intolerant to imatinib mesylate</td>
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</tbody>
</table>
| Renu Saxena      | Role of ZAP-70, CD38, mutational status of immunoglobulin heavy-chain variable-region (IgVh) 
gebe abd CD4+CD25hi+FoxP3+T regulatory cells (Tregs) in the prognostication of chronic lymphocytic leukemia in India and determination of its biology | DST | 833,000 |

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<th><strong>Laboratory Medicine</strong></th>
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<tr>
<td>A. K. Mukhopadhyay</td>
<td>The role of major neurotrophins, cytokines and genetic polymorphisms in clinical manifestation of depression in adolescents</td>
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<tr>
<td>S. Arulselvi</td>
<td>Evaluation of coagulation profile in patients with isolated head injury</td>
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<tr>
<td>Sarman Singh</td>
<td>Doctors office diagnostic instrument for detection of <em>M. tuberculosis</em> in the field conditions adapted for use by unskilled personnel</td>
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<th><strong>Medicine</strong></th>
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<tr>
<td>Ashutosh Biswas</td>
<td>Dyslipidemia among HIV infected patients receiving antiretroviral therapy: A prospective observational study</td>
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<tr>
<td>G. C. Khilnani</td>
<td>A multicentre study of clinical and microbiological profile of community acquired pneumonia (Cap) in Indian patients</td>
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<td>Naval K. Vikram</td>
<td>Evaluation of newer markers of arterosclerosis in patients with type 2 diabetes</td>
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<tr>
<td>Arti Kapil</td>
<td>Multicenter study on antimicrobial resistance monitoring of <em>Salmonella typhi</em> and <em>Salmonella paratyphi A</em>. An attempt to make national guidelines to treat enteric fever</td>
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<tr>
<td>B. R. Mirdha</td>
<td>Study of genetic polymorphisms of dihydropteroate synthase (DHPS) genes in <em>Pneumocystis jirovecii</em> isolates: Correlation with treatment failure and clinical outcome in patients with <em>Pneumocystis carinii</em> pneumonia</td>
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<tr>
<td>B. R. Mirdha</td>
<td>Detection and quantification (quantitation) of <em>Pneumocystis jiroveci</em> in respiratory samples by real time polymerase chain reaction for clinical management of <em>Pneumocystis carinii</em> pneumonia (PCP) in human immunodeficiency virus (HIV) infected and uninfected individuals</td>
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<td>Benu Dhawan</td>
<td>Development and clinical evaluation of a real time quantitative PCR assay for detection of <em>Chlamydia trachomatis</em> in Indian women with infertility</td>
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<tr>
<td>Rama Chaudhary</td>
<td>Genotyping of <em>C. difficile</em> and <em>C. perfringens</em> by PFGE and MLST from fecal samples in antibiotic associated diarrhea</td>
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<td>Seema Sood</td>
<td>LAMP as point-of-care test for gonorrhoea</td>
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<td>Shobha Broor</td>
<td>Multisite epidemiological and virological monitoring of human influenza surveillance network in India, phase II</td>
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<td><strong>Neuroanaesthesiology</strong></td>
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<td>H. H. Dash</td>
<td>Avoidance of nitrous oxide during anaesthesia in patients undergoing craniotomy for supratentorial tumours</td>
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<td><strong>Neurobiochemistry</strong></td>
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<td>S. Vivekanandhan</td>
<td>Health Profile of Population of Dhar (MP)</td>
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<td><strong>Neurology</strong></td>
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<td>Garima Shukla</td>
<td>Generating knowledge for assesment of emerging technologies: The effects of continuous positive airways pressure therapy for prevention of new vascular events in patients with sleep disordered breathing and stroke: A randomized controlled study</td>
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<tr>
<td>Kameshwar Prasad</td>
<td>Beta adrenergic receptor and angiotensin converting enzyme encoding gene polymorphism as a risk factor for stroke: A case control study</td>
</tr>
<tr>
<td>Kameshwar Prasad</td>
<td>Comparison of effects of administration of bone marrow mononuclear cells (BMMNCs) in combination with melatonin versus BMMNCs alone in middle cerebral artery occlusion model of stroke in rats</td>
</tr>
<tr>
<td>M. V. Padma</td>
<td>Study of feasibility and efficacy of intravenous infusion of autologous bone marrow derived mononuclear stem cells in chronic ischemic stroke: Clinico-radiological correlative study with biomarkers of stroke recovery</td>
</tr>
<tr>
<td>Name</td>
<td>Project Description</td>
</tr>
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</tr>
<tr>
<td>Vinay Goyal</td>
<td>Evaluation of therapeutic effect of repetitive transcranial magnetic stimulation (rTMS) in writers cramp, migraine, drug resistance depression and obsessive compulsive disorders</td>
</tr>
<tr>
<td><strong>Neuroradiology</strong></td>
<td></td>
</tr>
<tr>
<td>Ajay Garg</td>
<td>Quantitative vessel size imaging (VSI) in cerebral gliomas and correlation with histopathological grading and vascular endothelial growth factor expression</td>
</tr>
<tr>
<td><strong>Neurosurgery</strong></td>
<td></td>
</tr>
<tr>
<td>Ashish Suri</td>
<td>Collaborative Indo-German program for bilateral workshops, seminars and tele-education in training microsurgical and endoscopic techniques in neurosurgery</td>
</tr>
<tr>
<td><strong>Nuclear Medicine</strong></td>
<td></td>
</tr>
<tr>
<td>C. S. Bal</td>
<td>Fusion of medical images of MRI, PET and SPECT modalities</td>
</tr>
<tr>
<td>C. S. Bal</td>
<td>An international randomized, double-blinded, phase 3 efficacy study of XL 184 versus placebo in subjects with unresectable, locally advanced, or metastatic medullary thyroid cancer</td>
</tr>
<tr>
<td>Rakesh Kumar</td>
<td>Early evaluation of treatment response of neoadjuvant chemotherapy in locally advanced breast cancer (LABC) patients using metabolic tumor burden (MTB) estimated by PET-CT and correlation with CD 34 and VEGF expression</td>
</tr>
<tr>
<td><strong>Obstetrics and Gynaecology</strong></td>
<td></td>
</tr>
<tr>
<td>Alka Kriplani</td>
<td>Phase-I/Phase-IIB clinical trial on selected strains of probiotic lactobacilli packed as tablet for colonization potential and efficacy against recurrence of bacterial vaginosis</td>
</tr>
<tr>
<td>Neerja Bhatla</td>
<td>A phase III clinical trial to demonstrate the immunogenicity, tolerability, and manufacturing consistency of V503 (A multivalent human papillomavirus (HPV) virus-like particle (VLP) vaccine in preadolescents and adolescents (9 to 15 year old) with a comparison to young women (16 to 26 years olds)</td>
</tr>
<tr>
<td>Neerja Bhatla</td>
<td>Evaluation of efficacy and anti-inflammatory action of placentrex TM in women with inflammatory PAP smears</td>
</tr>
<tr>
<td>Authors</td>
<td>Title</td>
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<td>------------</td>
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</tr>
<tr>
<td>Suneeta Mittal</td>
<td>Comparative acceptability of male condom and FC-2 female condom in young Indian couples seeking contraceptive options</td>
</tr>
<tr>
<td>Arvind Jayaswal</td>
<td>Database of the scoliosis patients</td>
</tr>
<tr>
<td>Rajesh Malhotra</td>
<td>Valuation of cytokines in patients undergoing total hip replacement and their correlation with osteolysis</td>
</tr>
<tr>
<td><strong>Orthopaedics</strong></td>
<td></td>
</tr>
<tr>
<td>M. Bajpai</td>
<td>To study the role of molecular markers in the diagnosis and treatment of posterior urethral valves (PUV)</td>
</tr>
<tr>
<td>M. Bajpai</td>
<td>A study on clinical and molecular markers of chronic interstitial nephropathy in congenital unilateral ureteropelvic junction obstruction</td>
</tr>
<tr>
<td>M. Bajpai</td>
<td>A study on the effect of endoscopic treatment of VUR in patients with angiotensin converting enzyme insertion deletion gene polymorphism in downregulating RAS activation</td>
</tr>
<tr>
<td><strong>Paediatric Surgery</strong></td>
<td></td>
</tr>
<tr>
<td>Arvind Bagga</td>
<td>A prospective, randomized controlled trial comparing the efficacy of intravenous cyclophosphamide and alternate day prednisolone versus tacrolimus and alternate day prednisolone for patients with steroid resistant nephrotic syndrome</td>
</tr>
<tr>
<td>Rakesh Lodha</td>
<td>Biomarker discovery in asthma using an integrated genomics approach</td>
</tr>
<tr>
<td>V. K. Paul</td>
<td>Impact of diaper use on incidence of systemic bacterial infection in hospitalized neonates</td>
</tr>
<tr>
<td><strong>Paediatrics</strong></td>
<td></td>
</tr>
<tr>
<td>A. K. Dinda</td>
<td>Reconstruction of extensive long bone defects in rabbit using calcium phosphate-mulllite composites</td>
</tr>
<tr>
<td><strong>Pharmacology</strong></td>
<td></td>
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<td>-----------------</td>
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</tr>
<tr>
<td>D. S. Arya</td>
<td>Cardioprotective mechanisms of telmisartan in experimental models of myocardial infarction in streptozotocin-induced diabetic rats</td>
</tr>
<tr>
<td>Surender Singh</td>
<td>Evaluation of antiarthritis activity of plant lipids containing omega-3 fatty acids in experimental models</td>
</tr>
<tr>
<td>Surender Singh</td>
<td>To study the efficacy and safety of certain drugs from plants sources in the treatment of erectile dysfunction in experimental models</td>
</tr>
<tr>
<td>Y. K. Gupta</td>
<td>Quantitative detection of heavy metals and phthalates</td>
</tr>
<tr>
<td>Y. K. Gupta</td>
<td>Effect of traditionally used ayurvedic rasa aushadhies on renal and hepatic functions: Clinical and experimental study</td>
</tr>
<tr>
<td><strong>Physiology</strong></td>
<td></td>
</tr>
<tr>
<td>Ashok Kumar Jaryal</td>
<td>Modulation of the activity of barosensitive and chemosensitive neurons in nucleus tractus solitarius by medial preopic area stimulation in rats</td>
</tr>
<tr>
<td>Debabrata Ghosh</td>
<td>Endometrial receptivity for blastocyst implantation in the primate systems biology approach</td>
</tr>
<tr>
<td>Raj Kumar Yadav</td>
<td>Efficacy of yoga and dietary management in sedentary overweight subject with regards to markers of endothelial dysfunction, obesity and diabetes</td>
</tr>
<tr>
<td>Suman Jain</td>
<td>Motor and cognitive behaviour in 6-hydroxydopamine (6-OHDA) adult rat model of Parkinson’s disease following magnetic field exposure and implantation of ferromagnetic nanoparticles</td>
</tr>
<tr>
<td><strong>Reproductive Biology</strong></td>
<td></td>
</tr>
<tr>
<td>Anand Kumar</td>
<td>Mediatory role of hypoxia inducible factor 1a on vascular endothelial growth factor expression in an immortalized mouse Leydig cell line</td>
</tr>
</tbody>
</table>
**Surgery**

<table>
<thead>
<tr>
<th>Investigator</th>
<th>Project</th>
<th>Funding agency</th>
<th>Funds (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anurag Shrivastava</td>
<td>Safety and efficacy of autologus stem cells in prevention of amputation of patients with chronic critical limb ischemia</td>
<td>DBT</td>
<td>123,581</td>
</tr>
</tbody>
</table>

**Transplant Immunology and Immunogenetics**

<table>
<thead>
<tr>
<th>Investigator</th>
<th>Project</th>
<th>Funding agency</th>
<th>Funds (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>N. K. Mehra</td>
<td>Evaluation medical science: Identification of HIV/AIDS-related genes to develop therapeutic and preventive strategies</td>
<td>DST</td>
<td>270,000</td>
</tr>
<tr>
<td>N. K. Mehra</td>
<td>Implications of the interferon system and immune-genetic basis of resistance in HIV-1 infection and disease</td>
<td>ICMR</td>
<td>1,954,100</td>
</tr>
</tbody>
</table>

**Urology**

<table>
<thead>
<tr>
<th>Investigator</th>
<th>Project</th>
<th>Funding agency</th>
<th>Funds (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rajeev Kumar</td>
<td>Evaluation of oxidative stress as a cause for idiopathic male infertility and the role of ‘Addozoa’ in its treatment</td>
<td>Charak Pharma</td>
<td>540,073</td>
</tr>
</tbody>
</table>

**New research projects funded by international agencies**

<table>
<thead>
<tr>
<th>Investigator</th>
<th>Project</th>
<th>Funding agency</th>
<th>Funds (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balram Bhargava</td>
<td>Untreated heart failire: Activation of the immunological and inflammatory systems and changes after short term treatment</td>
<td>British Council, UK</td>
<td>3,351,119</td>
</tr>
</tbody>
</table>

**Dermatology and Venereology**

<table>
<thead>
<tr>
<th>Investigator</th>
<th>Project</th>
<th>Funding agency</th>
<th>Funds (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>V. K. Sharma</td>
<td>Genetic analysis of psoriasis and arthritis in Indians</td>
<td>NIH, USA</td>
<td>0</td>
</tr>
</tbody>
</table>

**Dr B. R. Ambedkar Institute–Rotary Cancer Hospital**

<table>
<thead>
<tr>
<th>Investigator</th>
<th>Project</th>
<th>Funding agency</th>
<th>Funds (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lalit Kumar</td>
<td>A randomized, double-blind, placebo-controlled, phase 3 study to assess the efficacy and safety of weekly farletuzumab (MORAb-003) in combination with carboplatin and taxane in subjects with platinum-sensitive ovarian cancer in first relapse</td>
<td>Morphotek Inc., USA</td>
<td>0</td>
</tr>
<tr>
<td>Sushma Bhatnagar</td>
<td>A double blind, randomized, placebo controlled, parallel group dose-range exploration study of sativex in relieving pain in patients with advanced cancer, who experience inadequate analgesia during optimized chronic opioid therapy</td>
<td>GW Pharma, UK</td>
<td>44,335</td>
</tr>
</tbody>
</table>

**Medicine**

<table>
<thead>
<tr>
<th>Investigator</th>
<th>Project</th>
<th>Funding agency</th>
<th>Funds (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S. K. Sharma</td>
<td>Sustaining research mentioned over the coming decades: Mentoring the next generation of Researchers for tuberculosis</td>
<td>European Commision</td>
<td>3,390,175</td>
</tr>
<tr>
<td>Author</td>
<td>Project Description</td>
<td>Granting Body</td>
<td>Funding</td>
</tr>
<tr>
<td>---------------------</td>
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</tr>
<tr>
<td>Sanjeev Sinha</td>
<td>A study of patients in resource-limited areas with cancer who also have HIV</td>
<td>EMMES Corporation, USA</td>
<td>234,549</td>
</tr>
<tr>
<td><strong>Microbiology</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shobha Broor</td>
<td>Rapid low cost molecular detection of influenza virus infections</td>
<td>NIH, USA</td>
<td>825,570</td>
</tr>
<tr>
<td>Shobha Broor</td>
<td>Enhanced surveillance for pandemic H1N1 (pH1N1) of swine lineage: A multisite study</td>
<td>CDC, USA</td>
<td>4,953,992</td>
</tr>
<tr>
<td><strong>Neurology</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kameshwar Prasad</td>
<td>Genetic basis of stroke in an Indian Population</td>
<td>British Council, UK</td>
<td>748,833</td>
</tr>
<tr>
<td>Madhuri Behari</td>
<td>A phase III, double blind, placebo controlled randomized trial to determine the efficacy and safety of a low (50 mg/day) and high (100 mg/day) dose of safinamide, as add-on therapy, in subjects with early idiopathic parkinson’s disease treated with a stable dose of a single dopamine agonist</td>
<td>Merck Serono International S.A., Switzerland</td>
<td>494,786</td>
</tr>
<tr>
<td>Madhuri Behari</td>
<td>Open label trial to determine the long term safety of safinamide in Parkinson’s disease patients</td>
<td>Merck Serono International S.A., Switzerland</td>
<td>571,722</td>
</tr>
<tr>
<td><strong>Obstetrics and Gynaecology</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Suneeta Mittal</td>
<td>A cluster randomized controlled trial to evaluate the effectiveness of the clinical integrated RHL evidence-based medicine course</td>
<td>WHO</td>
<td>1,058,637</td>
</tr>
<tr>
<td><strong>Paediatrics</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A. K. Deorari</td>
<td>Phototherapy or exchange transfusion in neonates with hyperbilirubinemia</td>
<td>WHO</td>
<td>216,000</td>
</tr>
<tr>
<td>Madhulika Kabra</td>
<td>An open-label extension study of gene-activated human glucocerebrosidase (GA-GCB) enzyme replacement therapy in patients with type 1 Gaucher disease</td>
<td>Shire Human Genetic Therapies, Inc., USA</td>
<td>2,262,573</td>
</tr>
</tbody>
</table>
9.1 Anaesthesiology

**Professor and Head**
Chandralekha

**Professors**
- Mahesh Kumar Arora
- Rajeshwari Subramaniam
- Lokesh Kashyap
- Dilip Kumar Pawar
- Anjan Trikha
- Dilip Shende (RPC)
- Ravinder Kumar Batra
- Maya Dehran

**Additional Professor**
Ganga Prasad

**Associate Professors**
- Virender K. Mohan
- Rani A. Sunder
- Vimi Rewari
- Vanlal M. Darlong

**Assistant Professors**
- Amar Pal Bhalla
- Anjolie Chabbra
- Jyotsna Punj
- Rashmi Ramchandran
- Ravinder Kumar Pandey
- Renu Sinha (RPC)

**EDUCATION**

- Academic activities of undergraduate, postgraduate and paramedical staff, B.Sc. (Nursing), M.Sc. (Nursing) are continuing as before.

- Training of doctors and technicians from India and abroad in various aspects of Anaesthesia, intensive care management, pain medicine and emergency care are continuing as before.

**Short and Long-term Training**

The following candidates’ underwent training in the department during the year:

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Name of the candidate</th>
<th>Place</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr Rakhee Goyal</td>
<td>Base Hospital, Delhi Cantt.</td>
</tr>
<tr>
<td>2.</td>
<td>Mr Rajesh Singh</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Mr Bharat</td>
<td>Prakash Institute of Physiotherapy, Greater Noida</td>
</tr>
<tr>
<td>4.</td>
<td>Mr Sudhanshu Pandey</td>
<td>T.H.P.I., Hyderabad</td>
</tr>
<tr>
<td>5.</td>
<td>Ms Upasna Sharma</td>
<td>Manimajra, Chandigarh</td>
</tr>
<tr>
<td>6.</td>
<td>Mr Rakesh Kumar Jamwal</td>
<td>Siali, Pathankot, Punjab</td>
</tr>
<tr>
<td>7.</td>
<td>Dr Ranu Arora</td>
<td>Sweden</td>
</tr>
<tr>
<td>8.</td>
<td>Dr Luke Gibson</td>
<td>Monash University, Australia</td>
</tr>
<tr>
<td>9.</td>
<td>Dr Shambhu Kumar Pahari</td>
<td>Bir Hospital, Kathmandu, Nepal</td>
</tr>
</tbody>
</table>
The number of short term and long term trainees came to the department were:-

- Pain Clinic - 2
- ICU - 5
- Anaesthesia - 1

**CONTINUING MEDICAL EDUCATION**

*Organized by the department*

**Professor Ravinder Kumar Batra**


*Lectures delivered*

**Professor Chandralekha**

1. ‘Anaesthesia problems in a patient with chronic renal failure’ in EUROCAPS (Examination oriented refresher course for anaesthesia postgraduate students), Department of Anaesthesiology and Intensive Care, UCMS & GTB Hospital, 8 September 2009.
5. Chaired ‘Coronary stents and transvenous pacing before and surgery, when is it required’, Annual Conference, Department of Anaesthesiology and Intensive Care, MAMC, 3–4 April 2010.
6. ‘Drugs used in critical care unit’, Critical Care Update, College of Nursing, AIIMS, 5-6 April 2010.

**Professor Ravinder Kumar Batra**

2. ‘Post-burn contracture neck, chest and arm and acute burns’ UCMS & GTB Hospital, New Delhi, 5 September 2009.
3. ‘Tempero-mandibular joint ankylosis’ UCMS & GTB Hospital, New Delhi, 5 September 2009.
5. Ketamine as an adjunct with bupivacaine in paravertbral analgesia for breast surgery, ISA (Delhi) monthly meeting, AIIMS, New Delhi, 20 November 2009.
6. ‘Anaesthetic consideration for neonate’, PG Assembly, SGR Hospital, New Delhi, 17 February 2010.

8. ‘Life saving Anesthesia for Obstetrics Emergency: Contents, skills to be acquired and key points for trainers’ Orientation workshop for Master Trainers on the course and Curriculum developed in Anaesthesia and OBG training for MOs and its implementation for the UT of Lakshadweep, Chennai, 23–24 March 2010.

Professor S.Rajeshwari

1. ‘Anesthetic Considerations in Patients with Adrenal Disease’ and ‘Portal hypertension and anaesthesia’, PG Assembly, SGR Hospital, New Delhi, 11 February 2010.


5. Tracheostomy: Anesthesia implications, EUROCAPS 2009, UCMS & GTB Hospital, Delhi.

Professor Maya


Dr. V.Rewari

1. Anesthesia for congenital heart disease, EUROCAPS 2009, UCMS & GTB Hospital, Delhi, 7 September 2009.

NATIONAL AND INTERNATIONAL CONFERENCES

Lectures delivered

Professor Chandralekha


2. ‘Pulmonary function testing: its value in preoperative evaluation’ 57th Annual National Conference, Indian Society of Anaesthesiologists, ISA, Chennai, Tamilnadu


Professor Ravinder Kumar Batra
1. ‘Anaesthesia for Cleft-lip and palate surgery’, ISA (Delhi Branch), 4 April 2009.

Professor S. Rajeshwari
1. AOA IInd International Conference, Chandigarh (18th to 20th Sept. 2009): Delivered lecture on “Labor Analgesia – Anesthesiologist’s Perspective”.
3. Patient with HIV infection. Lecture deliver at the 2nd Annual Conference of Association of Obstetric Anaesthesiologists held from 18-20 September, 2009 at PGIMER, Chandigarh.

Professor Anjan Trikha
1. Perioperative pain management – when do we start, where do we end, South Zone ISA conference 2009, Hyderabad, 25 September 2009.
2. In obstetric analgesia what to do when epidural fails or is inadequate?, 2nd National Conference of Association of Obstetric Anesthesiologists, PGIMER, Chandigarh.
3. A mega-multicentre trial is not necessarily good scientific methodology, Annual Conference of RSACPCON-2009, Army Hospital, New Delhi.

Dr. V. Rewari
1. DVT Prophylaxis in Trauma, Second International Conference of the Indian Society for Trauma and Acute Care (ISTAC8) TRAUMA 2009, JPN Apex trauma Centre and AIIMS, New Delhi, 12–15 November 2009.

RESEARCH
Departmental Research
Ongoing
1. Safety and efficacy of low dose spinal anesthesia in patients undergoing laparoscopic hernia repair.
2. Comparison of BIS and entropy for assessment of sedation in critically ill patients.
3. Evaluation of stroke volume variation as predictor of fluid responsiveness using pulse contour analysis device (Floreac/Vigileo) in mechanically ventilated patients.
4. Incidence of accidental venous cannulation during epidural catheter placement after prior epidural injection of normal saline and head down position.
5. To evaluate the efficacy of Tranexamic Acid in reducing perioperative blood loss and its effect on shunt patency in Lieno Renal Shunt surgery – a prospective randomized double blind placebo control study.

7. Comparison of oxygenation with pressure controlled ventilation versus volume controlled ventilation during laparoscopic bariatric surgery and the effects of alveolar recruitment on oxygenation.


9. To study the analgesic efficacy and safety profile of add-on bupivacaine by paravertebral route for adults undergoing percutaneous nephrolithotomy.


11. Development of an anesthesia delivery work station.

**Completed**

1. A study to assess quality of sleep and factors affecting sleep in hospitalized patients.

2. Comparison of two doses of intrathecal morphine for postoperative pain relief in pediatric patients undergoing thoracic and spine surgery.


4. Lamotrigine versus pregabalin in the management of trigeminal neuralgia refractory to carbamazepine. An open label, randomized active comparator controlled cross over trial.


6. To study the efficacy and safety of glossopharyngeal nerve block in the management of glossopharyngeal neuralgia

**Collaborative Research**

1. Comparison of long term outcome and quality of life following laparoscopic repair of incisional and ventral hernias with tacker or suture mesh fixation. A prospective randomized controlled study (Department of Surgery).

2. A prospective randomized trial comparing chronic groin pain and quality of life in lightweight vs. heavyweight mesh in laparoscopic inguinal hernia repair (Department of Surgery).

3. Chronic groin pain in laparoscopic hernia repair in TEP vs. TAPP – a randomized controlled trial (Department of Surgery).

4. A study to assess the physical and psychological stresses of patient weaned off from mechanical ventilation in ICU (College of Nursing).

5. To evaluate postoperative pain and other postoperative variables/complications with different surgical techniques of Tonsillectomy, (Department of ENT).

6. Outcome of laparoscopic sleeve gastrectomy in morbidly obese patients (Department of Surgery).
7. Assessment of factors affecting safety in patients undergoing operations in general surgery (Department of Surgery).

8. Feasibility and comparison of the technique of Ultrasound guided Central Venous Catheter placement via internal jugular vein in three different patient position – conventional (15° Trendelemburg), semi sitting (30° head up) and left lateral position (Centre for Biomedical Engineering, Indian Institute of Technology, Delhi and Central Scientific Instruments Organizations Chandigarh).


10. A study of fenotypic and phenotypic characterization of Asian Indian Children with craniosynostosis. (Department of Paediatric Surgery).

PUBLICATIONS


**HOSPITAL SERVICES**

**PATIENT CARE**

The following facilities are available in the department.

1. Pre-anaesthesia clinic (PAC): 3 days in a week (Monday/Wednesday/Friday), 2 pm–5 pm
2. Pain Clinic: 3 days in a week (Monday/Wednesday/Friday), 2 pm–5 pm.
3. Interventional pain management procedures are done in the operation theatre once in a week on Thursday.

**Operations/Procedures**

1. **Main Operations Theatre**
   - General Surgery 2715
   - Gastrointestinal Surgery 459
   - Urology 1154
   - Otorhinolaryngology 987
   - Gynaecology 1137
   - Paediatric Surgery 1506
   - Dental Surgery 125
   - RPCentre 6103 (Routine+ emergency+MAC)

2. **Peripheral Operation Theatres**
   - Maternity 1976
   - Orthopaedics 2140
   - IVF 121
3. Interventional Pain Management Procedures 335

4. Procedures done under GA in peripheral areas

• Modified ECTs (Psychiatry OPD) 204
• CECT 1456
• MRI 439
• Lithotripsy 7
• Paediatric USG (RPC) 193
• Other radiological procedures 56
• Ultrasound (RPC) 198

AB8-ICU

• Total number of patients admitted 361
• Number of patients discharged 224
• Number of deaths 27

AB-8 Emergency duty

• Emergency operations done 7429
• Emergency calls attended 2380
  (From wards, peripheral ICUs, casualty)

SPECIAL CLINICS: Total number of patients attended the clinic

• Pre-anaesthesia clinic 9463
• Pain Clinic 3250

AB-8 Recovery Room

• Cases done under Local Anaesthesia 4322
• Cases done under General Anaesthesia 7310

Anaesthesia services for surgical workshops

Urology Workshop April 3-4, 2009
ENT Workshop May 1, 2009
Orthopaedics Arthroplasty workshop August 22-23, 2009
ENT – Head & Neck Cancer update November 1-2, 2009
Endosurg-2010 by the Deptt.of Surgery March 26-28th, 2010

SIGNIFICANT EVENTS

Professor Chandralekha

• Executive Member to Bureau of Indian Standards (BIS) and Chairperson of Anaesthetic, resuscitation and allied equipment sectional committee MHD-11.
• Chairperson, Academic Committee of Indian College of Anaesthesiologists.
• Trust member of board of trustees of Indian College of Anaesthesiologists.
• Governing Council Member of Centre of Social Research (CSR) – a NGO.

Professor Ravinder Kumar Batra
• Member, Expert Group Meeting on National Essential Medicine List, Central Drugs Standards Control Organization, Ministry of Health, Govt. of India and Department of Pharmacology, AIIMS.
• Member, Expert Group for formation of training programme for Medical Officer posted at Primary Health Centres for pesticide poisoning, MOH, Govt of India.
• Member, Expert group TOT for Training of MB,BS doctors in Life Saving Anesthetic skills for Emergency Obstetric Care for MOH, Chattisgarh and Hyderabad, Andhra Pradesh.
• Member, Expert group member of orientation workshop for the Master Trainers on the course and Curriculum developed in Anaesthesia and OBG training for MOs and its implementation for the UT of Lakshadweep.
• Member of Board of Speciality in Anesthesiology, MCI, Delhi to give opinion on guidelines for conscious sedation in Pediatric Dentistry

Professor Maya
• Provided Voluntary medical community services at Bhati Centre in Radha Swami Satsang for 17 days.
• Provided first aid services, resuscitation and critical care until the patient is shifted to AIIMS, New Delhi or Safdarjang Hospital.
• Provided medical services at the OPD of the dispensary at Bhati Centre, New Delhi on all Sundays of the year.
EDUCATION

Undergraduate

The department conducts M.B.B.S., B.Sc. (Hons) Nursing, B.Sc. Nursing (Post Certificate), B.Sc. Ophthalmic and B.Sc. Radiographic technique courses. For M.B.B.S. students, a modified curriculum has been introduced which has greater integration with other basic preclinical departments. Formative tests involving multiple choice questions and case studies have been prepared on various topics in gross anatomy, microanatomy, developmental anatomy and neuroanatomy for the undergraduate students. Five MBBS students undertook various short-term research projects. Four of these students were awarded the Kishore Vaigyanik Protsahan Yojana (KVPY) fellowship from the Department of Science and Technology (DST) on the basis of these projects. Three of these students worked on neuroanatomy and one on “Mutation analysis in Congenital Glaucoma and Diagnostic significance of Yq microdeletions in men opting for ART”. Under summer fellowship program one MBBS student was trained for research techniques.

Postgraduate

Besides training M.D., M.Sc. and Ph.D. anatomy students, the department conducted course on Human Genetics for the PG students of the Department of Biotechnology, AIIMS. The faculty taught human genetics (both practical and theory) to these students. The faculty delivered series of lectures to M.Sc. students of Jiwaji University Gwalior on neuroscience, medical genetics and embryology. Faculty delivered series of lectures at TERI University on routine and advanced techniques in electron Microscopy. The faculty also delivered lectures on anatomy for postgraduates during teleconference (held at IGNOU on Gyan Darshan) organized by National Board of Examination. The departmental e-Learning facility was used by the Post Graduate and PhD Students for scientific literature search and activities related to their thesis and research.
Short and long term training

Under IASc-INSA-NASI fellowship programme, one student received 8 weeks training in immunohistochemical and electronmicroscopic techniques. Besides, he also learnt to write research projects and the procedure for accessing scientific literature using internet.

Two M.Sc. students from Cochin university of Science and Technology underwent training in neuroanatomical and genetics techniques. Four students of B.Tech and M.Sc. Biotechnology from Amity University worked on basic genetic techniques and Histological and embryological aspects of human reproductive system. One student each of B.Sc.( Biotech), M.Sc. and M. Pharm. courses of AMITY University, Noida, Chinmaya College, Haridwar, H.N.B. Garhwal University and J.S.S. University, Mysore received training on Immunohistochemistry, insitu hybridization and Western blotting, Histological and Image Analysis Techniques.

One student from Dept. of Human Molecular Genetics, Jiwaji University Gwalior worked on Basic cytogenetic techniques and Genetics of Turner Syndrome. Two students from B.Tech Biotechnology, Amity University worked on Basic cytogenetic techniques, Molecular techniques in eye disorders.

The department provided training to two WHO fellows in genetics. One WHO trainee received training for a period of three months in molecular genetic techniques, basic cytogenetics and prenatal diagnostic techniques for detection of chromosomal disorders using CVS, amniotic fluid and cord blood samples. One WHO trainee from Mynamar was trained for plastination techniques for a period of one month.

CME (Continuing Medical Education)

The department organized two Cadaver-based arthroscopic surgery workshops in collaboration with the department of orthopaedics.

Lectures delivered

Prof. Rani Kumar

Delivered lectures on Plastination in a CME programme organized by PGI Chandigarh and on ‘Plastination: A newer alternative for preservation of biological material for teaching purposes’ in the Workshop on Embalming, plastination and organ donation in present day scenario at the Maulana Azad Medical College, New Delhi. Also delivered lecture on ‘Embryology of Genitourinary System’ in a “Mock Examination” for MCh. and DNB PG Students organized by Department of Urology, AIIMS 22nd March, 2010.

Prof. Shashi Wadhwa

Chaired a session on Plastination and participated in a round table discussion on how to write a grant in the Workshop on embalming, plastination and organ donation at the Maulana Azad Medical College, New Delhi. Delivered a guest lecture on “Cadaver use for developing hands on skills in endoscopic procedures” in the CME held at PGIMER, Chandigarh. Delivered an invited lecture on “Cellular and molecular changes in the chick hippocampus following prenatal sound stimulation” during the Workshop on Applications of Bioinformatics and Proteomic Techniques in Neurobiology held from September 07-21, 2009 at the Centre of Advanced Study, Department of Zoology, Banaras Hindu University, Varanasi.
Prof. R. D. Mehra
Delivered invited lecture in the Workshop on ‘Applications of Bioinformatics and Proteomic Techniques in Neurobiology’, Sept., 2009 at Banaras Hindu University, Varanasi entitled “Proteomics: A novel approach to understand neurodegenerative disorders”. Dr. Mehra also attended Workshop organized by CPCSEA in their National Conference, New Delhi, Jan.2010. She also chaired the session on Plastination and Round Table discussion on how to write a research grant in the workshop on the Embalmmre plastination and organ donation held at the Maulana Azad Medical College, New Delhi, March, 2010.

Prof. T. S. Roy
Delivered a lecture on “Setting up of an embalming unit and museology in the Workshop on embalming, plastination and organ donation” at the Maulana Azad Medical College, New Delhi, 26-27 March, 2010.

Dr. Pushpa Dhar
Delivered invited lecture on Teaching-Learning Media during Teachers Training Workshop in Anatomy at Central Council of Homeopathy - CCH-Delhi (June 2009). Also delivered guest lectures on ‘Assessment Strategies’ at Reorientation Training Programme, Module II at the Kamaxidevi Homeopathic Medical College & Hospital, Goa (July 2009) and on ‘Planning a lesson’ at CCH, Delhi (Nov.2009). Dr. Dhar was invited to deliver a lecture on ‘Arsenic Toxicity – a global problem’ in Reorientation Training Programme of AYUSH, Deptt. of MHWF, Govt. of India, held at Deptt. of Anatomy, Faculty of Medicine, Jamia Hamdard University, Delhi (January, 2010).

Dr Taposh K Das
Attended workshop on “Imaging in Nanoscale” at IIT, Mumbai.

Dr Rima Dada
Delivered lecture on “Role of Paternal Factors- Sperm DNA damage and oxidative stress in Recurrent Spontaneous abortion” in a CME on Recent Advances in Management of Recurrent Spontaneous Abortions Organised by Dept of Obstetrics and Gynaecology and Genetics and Fetal Medicine Committee (October, 2009).

Dr. A. Sharma
Invited to conduct a Pre-Conference “Workshop on Cytogenetics and Molecular genetics” in the XVIII National Conference of Indian Association of Oral and Maxillofacial Pathologists, held at India Habitat Centre, New Delhi from 27th -29th November 2009. Invited talk on “Role of Genetics in Oral Cancer and Dental Anomalies-A Bird’s eye view” at the XVIII National Conference of Indian Association of Oral and Maxillofacial Pathologists, held at India Habitat Centre, New Delhi. Invited talk on “Molecular, Histopathological and Clinical Examination for Genotype-Phenotype Correlation in Patients with Macular Corneal Dystrophy” at the International Symposium on Role of Genomics in Clinical Practice and 35th Annual Conference of the Indian Society of Human Genetics (ISHG’2010), held at SGPGIMS, Lucknow (6-8 March, 2010). Invited lecture on “Prenatal, Cytogenetics and Molecular Analysis of Genetic Disorders” in Reorientation Training Program of AYUSH, Dept of MHFW, Govt of India, held at Department of Anatomy, Faculty of Medicine, Jamia Hamdard University, New Delhi.
Renu Dhingra

Worked as resource faculty in “National workshop on Assessment Methods for learning Evaluation in Basic medical Sciences” at AIIMS, New Delhi.

Prof. R. Kumar, Dr. T. S. Roy, Dr. Renu Dhingra and Dr. Ritu Sehgal delivered lectures on various topics in gross and developmental anatomy during teleconference (held at IGNOU on Gyan Darshan) organized by National Board of Examination.

National and International Conferences

Prof. Shashi Wadhwa

Attended and delivered a talk in a nanosymposium at the 39th Annual Meeting of the Society for Neuroscience at Chicago, Illinois, USA from 17th to 21st October 2009.

Prof. R. D. Mehra

• Visited Semmelweis University Budapest under the Indo-Hungarian Collaborative Research Project of DST-NKTH, Aug-Sept., 2009 and delivered an invited lecture entitled “Neurotrophic and neuroprotective role of estrogen in hormone depleted and aged rat hippocampus” in the symposium on “Brain aging and geriatrics”, of the ‘Hungarian Physiology Congress’, Budapest, August 2009.

• Participated and presented two papers in 11th Congress of the Asian Society of Transplantation (CAST 2009), Beirut, Lebanon, October 2009.


Prof. T. S. Roy


Dr. P. Dhar

• Participated and presented the papers - Sodium arsenite exposure during early postnatal period induces morphological and morphometric alterations in rat testis at 29th Annual Conference of Society of Toxicology;

• Presented paper entitled “Early postnatal exposure to sodium arsenite alters calcium binding protein (CaBP) expression in Purkinje cells of rat cerebellum” at 27th Conference of Indian Academy of Neurosciences.

• Presented a paper entitled “Evaluation of alpha lipoic acid supplementation in ameliorating the arsenic induced oxidative stress in rat hippocampus” at Annual Conference of Anatomical Society of India and Chaired scientific session - Embryology, Morphology and Teratology

Dr. S. K. Basu Ray

Presented paper at the symposium on “Chemical and Neuronal sensitivity: Multiple targets and risk dimensions” organized by the Indian Academy of Neurosciences.
Dr. Rima Dada

Delivered invited lecture on “Role of Genetic Factors in male fertility regulation” at School of Environmental Sciences JNU, New Delhi on National Symposium on Nanotechnology: Implications and Solutions. Also chaired a session on Nanoparticles: Role in medicine on Theory and Applications at National Symposium on Nanotechnology: Implications and Solution. Delivered talk on Mitochondrial DNA Analysis in Primary Congenital Glaucoma at ISHG, Lucknow. Attended meeting on Advances in Genomic technology at AIIMs it was organized by International conference on Birth Defects and Disabilities. Delivered invited lecture on “Oxidative stress? Does it have a role in reproductive disorders” at International Conference on reproductive health at Jaipur, organized by Indian Society of Research in Reproduction. Delivered invited lecture on Sperm DNA damage- Can it be diagnosed on routine semen analysis at Reproductive Biomedicine meeting at 15th Annual meeting of Congress of Society of Andrology. Delivered Invited lecture on Role of Genetic Factors in male infertility: Implications in management in Conference on Technology in Fertility regulation organized by Department of Biomedical Engineering IIT, Kharagpur. Delivered invited lecture on “Scope of Genetic Research in Medicine” in Reorientation Training Program of AYUSH, Dept of MHFW, Govt of India, held at Department of Anatomy, Faculty of Medicine, Jamia Hamdard University, New Delhi.

Dr. Arundhati Sharma

Attended the

- 4th International Conference on Birth Defects and Disabilities (ICBDD) in the Developing World, held at the Le-Meridien Hotel, New Delhi on 4th-7th October, 2009 and the
- 1st Biennial Meeting of Indian Society for Pediatrics and Adolescent Endocrinology (ISPAE’2009) held at Indian Habitat Center, New Delhi from 13th-15th November’2009.

Dr. T.C. Nag

- Delivered lectures on: Selective vulnerability of cones in aging human retina, at National Brain Research Centre, Manesar.
- Delivered lectures on: Electron microscopy and immunohistochemistry in biological research, at Winter School on Molecular Medicine and Biotechnology at PGIMS, Rohtak, February 10, 2010.

Dr. Renu Dhingra

- Presented a talk on “development of limbs and embryological basis of triskelion” for a case of triskelion during CGR held by department of Orthopaedics (September, 2009).
- Delivered lecture on “Surgical anatomy of hip region” in AIIMS cadaver arthroplasty course organized by department of Orthopaedics.
RESEARCH

Funded Projects

Ongoing

Influence of prenatal chronic noise exposure on brain stem auditory nuclei, hippocampus and spatial memory in chicks. Dr Shashi Wadhwa, Funded by DBT (2008-2011) Funds: 65.49 lakhs

Studies on ovarietomy induced anatomico-chemical changes in rat cerebellum and their response to estradiol and tamoxifen therapies. (PI Dr. R. D. Mehra, Funded by ICMR (2008-2011) Funds: 5,64,000 Lakhs.


A stereological study of age related morphological and neurochemical changes in the human cochlear nucleus., PI Dr. T. S. Roy, Funded by ICMR (2010-2013) Funds 29.28 lakhs.

To study the effects of antioxidant supplementation on neuronal populations of rat hippocampus following sodium arsenite exposure during early postnatal period. PI Dr. Rima Dada, Funded by AIIMS (2009-2019) Funds: 70,000 Lakhs.


Role of circulating angiogenetic factors in the pathogenesis of preeclampsia Principal investigator: Dr Renu Dhingra, Co investigator: Prof Rani Kumar, Dr Neerja Bhatla and Dr Kalpana Luthra. Funded by AIIMS (2008-2010) Funds: 1.5 lakhs.

Completed


Brain aging and neurodegeneration: Neuroprotective and biomodulatory roles of estrogens and glucocorticoids (Indo-Hung. Collaborative research project) PI Dr. R. D. Mehra, Funded by DST (2007-2009) Funds: Rs. 3.90 lakhs.


**Collaborative**

**Ongoing**

European Commission funded “ASSIST” Project, EU-FP6 (with Prof. N.K. Mehra as the Principal investigator, HLA Deptt. duration- 2007-2010).


“Feasibility study of a novel intraosseus access device for emergency vascular access” along with department of cardiac radiology supported by Stanford India Biodesign in collaboration with IIT and Stanford university.


**Completed**


Screening of Von-Hippel Lindau gene for germline mutations in intracranial aneurysms. A prospective study. – Arundhati Sharma, Co-PI, with Department of NeuroSurgery AIIMS Funded, Rs 1.5 lakhs, (2008-2010)

**Departmental Projects**

**Ongoing**

Expression of calcium binding protein - calbindin in the chick hippocampus following prenatal excessive sound stimulation.

Effects of prenatal chronic noise exposure on the morphology of auditory cortex in chick.

Molecular studies of the excitatory and inhibitory synapses of the auditory cortex in developing chick exposed to prenatal chronic noise.

Hippocampal regulation of immune mechanism.

Development of the human auditory system.
Age changes in the human cochlear nerve
Morphology of the fetal and adult human pancreatic duct system
Effects of lipoic acid as an antioxidant supplement on arsenic induced toxicity in developing rat hippocampus.
Effects of perinatal Arsenic Exposure on rat testis: A morphological study
Effect of sodium arsenite exposure during perinatal period on rat testis
Effect of antioxidants on sodium arsenite induced neurotoxicity in the developing rat cerebellum
Cytogenetic and Molecular study in Coloboma
Effect of raloxifene on cardiac morphology in ovariectomized rats
Effect of estrogen & estrogen like compounds on cerebellum of adult female rat; A histochemical and molecular study
Glial changes in aging human optic nerve

**Inter Departmental projects**

**Ongoing**

Effect of arsenic exposure on rat liver during early postnatal period
Genetic Studies in Myelodysplastic syndrome—with Haematology
Clinical, radiological and genetic study in Blepharophimosis—with RP Centre
Genetic Studies in Myelodysplastic syndrome—with Haematology

Genetic Parameters of Neuroblastoma: A study on Fine Needle Aspiration Cultures. with Department of Pediatric Surgery funded by AIIMS (2008-2010) Funds: Rs 2.0 Lakhs.

To evaluate possible presence of mutations in VSX1 gene in Keratoconus—with Rajendra Prasad Centre for Ophthalmic Sciences, Funded by AIIMS (2008-2010) Funds: 2.0 Lakhs.

Clinical, radiological and genetic study in Blepharophimosis—with RP Centre

Investigation of genetic variations in CH13L1 and effect of YKL-40 production in Indian Asthmatic patients with Biophysics

Molecular analysis in Congenital cataract with RP centre

Evaluation of Reflexology as an adjunctive therapy in patients with Lennox Gastaut Syndrome, Mutation screening of GPR-65 in LGS. With Biophysics

**Completed**

Measurement of the depth of the terminal ductolobular units from the dermis in modified radical mastectomy specimens in carcinoma of breast to arrive at an optimum thickness of the skin flap

**PUBLICATIONS**

**Papers**

Chaudhury S, Wadhwa S. Prenatal auditory stimulation alters the levels of CREB mRNA, p-CREB and BDNF expression in chick hippocampus. Int J Dev Neurosci. 2009 27: 583-90.


Sharma A, Paliwal P, Dadhwal V, Sharma Y and Deka D. Rare finding of 2n/4n mixoploidy in mother and fetus with severe immune hydrops. Cytogenetic and Genome Research 2009; 124: 90-93.


**Abstracts**


**Books/Chapters in Books**


**PATIENT CARE**

**GENETIC DIAGNOSTIC and COUNSELLING SERVICES**

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**AWARDS and HONOURS**

Dr. Rani Kumar served as Advisory panel member for election of fellow of *National Academy of Medical Sciences*, 2009.

Prof. Shashi Wadhwa served as Expert Committee member for selection of awardees to the prestigious Shanti Swarup Bhatnagar Prize of *CSIR in Medical Science and DST BOYSCAST* Fellows for 2009.
She also served as Advisory Panel member for election of NAMS Fellows in Anatomy for 2009. She was nominated observer by NAMS to the CME organised by Department of Anatomy, PGIMER, Chandigarh, 2009. She was nominated as member of project review committee (PRC) on Neurological Sciences at ICMR.


Dr. P. Dhar was conferred the fellowship of Society of Toxicology of India 2009 ‘Fellow – STOX’ at Annual Conf. of STOX held at NIN, Hyderabad

Dr. P.Dhar was awarded “IMA National President Appreciation Award” for the year by Indian Medical Association (IMA) ; 2009

Dr. S.K. Basu Ray was admitted to the membership of the National Academy of Medical Sciences, N.Delhi. He received the “Favourite Teacher Award” from the IInd Year M.B.B.S. students on 5th September, 2009

Dr Rima Dada received ICMR international fellowship for young Biomedical scientist for the year 2009-2010 and was visiting scientist at Cleveland Clinic at centre for reproductive medicine from March 2009 to July 31st 2009. During her stay at Cleveland Clinic at centre for reproductive medicine she was adjudged an excellent mentor for summer internship course from June 1 to July 24th 2009.

**SIGNIFICANT EVENTS**

**Prof. R Kumar**

Invited as Expert Member of Selection Committee for interviewing candidates for the post of Assistant Professor (Anatomy) at University of Health Sciences, Rohtak. She was an Expert Member of Inspection Committee for increase of seats in PG Course in Anatomy at Maulana Azad Medical College, New Delhi. Invited as Expert Member of Selection Committee for interviewing candidates for the post of Assistant Professor (Anatomy) at Maulana Azad Medical College, New Delhi. She was also invited as Expert Member of Selection Committee for interviewing candidates for the post of Lecturers/Assistant Professor (Anatomy) at Chhatrapati Shahuji Maharaj Medical University UP, Lucknow.

**Prof. S Wadhwa**

Prof. Shashi Wadhwa attended the Planning and Monitoring Board meeting and as expert member for SRF interview at National Brain Research Centre at Manesar, Haryana. She served as examiner for DNBE in Anatomy at Lady Hardinge Medical College and was invited as moderator for DNBE in Anatomy at the NBE, Dwarka, New Delhi. She acted as external examiner for M Phil dissertation of a student in Life Sciences at JNU, New Delhi. She participated in the Editorial Board meeting of J Biosciences at Hyderabad. Prof Wadhwa also served as an observer for NAMS in the CME held at PGIMER, Chandigarh. She attended the committee meeting of project review committee (PRC) on Neurological Sciences at ICMR. Shashi Wadhwa continued to serve on various committees of AIIMS: as Chairperson of research subcommittee and teaching schedule committee; as member of Deans’s committee, Institutional committee for stem cell research and therapy, patent committee, subcommittee for institute travel grant and implementation committee for AIIMS extension at Jhajhar, Haryana.
She reviewed the book on “Early life origins of human health and disease” edited by Newnham and Ross, 2009 for IJMR. She reviewed research papers submitted to Neuroscience Letters, Developmental Neuroscience, IJMR, NAMS J., J. Biosciences and J. Anatomical Society of India. She also reviewed neuroscience research projects and annual project reports for ICMR, DST and DBT. She continued to be a member of the editorial board of J. Anatomical Society of India.

**Prof. R. D. Mehra**

Reviewed neuroscience research projects for ICMR, DBT, DST, CSIR and manuscripts for publication in Brain Research, Neurosciences Letters, *International journal of Sciences and Life Science*. Nominated as member of Annual Report Editing Committee, Research Committee and Animal Ethics Committee of AIIMS. Dr. Mehra also continued to be member of the Chronic Disease Biology (Neuroscience, biomarkers and neuro engineering) Task Force of DBT. She was member of expert committee for faculty selection of several Public Service Commissions and institutions.

**Prof. T. S. Roy**

Prof. T.S. Roy continued to be a member of the editorial board of Pancreas. He reviewed manuscripts for the journal, Clinical Anatomy, Pancreas, National Medical Journal of India and Neuroscience Letter. Prof. T.S. Roy was member of the expert committee for faculty selection at various national research institutions and universities. He reviewed projects on Neurosciences for ICMR and DST. Served in the expert committee for setting questions for National Board of Examination.

**Dr. P Dhar**

Dr. P Dhar visited Deptt of Human & Clinical Anatomy (Sultan Qaboos University, Oman) as a Visiting Consultant. Dr. Dhar reviewed manuscripts submitted to IJDN. She continued to be Member-Curriculum Committee for U.G. (AIIMS), She is Vice President of A.I.B.A., Life Member of Jagruti Kiran Foundation (recognized by Ministry of Environment and Forests, Govt. of India). She was Conferred Membership of IMA (Indian Medical Association) and worked as ad-hoc reviewer (International Journal for Dev. Neurosciences.

**Dr Taposh K Das**

Was nominated as member Governing Body of Kalindi College (Delhi University) for 2009-2010.

**Dr. Rima Dada**

Reviewed articles submitted to Indian Journal of Medical Research, Andrologia, Fertility and Sterility, Mitochondrian, BMJ case report, Andrologia, J of Paediatric Neurology and J of Paediatric Biochemistry, Indian Journal of Urology,. She also reviewed projects submitted to DBT, ICMR, Indo US technology Forum and Wellcome Trust. Member Organising committee of AIIMS-DBT joint initiate for collaborations with Wellcome Trust UL. She continued to be on the editorial board for J of Paediatric Neurology and J of Paediatric Biochemistry, The open Andrology Journal.

Invited to be a member of Editorial Board of Journal of Paediatric Biochemistry and open Andrology Journal and Online Journal of Health and Allied Sciences. Chaired session in 3 conferences National symposium on Nanoscience at JNU, Conference on Reproductive Biomedicine Jaipur and Appeared on TV for NDTV, Star Plus, Sahara NCR and India TV on show to increase public awareness about Role of Genetic factors in Infertility and effect of lifestyle factors in fertility regulation and genetic factors how do they lead to disease. Dr Rima Dada was awarded the Best Poster award at 4th
International Symposium on Genetics of Male Infertility at Salt Lake City Utah, USA for the poster Role of Oxidative stress and DNA damage in Varicocele: Benefical Effect of Varicocelectomy.

**Dr. Arundhati Sharma**

External expert on the Post Graduate Board of Studies in Biochemistry and Genetics (P.G. BOS) of M. D. University, Rohtak, was invited to conduct a Pre-Conference “Workshop on techniques in Cytogenetics and Molecular genetics” for the Faculty, under and post graduates of Oral and Maxillofacial Pathology, to train them in the contemporary techniques of molecular biology and provide them with a fundamentals of Genetics and its role in the various oral and maxillofacial disorders, held at India Habitat Centre, New Delhi.

**Dr. R. Dhingra**

Appointed as member of editorial board of international society of plastination. Continue to be member of international society of plastination, executive member of DASMOS and member of teaching schedule committee of AIIMS, committee for rules for student conduct .Article on plastination printed in Dainik jagran, External examiner BPT in GNDU Amritsar. Reviewed research papers submitted to International journal of plastination. Reviewed research project submitted to ICMR. Evaluated one MD thesis.

**Visiting scientist**

Dr. Klara Felszeghy and Dr. Edina Wappler of Semmelweis University Budapest visited the Department under Indo-Hungarian collaborative research project, March,-April 2009.

Hatim Zariwala, research scientist, Mouse Genetics. Allen Institute for Brain Science, Seattle, Washington. Delivered a lecture on “From mouse brain atlas to cortical function: The neurobiology of cortical cell types”.

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9.3 Biochemistry

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<td>Professors</td>
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<td>Neeta Singh</td>
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<td>Alpana Sharma</td>
<td>N.C. Chandra*</td>
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**EDUCATION**

**Undergraduate**

The department continues with its undergraduate UG teaching programmes which include MB, BS (two semesters), Nursing (one semester) and B.Sc. (Hons) Nursing (one semester). Student’s feedback on the teaching-learning of Biochemistry and feedback on examinations to the students had been regularly incorporated in the Biochemistry teaching schedule for the medical undergraduates. New problem-based modules had been introduced for the second semester to strengthen the concepts in immunology and water electrolyte balance along with Bench level exercises in basic immunological techniques.

**Postgraduate**

These include Seven M. Sc. (1st year and IIIrd year) students and seven M. D. students. The department also has 43 Ph. D. students.

**Short-term training**

Summer training in research was provided to MBBS students from AIIMS. Fifteen MBBS (1st year) students have conducted projects work for the KVPY Scheme of the DST in different laboratories of the department and four students have been awarded the fellowships. Fifteen students from India received short-term training. The Department also imparted short-term training (one onth) to two M.Sc. students from BPKIHS, Dharan, Nepal in molecular biology and advanced immunological techniques.

**Continuing Medical Education**

Dr. Neeta Singh delivered the following lectures on: “Cell signaling and therapeutics”, at Venkateshwar College, New Delhi; on 11th November 2008; HPV and cervical cancer”, at Venkateshwar College, organized by Women Development Cell, New Delhi; on 2nd December
2008. Dr Singh chaired a session at the 77th Annual Meeting of SBC on and ‘Impact of basic and translation research in medicine agriculture and industry, SBC, Chennai, held from 18th – 20th December 2008; at Chennai., Chaired a session at the International Symposium on ‘Novel strategies for targeted prevention and treatment of cancer’, held at JNU, New Delhi, from 19th – 20th December 2008; ‘.,”HPV and cervical cancer”’, at SRM Medical College, Chennai, held on 10th January 2009; at Chennai., Chaired a session at 28th Annual Convention of Indian Association for Cancer Research and on “Emerging challenges and approaches in cancer biology”, Bangalore, held from 21st – 24th February 2009; at Bangalore., Chairperson for a session at the “Ovarian Cancer”, AIIMS, New Delhi, Symposium held from 27th – 28th March 2009 at AIIMS, New Delhi.

Dr Nibhriti Das delivered lectures at National Workshop on Assessment Methods for Learning Evaluation in Basic Medical Sciences, 22—24 September, 2008 organized by the Departments of Basic Sciences at the AIIMS workshop on ‘assessment strategies in medical education’ organized by KL Wig CMET, AIIMS on 18 October, 2008.

National and International Conferences

Dr Subrata Sinha

• delivered the invited lectures on ‘Molecular Analysis of gliomagenesis’, in the International Symposium on ‘Perspectives in cell signalling and molecular Medicine’, Kolkata; on 29th November 2009.

Dr Neeta Singh

• delivered the following invited talks on “‘HPV and cervical cancer pathogenesis (Poster)’”, at the Annual AACR meeting- 2008, held at San Diego, USA; from 12th – 16th April 2008.

• ‘(Poster),”Induction of apoptosis by curcumin and its therapeutic efficacy in human squamous cell lung carcinoma H520 cells””, at the Cancer Congress of UICC (Poster), held from 27th – 31st August 2008 at Geneva, Switzerland.; 27–31 August 2008 (Poster),

• “‘Biochemical risk factor determinants’”, at the 21st Round Table Conference on ‘Life Sstyle and Cancer’, of Ranbaxy Science Foundation, AIIMS, New Delhi; held on 28th November 2008.

• Analysis of HPV-16 E6/E7 and L1 mutations in cervical cancer isolates from different regions of India’,” at the International Symposium on ‘HPV associated cancer; translating research into cancer prevention and medicine’, held at Trivandrum; from 1st – 3rd November 2008

• ‘Effect of curcumin on cisplatin and radiotherapy in human cervical cancer cells’,” at the 77th Annual Meeting of SBC and impact of basic and translation research in medicine agriculture and industry’, Chennai; held from 18th – 20th December 2008.


Dr D.N. Rao

• delivered following invited talks during IIS Aannual conference, held at Bhubaneshwar 2008., XIX national Congress of Veterinary Parsitology; 2008.,
• Biotechnology meet at Andhra University, Vishakapatnam, Srivenketeshwara University, Tirupati and Utranchal University, Dehradun and Indo-Brazil DST meeting, held at Rio-Brazil. November,

Dr Nibhriti Das
• Invited talks on ‘Expression and significance of complement receptor 1 in SLE’, delivered the following invited talks at the University of Maryland. USA; June 11, 2008.
• Expression and significance of complement receptor 1 in SLE and papers presented in Federation of Clinical Immunology Society 2009, San Francisco; June 11–14 June, 2009.
• XV International Symposium on Atherosclerosis 2009, Boston, MA USA; June 14-18, 2009.
• XXI International Complement Workshop; Basel, Switzerland; 28 September – 2 October 2008.
• Keystone Symposia on ‘Molecular and Cellular Biology’, Alpbach, Austria; 8–13 June 2008.

Dr M R Rajeswari delivered invited lectures on
• ‘Cell-free circulating DNA in plasma in health and neurological disorders SCA-12 and FRDA’, at International Conference Neurocon- 2009, 8th Feb, 2009 at Kolkata.

Dr Kalpana Luthra
• delivered Invited lectures at workshop on ‘How to plan a research project and write a proposal’ for PG students, AIIMS, New Delhi; October 2008.
• ‘MCQs— as assessment tool’ for residents and PGs in department of Physiology, AIIMS, New Delhi’, Aug 20, 2008.

Dr Alpana Sharma

Dr N. C. Chandra
RESEARCH

Funded Projects

Completed


5. To evaluate the correlation between levels of cytokines (IL-6, IL-8, IL-10) in seminal plasma in different groups of infertile men and correlation with sperm morphology, functions and bacterial infection in semen. D.N. Rao. Funded by ICMR for 3 years (2005–2008). Funds: Rs. 15 lakh.


Ongoing


20. Assessment of beta-2 microglobulin, IL-6 and IL-2R as prognostic factors in Indian patients of multiple myeloma. Alpana Sharma. Funded by AIIMS for 3 years (2006—2009). Funds: Rs. 2.75 lakh.


31. Phase II/III randomized placebo controlled clinical trial of curcumin in resectable Stage III and IV squamous head and neck cancers (oral cancers). Dr. Alok Thakar (PI), Dr. Ranju Ralhan (Co-PI), Funded by under DBT (2006–2010). Funds: Rs. 62.85 lakh.


Departmental Projects

Completed

1. Evaluation of efficacy of curcumin as an adjuvant along with radiotherapy & chemotherapy in advanced cases of cervical carcinoma.
4. Expression of leukocyte Complement Receptor 1, its modulation and significance in the pathophysiology of systemic lupus erythematosus (SLE).
5. Role of eNOS gene polymorphisms in coronary artery disease in the Indian Subjects
6. Signal transduction and modulation of LDL receptor expression in cultured cells.
7. Role of LDL receptor, LDL uptake and thyroxin on HepG2 cell proliferation under serum starvation

Ongoing

1. Effect of Curcumin on advanced human cervical cancer
2. Molecular detection and genotyping of HPV in uterine cervix – A population based study
3. Development of HPV-16 candidate vaccine prototype
4. A study of molecular and biological factors in pathogenesis of ovarian cancer
5. Targeting apoptotic pathways for the treatment of primary epithelial ovarian cancer
6. Paraoxonase and its gene polymorphism in relation to CAD.
7. Elucidation of the expression of complement regulatory proteins in relation to the pathophysiology and severity of SLE.
8. Role of complement receptors in cell signaling and microbicidal properties of macrophages in relation to mycobacterium tuberculosis.
9. Complement Receptor 1 and its gene polymorphism in relation to the pathophysiology and susceptibility to severe malaria
10. Expression and modulation of leukocyte complement receptor 1 and CD59 (protectin) in relation to rheumatoid arthritis
11. Expression of Ang1 and 2 in multiple myeloma
12. A pilot study to evaluate the inter-relationship of insulin, insulin receptor and LDL receptor in patients of Type 1 diabetes mellitus.


14. Role of Leptin in the regulation of LDL- and oxidized LDL- receptors in cultured cells.

15. Modulation of oxidized-LDL-receptor and its effect on pro- and anti-inflammatory cytokines

**Collaborative Research**

**Completed**

1. Culture of limbal stem cells for ocular surface reconstruction in stem cell deficiency disorders, (with R.P Centre, AIIMS).

2. Computational Studies and Structure Based Rational Drug Design for Flaviiral Envelope Proteins” (with School of Bioinformatics, JNU).

3. MRI studies on murine skin tumors (NMR Departmentt., AIIMS)

4. Histopathological investigations on murine skin tumors (Histopathology Dept., AIIMS).

**Ongoing**

1. Elucidation of the role of the hypermethylation in cancer (HIC-1) gene in glial tumorigenesis (with Dept. of Pathology and Neurosurgery, AIIMS).

2. Role of p and 19q loss of heterozygosity in human gliomas (with Dept. of Pathology and Neurosurgery, AIIMS).

3. DNA fingerprinting methods for study of genetic alterations in gliomas (with Dept. of Pathology and Neurosurgery, AIIMS).

4. MRI studies on murine liver tumours (with NMR Departmentt., AIIMS)

5. Proteomic analysis of host parasite interactive proteins of Cryptosporidium”, (with Dept of Microbiology, AIIMS).

6. Characterization of Salmonella Enterica Serotype Typhi strains from north India, (with Dept of Microbiology, AIIMS).

7. Biophysical studies on interactions of membrane proteins of *Acinetobacter baumannii* and its resistant strains with various antibiotics (with Dept. of Microbiology, AIIMS).

8. Role of cobalt chloride induced hypoxia on MA10 cells (Dept of Reproductive Biology, AIIMS).

9. Isolation and analysis of the outer membrane proteins, beta lactamases of Acinatobacter Baumanii (Dept of with Microbiology, AIIMS).

10. Levels of interleukin-1-â in GCF during retention after successful orthodontic treatment (Dept of with Dental Surgery, AIIMS).


12. A prospective study of oxidative stress markers and antioxidant levels in patients with pre-eclampsia (with Dept. of Obstetrics & Gynecology, AIIMS)
13. A pilot study to evaluate the inter-relationship of insulin, insulin receptor and LDL receptor in patients of Type 1 diabetes mellitus (with Endocrinology and Metabolism and Cardiology, AIIMS).


15. T-cell response in Parthenium induced contact dermatitis (with Dermatology and Venereology, AIIMS).

16. Role of T helper cytokines in skin autoimmune disorder Pemphigus vulgaris. (with Dermatology and Venereology, AIIMS).

17. Study of Inflammatory markers as prognostic factors in COPD cases (with Dept. of Medicine).

18. Genetic diversity of *Entamoeba histolytica* isolates and identification of genotype-clinical phenotype correlations. (with Collaborative department: Gastroenterology).

19. Immunohistochemical and Molecular Studies on Wnt/β-catenin Signaling Pathway in Sebaceous Cell Carcinoma of the Eye Lid. Collaborative department: (with Dr. R.P. Centre).


22. To evaluate the endometrial and sub endometrial blood flows in the prediction of pregnancy during In-Vitro Fertilization Treatment. Collaborative department: (Obstetric and Gynecology).

23. The role of insulin and insulin receptor on LDL receptor functioning. (with Endocrinology & Metabolism and Cardiology).

**Publications**

**Journals**


Abstracts


PATIENT CARE

Marker tests for pregnancy and prostate cancer:

- PSA : 282 samples
- hCG : 264 samples

Indian patents have been applied for the following:

1. A novel small interfering RNA (siRNA) targeting the Human Papilloma Virus – 16 enhancer region leading to down regulation of the expression of viral oncogenic mRNA’s E6 and E7 in a human Papilloma Virus – 16 (HPV-16) positive cervical carcinoma cell line, and its novel genomic target.

2. A novel small interfering RNA (siRNA) directed against ME 1a1 binding region in the P2 promoter of proto-oncogene c-myc results in its transcriptional gene silencing.

AWARDS & HONORS

Dr. Subrata Sinha was Awarded ICMR International Fellowship for Senior Biomedical Scientists. He was a Membership of the Guha Research Conference.

Dr. Neeta Singh was appointed as a Executive Committee Member of Indian Association for Cancer Research and Editorial Board member of IACR Newsletter; Secretary (Delhi Chapter) of Indian Association for Cancer Research.

Dr. D.N. Rao was appointed Secretary, Indian Immunology Society; Editor Indian Journal of Biochemistry & Biophysics.

SIGNIFICANT EVENTS:

Dr. Subrata Sinha was selected as a Member of following Committees: Scientific Advisory Committee (SAC) of Rajiv Gandhi Centre of Biotechnology, Thiruvananthapuram; SAC of Institute of Pathology, New Delhi; SAC of School of Medical Sciences, University of Hyderabad; Review Committee for Biology Projects, Indian Statistical Institute (2009); Project Review Committee (PRC), Chronic Diseases, Dept of Biotechnology (DBT) (2005–2007); PRC, Biotechnology Products and Process Development, DBT, (2005 –till date); PRC, Cell and Molecular Biology, ICMR, (2005); Special Committee, Centre for Molecular Medicine, JNU, 2001 till date.; Special Committee, Centre for Biotechnology, 2000 till date, JNU; Member of the Institutional Biosafety Committee and Ethical Committee of the National Institute of Immunology (2000– -till date); Institutional Ethics Committee of the Jawaharlal Nehru University (2001- till date); Academic Committee, JNU-Center for Cellular and Molecular Biology (2006-08); Sectional Committee, Medical Sciences, INSA; Chairman, Committee for Biochemistry Curriculum (UG & PG) , MCI.

Dr. Neeta Singh was selected as a Member of experts committee on evaluating the effect of RFR on human health of ICMR; was a Member of Life Sciences Committee of Women Scientists Scheme of DST; Member of B. B. Dixit Library Committee, AIIMS. He Continues to be member of International Union Against Cancer (UICC), American Association for Cancer Research (AACR), Indian Society of Cell Biologists, Indian Women Scientists Association, Indian Society of Lung Cancer and Indian Society for Free Radicals Research in India. He was also a Member of the Research Advisory Committee and Program Advisory Committee of ICMR; Member of Scientific...

**Dr. D.N. Rao** was selected as Member of Technical Advisory Committee of ICMR; Member of Core Committee for Selection ICMR; ICMR Selection Committee for SRF; Member board of Studies of Biochemistry of Jamia Hamdard University & Aligarh Muslim University; Member of JNU-CCMB Academic Committee; UGC member for Biotechnology Programme in India; DST-Industry project Committee Member; Member of Ethical Committee; Project review Committee of DBT, DST, CSIR and ICMR.

**Dr. Nibhriti Das** was appointed as a Member of the International Complement Society; Professional Member American Heart Association; Member of the Executive Committee of NESA and ISAR.

**Dr. M. R. Rajeswari** was elected as a Member of Project Review Committee (Neurochemistry ) ICMR and CSIR –NET evaluation committee (Life sciences); Member Selection committee at National Accreditation Board for Testing and calibration Laboratories, DST; UGC faculty selection committee meeting, University of Hyderabad (Andhra Pradesh); Nominated member of a number of UGC expert committee meetings held regarding : sanction of Deemed status to of Indian universities and XI plan review of 5 National universities


Ph. D. student (Mr Vishnu Swarup ) received Best Poster award for “Protein Biomarkers for FRDA”, “Neurocon—2009”, in Feb, 2009 at Kolkata.

**Dr. Kalpana Luthra** was selected as Member of cultural program committee of Institute Day Sept 2008; Member of stores Negotiation Committee; Member of Project Advisory Committee of ICMR for Nephrology.

**Dr. Alpana Sharma** was selected as a Member American Association of Cancer Research (AACR); Member Specification committee of Instruments at VMMC and Safdarjung Hospital; Reviewer for Int J Gynecological Cancer, Int J Cancer, Am. J Reprod. Immunol., Ind J Clin. Biochem., Evidence Based Complementary and Alternative Medicine.
9.4 Biomedical Engineering

**Professor and Head**  
Alok R. Ray

**Professors**  
Sneh Anand  
Harpal Singh

**Associate Professor**  
Veena Koul

**Assistant Professor**  
Ashutosh Mishra

**Principal Scientific Officer-I**  
Nivendita K. Gohil

**Senior Design Engineer**  
S.M.K. Rahman

**Scientist**  
J.C. Bhardwaj

**EDUCATION**

The department participates in Ph.D. programme.

**RESEARCH**


**Technology transfer and Patents**

- Sneh Anand, Manoj Soni, S. Maij, A Pneumatic Damper Controlled AK Prosthesis (886/DEL/2009)
- Nivedita K. Gohil, A test Kit and Method for measurement of metals in biological fluids (PCT/IN2009/000696)
Major facilities/ equipment commissioned

Ultracentrifuge, Mammalian tissue lab and Gel permeation chromatography.

PUBLICATIONS


**National and International Conferences/Seminars/Workshops attended by the Faculty.**


**Prof. D. Mohan**

- Present a paper entitled “Seat Belt Law and Road Traffic Injuries in Delhi, India at the 8th Eastern Asia Society for Transportation Studies (EASTS) Conference, Surabaya, Indonesia from November 16-19, 2009.

- To deliver the Golden Jubilee Oration at Guwahati Medical College, on 14/12/2009

- To attend CAN Network workshop and UN Habitat World Urban Forum at Rio de Janeiro, Brazil and to chair the workshop session “Cycling Inclusive Urban Planning: Setting the Scene for Research in CANII’ from March 22-26, 2010.

**Prof. Sneh Anand**


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• Delivered an invited talk at HEPAP’09 in workshop at Thapar University, Patiala, Punjab on October 30, 2009.
• Delivered a talk in conference at PDM, Bahadurgarh on November 12, 2009
• Attended conference at NIT, Jalandhar on January 15, 2010.

Prof. Harpal Singh
• Attended the Indo Russia Joint Workshop and to give invited lecture at Moscow State University, Moscow from August 24-27, 2009.

Prof. Veena Kaul
  Attended an international conference at Jaipur on August 22, 2009.

Dr. J.C. Bhardwaj attended the following workshop/conferences
• Training Course on “Application of Research Techniques in Reproductive Biomedicine” from May 2-5, 2009; at MIET, Meerut (U.P)
• 36 National Conference of “Association of Clinical Biochemist of India” ACBI Con -09, from November 5-7, 2009, at Amrita Institute of Medical Sciences, Kochi, Kerala.
• CPCSEA National Conference-2010, on January 15, 2010, at India Habitat centre, New Delhi organized by Ministry of Environment and Forest, Govt. of India
• “Workshop on Technology in fertility Regulation” from February 3-4, 2010, at AIIMS, New Delhi, jointly organized by of I.I.T. Kharagpur and A.I.I.M.S.
EDUCATION

The faculty of the department participated in and delivered 36 lectures in continuing medical education programmes and symposia, national and international conferences during the year.

CME

National and International Conferences


RESEARCH

Funded Research

Ongoing

1. Structural and functional studies of lactoperoxidase, Dr. Sujata Sharma, Funded by DST(2008-2011) Funds: Rs.19.9 lakhs,

2. Isolation, purification and structural and functional characterization of new proteins from seminal plasma. Dr. Savita Yadav. Funded by DST(2008-2011) Funds: Rs 22.0 lakhs,


4. Biomedical Informatics Centres of ICMR, Dr. Punit Kaur, ICMR (2006-2011) Funds: 35.0 lakhs

5. Structural and functional studies of pepidoglycan recognition proteins, Dr. Punit Kaur. Funded by DST(2006-2011) Funds: 32.5 lakhs,

Completed

1. A Randomized clinical trial on the role of reflexology in the management of diabetic neuropathy, Dr Krishna Dalal, Funded by ICMR (2006 –2009) Funds: Rs 21.00 lacs,
2. Infrastructure Facility for Clinical Proteomics at AIIMS, Dr. A. Srinivasan, Funded by DBT(2004-2009) Funds: Rs. 4.50 Crore,

**Departmental Research**

1. Purification, crystallization and structure determination of prostate specific antigen from human seminal plasma.

2. Three-dimensional structure determination of cobra venom factor and its three independent subunits from the venom of Indian cobra by x-ray diffraction method and its structural and functional relationship with complement protein C3.


4. Determination of efficacy of reflexology in treating patients suffering from diabetic nephropathy with hypertension and evaluating a possible biomarker.

5. Evaluation of reflexology as an adjunctive therapy in children with west syndrome.

6. Evaluation of reflexology as an adjunctive therapy in children aged 3 to 18 years with intractable epilepsy and mutation screening in GPR56 gene in Lennox-Gastaut syndrome patients.


8. Investigation of genetic variation in chi311 and effect on YK40 production in India asthmatic patients.

9. Estimation of the level of cartilage oligomeric matrix protein (COMP) in osteoarthritis and designing of an inhibitor to control the progression of Osteoarthritis.

10. Relationship of ACE coding and promoter region gene polymorphisms with GDM.

11. Purification of the protein from the leaf gel of Aloe vera.

**Collaborative Projects**


2. Identifying proteomic mass fingerprints predictive of disease flares in systemic lupus erythematosus.


5. Proteomic mass fingerprinting of patients with gall stone disease and gall bladder cancer: putative pathogenic links.


**PUBLICATIONS**

**Journals**


**PATIENT CARE**

The following services are provided by the department for patient care:

1. Characterization and analysis of kidney/gall stones using X-ray Diffraction techniques. More than 61 stones have been analyzed by this technique in the current year.
2. Protein N-terminal sequencing.
3. Characterization of biomolecules using MALDI-TOF.
4. Receptor-ligand binding studies - Biocore
5. Peptide synthesis.
6. X-ray Intensity data collection for small molecules.
7. X-ray Intensity data collection for macromolecules.

**AWARDS / HONOURS**

Dr Krishna Dalal has been awarded with the Health Education and Development (HEAD) award by the Health Summit 2010, world congress on drugless therapies. Dr. S. Baskar Singh, was awarded prestigious INSA fellowship (under International Collaboration/Exchange Programme for Indian Scientists) to work with Prof. Reinhard Bredehorst, Department of Biochemistry and Molecular Biology, University of Hamburg, Hamburg, Germany. Ms. Asha Bhushan attended the CCP4 Study Weekend (6th - 8th January 2010), Nottingham, UK, International conference on Neuton scattering’, Grindelwald, Switzerland and Interdisciplinary Science Conference-2009 ‘in Jamia Milia, New Delhi.

**SIGNIFICANT EVENTS**

The department is involved in the Clinical Proteomics programme supported by DBT. The department contributed the largest number of protein structure coordinate sets to the protein data bank (PDB) from Asia-Australia region.

**VISITING SCIENTISTS**

Dr. D. Velmurugan, Chennai, Dr. S. Mande, Hyderabad
9.6 Biostatistics

Professor and Head
R.M. Pandey

Additional Professor
S.N. Dwivedi
(On Extraordinary Long Leave)

Associate Professor
V. Sreenivas

Scientists
R.K. Ahuja
Guresh Kumar
M. Kalaivani

Statisticians
Ombir Singh
Kulwant Singh Kapoor

Statistical Assistants
Bhupender Kumar
Ashish Datt Upadhyay

EDUCATION

The department was actively involved in regular teaching of “Biostatistics and Essentials of Research Methods” for the undergraduate, paramedical and postgraduate courses, viz. MBBS, B.Sc. (Hons) in Medical Technology in Radiology, M. Biotech, B.Sc. & M.Sc. Nursing and MD (Community Medicine). The department organised a series of fourteen evening classes on “Essentials of Biostatistical Methods and Research Methodology” for the new residents, Ph.D. students and other researchers in the Institute. On request, for statistical methods in specific areas of medical research, departmental faculty members delivered series of lectures for the residents, Ph.D. students and faculty members in several departments in the Institute, through out the year. Also, departmental faculty and scientists delivered invited talks outside the institute throughout the country. On request, the faculty and scientists also participated in departmental scientific presentations in most of the departments in the Institute. Besides guiding Ph.D. students in the department, faculty members contributed to the academic activities of other departments in the Institute as Co-Guides for Ph.D. and DC Members of Ph.D. students. Both faculty members and Scientists contributed to the academic activities of most of the departments as co-guides for MD/MS, DM, MCH students.

During the year under report, four persons (three from the Indian Institute of Public Health (IIPH), Hyderabad; and, one from Society for Applied Studies (SAS), New Delhi, underwent three months of short-term hands on training in practical applications of advanced statistical methods used in the field of health research.
Continuing Medical Education

Lectures Delivered

Professor R.M. Pandey

- Invited to conduct a workshop on “Biostatistical Methods and Research Methodology” organized by the South East Asia Region (SEAR) of the International Epidemiological association (IEA), at M.L.B. Medical College, Jhansi, from 1-2 April 2009.

- Invited faculty during the seminar on Clinical trials, at the Indian Institute of Public Health, Hyderabad, from 23-26 April, 2009

- Invited to conduct a Research Methodology workshop for the junior faculty and students at the Guru Nanak Dev University, Amritsar, on 28th May 2009.

- Invited to conduct one day pre-conference workshop on Research methodology and Biostatistics, during the Annual National Conference of Post Graduate students of Dental Sciences, at K.D. Dental College, Mathura, on 24th July 2009.

- As a member of the Data Safety Monitoring Board (DSMB) of the WHO for Drugs for Neglected Diseases Initiative (DNDi) clinical trial of combination drug treatment for visceral leishmaniasis in India, attended the DSMB meeting at the London School of Hygiene and Tropical Medicine, London, from June 29-30 2009.

- Invited to conduct a two days Capacity Building Workshop on Logistic Regression, organized by the Indian Clinical Epidemiology Network (IndiaCLEN), at the Govt Medical College, Thiruvananthapuram, from 2-3 August 2009.


- Invited faculty for the ICMR organized workshop on Research Methodology and Biostatistics for the scientists and young researchers from North Eastern Region, at Govt. Medical College, Guwahati, from 3-5th September 2009.

- Invited faculty for the training workshop organized by the centre for Chronic Diseases and Control and the CDC Atlanta, USA, for the junior faculty from all over the country, held at Hyderabad, from 5-8th October 2009

- Invited as an Expert to attend the following two meetings: (1). McGill World Platform Think Tank on Health and Economic Convergence; and, (2). System Sciences and Childhood Obesity workshop, at McGill University, Montreal, Canada, from 12-19 November 2009.

- Invited to deliver the Annual Guest Lecture at the Department of Biostatistics, Kasturba Medical College, Manipal University, Manipal, on 1st August, 2009.

Dr. V. Sreenivas

- Invited to deliver a talk on Planning, Organizing, Monitoring of Multi-center trials and management of clinical trial data during the workshop on Project writing and Preparation of Scientific Report, 18th March, 2009 at the Central Council For Research in Unani Medicine, Dept. of AYUSH, Ministry of Health & Family Welfare, Janakpuri, New Delhi.
Invited at CEU AIIMS for the following: (1). to act as a facilitator for two group discussions in the workshop on “Evidence Based Medicine”, organized by the Clinical Epidemiology Unit (CEU), AIIMS, from 16-17 March, 2010; (2). to deliver a talk on Criteria for Causation during the workshop on Research Methodology, Clinical Epidemiology Unit, AIIMS, from 25-26, April 2009; and, (3). to deliver a talk on “Causation in Epidemiology”, in the workshop on Designing Clinical Research, organized by the Clinical Epidemiology Unit, AIIMS, New Delhi, from 22-23 January 2010.

Invited to deliver two lectures on Statistical tests to the Faculty, Residents and students, Dept. of Gastroenterology, AIIMS in February 2010.

**Dr. Guresh Kumar**

- Delivered a lecture on “Application of SPSS” in one day pre-conference workshop on Research methodology and Biostatistics, during the Annual National Conference of Post Graduate students of Dental Sciences, at K.D.Dental College, Mathura, on 24th July 2009.

**Ms. M. Kalaivani**

- Delivered a lecture on “Application of statistical methods by SPSS” for the Ph.D. students in nursing, through video conferencing on 20 August 2009 at the Indian Nursing Council, New Delhi.

**National and International Conferences**

**Professor R. M. Pandey**

- Invited speaker for the pre-conference during the International Biometric Conference, held at Kasturba Medical College, Manipal, Karnataka, from 11-13 February 2010.

**Dr. V. Sreenivas**

- Invited speaker on “Clinical trials in the Young Clinicians’ Program of the Indian Society for Gastroenterology, from 29-30 August, Agra.

**RESEARCH**

**Funded Projects**

**Ongoing**

- Newborn Screening for congenital hypothyroidism and congenital adrenal hyperplasia, a multicentric study; Data Coordinating Centre; R.M.Pandey; Funded by: ICMR (2007-2011) Funds: Rs 11.5 lakhs.
- Multicentric Randomized Controlled Trial of Adefovir, Adefovir + Lamivudine and combination of Adefovir and Glycyrrhizin in HBV related decompensated Cirrhosis (Investigator for National coordination: V. Sreenivas. Funding agency: ICMR( 2007-2011) Funds: Rs. 18.0 lakhs
• Hepatitis C – The Indian Face (Investigator for National coordination: V. Sreenivas, funding agency: Bristol Myers Squibb Foundation (2009-2011) Funds: Rs. 12.0 lacs

_Completed_

• A Study on primary, secondary and tertiary delays for prevention and treatment to breast, oral and esophagus cancer patients Funding Agency: ICMR; Funds: One SRF for three years (2007-2010)

• Comparison of multivariate statistical methods of classification: Logistic Regression, classification and Regression Tree, and Artificial neural network (SRF under R.M.Pandey, Funding Agency: ICMR; Funds: one SRF for one year)

_Departmental projects_

_Ongoing_

• Trends, differential and determinants of neonatal, infant and under five mortality in Empowered Action Group States

_Completed_

• A Comparison of Cox proportional Hazards model, Parametric Proportional Hazards model and Accelerated Failure Time models in the survival of Acute Liver Failure.

_Collaborative Projects_

_Ongoing_

Evaluation of Chikunguniya in Children and Adults in India” (Collaborative Department of Pediatrics)  
H1N1 in Indian Scenario (Collaborative Department: Microbiology Department)

A Study of Family Psychopathology in Children with Somatoform Disorder and Development of an Intervention Module (Department of Psychiatry)

Development and Validation of an Instrument to Evaluate Quality of Life in Parkinson’s Disease (Department of Neurology)

Effect of malnutrition and HIV-TB co-infection on pharmacokinetics of anti tuberculosis drugs in children (Department of Paediatrics)

Evaluation of Reflexology as an adjunctive therapy in children with spastic cerebral palsy (Department of Biophysics)

Molecular Epidemiology of extensively drug resistance TB (XDR-TB) and development of a rapid diagnostic technique (Department of Microbiology)

Identification & Evaluation of mycobacterium tuberculosis antigens as biomarkers in clinical samples from tuberculosis patients (Department of Microbiology)

Effect of trans-cranical and spinal cord magnetic stimulation in patients recovering from spinal cord injury (Department of Physiology)
PUBLICATIONS


**Books**


**AWARDS AND HONOURS**

**Dr. R. M. Pandey** INCLEN liaison person to develop joint academic and research activities with the International Epidemiological Association (IEA) under the INCLEN-IEA MOU; Member, Institutional Ethics Committee, Public Health Foundation of India; Member, Group to develop course curriculum for various course at all the five Institutes of Public Health; and Reviewer of the manuscripts submitted to almost all major medical journals in the country.

**Dr. V. Sreenivas** was reviewer for the following medical journals: Indian Journal of Medical Research and Indian Journal of Paediatrics; and Statistical Consultant to the Journal of Indian Association for Child and Adolescent Mental Health (JIACAM).

**Dr. Guresh Kumar** was the reviewer of Indian Journal of Medical & Paediatric Oncology.

**SIGNIFICANT EVENTS**

**Dr. R. M. Pandey** was a Member, Research Committee, All India Institute of Medical Sciences; Member of the several Data Safety Monitoring Board, Task Force, and Proposal/Project Review committees of the DBT, DST, INCLEN and the ICMR; Member, Research Committee, National Institute of Health and Family Welfare; Member, National Nutritional Monitoring Bureau, National Institute of Nutrition, Hyderabad; Member, Scientific Advisory Committee, Centre of Entomological Research, Madurai; Member, Data Safety Monitoring Board of the multi country trial on neglected diseases in India, being conducted by the London School of Hygiene and Tropical Medicine and
Member of the DSMB of UMPIRE drug trial in India and Europe coordinated by University of Cambridge and CCDC, India.

**Dr. V. Sreenivas** continues to be a Member, Expert Group, for the study “Nevirapine Cohort Analysis in Andhra Pradesh and Karnataka, UNICEF, Hyderabad; Member Secretary, Data and Safety Monitoring Board (DSMB) for 3 research projects sponsored by the Department of Biotechnology, Govt. of India; Chairman/ Member of the Screening/ Selection Committee, Indian Council of Medical Research, New Delhi and Advisor to the Journal of Neonatology, India.
# EDUCATION

## Post Graduate Teaching

The department continues with its 2 years post graduate program in Medical Biotechnology leading to M. Biotech degree. The teaching program includes theory and practical classes, seminar presentations and research project (dissertation) on frontier area of medical research. Students are given individual attention and hands on experience in practical classes. The infrastructural facilities were expanded with the acquisition of new computer soft-wares and hard-wares to make available one computer to each student during bioinformatics practical exercise. Experts are invited from JNU, IGIB, ICGEB, NII and NIIT besides AIIMS faculty from various specialties to provide insight to the students in their respective areas of research and developments related to biotechnology, bioinformatics, molecular medicine, genomics, proteomics etc.

The department continues conducting Ph. D program in the area of Medical Biotechnology.

## Short-term Training

The faculty of the department provided summer training to 22 students from various universities like University of Delhi, Maharshi Dayanand University, Rohtak, Kurukshetra University, Kurukshetra and institutions such as Career Institute of Technology & Management, Faridabad, Amity Institute of Technology, Noida, Manipal Institute of Technology, Manipal, Institute of Applied Medicine & Research, Ghaziabad.

## National and International Conferences

### Lectures delivered

**Dr Y.D. Sharma**

- “Molecular epidemiology of drug resistance malaria in India” Invited speaker at National Congress on Parasitology at Punjab University, Chandigarh, 14 November, 2009.
- Participated in vivax malaria meeting held at Bangkok in October, 2009.
- “Molecular markers for drug resistance malaria” Invited speaker at M.D. University, Rohtak, November, 2009.
• “Post-tsunami changes in drug resistance marker genes of falciparum malaria” Invited speaker at National conference held at Bareilly, October, 2009.

• Plenary talk on “Molecular epidemiology of drug resistant malaria” at Behrampur University, Orissa, March, 2010.

Dr. J.S. Tyagi


Workshops attended:
1. EMBO World Practical Course on DNA Microarray: Analysis and Applications at Rajakamangalam, Tamil Nadu, 16th -20th August, 2009.

Dr. H.K. Prasad

• “Polymorphism at the –237position of the IL-12Rb2 promoter region and its functional implication related to susceptibility or resistance to tuberculosis”, 36th Indian Immunology Society Meeting, National Institute of Mental Health and Neurosciences, Bangalore, Karnataka, 16-19, December 2009.

• “Dynamics of tuberculosis immune response”, Guha Research Conference-2009, organized by Indian Institute of Science, Bangalore held at Ullal, Mangalore, Karnataka, 19-23, December 2009.

• “Recent Advances in molecular techniques for diagnosis of tuberculosis”, 6th Annual Conference of Association of Medical Microbiologists - UP Chapter, MICROCON 2010 and CME on Newer Molecular Tools for Diagnosis and Management of Tuberculosis & Other Mycobacterial Diseases, National JALMA Institute for Leprosy & Other Mycobacterial Diseases (ICMR), Taj Ganj, Agra, 13-14, March 2010.

RESEARCH

Funded Projects

Ongoing

Funds: Rs.77 lakhs.


*Completed*

1. Effects of administering 10 mg of zinc orally to young infants aged 7 days and up to 4 months with possible serious bacterial infection on survival and function of peripheral blood mononuclear cells. Co-Principal Investigator: Dr. H.K. Prasad. Funded by DBT (2007-2009) extended for 6 months.
Departmental Projects

Ongoing
1. Innate immunity to *Mycobacterium tuberculosis*.
2. Human immune response to *Mycobacterium tuberculosis*
3. Diagnosis of tuberculosis in humans and cattle
4. Studies on mTOR Signaling in Oral Cancer.
5. Studies on PI 3 Kinase in Oral Cancer.
6. TH-2 Cytokine (IL-4, IL-10) gene polymorphism in Oral Cancer.

Completed
1. Studies on Beclin 1 in Oral Cancer.
2. Genetic polymorphism in COX-2 genes in Oral Cancer patients.
4. Studies to evaluate neo-adjuvant chemotherapy followed by post operative chemotherapy and assess the expression of multi-drug resistance gene and cell cycle specificity in locally advanced gastric and gastro-oesophageal function adenocarcinoma.

Collaborative Projects

Ongoing
2. Comprehensive proteomics profiling of CSF proteins from patients of different meningitis infections for biomarker discovery. Dr. J.S. Tyagi, Funded by DBT (2008-2011) Funds: Rs.64.31 lakhs.
3. Deciphering the transcriptional profile of dormant and replicating tubercle bacilli within THP-1 human macrophages. Dr. J.S. Tyagi, Tata Innovation Fellowship research grant, DBT,( 2009-2012) Funds: Rs.22.20 lakhs.

PUBLICATIONS


AWARDS, HONOURS AND SIGNIFICANT EVENTS

Prof. Y.D. Sharma is a Fellow of all the three National Science Academies. He continue to be Member of Sectional Committee of Indian National Science Academy (INSA); Member, Project Advisory Committee of CSIR for Biotechnology; Member, DBT Task Force Sub-committee on Human Resources Development; Member of Course Curriculum Committee for PG program in Biotechnology of DBT; Member, “Tata Innovation Fellowship and Ramalingaswami Fellowship” Committee of DBT; Member, DBT-JRF examination committee; Research Advisory Committee on Parasite Biology of NIMR, Delhi; Member, Board of Research Studies of NICD-IP University; Academic Committee of Guru Nanak Dev University, Amritsar; Member, Board of Studies of Biotechnology at Jawaharlal Nehru University, New Delhi; UGC-Science Advisory Panel for Centre for Molecular Medicine at JNU, New Delhi; Interdisciplinary Biotechnology Unit at Aligarh Muslim University, Aligarh; Expert Member; Board of PG Studies in Biotechnology of Vanasthali Vidyapeeth; Expert Member, Teaching Advisory Committee of Devi Ahilya University, Indore; Expert Member, Teaching Advisory Committee of Banaras Hindu University, Varanasi; Member, Himachal University, Shimla; Member, Board of Studies, University of Delhi at South Campus, Delhi; Member, Board of Studies, Manipal Sikkim Institute of Medical Sciences, Gangtok; Member, Editorial Board of ‘J. Vect Borne Dis.’; Member, International Reviewer Panel of ‘Medical Science Monitor’; Member, Editorial Board of ‘Biotechnology”; Member, NML Book Selection Committee; Member, Research Committees of AIIMS; Member, Store Purchase Committee of AIIMS; Vice-Chairman of Negotiation Committee of AIIMS; Member, Committee for Continuing Medical Education & Technology at AIIMS; Chairman, Patent Cell of AIIMS; Chairman, Central Recruitment Committee of Research staff in projects in AIIMS; Member, Facility for Nanotechnology at AIIMS; Member, Selection Committee for Scientists for RMRC, Jabalpur; CCS Agriculture University, Hissar; Expert member of Biosafety Committee of Univ. College of Medical Sciences (UCMS), Delhi.

Dr. J. S. Tyagi was awarded the Tata Innovation Fellowship by Department of Biotechnology, Government of India. She is a member of Scientific Advisory Committee, Tuberculosis Research Centre, Chennai; RAP/SAC, National Institute of Immunology, New Delhi; Selection Committee, S.P. Mukherji Fellowship of CSIR, 2009; Selection Committee, NASI-SCOPUS YOUNG SCIENTIST AWARDS 2009; AIIMS Patent Committee, AIIMS Research Committee and Chairperson of AIIMS Institutional Biosafety Committee.

Dr. H.K. Prasad is a Member, Expert Group of the Technical Committee of ICMR; Expert Member, Selection Committee of ICMR; Translational Health Science and Technology Institute (THSTI); Institute of Life Sciences, Bhubaneswar; Member, Medical Biotechnology Sectional Committee (MHD-20), Bureau of Indian Standards; Expert, Panel Inspection for M.Sc. Biotechnology Course, Dr. B.R. Ambedkar University, Agra; Member, Editorial Board of Indian Journal of Leprosy.

Dr. S.N. Das continue to be Fellow, International Academy of Biological Therapy; Member, National Academy of Medical Sciences, India; Life Member, Indian Immunology Society; Member, American Association for Cancer Research, USA; Member, DKFZ Alumni Association, Heidelberg, Germany;
Life Member, The Cytometry Society, India; Member, Task Force Group on Cancer Cervix, DBT, Govt. of India; Member, Terry Fox Run Grant Committee on Cancer Research; Member, Technical Committee, Institute of Pathology (ICMR) New Delhi; Member, Bioethics Committee for Recombinant DNA research, AIIMS; Member, Negotiation Committee, AIIMS; Member, Selection Committee for posts’ - under sponsored projects, AIIMS; Member, Selection Committee for PGT in Biotechnology, Kendriya Vidyalaya Sangathan, New Delhi; PhD Examiner: University of Madras, Dr. Bhimrao Ambedkar University Agra, Devi Ahilya Vishwavidyalaya, Indore; Member, Editorial Board: Open Journal of Toxicology, International Journal of Osteoporosis and Metabolic Disorders; Referee, Cancer Immunology and Immunotherapy, Cancer Letters, Clinical Reviews and Opinion, International Journal of Medicine and Medical Sciences, International Journal of Immunogenetics, International Journal of Human Genetics, Indian Journal of Medical Research, Journal of Cellular and Molecular Medicine, Journal of oral Pathology and Medicine, Oral Oncology, The Anatomical Record.

GUEST LECTURE

1. Dr. Jeff Whitmore, Cell Biosciences CA, USA, topic ‘New insight in Protein function: Unique window into cell signaling process within tiny biological sample.’ (9.3.2010).

OTHER ACTIVITIES

Bioinformatics Centre

The bioinformatics resource centre of the department provides database and bibliographical search facility, DNA and protein sequence, search and retrieval, e-mail, Internet services, training and assistance to students in graphics, statistics and data presentation. This facility is being widely used by students and faculty of this Institute as well as other neighbouring institutes. The department has a 512 kbps leased line from VSNL for internet services.

Liquid Nitrogen Plant

The department’s liquid nitrogen plant supplied liquid nitrogen to users from several departments at AIIMS on request.
9.8 Centre for Community Medicine

**Professor and Head**
C. S. Pandav

**Professors**
Shashi Kant
Sanjeev Gupta

**Additional Professor**
Kiran Goswami

**Associate Professors**
Sanjay K. Rai
Puneet Misra

**Assistant Professor**
Y. S. Kusuma Kumari

Bir Singh *
K. Anand
Baridalyne Nongkynrih

* Dr Bir Singh was away from AIIMS for about 05 months [September 2009 to January 2010] on an assignment with UNICEF India as HIV/AIDS Manager.

**EDUCATION**

**B.Sc Nursing and Post-certificate Nursing Students**
No change.

**Undergraduate**

Rural posting: The duration of the programme remains the same as five weeks in the VII Semester. It is a residential posting and the focus is on learning practical skills for working as a doctor at primary and secondary level of health care. The activities included Orienting Undergraduates to Community Health (OUCH), Health System visits, Epidemiological exercises and Clinical sessions. Teaching techniques like small group studies, case studies, video films, problem based learning are used. The feedback of the students has been very positive.

**Interns**

The programme remains unchanged. The interns are posted for 6 weeks at Ballabgarh hospital and six weeks at either Primary Health Centre, Dayalpur or Chhainsa.

**Postgraduates**

The postgraduates of Community Medicine are posted in the rural areas for 18 months. This gives them adequate time to gain the necessary experience both at referral hospital and at Primary Health Centres. They are encouraged to take active participation in decision making. Their teaching has a higher focus on learning practical aspects of running, PHCs, addressing public health issues, working with district level officials etc.

Ms. Purva Dwivedi and Mr. Ravinder Bisla worked as INDEPTH Fellow at Ballabgarh to support our demographic and data management activities.
Continuing Medical Education:

The Centre for Community Medicine organizes guest lectures, which are of public health relevance and importance. During 2009-10 the department has organized the following guest lectures.

1. Dr. Yogesh Jain from Jan Swasthya Sahayog (People’s Health Support Group) delivered a lecture on “Primary Health Care - A Front Line View” on 27th April, 2009.

2. Dr. Renu Lal from Centre for Disease Control and Prevention (CDC), USA and Dr. Randeep Guleria, Professor of Medicine, All India Institute of Medical Sciences, New Delhi delivered an updated lecture on Influenza: “The novel H1N1” on 29th May, 2009.

3. Dr. J. N. Sahay from National Health Systems Resource Centre (NHSRC) delivered a lecture on “Quality Systems in NRHM” on 17th September, 2009.

4. Dr. Tej Paul Ahluwalia, Scientist-F from Indian Council of Medical Research (Head Quarters), New Delhi delivered a lecture on “Health Systems Research – Operational Research” on 24th September, 2009.

5. Prof. Peter Byass, from Epidemiology and Global Health, Dept. of Public Health and Clinical Medicine, Umea University, Sweden delivered a lecture on “Epidemiology without Borders” on 10th November, 2009.


7. Dr. Raj Kumar, Senior Programme Manager, Global Alliance for Vaccine Initiative (GAVI), Geneva delivered a lecture “An Introduction to GAVI” on 7th January, 2010.


RESEARCH

Funded

Ongoing


2. Expenditure on non-communicable diseases-related risk behaviours among adults in urban and rural India. PI – Dr. Baridalyne N. AIIMS Research Grant. Duration: one-year (2009-2010). Total funds: Rs.84,000.


5. Prevalence of metabolic syndrome and its selected socio-behavioral determinants among females aged more than 20 years residing in a rural area of Haryana (Dr Puneet Misra) Intramural research Grant, AIIMS. (2009-2010). Total funds : Rs 100,000.


Collaborative

Completed


2. Study on prevalence of tuberculosis in District Faridabad. Department of Medicine, AIIMS (2008-2009).

3. Antenatal care: utilization, perceptions and expectations of migrant women in Delhi-a mixed methods study. Dr. Y. S. Kusuma. Funded by All India Institute of Medical Sciences, New Delhi for 2008-10.


Ongoing


6. A study to assess knowledge about newborn danger signs among mothers of infants in rural and urban areas. College of Nursing, AIIMS (2009-2010).

7. Indoor air pollutants and Behaviour Assessment of rural community to reduce health effects (2009-2010). Funded by TERI. Total Funds: Rs 300,000.

**Departmental**

**Ongoing**

1. Association of blindness and hearing impairment with mortality among the elderly in a rural area.

2. Study of selected chronic conditions among elderly in an urban slum of Delhi.


4. Study on oral health problems among elderly in an urban resettlement colony.

5. Prevalence of metabolic syndrome and its selected socio-behavioral determinants among females aged more than 20 years residing in an urban resettlement colony, South Delhi.


7. HIV risk behavior and prevalence of self reported sexually transmitted diseases among men who have sex with men, registered with selected non-governmental organizations in Delhi.

8. Implementing & monitoring healthy settings approach for prevention of Non-Communicable Diseases in Middle schools of rural Ballabgarh (block), District Faridabad, Haryana, India.

9. A study of hygiene behavior and water treatment practices of the residents of the slums in North India in the context of an on-going behavior change intervention.

10. Evaluation of ASHA Scheme under NRHM in Faridabad District of Haryana.

**PUBLICATIONS**


Chapter in Books


Article for public education


Radio and TV programmes on Health

Dr Bir Singh : Radio Programmes conducted: 13

<table>
<thead>
<tr>
<th></th>
<th>Date</th>
<th>Theme</th>
<th>Programme Type</th>
<th>Station</th>
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<tbody>
<tr>
<td>1</td>
<td>06 April, 2009</td>
<td>World Health Day theme</td>
<td>Live Phone-in Programme</td>
<td>All India Radio</td>
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<tr>
<td>2</td>
<td>20 April, 2009</td>
<td>Cancers of Female Genital Tract</td>
<td>Live Phone-in Programme</td>
<td>All India Radio</td>
</tr>
<tr>
<td>3</td>
<td>04 May, 2009</td>
<td>Bronchial Asthma</td>
<td>Live Phone-in Programme</td>
<td>All India Radio</td>
</tr>
<tr>
<td>4</td>
<td>10 June, 2009</td>
<td>Kidney Failure</td>
<td>Live Phone-in Programme</td>
<td>All India Radio</td>
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<tr>
<td>5</td>
<td>24 June, 2009</td>
<td>Diseases of the Thyroid Gland</td>
<td>Live Phone-in Programme</td>
<td>All India Radio</td>
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<tr>
<td>6</td>
<td>15 July, 2009</td>
<td>Dengue, Malaria and Mosquito-borne diseases</td>
<td>Live Phone-in Programme</td>
<td>All India Radio</td>
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<tr>
<td>7</td>
<td>03 August, 2009</td>
<td>Swine Flu</td>
<td>Live Phone-in Programme</td>
<td>All India Radio</td>
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<tr>
<td>8</td>
<td>24 August, 2009</td>
<td>Infertility</td>
<td>Live Phone-in Programme</td>
<td>All India Radio</td>
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<tr>
<td>9</td>
<td>October 2009</td>
<td>Management of Respiratory Infections in Children</td>
<td>Discussion</td>
<td>All India Radio</td>
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<tr>
<td>10</td>
<td>15 February, 2010</td>
<td>Epilepsy &amp; Stroke Programme</td>
<td>Live Phone-in Programme</td>
<td>All India Radio</td>
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<tr>
<td>11</td>
<td>12 March, 2010</td>
<td>Assam Public Health Bill and its Implications</td>
<td>Live Phone-in Programme</td>
<td>All India Radio</td>
</tr>
<tr>
<td>12</td>
<td>15 March, 2010</td>
<td>Adult &amp; Childhood Immunization</td>
<td>Live Phone-in Programme</td>
<td>All India Radio</td>
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<tr>
<td>13</td>
<td>24 March, 2010</td>
<td>Tuberculosis</td>
<td>Live Phone-in Programme</td>
<td>All India Radio</td>
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</table>

Dr. Bir Singh: T.V. Programmes: 36

<table>
<thead>
<tr>
<th></th>
<th>Date</th>
<th>Theme</th>
<th>Channel</th>
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<tbody>
<tr>
<td>1</td>
<td>20-04-2009</td>
<td>Health Problems in Summer season</td>
<td>Doordarshan Channel</td>
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<tr>
<td>2</td>
<td>28 April, 2009</td>
<td>Swine Flu</td>
<td>D.D. News</td>
</tr>
<tr>
<td>3</td>
<td>04 May, 2009</td>
<td>Swine Flu</td>
<td>CNN-IBN</td>
</tr>
<tr>
<td>4</td>
<td>03 May, 2009</td>
<td>Swine Flu</td>
<td>Sahara T.V.</td>
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<td>5</td>
<td>08 June, 2009</td>
<td>Swine Flu</td>
<td>NDTV 24X7 Channel</td>
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<td>6</td>
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<td>CNN-IBN Channel</td>
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<td>7</td>
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<td>Swine Flu</td>
<td>NDTV – India</td>
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<tr>
<td>Date</td>
<td>Topic</td>
<td>Source</td>
<td>Role</td>
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<td>8. 08 June, 2009</td>
<td>Swine Flu</td>
<td>D.D. News</td>
<td>Expert</td>
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<tr>
<td>9. 09 June, 2009</td>
<td>Swine Flu</td>
<td>CNN-IBN</td>
<td>Expert</td>
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<tr>
<td>10. 12 June, 2009</td>
<td>Swine Flu</td>
<td>NDTV India</td>
<td>Expert</td>
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<tr>
<td>12. 04 August, 2009</td>
<td>Swine Flu</td>
<td>CNN-IBN</td>
<td>Expert</td>
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<td>13. 04 August, 2009</td>
<td>Swine Flu</td>
<td>News X</td>
<td>Expert</td>
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<tr>
<td>14. 04 August, 2009</td>
<td>Swine Flu</td>
<td>NDTV India</td>
<td>Expert</td>
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<td>15. 04 August, 2009</td>
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<td>16. 05 August, 2009</td>
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<td>NDTV India</td>
<td>Expert</td>
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<td>17. 07, August, 2009</td>
<td>Swine Flu</td>
<td>Zee News</td>
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<td>18. 07, August, 2009</td>
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<td>ETV</td>
<td>Expert</td>
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<td>20. 09 August, 2009</td>
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<td>CNN-IBN</td>
<td>Expert</td>
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<td>21. 09 August, 2009</td>
<td>Swine Flu</td>
<td>Zee News</td>
<td>Expert</td>
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<td>22. 10 August, 2009</td>
<td>Swine Flu</td>
<td>NDTV India</td>
<td>Expert</td>
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<td>23. 10 August, 2009</td>
<td>Swine Flu</td>
<td>Aaj Tak Channel</td>
<td>Expert</td>
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<td>24. 10 August, 2009</td>
<td>Swine Flu</td>
<td>Headlines Today</td>
<td>Expert</td>
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<tr>
<td>25. 11 August, 2009</td>
<td>Swine Flu</td>
<td>DD News</td>
<td>Expert</td>
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<td>26. 11 August, 2009</td>
<td>Swine Flu</td>
<td>NDTV India</td>
<td>Expert</td>
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<td>27. 11 August, 2009</td>
<td>Swine Flu</td>
<td>Indiatimes Live</td>
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<tr>
<td>28. 12 August, 2009</td>
<td>Swine Flu</td>
<td>CNN-IBN</td>
<td>Expert</td>
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<tr>
<td>29. 12 August, 2009</td>
<td>Swine Flu</td>
<td>News 24</td>
<td>Expert</td>
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<td>30. 14 August, 2009</td>
<td>Swine Flu</td>
<td>Zee News</td>
<td>Expert</td>
</tr>
<tr>
<td>31. 17 August, 2009</td>
<td>Swine Flu</td>
<td>NDTV 24x7</td>
<td>Expert</td>
</tr>
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<td>32. 20 August, 2009</td>
<td>Swine Flu</td>
<td>NDTV 24x7</td>
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<td>33. 22 September, 2009</td>
<td>Swine Flu</td>
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<td>34. 31 January, 2010</td>
<td>Adult &amp; Childhood Immunization</td>
<td>D.D. News</td>
<td>Expert</td>
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<td>36. 28 March, 2010</td>
<td>Tuberculosis</td>
<td>D.D. News</td>
<td>Expert</td>
</tr>
</tbody>
</table>

**Paper presentations in National and International Conferences**

1. Dr. Bir Singh presented a paper “Pre-Marriage Orientation Counselling Course for Happy Married Life” at International Conference on Sex and Relationship Education at Birmingham, U.K. in September, 2009.
2. Presentations made by Ballabgarh HDSS in 9th INDEPTH Annual General and Scientific Meeting


Kapil Yadav, Alka Aggarwal, Vaman Kulkarni Sanjay K. Rai K. Anand. Trends and Causes of under 5 mortality over three decades at Ballabgarh Demographic Surveillance Site, India

Ravinder Bisla Purav Dwivedi, Guresh Kumar, Anand Krishnan. Challenges and Issues in Database management in Ballabgarh HDSS.


Kapil Yadav, Anil Goswami, Aslesh OP, Bir Singh, Chandrakant S Pandav “Involvement of Medical Schools in delivering health care services in Urban Slums: The All India Institute of Medical Sciences (AIIMS) experience from India” in the “International Conference on Urban Health 2009” on 21st Oct. 2009 at Nairobi, Kenya

Lectures Delivered

Dr Bir Singh

- Delivered a Guest Lecture on “Swine Flu” at Lady Shri Ram College, New Delhi (15 September, 2009).
- Delivered a Guest Lecture on “Swine Flu” at Hamdard University, New Delhi [02 February, 2010].
- Delivered a Guest Lecture on “Preventive of Mosquito-borne diseases” for NDMC Health Staff at New Delhi [25 February, 2010].
- Delivered an Invited Lecture on “Dengue Fever” during a workshop for Private Medical Practitioners, organized by the Municipal Corporation of Delhi & the Indian Medical Association [04 March, 2010].

Dr Shashi Kant

- Acted as a resource person for the HIV/AIDS Plenary Session at 37th National Annual Conference of IAPSM and delivered a talk on Dried Blood Spot in HIV sentinel surveillance
- Delivered lecture at Orientation workshop organized by Academic Section of AIIMS for new post graduate student
- Delivered lecture as resource person at Chhatrapati Sahuji Maharaj Medical University (CSSMU), Lucknow, for Capacity building workshop for district level officers of Uttar Pradesh.

Dr K Anand

- Delivered a lecture on Health Systems for the Master of Public Health Program at National Institute of Epidemiology Chennai
- Teleconference teaching for PGDMCH-Health, IGNOU

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Facilitated a workshop on STEPs approach to NCD Surveillance at a meeting organized by Madras Diabetes Research Foundation in Chennai on 20th March 2009.

Delivered a lecture on Economic Considerations in Health Care at the National Institute of Health and Family Welfare, September 2009

Dr Anil Goswami

- Delivered a lecture for “Ahead” a NGO’s field staff on: “Working in the Communities” on 09.06.2009 at Centre for Community Medicine AIIMS.
- Delivered a lecture on “Swine Flu” with Dr. Roopa and Dr. Rahul at Arya Smaj Mandir, Defence Colony, New Delhi (250 Participants).
- Delivered a Lecture on “Prevention of Malaria, Dengue and Chikungunya” at two MCD Schools of Dakshin Puri Extention, Dr. Ambedkar Nagar on 19.09. 2009. (800 Participants)

PATIENT CARE

This has been divided into five broad categories.

1. C.R.H.S. Project Ballabgarh
2. Urban Health Programme
3. National Service Scheme Unit, AIIMS
4. Sex & Marriage Counseling Clinic
5. AIDS Education & Training Cell
6. Health Promotion and Health Communication unit
7. Social Services

1. C.R.H.S. Project, Ballabgarh:
   This has been divided into two broad categories:
   1.1 Referral Hospital, Ballabgarh
      Community Health services
   1.1. Referral Hospital Ballabgarh

A. Outpatient clinic-

138894 patients were provided treatment in various outpatient clinics. 77315 of who were new patients.
### Morning Outpatients clinic

<table>
<thead>
<tr>
<th>Speciality</th>
<th>Frequency</th>
<th>New Male Patients</th>
<th>New Female Patients</th>
<th>Total New Patients</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medicine</td>
<td>Daily</td>
<td>15260</td>
<td>16200</td>
<td>31460</td>
</tr>
<tr>
<td>Gynecology</td>
<td>Daily</td>
<td>-</td>
<td>6831</td>
<td>6831</td>
</tr>
<tr>
<td>Surgery</td>
<td>Daily</td>
<td>1500</td>
<td>833</td>
<td>2333</td>
</tr>
<tr>
<td>Dental surgery</td>
<td>Daily</td>
<td>1451</td>
<td>1100</td>
<td>2551</td>
</tr>
<tr>
<td>Ophthalmology</td>
<td>Daily</td>
<td>1398</td>
<td>1300</td>
<td>2698</td>
</tr>
<tr>
<td>Pediatrics</td>
<td>Daily</td>
<td>13498</td>
<td>9131</td>
<td>22629</td>
</tr>
<tr>
<td>Physical Medicine and Rehabilitation</td>
<td>Twice (Mon/Thu)</td>
<td>2349</td>
<td>2100</td>
<td>4449</td>
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<tr>
<td>Psychiatry</td>
<td>Once (Wed)</td>
<td>224</td>
<td>300</td>
<td>524</td>
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<tr>
<td>ENT</td>
<td>Twice (Wed/Sat)</td>
<td>1840</td>
<td>2000</td>
<td>3840</td>
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<tr>
<td>Total</td>
<td>-</td>
<td>37091</td>
<td>40224</td>
<td>77315</td>
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### Afternoon Outpatient clinics

<table>
<thead>
<tr>
<th>Clinic</th>
<th>Frequency</th>
<th>Number of new cases</th>
<th>Total Visits</th>
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</thead>
<tbody>
<tr>
<td>Antenatal clinic</td>
<td>Thrice (Mon/Wed/Fri)</td>
<td>5368</td>
<td>—</td>
</tr>
<tr>
<td>Non-communicable diseases clinic</td>
<td>Once (Thurs)</td>
<td>375</td>
<td>5463</td>
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### B. Inpatients services:

<table>
<thead>
<tr>
<th></th>
<th>Male</th>
<th>Female</th>
<th>Total</th>
</tr>
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<tbody>
<tr>
<td>The number of beds</td>
<td>24</td>
<td>26</td>
<td>50</td>
</tr>
<tr>
<td>Total admissions including births</td>
<td>2027</td>
<td>4409</td>
<td>6436</td>
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<tr>
<td>Number of Hospital births</td>
<td>788</td>
<td>748</td>
<td>1536</td>
</tr>
<tr>
<td>Bed Occupancy rate</td>
<td>-</td>
<td>-</td>
<td>47.2%</td>
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<tr>
<td>Average duration of stay(in days)</td>
<td>-</td>
<td>-</td>
<td>1.3</td>
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<tr>
<td>Admissions</td>
<td></td>
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<tr>
<td>-via emergency</td>
<td></td>
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<tr>
<td>-via OPD</td>
<td></td>
<td></td>
<td>1273</td>
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<tr>
<td>-newborn</td>
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### Distribution of Inpatients by specialty

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<thead>
<tr>
<th>Specialty</th>
<th>Male</th>
<th>Female</th>
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<tbody>
<tr>
<td>Medicine</td>
<td>657</td>
<td>719</td>
<td>1376</td>
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<tr>
<td>Surgery</td>
<td>120</td>
<td>89</td>
<td>209</td>
</tr>
<tr>
<td>Obstetrics and Gynaecology</td>
<td>-</td>
<td>2409</td>
<td>2409</td>
</tr>
<tr>
<td>Paediatrics</td>
<td>1157</td>
<td>1063</td>
<td>2220</td>
</tr>
<tr>
<td>Ophthalmology</td>
<td>93</td>
<td>129</td>
<td>222</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>2207</td>
<td>4409</td>
<td>6436</td>
</tr>
</tbody>
</table>

### C. Emergency services:

- Number of patients registered: 19998
- Number of medico-legal cases: 3683

### D. Surgical Procedures

Total number of surgical procedures performed (Sex wise)

<table>
<thead>
<tr>
<th></th>
<th>Male</th>
<th>Female</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td>520</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Female</td>
<td></td>
<td>1192</td>
<td>1712</td>
</tr>
</tbody>
</table>

### Surgery performed by Discipline

<table>
<thead>
<tr>
<th>Specialty</th>
<th>Male</th>
<th>Female</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Surgery</td>
<td>193</td>
<td>215</td>
<td>408</td>
</tr>
<tr>
<td>Paediatric Surgery</td>
<td>224</td>
<td>54</td>
<td>278</td>
</tr>
<tr>
<td>Obstetrics and Gynaecology</td>
<td>-</td>
<td>810</td>
<td>810</td>
</tr>
<tr>
<td>Ophthalmology</td>
<td>103</td>
<td>113</td>
<td>216</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>520</td>
<td>1192</td>
<td>1712</td>
</tr>
</tbody>
</table>

### E. Laboratory services

<table>
<thead>
<tr>
<th>Laboratory test</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hematology test</td>
<td>29882</td>
</tr>
<tr>
<td>Biochemistry</td>
<td>25099</td>
</tr>
<tr>
<td>Urine test</td>
<td>14074</td>
</tr>
<tr>
<td>Stool test</td>
<td>158</td>
</tr>
<tr>
<td>CSF analysis</td>
<td>16</td>
</tr>
<tr>
<td>Semen test</td>
<td>55</td>
</tr>
<tr>
<td>Sputum for Acid-fast bacilli</td>
<td>8354</td>
</tr>
<tr>
<td>Peripheral Smear for Malarial parasite</td>
<td>2354</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>79992</td>
</tr>
</tbody>
</table>
F. Counseling Services

Tobacco Cessation Clinic (TCC)

TCC clinic was started on 02/06/2009. Initially, it was run once a day on Tuesday forenoon; later it was expanded to run on Tuesday and Thursday.

Profile of TCC attendees

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sex</td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>63</td>
</tr>
<tr>
<td>Female</td>
<td>5</td>
</tr>
<tr>
<td>Type of tobacco used</td>
<td></td>
</tr>
<tr>
<td>Smokeless</td>
<td>25</td>
</tr>
<tr>
<td>Smoked</td>
<td>36</td>
</tr>
<tr>
<td>Both</td>
<td>7</td>
</tr>
</tbody>
</table>

Four clients quit use of tobacco, while 10 reduced the amount of tobacco consumption.

Integrated Counseling and testing Centre

<table>
<thead>
<tr>
<th>Service</th>
<th>Male</th>
<th>Female</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Counseling</td>
<td>1281</td>
<td>2249</td>
<td>3530</td>
</tr>
<tr>
<td>HIV testing</td>
<td>572</td>
<td>821</td>
<td>1393</td>
</tr>
<tr>
<td>No. of Positives</td>
<td>7</td>
<td>4</td>
<td>11</td>
</tr>
<tr>
<td>Positivity rate</td>
<td>-</td>
<td>-</td>
<td>0.79%</td>
</tr>
</tbody>
</table>

Revised National Tuberculosis Control Programme (RNTCP)

Ballabgarh hospital is a Tuberculosis Unit under the Revised National Tuberculosis Control Programme and has 4 (four) Microscopy Centres under it. Total cases treated at Ballabgarh Hospital in 2009 was 504.

Break-up of cases treated at Ballabgarh Microscopy Centre

<table>
<thead>
<tr>
<th>Category</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category I</td>
<td>280</td>
</tr>
<tr>
<td>Category II</td>
<td>103</td>
</tr>
<tr>
<td>Category III</td>
<td>121</td>
</tr>
<tr>
<td>Total</td>
<td>504</td>
</tr>
</tbody>
</table>
Community Health Services

Intensive Field Practice Area (IFPA)

This comprises of the two Primary Health Centres: Dayalpur & Chhainsa. Outpatient, domiciliary & referral services are being provided.

Provisional Demographic indicators as on 31.12.2009

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Population</td>
<td>87106</td>
</tr>
<tr>
<td>Birth Rate per 1000 population</td>
<td>23.4</td>
</tr>
<tr>
<td>Death Rate per 1000 population</td>
<td>7.1</td>
</tr>
<tr>
<td>Neonatal Mortality Rate per 1000 live births</td>
<td>27</td>
</tr>
<tr>
<td>Infant Mortality Rate per 1000 live births</td>
<td>54</td>
</tr>
<tr>
<td>Maternal Mortality Rate per 100,000 live births</td>
<td>344</td>
</tr>
</tbody>
</table>

Load of OPD patients at various centres in IFPA

<table>
<thead>
<tr>
<th>Name of PHC</th>
<th>New Cases</th>
<th>Repeat visits</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dayalpur</td>
<td>10986</td>
<td>9859</td>
<td>20845</td>
</tr>
<tr>
<td>Chhainsa</td>
<td>9822</td>
<td>8307</td>
<td>18129</td>
</tr>
</tbody>
</table>

Delivery Hut

<table>
<thead>
<tr>
<th>PHC</th>
<th>No. of deliveries conducted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dayalpur</td>
<td>311</td>
</tr>
<tr>
<td>Chhainsa</td>
<td>43</td>
</tr>
</tbody>
</table>

Laboratory Services

<table>
<thead>
<tr>
<th>Laboratory test</th>
<th>PHC, Chhainsa</th>
<th>PHC, Dayalpur</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slide for malaria parasite</td>
<td>4932</td>
<td>5763</td>
</tr>
<tr>
<td>Sputum for Acid-fast bacilli</td>
<td>54</td>
<td>390</td>
</tr>
<tr>
<td>Hemoglobin estimation</td>
<td>1516</td>
<td>1137</td>
</tr>
<tr>
<td>Blood sugar</td>
<td>341</td>
<td>240</td>
</tr>
<tr>
<td>Urine for albumin and sugar</td>
<td>751</td>
<td>640</td>
</tr>
<tr>
<td>Urine pregnancy test</td>
<td>321</td>
<td>68</td>
</tr>
<tr>
<td>Blood grouping and Rh typing</td>
<td>1267</td>
<td>1025</td>
</tr>
</tbody>
</table>
Family Welfare & Maternal Child Health

The Project area is dependent on the District Family Welfare and Immunization office for the supply of vaccines and other items.

(i) Total AN cases (new registration) 2313
(ii) Pregnant women receiving antenatal care 100%
(iii) Complete TT coverage of registered cases 93%
(iv) Deliveries conducted by staff or hospital 1350
(v) Eligible couple protection rate 56%
(vi) Family planning acceptors 1873
   - Tubectomy 337
   - Vasectomy 10
   - Condom 904
   - Intrauterine devices 261
   - Oral contraceptive pills 36

Expanded Programme on Immunization

Coverage of 12 to 23 month of age

<table>
<thead>
<tr>
<th>Vaccine</th>
<th>Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCG</td>
<td>100%</td>
</tr>
<tr>
<td>OPV (3 doses)</td>
<td>99.9%</td>
</tr>
<tr>
<td>DPT (3 doses)</td>
<td>99.9%</td>
</tr>
<tr>
<td>Measles</td>
<td>98.9%</td>
</tr>
</tbody>
</table>

Other Activities

1. Malaria
   Collection of blood slides is done by active and passive surveillance in the IFPA.
   Total number of slides collected 10695
   Total number of positive cases 5

   Indices
   (i) Annual blood examination rate 12.3
   (ii) Annual parasite incidence rate 0.06/1000 population
   (iii) Slide positivity rate 0.06%

2. Tuberculosis
   The Revised National Tuberculosis Control Programme is carried out in the IFPA on the national pattern. Dayalpur PHC has been designated as a Microscopy Centre and caters to all villages under the IFPA. The break-up of patients treated in the total Field Practice Area is as follows:

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>81</td>
</tr>
<tr>
<td>2</td>
<td>24</td>
</tr>
<tr>
<td>3</td>
<td>19</td>
</tr>
<tr>
<td>Total</td>
<td>124</td>
</tr>
</tbody>
</table>
Integrated Disease Surveillance Project (IDSP)

Integrated Disease Surveillance Project is implemented in Primary Health Centre and weekly report is being sent to District hospital. A diarrhea outbreak was reported in Village Jaya in Chhainsa PHC and appropriate control measures were initiated.

Demographic and behavioural surveillance

The census of the villages under both Primary Health Centres was carried out between 1st December 2009 and 31st December 2009. Data were collected for various demographic indicators; focus of this year was migration. Data entry was completed by 20th January and final census report was published by 31st January which was subsequently discussed with stakeholders.

No. of births registered at Primary health Centres: Dayalpur - 503; Chhainsa - 538

No. of births registered at Primary health Centres: Dayalpur - 235; Chhainsa - 208

Special Activities

a. Outreach Maternal and Child Health (MCH) Camps- 41 and 56 Outreach MCH camps were held in Dayalpur and Chhainsa PHC respectively. A comprehensive package of reproductive and child health services including ANC check-ups, laboratory examination, immunization, physical examination of children as well as health education is being provided at these camps. 1016 patients were attended to during these camps in PHC, Chhainsa. 136 high risk pregnancies were screened, referred and followed up during these camps.

b. Gramin Swasthya Samaroh (GSS) – Three GSS were held in PHC, Chhainsa in village Chhainsa, Atali and Fatehpur Billoch. A comprehensive package of health care services including general health check-up, antenatal check up, immunization, screening for non-communicable diseases, laboratory services, health talk, screening of health education movies etc. were provided. Well baby show were also organized during all three GSSs. All antenatal women were given a gift packet containing materials for safe delivery. A total of 421 patients attended GSS.

c. Village Health Day- All the female multipurpose workers along with Anganwadi workers and ASHA conducted Village Health Days as per the planned schedule. These days were utilized for providing antenatal care, adolescent health, immunization and notification of vital events. A total of 280 Village Health Days were held in Dayalpur PHC; while in PHC Chhainsa 288 Village Health Days were held.

d. Village Health Talk- All the nursing students had to deliver health talk on selected topics in various villages as a part of their assessment. The village and the topic was decided by the MO I/C. They were supported by the health workers during the talks. A total of 58 health talks were held in Dayalpur PHC.

I.E.C. Activities under CRHSP (AIIMS), Ballabgarh

1. Exhibition:
   • Total: 16
   • Topics included: Sex discrimination, institutional delivery, tobacco de-addiction, breast feeding, PEM & weaning, antenatal care, anemia, tuberculosis, diarrhea, non communicable diseases, HIV/AIDS and general health topics.
2. Major Health Activities (Health Day Celebrations):
   • World No T.B. Day - 24/03/09
   • World Health Day - 07/04/09
   • Inauguration of “Tobacco cessation Clinic” on 30/05/09 and rally against tobacco use with students of “Navjyoti Public School”.
   • World No Tobacco Day celebration.
   • World Asthma day
   • International Women’s Day
   • Breast feeding awareness week (01/08/09 - 07/08/09)
   • World AIDS Day.
   • IEC activities includes: Health Talk, film shows, poster display, group & individual counseling.

3. Counseling in ward before discharge
   • Time: 2pm to 4pm
   • Individual counseling of mother regarding exclusive breast feeding and Kangaroo mother care.
   • Individual and group counseling regarding new born care, immunization and post natal care.
   • Total counseling: Post natal mother - 1670
     Antenatal mother - 490

4. Planned Group Health Talk:
   • Total: 84
   • Topics: Breast feeding, weaning, antenatal care, high risk factors in pregnancy, institutional delivery, female discrimination, diarrhea & dehydration, pneumonia, scabies, tobacco de-addiction, malaria & dengue, swine flue, immunization, NCD (diet, physical activities & yoga), PIH, HIV/AIDS, care of new born, PEM, eye health, etc.

5. Short Film Shows:
   • Child Welfare Centre - 31
   • General OPD - 133
   • PHC Dayalpur - 10
   • PHC Chhainsa - 07

6. Activities under U.G Programm:
   • FGD & Intervention: 04
   • Topics: NCD (Tobacco de-addiction, diet & physical activities), Nutrition, Tuberculosis, and female discrimination.

Urban Health Programme: The UHP is located at Dakshinpuri Extension Extension [Dr. Ambedkar Nagar] in South Delhi and apart from providing health care to the inhabitants, acts as a training & teacher centre for UGs, PGs Nursing and other students. It has two components:

Mobile Health Clinic
Domiciliary Health Services
a. Total number of Patients seen at Dakshin Puri Extension, Dr. Ambedkar Nagar : 23,712

b. Total number of Referrals : 1247

c. Total number of Health talks given on different health topics at: Dr. Ambedkar Nagar : 110

d. **Immunizations**

<table>
<thead>
<tr>
<th>Vaccine</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>O dose OPV</td>
<td>90</td>
</tr>
<tr>
<td>BCG</td>
<td>208</td>
</tr>
<tr>
<td>DPT I</td>
<td>492</td>
</tr>
<tr>
<td>DPT II</td>
<td>497</td>
</tr>
<tr>
<td>DPT III</td>
<td>495</td>
</tr>
<tr>
<td>DPT B</td>
<td>439</td>
</tr>
<tr>
<td>OPV I</td>
<td>492</td>
</tr>
<tr>
<td>OPV II</td>
<td>497</td>
</tr>
<tr>
<td>OPV III</td>
<td>495</td>
</tr>
<tr>
<td>OPV B</td>
<td>439</td>
</tr>
<tr>
<td>DT I + OPV</td>
<td>86</td>
</tr>
<tr>
<td>DT II + OPV</td>
<td>31</td>
</tr>
<tr>
<td>DT (Booster) + OPV</td>
<td>325</td>
</tr>
<tr>
<td>Measles</td>
<td>494</td>
</tr>
<tr>
<td>M.M.R</td>
<td>571</td>
</tr>
<tr>
<td>TT I (ANC)</td>
<td>205</td>
</tr>
<tr>
<td>TT II (ANC)</td>
<td>160</td>
</tr>
<tr>
<td>TT (Booster)</td>
<td>65</td>
</tr>
<tr>
<td>B TT Others + above 6 years</td>
<td>136</td>
</tr>
<tr>
<td><strong>Hepatitis</strong></td>
<td></td>
</tr>
<tr>
<td>O dose</td>
<td>2</td>
</tr>
<tr>
<td>I dose</td>
<td>542</td>
</tr>
<tr>
<td>II dose</td>
<td>529</td>
</tr>
<tr>
<td>III dose</td>
<td>528</td>
</tr>
<tr>
<td>Typhoid</td>
<td>541</td>
</tr>
</tbody>
</table>

**Vitamin A**

<table>
<thead>
<tr>
<th>Formulation</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>I dose</td>
<td>306</td>
</tr>
</tbody>
</table>

**Folifer**

<table>
<thead>
<tr>
<th>Formulation</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Folifer (Adult)</td>
<td>1740x30</td>
</tr>
<tr>
<td>Folifer (Paediatric)</td>
<td>29x30</td>
</tr>
</tbody>
</table>

**Family Planning Acceptors:**

<table>
<thead>
<tr>
<th>Acceptors</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nirodh</td>
<td>3700</td>
</tr>
</tbody>
</table>

Oral Contraceptive Pills : 66 Cycles
Laboratory Services:
Blood smear for M.P. : 173
Hemoglobin : 984
Urine routine & microscopic examination : 147
Urine Pregnancy Test : 66

National Service Scheme (N.S.S.) Unit, AIIMS
The N.S.S. Unit of AIIMS is located at Centre for Community Medicine. Dr. Bir Singh continued to be its Programme Coordinator and Dr. Anil Goswami & Mrs. Kiran Singh continued to be the Programme Officers of this unit. Despite receiving no grants from the government, the unit continued to be active in the year under review. Dr. Anil Goswami, Ms Neena Chawla & the Field Staff organized these events as part of the Urban Health Programme and NSS activities:

Organization of events / exhibitions

- T.B. posters displayed on notice boards of CCM, AIIMS : 01.04.2009
- An Exhibition on “World No Tobacco Day” was held at Dakshin Puri Extension Dr. Ambedkar Nagar (105 Participants) : 31.05.2009
- Dengue Posters Displayed at Centre for Community Medicine & 20 other prominent places at AIIMS : 05.06.2009
- “World Population Day” was observed in the form of Exhibition & a talk at Dakshin Puri Extension Dr. Ambedkar Nagar (95 Participants) : 10.07.2009
- New Batch of MBBS Students briefed about Centre’s activities : 04.08.2009
- Participated in “Walkathon” on the eve of “International Day for the Older Persons” organized by HelpAge India at Raj Path India Gate (With 3 PGs) : 01.10.2009
- Organized an Mini Exhibition on the “Tobacco and its ill Effects” In front of AIIMS Foyer : 01.10.2009 – 12.10.2009
- A Film Shown to CCM staff on “Institute of Naturopathy & Yogic Sciences Bangalore” : 30.10.2009
• Organised a “Health Camp/ Health Exhibition” at Mobile Crech (NGO) at Dakshin Puri Extension
  Dr. Ambedkar Nagar : 25.11.2009

• Organised a Mini Exhibition on HIV/AIDS at AIIMS : 01.12.2009

• Two “Blood Donation Camp” were organized for HDFC at Kasturba Gandhi Road & Gurgaon with Collaboration of CNC Blood Bank & CNC Blood Bank on 12.12.2008 : 12.12.2009

• Organized & Co-ordinated MIS training programme for the Urban Health Centre staff with Dr. Kapil & Dr. Kiran : 06.03.2010-09.03.2010

• Organised an exhibition on “World Water Day” at Dakshin Puri Ext, Dr. Ambedkar Nagar (125 Participants) : 23.03.2010

• Organised an exhibition on “World T.B. day” at Dakshin Puri Ext, Dr. Ambedkar Nagar (120 Participants) : 26.03.2010

Sex and Marriage Counselling Clinic (SMCC), AIIMS Hospital
(located in Room No. 38 in the main AIIMS Hospital, operates on 3 days a week. Dr. Bir Singh is the Faculty Incharge of this clinic).

New Patients seen : 2669
Old Patients seen : 2128
Total Patients seen : 4697

Investigations:
Hormone Analysis : 631
Blood Sugar : 101
Semen Analysis : 489
C/S, VDRL, HIV : 43
Urine (R/M) : 50
Blood hemoglobin : 51
FNAC : 133
USG Doppler : 283
X-Ray : 02

AIDS Education & Training Cell
Prof. Bir Singh is the coordinator of this Cell and Prof. C.S. Pandav is the Chairperson. Ms. Sosamma Shyam and Ms Manju Sidhu are other functionaries. The following activities were organized by the Cell in 2009-10:

• The telephone helpline on HIV/AIDS, Sex related issues and contraception (“Shubhchintak”) continued to be operated with usual popularity, attracting a good number of calls daily.
• The Internet based helpline “E-shubhchintak” on HIV/AIDS, sex related issues and contraception continued to be operated with usual popularity. On an average, 1-2 requisitions for IEC materials apart from queries on HIV/AIDS, sexual problems, STDs, Contraception etc are received daily.

• The Cell produced and disseminated educational material on HIV/AIDS to general public in 2009-2010 also.

• About 85 NEW patients were given personal counselling on HIV/ AIDS apart from repeat patients.

• Organized a mini-Exhibition on HIV/ AIDS at AIIMS on the World AIDS Day on December 1, 2009.

• Organized a Public Lecture on HIV/ AIDS for BSF Jawans & Officers at BSF Signal Training Centre, Delhi (July, 2009).

Health Promotion and Health Communication ( HPHC ) unit

The “Health Promotion and Health Communication ( HPHC ) unit” carried out the following activities in the field as well as the AIIMS in the year under review.

• Continued its series of the innovative program “Pre-Marriage Orientation & Counselling for Happy Married Life” in 2009-2010 also. Two courses were organized.

• Started a series of regular, monthly lecture discussions on health topics for general public (“HELPs”) at AIIMS. The first HELP was organized on “Hypertension & Heart Attack” [17 April, 2009]; the second one on “Diabetes [21 May, 2009]; the third one on “Stroke” [26 June, 2009]; the fourth one on “Kidney Failure & Kidney Transplant” [31 July, 2009]; the fifth one on “Swine Flu” [13 August, 2009] & the sixth one on “Epilepsy” [19 March, 2010]. These HELPs were well attended by a large audience.

• Continued to provide audio-visual and print support for various health education activities & programmes.

• Fifteen film shows were conducted under various teaching and training programmes.

• Four role-plays were performed in the community on HIV/ AIDS, Alcoholism, Drug-addiction, Family Planning, Polio, Personal Hygiene, Obesity, Mother and Child Health and Gender Bias.
Posters on “Dengue” were displayed at three places i.e. Dengue screening OPD, AIIMS and at CCM & CRHSP Ballabgarh, Faridabad, Haryana.

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Posters Developed / Modified and Designed on</th>
<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Health Education Lecture for People (HELP) Posters</td>
<td>10</td>
</tr>
<tr>
<td>2.</td>
<td>Health Education Lecture for People (HELP) Banners</td>
<td>12</td>
</tr>
<tr>
<td>3.</td>
<td>Field Data Poster</td>
<td>02</td>
</tr>
<tr>
<td>4.</td>
<td>Team work Works</td>
<td>01</td>
</tr>
<tr>
<td>5.</td>
<td>Pre-Marriage Orientation Course for Happy Married Life Posters</td>
<td>02</td>
</tr>
<tr>
<td>6.</td>
<td>Pre-Marriage Orientation Course for Happy Married Life Banners</td>
<td>02</td>
</tr>
<tr>
<td>7.</td>
<td>Week at Glance notice maintained</td>
<td>42</td>
</tr>
<tr>
<td>8.</td>
<td>Guest Lecture Posters</td>
<td>09</td>
</tr>
<tr>
<td>9.</td>
<td>Shall Be Away Posters</td>
<td>12</td>
</tr>
<tr>
<td>10.</td>
<td>Organogram of ACCHA</td>
<td>01</td>
</tr>
<tr>
<td>11.</td>
<td>A Poster on Blood Pressure</td>
<td>01</td>
</tr>
<tr>
<td>12.</td>
<td>Tobacco Rally Posters</td>
<td>06</td>
</tr>
<tr>
<td>13.</td>
<td>CRHSP at a Glance Poster</td>
<td>01</td>
</tr>
<tr>
<td>14.</td>
<td>Immunization Chart for Ballabgarh</td>
<td>01</td>
</tr>
<tr>
<td>15.</td>
<td>A Chart of published articles</td>
<td>01</td>
</tr>
<tr>
<td>16.</td>
<td>Posters on Breast Feeding, Weaning, Diarrhea for Ballabgarh</td>
<td>10</td>
</tr>
<tr>
<td>17.</td>
<td>Swine Flu posters</td>
<td>02</td>
</tr>
<tr>
<td>18.</td>
<td>Road Safety Poster</td>
<td>01</td>
</tr>
<tr>
<td>19.</td>
<td>Designed banners on HIV/ Cards</td>
<td>04</td>
</tr>
<tr>
<td>20.</td>
<td>Designed banner and poster on “Regional Training on Laboratory &amp; Quality Control/ Assurance Procedures for Universal salt Iodization Programme”</td>
<td>02</td>
</tr>
<tr>
<td>21.</td>
<td>Designed Route Map of Old OT Block</td>
<td>01</td>
</tr>
<tr>
<td>22.</td>
<td>Designed Logo on ACCHA, SMCC, AIAMSWP, State Chapter of IAPSM</td>
<td>04</td>
</tr>
<tr>
<td>23.</td>
<td>Designed certificates for “Pre-Marriage Orientation Course for Happy Married Life”, Orientation Training Course on “Health and Human Rights”</td>
<td>02</td>
</tr>
<tr>
<td>24.</td>
<td>Designed banners on Iodized Salt</td>
<td>04</td>
</tr>
<tr>
<td>25.</td>
<td>Designed Poster for Enrollment of NSS volunteers for Commonwealth Games 2010 Programme</td>
<td>01</td>
</tr>
<tr>
<td>26.</td>
<td>Poster on “Save the Girl Child”</td>
<td>01</td>
</tr>
<tr>
<td>27.</td>
<td>Designed a poster for IAPSM Conference Ranchi</td>
<td>01</td>
</tr>
<tr>
<td>28.</td>
<td>Designed a banner for “Health and Human Rights Course”</td>
<td>01</td>
</tr>
<tr>
<td>29.</td>
<td>Designed a banner on ICCIDD</td>
<td>01</td>
</tr>
</tbody>
</table>
Five Film shows were conducted under various teaching and training programmes. Thirty four teaching sessions were projected and forty one sessions were photographed.

Four role-plays by Medical Students and Nine by Nursing Students were performed in the community on Alcoholism, Drug-addiction, Family Planning, Polio, Personal Hygiene, Obesity, Mother and Child Health and Female Infanticide, Accidents, Healthy life style, Gender Bias, Small family norms, Eye Donations and Swine flu.

Social Services

(Dr. Anil Goswami & Mrs. Neena Chawla)

More than 3,600 patients / clients were identified and provided medical social services. This included a variety of services such as counselling, helping them to get medical and financial help and referral to various social welfare institutions/organizations.

AWARDS AND HONOURS

Dr C.S. Pandav

• Elected as President of The Indian Public Health Association of (IPHA) for the year 2010-2012.

Dr Bir Singh

• Elected as the Secretary General of the Indian Association of Preventive and Social Medicine for 2nd term (2010-2013) in a pan-India election.

• Awarded and delivered “Harcharan Singh Oration” during the 37th National Annual Conference of Indian Association of Preventive & Social Medicine at Ranchi. [February 2010].

Dr Shashi Kant

• Awarded WHO Fellowship on “Information, Education and Communication for Health” in Thailand.

SIGNIFICANT EVENTS

Prof. C.S. Pandav

Was Invited as a Member of the Indian Public Health Standards (IPHS) Task Force for Sub-Centres, Primary Health Centres, Community Health Centres, Sub-districts / Sub-divisional Hospitals and District Hospitals; conducted Ph.D. Viva-Voce on 8th May, 2009 at the Indira Gandhi Institute of Development Research, Mumbai; Attended the National Consultative Meet on Nutrition Policy on

Prof Bir Singh

Started a series of innovative, regular, monthly lecture discussions on health topics for general public (“HELPs”) at AIIMS. The first HELP was organized on “Hypertension & Heart Attack” [17 April, 2009]; the second one on “Diabetes [21 May, 2009], the third one on “Stroke” [26 June, 2009], the 4th one on “Renal Failure and Kidney Transplant” [31 July, 2009], the 5th one on “Swine Flu” [August, 2009] and the 6th on “Epilepsy” [18 March, 2010]. These HELPs were well attended by a large audience; Organized the Fourth “Pre-Marriage Counselling Course for Happy Married Life” at AIIMS [27-28 May, 2009] and the fifth “Pre-Marriage Counselling Course for Happy Married Life” at AIIMS [16-17 March, 2010]; Continued to be a Reviewer for the National Medical Journal of India; Participate as an Expert in a meeting of the Council for Scientific & Industrial Research (CSIR) for selection of Senior Research Associates at New Delhi [27 April, 2009]; Participated and chaired a session in “EpiDays-2009” at National Institute of Communicable Diseases, New Delhi [4-5-6 May, 2009]; Invited as a Member of the Indian Public Health Standards (IPHS) Task Force for Sub-Centres, Primary Health Centres, Community Health Centres, Sub-districts / Sub-divisional Hospitals and District
Hospitals: was an Examiner for M.D. Examination at Aligarh Muslim University [11-12 May, 2009]; Was an Examiner for M.D. Examination at Govt. of Medical College, Srinagar [15-16 May, 2009]; Was a Resource Person and delivered a lecture on “HIV-AIDS PPTCT Evaluation” at a UNICEF meeting in Kolkata [17-18 June, 2009]; Participated as an Invitee in the “National Consultation on Public Health Work Force in India” organized by WHO India and Ministry of Health & Family Welfare, Govt. of India at New Delhi [24-25 June, 2009]; Participated as an Invitee Resource Person in the “National Consultation on Ayurvedic approaches to H1 N1 Influenza Pandemic” organized by Deptt of AYUSH, Ministry of Health & Family Welfare, Govt. of India at New Delhi (31 August, 2009); Participated in organization of the AIIMS stall in the World Book Fair at Pragati Maidan, New Delhi [February, 2010]; Participated in the Workshop on “Human Rights and Health” at AIIMS, New Delhi [05 February, 2010]; Has been elected as the Secretary General of Indian Association of Preventive & Social Medicine (IAPSM) for the three years term 2010-2013; Delivered a Guest Lecture on “Preventive of Mosquito-borne diseases” for NDMC Health Staff at New Delhi [25 February, 2010]; Delivered an Invited Lecture on “Dengue Fever” during a workshop for Private Medical Practitioners, organized by the Municipal Corporation of Delhi & the Indian Medical Association [04 March, 2010]; Continued to be a panelist for health related websites “doctorndtv.com”; “healthyindia.org” and “arogya.com” and a columnist for “Jagran Sakhi” – a monthly magazine; continued to be a member of the Scientific Advisory Committee of the Desert Medicine Research Centre (ICMR).

- Institutional Responsibilities at AIIMS
  1. Co-Chairman, Gymkhana Committee
  2. Member, Raj Bhasha Committee
  3. Member, Selection Committees and DPCs
  4. Member of the Research Sub-Committee of AIIMS to select Community Based Research Studies.

- Research related:
  1. Member, Doctoral Committee of Dr. Manish Jain, Reproductive Biology Department of AIIMS.
  2. Co-guide for a Ph.D. student in Deptt. of Biostatistics, AIIMS.
  3. Member of the Research Sub-Committee of AIIMS to select Community Based Research Studies

Prof Shashi Kant

Identified as Nodal Person by National AIDS Control Organization (NACO) to provide supervision of HIV sentinel surveillance in the states of Uttar Pradesh, Uttarakhand, Bihar, Jharkhand, and Delhi; The National AIDS Control Organization, nominated him as member of National Technical Team (NTT) for HIV data Triangulation; I facilitated in the development of protocol for HIV data triangulation in India; Served as member of Institutional Review Board for IndiaCLEN. Acted as cluster head of Strategic Information System segment of Request for Proposal submitted by IndiaCLEN to Centres for Disease Control, Atlanta, USA.; was invited him to serve as expert for selection of faculty.
members at CSSMU.; Acted as Faculty in-charge of Telemedicine facility at AIIMS. On the invitation of Ministry of External Affairs, Government of India. Attended a meeting of Pan-Africa e-network Project, held at Delhi. Facilitated regular Continued Medical Education (six lectures per month) for African countries that were part of Pan-Africa e-network Project.; was invited by Ministry of Health and Family welfare as resource person for expanding telemedicine in India during the remaining period of eleventh five-year plan.; served as member of Ethics sub-committee of All India institute of Medical Sciences and reviewed research proposal submitted to it; Served as member/Chairperson of various Departmental Promotion Committees of AIIMS. Organized a workshop at Delhi for representatives of 21 districts of Uttar Pradesh for Capacity building in HIV data triangulation. Organized a workshop at Delhi for districts level officials of Uttarakhand for Capacity building in HIV data triangulation. Member of the organizing committee of International Workshop on Micronutrients and Child Health, held at Delhi. Also chaired some of the scientific sessions of this workshop. Attended “Training of trainers’ workshop on operations research” that was held in New Delhi. This workshop was organized by Department of Reproductive Health and Research, WHO, Geneva. Presented a scientific paper at 14th International Congress on Infectious diseases’ held at Miami, Florida, USA.

Prof Sanjeev Kumar Gupta

Dr. Sanjeev Kumar Gupta was a co-author of the paper entitled “Work capacity and surgical output for cataract in the National Capital Region of Delhi and neighboring districts of North India” published in the Indian Journal of Public Health, Volume 52, No. 4, year 2008. This paper was adjudged as the best paper for the “R. N. Roy best paper award” (November 2009; member the sub-committee for reconsideration and restructuring of the document, i.e. nomenclature, qualification, pay, etc. for the research staff at the AIIMS; member of the Stores Purchase Committee of the Centre for Dental Education and Research; reviewer for the Indian Journal of Community Medicine; member of the Doctoral Committee in respect of a Ph.D. Thesis in the Department of Community Ophthalmology, Dr. R. P. Centre, AIIMS; member of the Technical Working Group for further strengthening the Institute’s participation in the National Missions of Public Health; member of the committee constituted to discuss the contingency action plan for AIIMS regarding emergency preparedness for the influenza A – H1N1 infection patients; May 2009; member of the Departmental Promotion Committee for the post of Health Assistant at the AIIMS; advised the Union Public Service Commission, New Delhi in making the selection to the post of Public Health Specialist, Grade-II on 9 December 2009.

Dr Kiran Goswami

Member of the Central Coordinating team at INCLEN for studies “socio cultural factors influencing under nutrition in under 5 children in India” and JSY evaluation in Jharkhand; Chairperson of committee to finalise tools for neonatal deaths audit at health facility and community levels constituted by the MOHFW.

Dr. Anand Krishnan

Member of the technical team from Centre for Community Medicine, which was asked to review the evidence on determinants of Healthy and active Ageing, identify best practices for promotion of healthy and active ageing and to prepare the draft Regional Strategy for Health and Active Ageing in South-East Asia; took up assignment as Temporary Adviser and to attend the WHO/SEARO’s SEANET-
NCD meeting Chandigarh; was the external examiner for Post Graduate certificate course in hospital management NIHFW, New Delhi; attended 54th Annual national conference of Indian Public Health Association Vishakapatnam.; attended Influenza Burden of disease workshop and vaccine effectiveness meeting organized by Center for Diseases Control, Atlanta at Bangkok, Thailand ; attended the Annual General Meeting of INDEPTH Network in Pune; attended International symposium on prioritizing chronicity: An agenda for public health research on chronic disease for sub-saharan Africa Kuala Lumpur, Malaysia;

Visited Umea University Sweden to explore collaborative research and academic activities; Was a Member Board of Trustees of INDEPTH Network till October 2009

Member of the Project Review Committee of Indian Council of Medical Research and Media Lab Asia (Dept. of Information Technology).

**Dr Sanjay Rai**

Member of AIIMS Core committee for DOTS therapy in Tuberculosis and attended Revised National Tuberculosis Control Programme – Core Committee Meeting on 5th May 2009 AIIMS; Organized “Post round review meeting of HIV Sentinel surveillance 2009 (Central Zone)” from 17th to 18th July 2009 at New Delhi; Participated in “State Level Meeting on Facilitation of Planning Process under NRHM” held on 21st October 2009 at Panchkula, Haryana; Reviewer for “Health & Population Perspective and Issues”, Indian Journal of Public Health, Indian Journal of Community Medicine etc; Attended 9th INDEPTH Annual General Scientific Meeting (AGM) at Pune from 26th to 29th October 2009; Nominated by Punjab University as a member of the Board of Examiners in community medicine for 2009 -2010 and was external examiner for MBBS examination at Government Medical College & Hospital Chandigarh from 7th to 8th December 2009; Organized Health Mela under NRHM in Jamui & Banka District of Bihar from 29th January 2010 to 2nd February 2010; Conducted several supervisory field visits of Bihar, Jharkhand, Delhi and UP to monitor HIV Sentinel Surveillance of India as a central team member; Nominated by Institute to Supervise All India PG Entrance Examination test at Chennai on 10th January 2010; Organized “Capacity Building Workshop on HIV Data Triangulation for health officials” of Uttar Pradesh and Uttarakhand on 6th to 8th October 2009 and 4th to 6th March 2010 respectively at Delhi; elected “Joint Secretary” (north zone) of Indian Public Health Association for the year 2010 – 2012.

**Dr Puneet Misra**

Member of Program Advisory Council Member, Department of science and Technology; member Telemedicine Committee, AIIMS; Assessment of projects for DST, Govt of India; Best Poster Award at XIth International Health Conference in California, USA; Conference on Traditional Medicine, Bhutan; Examiner at National Institute of Health and Family Welfare for Post Graduate certificate course in hospital management NIHFW, New Delhi; Member Expert committee for HIV Data Triangulation, NACO; Organized Post round meeting for HIV Sentinel Surveillance; MBBS examiner Gorakhpur; Teaching MPH students from National Institute of Epidemiology; signed a memorandum with Imperial College London for BOLD study in Feb 2010, Working on Burden of Obstructive Lung Disease, BOLD with Imperial College, London

Organized Capacity building for HIV Data triangulation for Uttrakhand and UP; Working with TERI on indoor air pollution and heath. Attended DST, Govt of India, meeting as an expert panelist for
data release on Nutrition April 5, 2009. Attended XIth International Health Conference in California, USA, Conference jointly organized by UC Berkeley, UC Davis, UC San Francisco, Stanford University and Touro University; Conference on Traditional Medicine, Bhutan; Attended 54th Annual national conference of Indian Public Health Association Vishakapatnam; Attended International Conference of Medical Negligence and Litigation in Medical Practice from 24th to 26th January 2010 at Kodiakanal.

**Dr Baridalyne Nongkynrih**

Attended a meeting of Subgroup on IPHS proposal on urban health in MOHFW, Nirman Bhawan in April 2009; Training course in “Human rights and Health” in NIHFW in August 200; attended Expert Group meeting on management of PSM/Community Medicine for Undergraduate medical education. WHO/SEARO; Attended the 37th Annual National Conference of Indian Association of Preventive & Social Medicine (IAPSM) held at RIMS, Ranchi, Jharkhand from 22-24 February, 2010; Attended South East Asia Regional Conference on Epidemiology in New Delhi in March 2010; continues to be Joint Secretary of Indian Association of Preventive and Social Medicine for the 2nd term; Reviewer for the Indian Journal of Community Medicine.

**Dr. Anil Goswami**

Participated in One day “Expert Group Consultation Meeting on Enhancing Quality of Life of Senior Citizens : Review of Programme and Action Strategies” in Collaboration with DWARF & International Network for Prevention of Elder Abuse, National institute of Social Defence and Ministry of Social Justice and Empowerment at India International Centre Annexes, Lodhi Road, New Delhi. Attended a NSS meeting in Shashtri Bhawan with Director Youth Affairs & Advisor, National Service Scheme (NSS) on the “Involvement of NSS Volunteers in the Commonwealth Games 2010” to be held at New Delhi. Attended a Training Course on “Health and Human Rights” organized by National Institute of Health and Family Welfare, Munirka, New Delhi w.e.f. 24th to 28th August 2009. Participated in a “Multipartnership Meeting” Organized by Economic & Commercial Office of the Embassy of Spain and Spanish Institute for Foreign Trade (ICEX) on “Public Private Partnership (PPPs) progress in Spanish Health Care Sector” on 25.09.2009. Organized a National Human Rights Commission sponsored training course on “Health & Human Rights” at All India Institute of Medical Sciences on 05th & 06th February 2010; Attended “54th National Conference of Indian Public Health Association” 22nd - 24th January 2010 at Andhra Medical College, Vishakhapatnam, A.P.; Attended “37th Annual National Conference of “Indian Association of Preventive & Social Medicine” 22nd – 24th February, 2010 at Rajindra Institute of Medical Sciences, Ranchi, Jharkhand.; Week at Glance (a day to day activity plan of the centre) was maintained mentioning all important teaching & training activities of the centre during 2009-2010; Continued to be the Treasurer of Indian Association of Preventive and Social Medicine during for a second consecutive term.
EDUCATION

Three candidates completed MD Dermatology and Venereology training, one candidate from Sri Lanka underwent long term training (6 months) and six candidates took short term training from 2-4 weeks from different countries like Afghanistan, Qurayat, USA, Sweden and Canada

NATIONAL AND INTERNATIONAL CONFERENCES

Lecture delivered

Dr. V.K. Sharma

1. “Patch testing”: Common sensitisers in New Delhi; A study of 620 Patients’ at American Society of Contact Dermatitis March 4, 2010, Miami, Florida USA

2. Attended Editorial Board Meeting of Journal “Dermatitis” on March 5, 2010, Miami, Florida, USA

3. Chaired session “Dermatology in India” and present paper entitled “Prevalence of sexually transmitted infections in India” European Academy of Dermatology & Venereology at ICC-Berlin Germany on October 7-11, 2009


8. Attended 2nd DERMAZONE (North) of IADVL & 35th Annual Conference of IADVL (Punjab-Chandigarh) for “Chairing a Session and inauguration as President IADVL” on October 30 & 1st November, 2009

9. Attending VII Annual Conference of Indian Society for Pediatric Dermatology at Chennai on November 7-8, 2009


11. Inaugurated as Chief Guest 1st Annual State Conference of IADVL (Jharkhand Chapter) at Ranchi on December 19-20, 2009 and deliver lecture on “Plant Dermatitis”

12. Attended (DERMACON-2010) 38th National Conference of IADVL officiating as President, IADVL on January 7-10, 2010 and panel discussion on “Contact Dermatitis”.

Dr. M Ramam


Dr. Binod Khaitan


4. Chaired the session “Treatment of Vitiligo” in 3rd Asian Society for Pigment cell Research held on 11-13 June 2009 at Seoul, South Korea.

5. “OMP in vitiligo” in the International Conference organized by South African Society for Dermatological Surgery (SASDS) and Vitiligo Society o of South Africa held on 7-9 August 2009 at Franschoek, South Africa.

6. Conducted the workshop as guest faculty on “Punch grafting and suction blister for vitiligo surgery” in the International Conference organized by South African Society for Dermatological Surgery (SASDS) and Vitiligo Society of South Africa held on 7-9 August 2009 at Franschoek, South Africa.

8. Chaired the session “Innovations in Dermatosurgery” in IADVL-DSB & ACSI CME held on 14th March, 2010 at Safdarjung Hospital at New Delhi.


10. On course faculty in CME at 38th National Conference of Indian Association of Dermatologists Venereologists & Leprologists (Dermacon-2010) held on 7th January, 2010 at Lucknow.


Dr. Sujay Khandpur


4. “Systemic involvement in Leprosy” at 27th Biennial Conference of Indian Association of Leprologists.

5. ‘Immunosuppressive therapy –Friend or Enemy” at 38th National Conference of Indian Association of Dermatologists, Venereologists and leprologists, Lucknow, January 7-10, 2010.

Dr. G Sethuraman


Dr. Somesh Gupta


2. ‘Management of Genital HPV infection’ in 16th International Union against Sexually Transmitted Infections (IUSTI) Asia-Pacific Congress at Bali, Indonesia, 4-6 May, 2010.

3. “Sexually Transmitted Diseases (STDs) – Epidemic of the Era” Conference held in Mukalla, Yemen, on 1st – 4th February 2010.
4. “Health related Quality of Life in Indian patients with three viral STIs HIV, HSV and HPV” at IUSTI World Congress, Cape Town, 9-12 Nov. 2009

PUBLICATIONS


BOOKS


2. Sharma VK. Editor in Chief Guidelines for Vitiligo, Stevens-Johnsons Syndrome & Toxic Epidermal Necrolysis and Psoriasis (IADV&L), 2009


Research

Funded Project

Dr. Vinod K Sharma

1. Evaluation of cyclophosphamide pulse therapy as adjuvant in the management of pemphigus
   Funding agency, ICMR
   Duration and year Three years
   Funding Agency ICMR
   Duration 2007-2010, Amount 6.5 lacs

2. To Study Genetic and Immunological Immunological Associations and Examine Melanocyte Keratinocyte Network in Vitiligo
   Duration and year Three years
   Funding agency DBT
   Duration 2008-2010, Amount 21 lacs

Departmental Research projects

1. Clinical profile of photodermatoses at AIIMS
2. Evaluation of cyclophosphamide pulse in treatment of pemphigus
3. Desmoglein 1 and 3 antibodies in pemphigus and correlation with activity of disease
6. To study of effectiveness of 15 mg weekly methotrexate in inducing remission in chronic idiopathic urticaria resistant to antihistamines.
7. Comparative efficacy of 40 mg betamethasone monthly and equivalent doses of biweekly pulse in treatment of alopecia areata

Dr. KK Verma

Title of project: Randomized clinical trial of azathioprine weekly pulse versus daily azathioprine for treatment of Parthenium dermatitis.

II. Duration and years: 4 years
III. Amount of Funding: 18.24 lacs
IV. Funding agency: ICMR

Departmental Projects

Evaluation of effectiveness and safety of oral acyclovir 1g twice a day versus 1g once a day for 5 days in genital herpes.

Evaluation of effectiveness of weekly azathioprine pulse therapy for chronic plaque psoriasis.
Dr. Binod Khaitan

1. Dexamethasone – cyclophosphamide pulse therapy in pemphigus.
2. A study to characterize segmental vitiligo.
3. A descriptive study to define the specific clinical features of segmental vitiligo as compared to non-segmental vitiligo and to study the prevalence of co-existent organ specific (TPO) and non-organ specific (ANA) autoimmunity in these patients.
4. A study of knowledge and attitude towards leprosy in people with and without leprosy and measurement of dehabilitation in leprosy patients.

Dr. Sujay Khandpur

1. Comparison of efficacy of PUVA versus PUVA sol in vitiligo
2. Comparison of topical PUVA sol versus steroid-coal tar combination in palmoplantar psoriasis
3. Histological evaluation of palmoplantar psoriasis
5. Utility of ELISA testing in establishing the activity of pemphigus vulgaris.

Dr. G Sethuraman

Funded Projects (Ongoing)

1) Vasculitis: A clinicopathological and Etiological correlation
   Duration: 3 years; Funding agency: AIIMS, Amount Rs 1 lakh.

Departmental projects

1) Prevalence of Vitamin D Deficiency in patients with congenital ichthyosis and erythroderma
   Clinicopathological study of Epidermal Nevi

Dr Somesh Gupta

1. Title of project: A comparative study of effectiveness of Immunotherapy with intralesional injection of killed Mycobacterium w Vaccine and imiquimod cream in clinical resolution of External Anogenital Warts and reduction of viral load: A randomized trial.
   Duration and years: Three Years- 2008-2011
   Amount of Funding: 38 lacs
   Funding agency: Department of Biotechnology, Govt. of India

2. Title of project: “Comparison of Hair Follicle Stem Cells to Melanocytes and Keratinocytes from Grey and Pigmented Hair Follicle”
   Duration and years: Two Years- 2010-2012
   Amount of Funding: 9 lacs
Funding agency: Indian Association of Dermatologists, Venereologists and Leprologists (IADVL)

3. Title of project: Comparison of efficacy of transplantation of basal cell layer enriched epidermal suspension in patients with stable vitiligo vulgaris and segmental vitiligo.

Duration and years: 3

Amount of Funding: 100,000/- per year, extendable till 3 years

Funding agency: AIIMS

AWARDS/HONOURS/SIGNIFICANT EVENTS

Dr. Vinod K Sharma

1. Expert member on Selection Committee to conduct interview for the post of Assistant Professor in the Shyam Shah Medical College & G.M. Hospital & S.S. Medical College Society, Rewa (M.P.) on June 11, 2009.

2. Expert member 8th meeting of Monitoring Committee of NMITLI Project on “Clinical Studies of an Oral Herbal Formulation for treatment of Psoriasis-Phase-IIb & Phase III Clinical Trials” by CSIR on September 1, 2009 at CSIR Headquarters, Anusandhan Bhavan, Rafi Marg, New Delhi.

3. Conducted MCI Inspection of the Physical and the other teaching facilities available at Vydehi Institute of Medical Institute of Medical Science & Research Centre Centre, Bangalore on September 22, 2009.

4. Conducted MD Dermatology examination JIPMER, Puducherry on March 29, 2010

5. Awarded fellowship of International Medical Sciences Academy and International Medical Sciences Academy September 22, 2009.

6. Awarded Sukumar Ghosh Memorial Oration to deliver lecture “Derma-Allergology” at Institute of Allergic and Immunologic Skin Diseases at Calcutta on Oct. 21, 2009 on “Plant Dermatitis”

7. National President, Indian Association of Dermatologists, Venereologists & Leprologists In the year 2009

8. Editorial Board Journal of European Society of Contact Dermatitis named “Contact Dermatitis”.


Dr KK Verma

• On deputation as advisor, Govt. of India, BPKIHS, Nepal, March 2008-Nov 2009.
• President CODFI 2008-10.
• Vice-President Pemphigus and Pulse Therapy foundation of India 2007-09.
• Hon. Secretary- IUSTI Asia Pacific 2008-10.
Dr. M Ramam

1. Dr Senthamil Selvi Award 2010 for best paper in mycology.

Dr. Binod Khaitan

1. On course faculty and member, organizing committee of 5th International CME on Dermatopathology held on 6-8 November, 2009.

Dr. Sujay Khandpur

1. Dr. LN Sinha Memorial Award 2009 by IADVL for overall contribution to the field of Dermatology in India
2. International Society of Dermatology Scholarship to attend International Congress of Dermatology 2009, Prague, Czech Republic
3. Assistant Editor, Indian Journal of Dermatology, Venereology and Leprology
4. Deputy Editor, Indian Journal of Cutaneous and Aesthetic surgery
5. Treasurer, Dermatopathology Society of India
6. Member Dermato-Therapeutic and Dermatosurgery Guidelines Committee of IADVL
7. International Fellow American Academy of Dermatology
9. Joint Secretary, IADVL (Delhi State Branch).

Dr. G Sethuraman

1. Scientific committee member of the Asian Global Dermatology Symposium. IX International Congress of Pediatric Dermatology, Prague, Czech Republic, May 2009
2. Reviewer in Archives of Dermatology, JEADV, Indian J Pediatrics

Dr. Somesh Gupta

1. Membership Secretary of International Union against Sexually transmitted Infections (IUSTI)-World
2. Co-Chair of 12th International Union against Sexually transmitted Infections (IUSTI) World Congress to be held in New Delhi from 2-5 Nov. 2011.
3. Associate Editor of Sexual Health, an official journal of IUSTI-Asia-Pacific (Published from Australia, indexed in Medline/PubMed)
4. Associate Editor of Journal of Cutaneous and Aesthetic Surgery
5. Nominated as Chair of Spring Meeting of International Society for Dermatologic Surgery, to be held in New Delhi in March 2012.
EDUCATION

Undergraduate, Postgraduate, Paramedical Training

Dept. was actively involved in regular undergraduate and nursing students while Postgraduate students from MD Internal Medicine comes for one month posting in the department of endocrinology & metabolism

Long & Short term Training

- Two candidates completed their DM and Three new candidates joined the department for DM course.
- Two student joined PhD (Endocrinology).
- Six students joined the Dept. for short term training of six months training.

National and International Conferences

Lectures Delivered

Dr. N. Tandon

Lecture on “Diabetes Epidemiology and Management” for Medical Officers training program at Public Health Foundation of India at Delhi on 8th April 2009.

Public Lecture on ‘Diabetes’ at AIIMS on 5th May 2009.

“Osteoporosis-when, how and how long to treat” at JLN Auditorium, AIIMS on 9th August 2009.

“Hypovitaminosis – an Indian Experience” at the Bangalore International Conference of Endocrinology on 29th August 2009 at Bangalore.

“ADA/EASD glycemic guidelines in the Indian Perspective” at the A.P.I. Noida Chapter, Delhi On 30th August 2009.
“Body composition and bone session” at the 6th Indo-Australian Biotechnology Conference, which is being co-hosted by National Institute of Nutrition, Hyderabad and KEM Hospital, Pune at Hyderabad on 2nd Sept. 2009.

“Childhood growth and adult diseases covering Delhi Cohort” at the 6th Indo-Australian Biotechnology Conference, which is being co-hosted by National Institute of Nutrition, Hyderabad and KEM Hospital, Pune at Hyderabad on 4th Sept. 2009.

“Early life origin of the dymetabolic state” at the International Conference organized by the Institute of Life Sciences, Hyderabad (University of Hyderabad Campus) on “Type 2 Diabetes – from Molecular Insights to Therapeutic Interventions” between 18th – 20th September 2009.


‘Self management and embedding diabetes care in communities’ – in Expert consultation on Chronic Disease and Management in India on 27th Oct. 2009 at Delhi.

“Early Life Influence on adult non-communicable diseases” Dr. B.N. Sengupta Oration of 16th Annual Conference of API, West Bengal Branch on 1st Nov. 2009 at Kolkata.

‘Burden of Diabetes in India” in the MRC/ICMR workshop on chronic Disease’ on 4th Nov. 2009 at Delhi.

“ICMR Young Diabetes Registry – Current Status” at the Annual Conference of the Research Society for the Study of Diabetes in India (RSSDI) at Ahmedabad on 6th Nov. 2009.

‘Vitamin D in Pregnancy, lactation, infancy and childhood.- Indian Perspective’ at the Indo-US Conference on Latest Scientific Developments in Vitamin D and Health, on 14 Nov. 2009 at Hyderabad.

‘Micro biota and Obesity’ in a Conference on Probiotics at Delhi on 22nd Nov. 2009.


‘Immune mediated thyroid disease’ at the Annual Conference of the Association of Physician of India at Jaipur on 7th Jan. 2010

‘Medical management of Osteoporosis’ in the Annual Conference of the Delhi Orthopedic Association on 9th Jan. 2010 at AIIMS.

“Diabetes” at the Annual Medical Seminar cum CME on 11th Jan. 2010 at Conf. Hall, FHQ BSF, Block No. 10, CGO Complex, Lodhi Road, New Delhi.

“Epidemiology of Adolescent Obesity in India” at the Workshop on “Adolescent Obesity and type 2 Diabetes” organized by Indian Council of Medical Research (ICMR) on 10th – 11th Feb. 2010 at Hyderabad.
Talk on “Nutrition, Chronic Disease and obesity: Can the industry respond to scientific knowledge and public health needs?” in a workshop and panel discussion organized by Public Health Foundation of India on 5th Feb. 2010 at Delhi.

Talk on ‘Vitamin D deficiency in India’ in a Conference on Protective Micronutrients organized by Deptt. of Biotechnology, AIIMS on 24th Feb. 2010.

Talk on “Emerging public health challenges from Diabetes and other life style diseases” in a meeting on Health Literacy organized by the Public Health Foundation of India on 18th March 2010 at Delhi.

Dr R. Goswami

Vitamin D deficiency and its significance in India” in the Endocrinology Update at the 12 Annual Conference of Allahabad Medical Association and state conference of Academy of Medical Specialties on 3rd and 4th October 2009.

Vitamin D beyond Bones: Indian Pediatric Nephrology Annual Conference held at Indian Habitat Center, Delhi on 7th December 2009

Paradox of vitamin D deficiency in Sunny India and its significance and remedial measures: 79th Annual Session of the National Academy of Sciences, Allahabad, India be held at Kolkata from December 14th to 16th 2009 Vitamin D deficiency and hypocalcaemic disorders.

Hypocalcemic disorders in India- a state of the art update” at the Indian College of Physicians CME during APICON-2010 at Jaipur Rajasthan held on 7th January 2010

Dr V. Jyotsna

Guest Lecture in Indian Thyroid Society conference Feb-15 on “Myxoedema coma when to suspect and optimal management.

Paper presented at Indian Thyroid Society Conference Annual Conference 2010, Varanasi

RESEARCH

Projects funded

Dr. A. C. Ammini

b-cell dysfunction versus insulin resistance in polycystic ovary syndrome in Indian women. ICMR funding (2008-2011). Funds Rs 14,000


Dr N. Tandon

To establish a Center of excellence for prevention and control of Cardio-metabolic diseases in South Asians-basic, applied research and training (NIH) (Jointly held by PHFI, AIIMS and MDRF. (2009-2014). Overall funds US$109.407.
The application submitted by our network was one of 10 to be selected globally to plan, create and execute chronic disease related activities, including surveillance, training and a translation trial to evaluate diabetes care. Role: PI of a Network partner institution.

“Identifying variants causal for type 2 diabetes in major human populations; NIDDK GRANT NUMBER [UOIK085545]. This grant funded by the National Institute of Diabetes, Digestive and Kidney Diseases, National Institutes of Health, USA. 2009-2014 PI, US$40,500

Prevention of type 2 diabetes in women with gestational diabetes in India—a feasibility study (International Diabetes Federation, IDF, US$65,000)

Diabetes mellitus- New drug discovery R & D, molecular mechanisms and genetic & epidemiological factors. Funded as a Task Force project by the Council for Scientific and Industrial Research, Government of India (2008-2013). This project aims to identify disease associated genes in Indian patients with type 2 diabetes and its complications. Rs 15 crores

Genomic analysis of HLA and non-HLA genes in Type 1 diabetes in Indian population. Funded by the Indian Council of Medical Research, Government of India (2007-2009). The aim of this study is to evaluate the immunogenetic association of type 1 diabetes in India, and extends upon our earlier work showing significant variation in disease associated haplotypes at HLA and non-HLA loci compared with other Caucasian populations. Rs 27 lakhs.

Registry of people with diabetes in India with young age at onset. Funded by the Indian Council of Medical Research, Government of India (2006-2011). This study has been planned to study the natural history and clinical profile of patients with type 1 diabetes in India. Rs 35 lakhs

Type 1 diabetes genetics consortium (T1DGC)— an international effort. Funded by the NIH and Juvenile Diabetes Research Foundation (2006-2009). The T1DGC is an international effort to study disease associated genes (HLA and non-HLA locus) in patients with type 1 diabetes belonging to different ethnic groups. Funds US$ 75,000

To redefine T3, T4 and TSH referral range in disease free pediatrics population after iodization programme in India; funded by INMAS, Defence Research and Development Organisation, Government of India (2004-2009). This is an epidemiological study which aims to establish referral ranges of thyroid hormone levels in children in the post salt iodization state. Rs 4, Crores.

Dr R. Goswami

Pattern and significance of single nucleotide polymorphism at select sites in two important candidate genes i.e. Vitamin D receptor and parathormone genes in subjects with osteoporosis. Funding agency: DRDO, New Delhi, Ministry of Defence. Duration: Three years funding: 9.75 lakhs.

Role of oral vitamin D as an adjunct therapy in Category I Pulmonary Tuberculosis long with assessment of immunological parameters”: Randomized double Blind Trial funding agency: Department of Biotechnology, Govt of India, Duration: three years funding 98 lakhs.

Prevalence and significance of celiac disease in patients with type-1 diabetes Funding agency: ICMR, New Delhi, Duration: Three years funding: 19.7 lakhs.
Dr. V. Jyotsna

Effect of glycemic control, depression and quality of life in patients of diabetes mellitus with rhythmic breathing (sudashan kriya yoga and pranayam) in addition to standard treatment of diabetes. ICMR for three years, Funds: 2009-2010 is Rs. 9,80,099 lakhs.

PUBLICATIONS


HONOURS AND AWARDS

Dr. A. C. Ammini
1. Member General Council of International Endocrine Society
4. Member of National Assessment and Accreditation Council of UGC.

Dr N. Tandon
1. Member of the Technical screening committee SIBIRI, DBT
2. Member of the Technical screening committee BIPT, DBT
3. Member of the Task for Chronic disease biology of the DBT
4. Member of the Task for Bioengineering, DBT
5. Delivered Dr BR Sen Gupta Oration of the API West Bengal Chapter of API.

Dr R. Goswami
1. Member of the committee for selection for the Senior Research Fellow and Research Associates by the ICMR from 2007 to date
2. Member of the selection committee for awarding MD, DM and MCh thesis financial grant by The Indian Council of Medical Research 2009 to date.
3. Member of the expert group for the selection of ‘Ramalingaswamy Fellowship’ and ‘Tata Innovation Award’ by the DBT India for the year 2009.
4. Member of the Task For Chronic disease biology of the DBT 2007 to date

Dr Viveka Jyotsna
1 Bone health in Graves’: A two year follow up study: Received the Best Paper Award at the Indian Thyroid Society Conference Annual, 2010, Varanasi
ANNUAL PATIENT CARE

April 2008 to March 2009

Endocrine OPD

<table>
<thead>
<tr>
<th>Month</th>
<th>New Cases</th>
<th>Old cases</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>April 2009</td>
<td>709</td>
<td>1348</td>
<td>2057</td>
</tr>
<tr>
<td>May 2009</td>
<td>811</td>
<td>1365</td>
<td>2176</td>
</tr>
<tr>
<td>June 2009</td>
<td>769</td>
<td>1295</td>
<td>2064</td>
</tr>
<tr>
<td>July 2009</td>
<td>801</td>
<td>1354</td>
<td>2155</td>
</tr>
<tr>
<td>August 2009</td>
<td>781</td>
<td>1321</td>
<td>2102</td>
</tr>
<tr>
<td>September 2009</td>
<td>794</td>
<td>1301</td>
<td>2095</td>
</tr>
<tr>
<td>October 2009</td>
<td>814</td>
<td>1395</td>
<td>2209</td>
</tr>
<tr>
<td>November 2009</td>
<td>812</td>
<td>1364</td>
<td>2176</td>
</tr>
<tr>
<td>December 2009</td>
<td>790</td>
<td>1351</td>
<td>2141</td>
</tr>
<tr>
<td>January 2010</td>
<td>825</td>
<td>1348</td>
<td>2173</td>
</tr>
<tr>
<td>February 2010</td>
<td>869</td>
<td>1329</td>
<td>2198</td>
</tr>
<tr>
<td>March 2010</td>
<td>902</td>
<td>1391</td>
<td>2293</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>9677</strong></td>
<td><strong>16162</strong></td>
<td><strong>25839</strong></td>
</tr>
</tbody>
</table>

**OPD activity**

Department have OPD on all six working days with two specialty clinics, Pediatric & Adolescent Endocrinology clinic, PAEC (Every Monday, 2-5 pm) and Diabetes of Young clinic, DOY (Every Saturday 9-1 pm).

**Laboratory Investigations**

The total no. of Hormone assays and biochemical test done during this period in the metabolic lab of the Dept is given below.

Biochemical investigations done in the Metabolic Laboratory

<table>
<thead>
<tr>
<th>Investigation</th>
<th>Number of Samples</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) Blood sugar</td>
<td>9670</td>
</tr>
<tr>
<td>2) Glycated haemoglobin</td>
<td>7044</td>
</tr>
<tr>
<td>5) Urine pH</td>
<td>125</td>
</tr>
<tr>
<td>6) Osmolality</td>
<td>35</td>
</tr>
<tr>
<td>No</td>
<td>Hormone</td>
</tr>
<tr>
<td>----</td>
<td>---------------------</td>
</tr>
<tr>
<td>1</td>
<td>T4</td>
</tr>
<tr>
<td>2</td>
<td>TSH</td>
</tr>
<tr>
<td>3</td>
<td>TPO</td>
</tr>
<tr>
<td>4</td>
<td>LH</td>
</tr>
<tr>
<td>5</td>
<td>FSH</td>
</tr>
<tr>
<td>6</td>
<td>PRL</td>
</tr>
<tr>
<td>7</td>
<td>TESTOSTERONE</td>
</tr>
<tr>
<td>8</td>
<td>CORTISOL</td>
</tr>
<tr>
<td>9</td>
<td>17 OH PROGESTERONE</td>
</tr>
<tr>
<td>10</td>
<td>DHEAS</td>
</tr>
<tr>
<td>11</td>
<td>ACTH</td>
</tr>
<tr>
<td>12</td>
<td>25 OH VIT D</td>
</tr>
<tr>
<td>13</td>
<td>PTH</td>
</tr>
<tr>
<td>14</td>
<td>INSULIN</td>
</tr>
<tr>
<td>15</td>
<td>C – PEPTIDE</td>
</tr>
<tr>
<td>16</td>
<td>GAD ANTIBODY</td>
</tr>
<tr>
<td>17</td>
<td>ANTI INSULIN ANTIBODY</td>
</tr>
<tr>
<td>18</td>
<td>GROWTH HORMONE</td>
</tr>
<tr>
<td>19</td>
<td>FREE T4</td>
</tr>
<tr>
<td>20</td>
<td>T3</td>
</tr>
<tr>
<td>21</td>
<td>FERRITIN</td>
</tr>
<tr>
<td></td>
<td>TOTAL</td>
</tr>
</tbody>
</table>
### EDUCATION

The department is actively engaged in undergraduate and postgraduate teaching with nine postgraduate (MD) students and four PhD student enrolled in the department at the moment. The department is also imparting training in DNA Fingerprinting and Toxicology to B.Sc/M.Sc students from other Indian Universities all over India.

### CONTINUING MEDICAL EDUCATION

i) Workshop on “age estimation” was organized in collaboration with Sports Authority of India.

ii) Workshop on “Knee arthroplasty cadaver training” in collaboration with Department of Orthopaedics.

iii) Workshop on “First Live surgery and cadaveric hands on Minimal Access Spinal Surgery” in collaboration with JPN Trauma Centre.

### LECTURES

The departmental faculty/officers participated in training programmes organised by the National Institute of Criminology & Forensic Sciences (NICFS), Amity Institute, Faculty of Law, Delhi University, Delhi Medical Association, Academy of Central Bureau of Investigation (CBI), Delhi Police & Delhi Judicial Academy. Lectures and demonstrations were held for CBI officials, police officers, judicial officers, medical officers and Forensic Science experts from all over country.

Prof. T.D. Dogra delivered guest lecture on an experience in Forensic Medicine at Regional Institute of Medical Sciences (RIMS), Imphal on 19.3.2010.
Dr. Sanjeev Lalwani delivered guest lecture on “Implantation of human organs, medical ethics and medico-legal issues” at NIHFW. He also delivered lecture on “Health and Forensic related issues related in Human Trafficking” in seminar on “Organized crime and Human Trafficking”.

Dr. Adarsh Kr. delivered special public lecture in Hindi on “Medico-legal investigation” organised by Hindi Sansthan, Bhopal. He also delivered guest lecture on “Medico-legal cases and postmortem examination – know how? In workshop for doctors, pharmacists & police officials at NOIDA.

**RESEARCH**

**Departmental Projects**

**Completed**

1. Inferring genetic diversity and molecular relatedness among the Indian Saraswat Community at various short tandem repeat (STR) loci.
2. Comprehensive study of unnatural deaths in children and women.
3. Comprehensive study of skeletal injuries in fatal road traffic accidents.
4. Auditing of asphyxial deaths.
5. Comprehensive study of fatal poisonings in South Delhi.

**Ongoing**

1. Qualitative & quantitative assessment of Aluminium & Zinc in fatal poisoning cases, reported at AIIMS mortuary using trace metal analyser.
2. Qualitative & quantitative extraction of DNA from decomposed tissues.
3. Influence of exposure to combination of pesticide (Cypermethrin & Endosulfan) on subcellular changes in viscera of wistar rats.

**Collaborative Projects**

**Completed**

1. Plastination of knee region using Silicon (S-10) Technique.
2. Plastination of embalmed and freshly preserved human lungs using Silicon (S—10) technique.

**Ongoing**

1. Histopathological and morphometric evaluation of surgically excised specimen of aortic aneurysm.
2. Evaluation of vitreous humour as a biomatrix for the quantification of drugs and chemicals in postmortem forensic investigation.

**PUBLICATIONS**


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33. Raina A, Yadav B, Dogra TD. The population data for North Indian Saraswat Brahmins on 17 Y-STR marker on line to YHRD, Berlin. HP://www.yhrd.org/ya003550
34. Raina A, Lalwani S, Dogra TD. Dr. TD Dogra’s expert evidence in trial of assassination of late Mrs Indira Gandhi, Prime Minister of India. Ind Internet J For Med & Toxicol; 7(4):134-59
35. Raina A, Yadav B, Bhat KV, Dogra Tirath D. Genetic polymorphism at 15 STR loci in Delhi’s (India) population. Ind Internet J For Med & Toxicol; 7(1)- 10.1111/j.1743-0680.2008.01131.x

PATIENT CARE

Casualty Services: The department continued to provide round the clock coverage to the casualty in medico-legal cases in injury, sexual offences, poisoning and other complicated medico-legal cases. The department is attending all the calls pertaining to medical examination in police & judicial custody.
Medicolegal Postmortem performed: 1414+939 JPNATC=2353

Doctors of the department also participated in board postmortems constituted by competent authorities including exhumation. At Trauma centre 939 autopsies were conducted.

**Court attendance by the members of the department: 750**

Doctors of the department also attended court in CBI cases as experts.

**Clinical Forensic Medicine**

The department examined cases of age estimation, medical examination, marriage disputes, potency, DNA fingerprinting etc referred by honourable courts, CBI and other investigating agencies. 47 such cases were dealt in 2009-10.

**DNA Fingerprinting**

The department is providing training to the candidates of various universities. It is performing DNA Fingerprinting test in selected medico-legal cases. 75 such tests were done during 2009-10.

**Medical Toxicology**

Tests for various poisons e.g. heavy metals, opiates, benzodiazepines and alcohol were done in toxicology laboratory. 754 such tests were done during 2009-10.

**Community services**

The department participated in training programme for CBI officials, police officers, medical officers, judges public prosecutors and Forensic Science experts from all over country.

**Awards & honours**

i) Dr. Adarsh Kumar was elected as general secretary of Indian Academy of Forensic Medicine.

ii) Dr. A. K. Jaiswal, Chemist & Dr. Adarsh Kumar, Asstt. Professor were awarded certificate of merit for research paper ‘Determination of quinolphos by HPTLC’ in Dr. P.D. Sethi Annual award ceremony 2008-09.
9.12 Gastroenterology and Human Nutrition Unit

**Professor and Head**
S.K. Acharya

**Professors**
Y.K. Joshi  
Umesh Kapil  
Anoop Saraya

**Associate Professors**
Pramod Garg  
Vineet Ahuja  
Govind K. Makharia

**EDUCATION**
Undergraduate, postgraduate, PhD and paramedical training programme remained the same.

**Short- and long-term training**
Twenty candidates underwent training during 2009–10 for a period of 3 months to 6 months. Thirteen DM candidates and seven PhD candidates underwent long-term training.

**Continuing Medical Education**
The department organized

**National and International Conferences**
The department faculty delivered 42 lectures at international and national conferences/meetings.

**RESEARCH**

**Funded projects**

**Completed**


**Ongoing**


4. Advanced Centre for liver diseases (institute and different projects in liver diseases). Projects include (i) hepatic venous outflow tract obstruction: etiology and results of angioplasty, (ii) probiotics for spontaneous bacterial peritonitis, (iii) neutrophilic function studies in acute liver failure, (iv) randomized control trial of percutaneous acetac acid and radio frequency ablation in HCC, (v) sepsis in acute liver failure, (vi) seizures in acute liver failure, (vii) adipokines and oxidative stress in patients with non-alcoholic fatty liver disease. S. K. Acharya. Funded by ICMR. Funds: Rs 2 crore.


15. A Phase 3, open-label study to determine the long-term safety and efficacy of MLN0002 in patients with ulcerative colitis (UC) and Crohn’s disease (CD). Vineet Ahuja. Funded by Millenium Pharma, Boston, MA for 3 years (2009–12). Funds: Rs 5 lakhs.


18. A multi-centric study on treatment of abdominal tuberculosis (intestinal or peritoneal): A randomized controlled trial to compare the 6 months of Cat I treatment with 9 months of Cat I treatment (extension for 3 months) in abdominal tuberculosis under the Revised National Tuberculosis Control program. Govind Makharia. Funded by Central TB Division, Ministry of Health and Family Welfare, Government of India for 4 years (2008–12). Funds: Rs 57 lakhs.

**Departmental projects**

**Completed**

2. Three month treatment of chronic hepatitis C with interferon a2b and ribavirine.
3. Association of *SPINK1* gene mutation and *CFTR* gene polymorphisms in patients with pancreas divisum presenting with idiopathic pancreatitis.
4. Idiopathic chronic pancreatitis in India: Phenotypic characterization and strong genetic susceptibility due to *SPINK1* and *CFTR* gene.
5. A prospective randomized trial comparing two-stage versus single-stage management of patients with gallstone disease and common bile duct stones.
6. Dose ranging study of steroid (oral and intravenous) in patients with moderate to severe ulcerative colitis.
7. 30 day steroid response predicts long term natural history in patients with ulcerative colitis.
8. Efficacy and tolerability of curcumin enemas in patients with ulcerative proctitis.
11. Colonic mucosal bacterial flora in ulcerative colitis patients.

**Ongoing**

1. Hepatitis B e antigen negative chronic hepatitis B. Magnitude, viral and host characteristics.
2. Immunotolerant chronic HBV infection: Natural course.
3. Role of HVPG in portal hypertension.
5. Role of MRI in the evaluation of infected pancreatic necrosis for conservative treatment including non-surgical drainage.
7. Differentiating Intestinal tuberculosis from Crohn’s Disease: Biomarker search.
8. Dynamics of differential T regulatory cell expression in inflammatory bowel disease and intestinal tuberculosis.
9. Retinoic acid is the microenvironmental cue determining disease activity in patients with ulcerative colitis.
10. Genome wide gene expression analysis for target genes to differentiate patients with intestinal tuberculosis and Crohn’s disease and discriminative value of FOXP3 mRNA expression.

11. Prevalence and clinicopathological correlation of chronic gastritis in a high altitude area in India.


15. Prevalence of irritable bowel syndrome in community

**Collaborative Research Projects**

**Completed**


2. PET-CT-colonography: A new technique for evaluation of activity and extent of ulcerative colitis (Nuclear Medicine).

3. PET-CT-colonography: Evaluation of terminal ileal disease.

4. Prevalence of celiac disease in high risk group such as seizure, short stature, metabolic bone disease.


6. Reintroduction of anti-tubercular drugs in ATT induced hepatitis: Randomized controlled trial.

7. A study of emerging parasitic agents intestinal coccidia and microsporidia in etiology of malabsorption syndrome (Microbiology).

8. Short and long term outcome after cardiomyotomy in patients with achalasia cardia (Surgery).

**Ongoing**

1. Role of surface promoter mutations in hepatitis B surface antigen production and secretion in occult hepatitis B virus infection (Pathology).

2. HBV mutants among patients with acute and chronic liver disease (Pathology).

3. Cellular and humoral immunity studies among patients with acute hepatitis E virus infection (Pathology).

4. HCV quantitation assay and HEV quantitation assay development and their relevance (Pathology).

5. A randomized trial of endoscopic versus laparoscopic removal of common bile duct stones in patients with gallstones and CBD stones (Surgery).

6. Comparative evaluation of PET CT scan and EUS in patients with suspected pancreatic malignancy (Nuclear Medicine)

8. Role of TNF-α in the pathogenesis of experimental acute pancreatitis and the effect of anti-TNF-α therapy in attenuating the severity of pancreatitis and in the subsequent regeneration of the pancreas (Anatomy).

9. Role of EUS in assessing respectability of periampullary tumours: Comparison with diagnostic laparoscopy (Surgery).

10. Derivation of a risk score to predict risk of advanced colorectal cancer (Collaborative study, Asia Pacific Colorectal Cancer Study Group).

11. Attitude towards colorectal cancer (Collaborative study, Asia Pacific Colorectal Cancer Study Group).


13. Detection, identification and molecular characterization of intestinal coccidia and microsporidia in patients with chronic diarrhoea and malabsorption syndrome (Microbiology).

14. Effect of treatment (laparoscopic cardiomyotomy and pneumatic dilatation) on structural and functional abnormalities of the lungs in achalasia (Surgery).

15. Genetic study of *Giardia lamblia* (Microbiology).

16. Detection of metabolic signature of patients with celiac disease using *in-vitro* ¹H magnetic resonance spectroscopy.

17. Prevalence of celiac disease in patients with nutritional anaemia.


20. A multicenter (country wide) prospective data collection of patients with inflammatory bowel disease under Indian Society of Gastroenterology Task Force on Inflammatory Bowel Disease.

21. Effect of addition of short course of prednisolone to gluten free diet and gluten free diet alone in the recovery of clinical, histological and immunological features in naive adult patients with celiac disease: A pilot randomized controlled trial.

**PUBLICATIONS**

**Journals**


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**Chapters in Books**


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**PATIENT CARE**

**Special clinics**

<table>
<thead>
<tr>
<th>Name of the clinic</th>
<th>New cases</th>
<th>Old cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liver</td>
<td>1089</td>
<td>8936</td>
</tr>
<tr>
<td>Pancreas</td>
<td>455</td>
<td>1387</td>
</tr>
<tr>
<td>IBD and ulcer</td>
<td>294</td>
<td>2079</td>
</tr>
<tr>
<td>Interventional</td>
<td>432</td>
<td>288</td>
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</table>

**Routine clinic**

<table>
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<tr>
<th></th>
<th>New cases</th>
<th>Old cases</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>16,447</td>
<td>22,544</td>
</tr>
</tbody>
</table>

**Procedures**

- Diagnostic and therapeutic endoscopy: 12600
- Diagnostic and therapeutic colonoscopy: 1500
- Diagnostic sigmoidoscopy: 1540
- Endoscopic sclerotherapy and variceal ligation: 3200
- Side viewing endoscopy: 170
- Endoscopic retrograde cholangiopancreatography: 1000
- Endoscopic ultrasound (diagnostic and therapeutic): 288

**Tests done in the department**

1. Serum ceruloplasmin: 539
2. Serum copper: 531
3. 24 hours urinary copper: 549
4. TNF-α: 400
5. IL-6: 400
6. IL-1β: 100
7. Adeponectin: 100
8. Insulin: 100
9. Lipid peroxidation: 400
10. Free radical antioxidant potential: 400
11. Vitamin C: 400
12. Leptin: 100
13. Superoxide dismutase: 400
14. TtG-1GA: 3200
15. Nitric oxide: 400
16. Neutrophil function test: 315
17. Melatonin: 320
18. IL-1α: 320
19. IL-8: 320
20. IFN-γ: 320
21. HBV-DNA (PCR) 1204
22. HBV-DNA (Real Time PCR) 750
23. HCV-RNA (PCR) 600
24. HEV-RNA (PCR) 100
25. Plasma glutamina (HPLC) 260
26. K-ras mutation (PCR) 45
27. Pancreatic tissue DNA 20
28. Matrix metalloproteinase-1 180
29. Matrix metalloproteinase-2 320
30. Matrix metalloproteinase-8 320
31. Matrix metalloproteinase-9 320
32. IgG4 25
33. LOH (PCR) 40
34. FFPE tissue section DNA 200
35. Plasma renin activity 200
36. Myeloperoxidase activity 315
37. L-Cathepsin 100
38. HBV Genotyping (PCR) 100
39. HBV BCP (PCR) 60
40. HBV Precore mutant (PCR) 50
41. HCV RNA Real time PCR 150
42. HBV DNA sequencing 20
43. Tumor suppressor gene (Fragment analysis) 40
44. Cantonic trypsinogen exon2 (sequencing) 30
45. Catonic trypsinogen exon 3 (sequencing) 30
46. HCV Genotyping 10
47. p53 (PCR) 10
48. D-xylose 486
49. Faecal chymotrypsin 110
50. Faecal fat 155
51. Hydrogen breath test 147
52. Blood ammonia 280
53. Prothrombin time 1970

AWARDS, HONOURS AND SIGNIFICANT EVENTS


Dr Umesh Kapil delivered prestigious ‘Dhanvantari Oration’ of Indian Association of Preventive and Social Medicine, India during 37th Annual National Conference of IAPSM, Ranchi, 22–24

**Dr Pramod Garg** awarded Membership of National Academy of Sciences, India (NASI).

**Dr Vineet Ahuja** awarded ISG-WIN-Medicare Plenary Session Award 2009 for best plenary session paper, presented second best poster in large intestine session and presented best oral paper in luminal gastroenterology session in 50th Annual Meeting of ISG at Kolkata, December 2009; nominated Course Coordinator for ‘Gastroenterology Young Masters’ meeting, New Delhi, February 2010.

**Dr Govind Makharia** nominated member of the Guidelines Committee: Asia Pacific guidelines for management of ulcerative colitis, Asia Pacific Association of Gastroenterology; nominated Secretary, Management of irritable bowel syndrome, Asia Guidelines on Irritable bowel syndrome, Asian Neurogastroenterology and Motility Association; nominated Editorial Board Member, *Indian Journal of Gastroenterology*; nominated Member, Indian Society of Gastroenterology Task Force on Irritable Bowel Syndrome; elected Governing Council member, Indian Society of Gastroenterology; nominated Coordinator, Indian Society of Gastroenterology Task Force on Inflammatory Bowel Disease; nominated Member, Task Force on Celiac disease, Indian Council of Medical Research; nominated Course Coordinator for Young Clinician’s Program, Indian Society of Gastroenterology.

**VISITING SCIENTISTS**

1. Professor Rajiv Jalan and Professor Scott Harris, USA, 25 July 2009.
2. Dr Priya Grewal, Mt. Sinai School, New York, USA, 7 September 2009.
3. Professor Anil Rustgi, University of Pennsylvania, USA and Professor Ashok Saluja, University of Minnesota, USA, 14 December 2009.
4. Professor Sanjay V. Malhotra and Professor Shivaani Kumar, National Cancer Institute, USA, 5 January 2010.
5. Professor Sanjeev Arora, Professor of Hepatology, University of New Mexico, USA, 19 February 2010.
6. Dr Vinod Rustgi, Hepatologist, Georgetown University Medical Center, USA, 4 March 2010.
EDUCATION

The department faculty is involved in the didactic teaching programme for undergraduates, surgical postgraduates and postdoctoral trainees. The department offers 3 year superspecialty training in gastrointestinal surgery leading to the award of MCh in Gastrointestinal Surgery.

Continuing Medical Education

Lectures

The faculty delivered 12 continuing medical education (CME) lectures at various regional/national medical fora of the country.

RESEARCH

Funded projects

Ongoing


Completed


Departmental projects

Completed
1. Short-term outcome of three-field lymphadenectomy for carcinoma oesophagus
2. Quality of life following restorative proctocolectomy in patients with refractory ulcerative colitis
3. Quality of life following transhiatal oesophagectomy in patients with carcinoma oesophagus.
4. Study of gastric emptying following classical Whipple’s pancreatoduodenectomy and pylorus-preserving pancreatoduodenectomy using scintigraphic techniques after randomizing them to antecolic or retrocolic gastrojejunoanastomosis or pylorojunostomy
5. A prospective randomized trial comparing preoperative radiotherapy and transhiatal oesophagectomy vs. transhiatal oesophagectomy alone for squamous cell cancer of the lower third of oesophagus
6. Prospective evaluation of the outcome following management of oesophageal perforations
7. Evaluation of long term outcome following oesophageal resections for cancer of oesophagus.

Ongoing
1. A randomized controlled trial of resection versus bypass procedure for the treatment of corrosive stricture of oesophagus
2. Long term follow up of lienorenal shunt procedure in patients with extrahepatic portal vein obstruction
3. Prospective evaluation of choledochoscopy for various biliary tract disorders
4. Prospective evaluation of the role of intraoperative enteroscopy in the management of obscure gastrointestinal bleeding
5. A prospective randomized study to compare hand-sewn and stapled oesophagogastrectomy anastomoses following transhiatal oesophagectomy
6. Quality of life following operations for corrosive strictures of oesophagus
7. Assessment of the problem of mucocoele following bypass procedure for corrosive strictures of oesophagus.
8. A prospective randomized trial comparing preoperative radiotherapy and transhiatal oesophagectomy vs. transhiatal oesophagectomy alone for squamous cell cancer of the middle third of oesophagus.
9. Role of intraoperative ultrasound in GI malignancies
10. Long term functional outcome after ileal pouch anal anastomosis
11. Assessment of health related quality of life of patients with ulcerative colitis after ileal pouch anal anastomosis
12. Role of neck ultrasound, CT and PET scan in assessment of cervical lymph node metastasis in middle third oesophageal carcinoma
13. Wound infection after ileostomy closure: A prospective randomized study comparing primary versus circumferential subcuticular closure techniques

**Collaborative Projects**

**Ongoing**

1. A randomized controlled trial of proximal lienorenal shunt versus sequential endoscopic variceal ligation and endoscopic sclerotherapy for patients with extrahepatic portal venous obstruction (with Gastroenterology).

2. Role of neoadjuvant chemoradiotherapy in adenocarcinoma of gastro-oesophageal junction (with Radiotherapy).

3. Prospective study on the effect of lienorenal shunt on pericoledochal collaterals causing portal hypertensive biliopathy (with Gastroenterology).

4. A randomized controlled clinical trial of preoperative cholecystojejunostomy versus endoscopic stenting in surgical obstructive jaundice due to periampullary carcinoma (with Gastroenterology).

5. The role of endoscopic ultrasound in the evaluation of periampullary tumours (with Gastroenterology).

6. A randomized controlled trial comparing surgery versus endoscopic treatment for chronic pancreatitis (Gastroenterology).

**PUBLICATIONS**

**Journals**


**Books**


**Chapters in Books**


**PATIENT CARE**

**OPD and specialty clinics**

Please see Chapter 6 (Hospital), Appendix VI

- Total number of new patients seen 1855
- Total number of old patients seen 5184

**Special laboratory facilities**

- Anal manometry
- Oesophageal manometry
- 24-hour ambulatory oesophageal pH monitoring

**Inpatients**

Please see Chapter 6 (Hospital), Appendix III

- Total number of inpatient admissions (January 2009–December 2009) 756

**Surgical procedures**

Please see Chapter 6 (Hospital), Appendix V

- Total number of operations performed 574
Elective operations 423
Emergency operations 151

**Number of operations performed (Special interest areas)**

Surgical jaundice 126
Portal hypertension 41
Oesophageal cancer 79
Carcinoma gall bladder 37
Corrosive strictures 32
Ulcerative colitis 24
Upper GI haemorrhage 12
Lower GI haemorrhage 17
Acute pancreatitis 14
Chronic pancreatitis 7
Liver resections 33
Cadaveric liver retrievals 3
Orthotopic liver transplant 2

**AWARDS, HONOURS AND SIGNIFICANT EVENTS**

**Dr Peush Sahni** is presently Representative of the World Association of Medical Editors (WAME) at the International Committee of Medical Journal Editors (ICMJE). He is also the Editor of *The National Medical Journal of India*.

**VISITING SCIENTISTS**

1. Dr Sumit Mittal, Department of Surgery, Creighton University Medical Center, Omaha, Nebraska, USA.
2. Dr Dinesh Sharma, Consultant Liver transplant and Hepatobiliary surgeon, Royal Free Hospital, London, UK.
3. Professor John Windsor, Professor of Surgery, University of Auckland, New Zealand.
EDUCATION

The Department has DM courses in Clinical Hematology and in Hematopathology. This year, two candidates passed DM Clinical Hematology and one passed the DM Hemato-pathology examination. Eight residents are undergoing training for DM Clinical Hematology and six for DM Hemato-pathology during the current academic year. Five students are registered for Ph.D in Hematology, which is ongoing.

The faculty continues to take undergraduate classes for Hematology and Medicine, and Clinical case studies for Dept of Pediatrics students. It also continues to train the MD Pathology students in Hematology.

Short and Long Term Training

The department has provided training in the field of clinical and laboratory hematology to fourteen doctors from other institutions for periods varying from 1 to 6 months. Fifty five M.Sc. students also undertook short-term training in molecular hematology for periods varying from 1 to 6 months during this year.

CME

Organized by department

1. Workshop on Hemogram under the aegis of ISHTM 19th November 2009.
2. Workshop on Stem Cell Transplantation under the aegis of ISHTM 19th November 2009.

Lectures delivered

Dr. R. Saxena

2. Ethics in Medical Research at Symposium on Bioethics Symposium on Bioethics Indian Council of Medical Indian Council of Medical Research, Ansari Nagar, New Delhi.
5. Molecular Genetics in Inherited Bleeding Disorders at ISHTM November 2009 held at AIIMS.
6. Prenatal diagnosis for inherited bleeding disorders at XVIth National CME in Haematology & Haemato-Oncology Bombay Hospital Institute of Medical Sciences, Mumbai, January 2010
7. D-Dimer test in haematology at XVIth National CME in Haematology & Haemato-Oncology Bombay Hospital Institute of Medical Sciences, Mumbai, January 2010.
8. Hemophilia: The disorder at CME organized by Hemophilic Federation of India in Delhi in 2010.
9. Diagnosis of ITP Recent concepts & pitfalls at CME on Update on ITP organized by NRS Medical College Kolkata, October 2009.
10. DIC - diagnosis and management in trauma patients in CME “TRAUMA 2009” organized by Trauma Centre, AIIMS November 2009.
12. Leukemia at CME on Techniques in Hematology and Hemostasis organized by DIPAS in November –December 2009.
13. Diagnosis of Hemophilia” at CME on Capacity Building in Hemophilia organized by Sir Ganga Ram Hospital, Delhi in December 2009.
14. Ethics in Human Research in workshop on Designing clinical research 23-24th January 2010 organized by Clinical Epidemiology Unit (CEU), AIIMS.
17. APLA- All that you need to know, Hematology CME organized by SMS Medical College, Jaipur, March 2010.

Dr. HP Pati


5. Refractory Iron deficiency anemia, at CME organized by NRS Medical College 28th March 2010, Kolkata.

Dr M Mahapatra

1. Post-graduate Hematology Training in India. Guest lecture at XVIth National CME in Haematology held at Bombay Hospital, Mumbai, January 2009.


3. Approach to Management of Adult ITP. Guest lecture at CME on Update on ITP held at Kolkata, India on 14th October 2009.


Dr Tulika Seth

1. Case Discussion Anemias, XVI th CME on Hematology, held at Bombay Hospital, Mumbai, January 2010.


3. Designing a prognostic study using a cohort design. Clinical Epidemiology Unit (CEU), Workshop on Designing Clinical research, 23-24 Jan, 2010..


6. Clinical Epidemiology Unit (CEU) –QUIZ - Data analysis workshop held on 19-20th Sept, 2009.AIIMS, New Delhi

7. Designing a predictive study using a cohort design. Clinical epidemiology workshop-25-26th April,2009, AIIMS, New Delhi


11. Presented AIIMS data on BMT at the Indian Bone Marrow Transplant registry meeting in Vellore, March 2010.
Dr Pravas Mishra

4. Indo American Cancer Association Fellowship: Delivered talk regards my experiences at City of Hope Hospital at their annual meetings during ASCO 2009.
5. Faculty. International update on Expanding Vistas in Chronic Myeloid Leukemia.
   Panel discussion. CME on stem cell transplant. Manipal Hospital, Bangalore September 27, 2009.

National and International Conferences

Organised by department


Lectures delivered

Dr. R. Saxena


Dr HP Pati


Dr M Mahapatra

1. Short and long term outcomes of allogenic hematopoietic stem cell transplant performed in non-HEPA filtered single rooms: A single center experience from India at 36th Annual meeting of the European Group for Blood and Marrow Transplantation (EBMT) held at Vienna, Austria on 21-24 March 2010.
2. Outcome of Aplastic anemia treated with Anti-thymocyte globulin therapy and cyclosporine: A single center study from India at 65th Annual conference of Physicians of India held at Jaipur on 7th 10th Jan 2010.
Dr Tulika Seth


Dr Pravas Mishra

1. Poster presentation: Peripheral blood stem cell transplantation is comparable to Bone marrow transplantation in Aplastic anemia. European society of Hematology Annual Conference, Vienna March 19-24, 2010


RESEARCH

Funded Research

Ongoing

1. Modulation of genes to understand the biology of stage progression in chronic myeloid leukemia patients
   Name of PI : Dr. R. Saxena
   Duration : 2008 - 2011
   Funding Agency : ICMR
   Sanctioned Amount : Rs. 8,90,000/- for 1st year

2. Evaluation of molecular parameters affecting biology of chronic lymphocytic leukemia in India.
   Name of PI : Dr. R. Saxena
   Duration : 2009 - 2012
   Funding Agency : ICMR
   Sanctioned Amount : app. Rs.6,00,000 for 1st year

3. Phase II Study of NRX 195183 Therapy For Patients With Relapsed Or Refractory Acute Promyelocytic Leukemia
   Name of PI : Dr. R. Saxena
   Duration : 2009-10
   Funding Agency : NuRx Pharmaceuticals Inc., US
   Sanctioned Amount : Depending on number of patients recruited
4. Molecular Characterization and treatment of Acute Lymphoid Leukemia on protocol modified MCP 841. International Network for Cancer Treatment and Research
   Name of PI: Dr. R. Saxena
   Duration: 2001 - 2009
   Funding Agency: INCTR
   Sanctioned Amount: Rs. 4.5 lakhs per year

5. Quality assessment in Hemogram
   Name of PI: Dr. R. Saxena
   Funding Agency: ISHTM
   Duration: 2003-2008
   Sanctioned Amount: Rs. 1.5 lakhs/year

6. Role of Nitric oxide in the development of stroke 2008-2011
   Name of PI: Dr. R. Saxena
   Funding Agency: DST
   Duration: 2008-2011
   Sanctioned Amount: Rs. 20 Lakhs

7. Evaluation of Platelet Receptor Polymorphism In Patients With Coronary Artery Disease.
   Name of PI: Dr. R. Saxena
   Funding Agency: ICMR
   Duration: 2007-2010
   Sanctioned Amount: Rs. Rs.23 lakhs

9. Name of the project: Community based planned intervention for the change in perception and health seeking behaviour of cancers in Delhi. A pilot study
   Name of PI: Dr Tulika Seth
   Funding Agency: ICMR
   Duration: Three Years
   Sanctioned amount: Rs 11,18,025

Completed

1. Validation of Haemoglobin Colour Scale for Hemoglobin estimation :a multicentric study
   Name of PI: Dr. R. Saxena
   Duration: 2008 - 2009
   Funding Agency: WHO
   Sanctioned Amount: app. Rs.4,00,000

Departmental Research

Completed

**Ongoing**

1. Effect of glucocorticoids on vWF levels and its correlation with vWF gene promoter polymorphism 2008-2010
2. Role of alpha thalassemia in patients with iron refractory microcytosis and normal HbA2 2009-11
3. Role of FCM immunophenotyping in CLPD 2009-11
5. Detection of mutations underlying Gleevec resistance in CML 2006-2010
6. Role of Molecular studies in pathogenesis of (MDS) in Indian patients 2005 – 2010
7. Prognostic implications of sCD138 (SYNDECAN-1) in B-Chronic lymphocytic leukemia
8. Role of CD 34 and CD 3 counts in predicting the GVHD in stem cell transplantation in hematological disorders
9. To evaluate the role of induction day 14 bone marrow aspirate and biopsy in acute myeloid leukemia
10. Imaging guided lung biopsy in immunocompromised patients with possible fungal pneumonia and its clinical implications
11. Flow cytometry in diagnosis of Auto Immune hemolytic anemia
12. Multiple myeloma: diagnosis in marrow biopsy by immuno histo-chemistry
13. Iron deficiency anemia: Prevalence of refractory IDA and response to iron in IDA.
15. Flow cytometric study of granulocyte and red cells in PNH
17. Angiogenesis in bone marrow biopsy in myelofibrosis. With CD34 immuno-histochemistry.

**Collaborative Research**

**Completed**

1. Prevalence of DVT/ Pulmonary embolism in critically ill medical patients (Medicine, since 2006-2009)
2. Prothrombotic Factors in Patients with Newly Diagnosed Multiple Myeloma – an observational Study.(IRCH 2007 to 2009)

**Ongoing**

1. Correlation of erythropoietin levels and serum transferin receptor levels with other Haematological indices in patients with iron deficiency anaemia in the third trimester of pregnancy (Obstetrics and Gynae 2009 to 2011).
2. To evaluate the efficacy of tranexamic acid in reducing perioperative blood loss and its effect on shunt patency in Lieno Renal Shunt surgeries – a prospective, randomized double blind, placebo control study (Anaesthesia 2009 to 2011).

3. Zinc as an immunomodulator in the treatment of possible serious bacterial infections in infants more than 7 days and up to 4 months of age (Pediatrics)

4. Evaluation of Platelet Receptor Polymorphism and Thrombogenic Mutation in Patients with Coronary Artery Disease. (Dept. of Cardiology).

PUBLICATIONS


37. Mahapatra M, Dolai T, Kumar R, Mishra P, Seth T. Outcome of Aplastic anemia treated with Anti-thymocyte globulin therapy and cyclosporine: A single center study from India. J Assoc of physician India 2009 Dec; 57:


Chapters in Books

1. Renu Saxena. Prenatal diagnosis in Hematological Disorders.in An Introduction genetics and Fetal Medicine. Editors Dr. Deepika Deka and Dr. Narendra Malhotra published by Jaypee Brothers 2010, 99 – 110


4. R Saxena, VP Choudhry Von Willebrand Disease- Pathophysiology & Diagnosis (Ed. AnupamsSachdeva)


AWARDS AND HONOURS

Dr. R Saxena
Kshanika oration award by ICMR for outstanding woman scientist in biomedical sciences 2009.

Dr HP Pati
Continues as General Secretary, Indian Society of Hematology & Blood Transfusion

Dr M Mahapatra

1. Elected as the Treasurer of Indian Society of Hematology and Transfusion Medicine (ISHTM).
2. Organizing Secretary of Golden Jubilee Conference of Indian society of Hematology and Transfusion medicine (ISHTMGOLDCON 2009).
3. Became a Fellow of Indian Society of Hematology and Transfusion Medicine (FISHTM)
Dr Tulika Seth

1. Best poster award at PEDICON-2010, Hyderabad, 47th National IAP conference. The Changing Spectrum Of Pediatric Hemoglobinopathies: Data From A Large North Indian Tertiary Care Hospital. T Seth, B Dhingra, Sanjeev Sharma, N. Rathod, S Rathi, M Mahapatra, HP Pati


Dr Pravas Mishra

1. Fellowship. IACA Travelling fellowship for 2009: 2 weeks Clinical Observership at the City of Hope Hospital, Los Angeles, USA. September 2009

SIGNIFICANT EVENTS

Dr Renu Saxena
- Hon. Editor European Journal of Medicine since 2009.
- Became member Editorial Board Clinical and Applied Thrombosis & Hemostasis since 2009.
- Elected President, Indian Society of Hematology and Transfusion Medicine November 2009 to November 2010.
- Member, Education council of International society of Thrombosis and Hemostasis 2009 onwards
- Member Secretary - Institution Ethics Committee, AIIMS w.e.f. August 2008.
- Member, Medical Advisory Board, HFI since 2005.
- Member, ICMR project review committee for Genetics, hematology, anatomy since 2005.
- Coordinator ISHTM-AIIMS EQAP. Since 2003.

Dr M Mahapatra

1. Elected as the Treasurer of Indian Society of Hematology and Transfusion Medicine (ISHTM).
2. Organizing Secretary of Golden Jubilee Conference of Indian society of Hematology and Transfusion medicine (ISHTMGOLDCON 2009).

Laboratory services

The department has a full-fledged hematology laboratory and conducted the following tests

Tests for anaemia

<table>
<thead>
<tr>
<th>Test</th>
<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPLC</td>
<td>1879</td>
</tr>
<tr>
<td>Sickling</td>
<td>56</td>
</tr>
<tr>
<td>G6PD</td>
<td>890</td>
</tr>
<tr>
<td>S Iron</td>
<td>1985</td>
</tr>
<tr>
<td>Coombs</td>
<td>946</td>
</tr>
<tr>
<td>PNH Gel card CD55/CD59</td>
<td>190</td>
</tr>
<tr>
<td>PNH (Ham’s test)</td>
<td>84</td>
</tr>
<tr>
<td>Plasma Hemoglobin</td>
<td>183</td>
</tr>
<tr>
<td>Test</td>
<td>Code</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Urine hemosiderin</td>
<td>193</td>
</tr>
<tr>
<td>Osmotic Fragility/Incubated osmotic fragility</td>
<td>394</td>
</tr>
<tr>
<td>Heinz bodies</td>
<td>21</td>
</tr>
<tr>
<td>Methemoglobin</td>
<td>3</td>
</tr>
<tr>
<td>Cryoglobulins Cold agglutinins</td>
<td>03</td>
</tr>
<tr>
<td>Hb electrophoresis</td>
<td>18</td>
</tr>
<tr>
<td>Auto hemolysis</td>
<td>5</td>
</tr>
<tr>
<td>Serum Ferritin</td>
<td>352</td>
</tr>
</tbody>
</table>

**Haemogram and Biopsy**

<table>
<thead>
<tr>
<th>Test</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hemogram</td>
<td>3972</td>
</tr>
<tr>
<td>Reticulocyte count</td>
<td>4550</td>
</tr>
<tr>
<td>Bone marrow aspirate</td>
<td>2588</td>
</tr>
<tr>
<td>Biopsy</td>
<td>2028</td>
</tr>
<tr>
<td>Reticulin special stain</td>
<td>113</td>
</tr>
</tbody>
</table>

**Tests for Haemostasis**

<table>
<thead>
<tr>
<th>Test</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short screening coagulogram</td>
<td>6400</td>
</tr>
<tr>
<td>Factor assay</td>
<td>700</td>
</tr>
<tr>
<td>Inhibitors screening</td>
<td>400</td>
</tr>
<tr>
<td>Factor inhibitors assay</td>
<td>8</td>
</tr>
<tr>
<td>INR</td>
<td>7300</td>
</tr>
<tr>
<td>Lupus anticoagulant</td>
<td>2000</td>
</tr>
<tr>
<td>Platelet Function Test</td>
<td>1630</td>
</tr>
<tr>
<td>D. Dimer</td>
<td>1500</td>
</tr>
<tr>
<td>Fibrinogen</td>
<td>800</td>
</tr>
<tr>
<td>Proglob C</td>
<td>1000</td>
</tr>
<tr>
<td>Protein C</td>
<td>429</td>
</tr>
<tr>
<td>Protein S</td>
<td>459</td>
</tr>
<tr>
<td>APCR</td>
<td>440</td>
</tr>
<tr>
<td>AT-III</td>
<td>256</td>
</tr>
<tr>
<td>P2GP</td>
<td>700</td>
</tr>
<tr>
<td>S. Homocysteine</td>
<td>85</td>
</tr>
<tr>
<td>VWD</td>
<td>193</td>
</tr>
<tr>
<td>DNA Parental detection</td>
<td>16</td>
</tr>
<tr>
<td>DNA : Carrier detection</td>
<td>48</td>
</tr>
</tbody>
</table>
FV Leiden  |  85  
MTHFR      |  9   
P2010      |  25  
Thalassemia molecular test |  52  

**Tests for Leukemia**

Molecular studies for leukemias (BCRABL, 315 mut, t15;17,t8;21,Inv16,FIT3, JAK) |  701  
Cytochemistry                          |  720  
LAP                                    |  164  

**Flow cytometry**

<table>
<thead>
<tr>
<th>Acute leukemia</th>
<th>CLPD</th>
<th>CD34</th>
<th>PNH</th>
<th>GT</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>380</td>
<td>60</td>
<td>24</td>
<td>99</td>
<td>10</td>
<td>573</td>
</tr>
</tbody>
</table>

**PATIENT CARE**

**In Patient Treatment**

The hematology department has treated an increasing number of patients of leukemias, aplastic anemia, idiopathic thrombocytopenic purpura, lymphomas, myelodysplastic syndrome, hemophilia, multiple myeloma and various other hematological disorders as indoor patients. In the past year, 20 allogeneic transplants were performed successfully. The department also has a Day Care Centre for chemotherapy, procedures and blood product transfusions for hematological patients.

**Inpatients census**

General ward patients | 928 *(C2, Hematology ward and others)*  
Private ward patients  | 434  
TOTAL                 | 1362  

**Hematology Day Care Centre**

**Census of April 2009 to March 2010 of Hematology Day Care Centre**

<table>
<thead>
<tr>
<th>Month</th>
<th>Blood Transfusions</th>
<th>Bone Biopsy &amp; Bone Marrow Aspirates</th>
<th>Chemo-therapy</th>
<th>IT</th>
<th>Phlebotomy</th>
<th>Total Admission</th>
</tr>
</thead>
<tbody>
<tr>
<td>April 2009</td>
<td>286</td>
<td>118</td>
<td>143</td>
<td>23</td>
<td>7</td>
<td>575</td>
</tr>
<tr>
<td>May 2009</td>
<td>310</td>
<td>119</td>
<td>177</td>
<td>29</td>
<td>4</td>
<td>644</td>
</tr>
<tr>
<td>June 2009</td>
<td>361</td>
<td>131</td>
<td>189</td>
<td>29</td>
<td>6</td>
<td>719</td>
</tr>
<tr>
<td>July 2009</td>
<td>341</td>
<td>129</td>
<td>190</td>
<td>31</td>
<td>8</td>
<td>769</td>
</tr>
<tr>
<td>August 2009</td>
<td>345</td>
<td>131</td>
<td>156</td>
<td>31</td>
<td>3</td>
<td>666</td>
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<tr>
<td>September 2009</td>
<td>343</td>
<td>114</td>
<td>140</td>
<td>12</td>
<td>5</td>
<td>614</td>
</tr>
<tr>
<td>October 2009</td>
<td>359</td>
<td>97</td>
<td>137</td>
<td>20</td>
<td>10</td>
<td>603</td>
</tr>
<tr>
<td>Month</td>
<td>Male</td>
<td>Female</td>
<td>Total (H)</td>
<td>November 2009</td>
<td>December 2009</td>
<td>January 2010</td>
</tr>
<tr>
<td>--------------</td>
<td>-------</td>
<td>--------</td>
<td>----------</td>
<td>---------------</td>
<td>--------------</td>
<td>--------------</td>
</tr>
<tr>
<td></td>
<td>306</td>
<td>107</td>
<td>182</td>
<td>29</td>
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<td>105</td>
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<td></td>
<td>306</td>
<td>108</td>
<td>210</td>
<td>34</td>
<td>2</td>
<td>22</td>
</tr>
<tr>
<td></td>
<td>4014</td>
<td>1348</td>
<td>2047</td>
<td>330</td>
<td>72</td>
<td>2047</td>
</tr>
</tbody>
</table>

Clinical Apheresis Procedures

- Single Donor Platelets (SDP): 1573
- Peripheral blood stem cell (PBSC) collection: 25

OPD

The department runs its out patient department on the third floor of the main Amrit Kaur OPD block. Regular Hematology OPD is on Monday/Wednesday/Friday from 9:30 am to 6:00 pm. Oncology patients are seen in the Monday in the Hematooncology clinic (HO). The department conducts specialty care clinics e.g. Hematopoietic Stem Cell Transplant clinic on Tuesday morning, Hemostasis Clinic (HC) on Thursday morning and a Long Term Leukemia survivor Clinic on Saturday mornings.

CENSUS OF HEMATOLOGY OPD – APRIL 2009 TO MARCH 2010

<table>
<thead>
<tr>
<th>General Hematology</th>
<th>Special clinics</th>
<th>Total Grand</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td>Female</td>
<td>Total (H)</td>
</tr>
<tr>
<td>Old cases</td>
<td>16240</td>
<td>7202</td>
</tr>
<tr>
<td>New Cases</td>
<td>2222</td>
<td>1200</td>
</tr>
</tbody>
</table>

External Haematology Proficiency Testing Programme

External Quality Assurance Programme in complete blood counts, red cell indices and peripheral blood smear is being conducted in the department of hematology along with Indian Society of Hematology and Transfusion Medicine with Dr. R Saxena as its coordinator. There are about 700 participating labs at present availing services of this programme. The EQAP programme is conducted on the basis of ISO-IEC guide- 43 and W.H.O. guidelines. All the specimens are prepared in the department and sent for analysis to the participating labs. Their results are evaluated by us and communicated to the participating labs so they could take corrective steps in case their performance is out of acceptable range.
COMMUNITY SERVICES

The department of hematology provided consultative services to patients of thalassemia, in coordination with National Thalassemia Welfare Society. Care to hemophilia was provided in coordination with Hemophilia Federation of India.
E**DUCATION**

The Department of Hospital Administration offers a 2 year postgraduate programme viz. MHA (Masters in Hospital Administration) which is in its 44th year after inception. It was officially started in February, 1966, for the first time in India and has since been recognized as a distinct post-graduate discipline. The residency programme in hospital administration focuses on “hands on” training, where resident administrators man the “Control Room” of the hospital, round the clock as “Duty Officers”, and coordinate all the activities of the hospital after routine duty hours.

The Department introduced a paradigm shift in its academic programme by launching Integrated Learning Modules from the 1st of January, 2008. This includes lectures, discussions, problem based learning, case studies, journal club, seminars etc. Various guest lectures were organized in the department so as to increase the horizon of teaching.

Faculty members conducted several training programmes for doctors working in various organization including Central, State Governments, Paramilitary Forces and in various PSUs such as IICM, Ranchi & also private sector management institutes.

**Training of students from different institutes has also been carried out throughout the year 2009-2010**

- One trainee from Amrita Vishwa Vidyapeetham University for a period of 4 months from December, 2009 to March, 2010.
- Delegation from Stanford University, USA in December, 2009
- Fourteen students of MD (Community Health Administration) from National Institute of Health and Family Welfare, New Delhi in November, 2009
- Four students of MD (Hospital Administration) from A.F.M.C., Pune in November, 2009

**CONTINUING MEDICAL EDUCATION**

The Department of Hospital Administration organised the following conferences, CMEs, workshops:

- *‘Healthcare Executive Management Development Programmes’* for senior Healthcare Executive Professionals, organized by Department of Hospital Administration, AIIMS in collaboration with WHO – India office at Goa from 19th to 24th April, 2009.
‘Healthcare Executive Management Development Programmes’ for senior Healthcare Executive Professionals, organized by Department of Hospital Administration, AIIMS in collaboration with WHO – India office at Bhutan from 4th to 10th October, 2009.

National Seminar cum Workshop on “Operations Research in Hospital Administration” organized by Department of Hospital Administration, AIIMS in collaboration with WHO – India office at AIIMS from 7th & 8th August, 2009

Workshop on “National Initiative on Patient Safety” organized by Department of Hospital Administration, AIIMS in collaboration with WHO – India office and INCLEN Trust at India Habitat Centre from 14th to 16th September, 2009

CME on “Concepts in Financial Management for Medical Administrators” organized by Department of Hospital Administration, AIIMS in collaboration with WHO – India office at AIIMS from 30th September & 1st October, 2009

CME on “Managing Quality in Hospital Services” organized by Department of Hospital Administration, AIIMS in collaboration with WHO – India office at AIIMS from 6th & 7th November, 2009

Workshop on “Integrating hospitals safe from Disasters” organized by Department of Hospital Administration in collaboration with WHO India office, Ministry of Health, Govt. of Jammu & Kashmir, WHO-India Office and the National Disaster Management Authority from 21st to 23rd December, 2009 at Jammu.

LECTURES DELIVERED

Dr. Shakti Kumar Gupta

“Management of H1N1 Influenza – a Hospital Administrator’s perspective” at 2nd India Disaster Management Congress organized by Ministry of Home Affairs, Govt. of India and National Institute of Disaster Management, New Delhi from 4th to 6th November, 2009.

“Emergency Medicine – Need for specialty” Focus on India - Global Healthcare Submit organized by American Association of Physicians of Indian Origin & Indian Medical Association held on 2nd & 3rd January, 2010 at Maurya Sherton, New Delhi

“Futuristic Geriatric Hospital – A Model” in the CME held on 21st March, 2010 at Military Hospital, Agra.

“Quality Dimensions in Hospital Infection Control” in STERICON-2009 held on 4th July, 2009 organized by Directorate of Medical Education & Training, Govt. of U.P.

“Managing Quality in Hospital Services-an Overview” in CME on Managing Quality in Hospital Services, organized by Department of Hospital Administration, AIIMS held at AIIMS on 6th & 7th November, 2009

“Managing Quality in Accident & Emergency Services” in CME on Managing Quality in Hospital Services, organized by Department of Hospital Administration, AIIMS held at AIIMS held on 6th & 7th November, 2009
**Dr. D.K. Sharma**

Actively involved in teaching and training hospital administration residents and delivering lectures in various training programmes/workshops organised by the department sponsored by Ministry of Health, HRD, personnel etc. and has also been invited by various govt. and public sector organizations and professional associations to deliver lectures on various topics in the speciality of Hospital Administration.

**Dr. Sidhartha Satpathy**

i. Lecture on “Quality Healthcare” on 17th April, 2009 during Hospital Management Programme for senior doctors of Indian Railways at Railway Staff College, Vadodra.

ii. Lectures on various topics in Hospital Administration from 21st April, 2009 to 23rd April, 2009 during 4th HxMDP Programme organized by Dept. of Hospital Administration in collaboration with WHO India Office at Goa.

iii. Lecture on “Planning and Management of Lab Services” on 14th July, 2009 during 82nd Training Course on Hospital Administration for senior hospital administrators at NIHFW, New Delhi.

iv. Lecture on “Accreditation of Hospitals and Clinical Audit” on 21st July, 2009 during programme on Hospital Management and CME on Diabetes and Hypertension at Power Management Institute, NTPC, Noida.

v. Lecture on “Planning and Management of Indoor Services” on 28th July, 2009 during Hospital Management Training Programme for senior doctors at Railway Staff College, Vadodara.


vii. Delivered lectures on various topics in Hospital Administration and conducted Organizational Behavior Lab during special training programme on Hospital Management and administration for Medical Superintendents, GDMOs and non specialists of Coal India at IICM from 4th to 9th January, 2010.

viii. Lecture on “Consumer Protection Act – cases in Hospitals” on 22nd January, 2010 during Training Programme on Hospital Administration for senior doctors at NIHFW, New Delhi.

**Dr. Sanjay Arya**

1. Invited as resource faculty to deliver lecture on “Public Private Partnership & Outsourcing in Hospitals” in a CME on Hospital Administration held on 7th April, 2009 at Thiruvananthapuram.

2. Delivered lecture on 16th June’2009 on Hospital Evacuation Plan & Disaster Plan at National Institute of Disaster Management (Ministry of Home Affairs).

3. Delivered lecture on “Hospital Infection Control and continuous improvement” on 20th July, 2009 at Power Management Institute, Noida.

5. Visited Ranchi as resource faculty for delivering lectures in a special programme on “Hospital Management & Administration” from 11th to 15th January, 2010.

Dr. Aarti Vij

1. Co-chairperson in the Session on Operations Research in Hospital Administration in the National Seminar Cum Workshop conducted by Deptt of Hospital Admin in collaboration with World Health Organisation on 7 & 8th August 2009 at New Delhi.

2. Panelist in the session on “How to make required request – a Hospital Policy” in the 24th National Eye Donation Fortnight organized by Dr. RP Centre for Ophthalmic Sciences, AIIMS on 25th August 2009.

3. Invited Lecture on “Awareness on Organ & Body Donation” at India International Centre organized by Deptt of Anatomy, MAMC & Dadhichi Dehdan Samiti and moderated by Senior Officials from Delhi Government on 26th August 2009.


7. Delivered talk on “Legal, Ethical and Administrative issues in Organ Donation – Current Scenario” in the Plenary Session on Scope of Organ Donation at Trauma Centres in the International conference TRAUMA 2009 at JPNATC, New Delhi on 15th November 2009 organized by Indian Society for Trauma and Acute Care (ISTACR).


CONFERENCES, SEMINARS, WORKSHOPS

Dr. Shakti Kumar Gupta

- Attended 4th Healthcare Executive Management Development Programme (HxMDP) organized by Department of Hospital Administration, AIIMS from 19th to 24th April, 2009 at Goa.
• **Attended as Member, the final meeting of Health Review Committee (HRC) of the Punjab Health Systems Corporation, State Institute of Health & Family Welfare under the chairmanship of Prof. J.S. Bajaj, Hon'ble Vice Chairman, Planning Board cum Chairman Review Committee on 19.9.2009 at Chandigarh.**

• **Attended National Consultation on Public Health Workforce in India from 24th to 25th June, 2009 at New Delhi organised by Ministry of Health & Family Welfare, Govt. of India and World Health Organisation.**

• **Participated as a Panelist in the Opening Session in eHEALTH India-2009 organized by Centre for Science, Development and Media Studies (CSDMS) in associated with Department of Information Technology, Govt. of India and Dept. of Communications and IT, Govt. of Andhra Pradesh from 25th to 27th August at Hyderabad International Convention Centre at Hyderabad.**

• **Participated as a Panelist and delivered a lecture on “National Initiative on Patient Safety” in the Conference on “PASSION-2009 - Patient and Staff Safety : An Inescapable Organizational Necessity” organized by AFMC, Pune from 23rd to 24th October, 2009.**

• **Participated as a panelist at 2nd India Disaster Management Congress organized by Ministry of Home Affairs, Govt. of India and National Institute of Disaster Management, New Delhi from 4th to 6th November, 2009.**

• **Participated as a Panelist in Health Conclave-2009 “Managing Challenges of 21st Century in Healthcare Organizations” organized by IIHMR, Delhi in collaboration with WHO-India Office, IBM, National health System, New Delhi held at Indian Habitat Centre, New Delhi on 18th & 19th November, 2009.**

• **Co-chair the Session on “Emergency Medicine & Trauma” at Focus on India - Global Healthcare Submit organized by American Association of Physicians of Indian Origin & Indian Medical Association held on 2nd & 3rd January, 2010 at Maurya Sherton, New Delhi**

**Dr. D.K. Sharma**


• Attended National Conference on “Quality Management in Hospital Operations” organized by the Academy of Hospital Administration, New Delhi

**Dr. Sidhartha Satpathy**

• K. Shalini; Gupta S.K; Satpathy S; Mahapatra M; “Costing of allogenic bone marrow transplant procedure in patients admitted at a public tertiary care hospital in New Delhi” during 50th Golden Jubilee Conference of Indian Society of Hematology & Transfusion Medicine, Nov. 19-22, 2009 at New Delhi.

• Programme co-ordinator, training programme on Hospital Management and Administration for Medical Superintendents, GDMOs & non specialists of Coal India from 4th January 2010 to 6th February, 2010 at IICM, Ranchi.
Dr. I.B. Singh

- Attended 2009 Happy Science International Retreat Seminar held in Tokyo, Japan from 7th to 15th April, 2009 organized by the Institute for Research in Human Happiness, Tokyo, Japan.
- Attended National Seminar cum Workshop on “Operations Research in Hospital Administration” organized by Department of Hospital Administration, AIIMS, New Delhi in collaboration with World Health Organization from 7th to 8th August, 2009.
- Presented paper on “Managing Quality in CSSD” in the “CME on Managing Quality in Hospital Services” from 6th November to 7th November, 2009 organized by Department of Hospital Administration in collaboration with World Health Organization India office.

Dr. Sanjay Arya

1. Chaired a CME on Hospital Administration held on 7th April, 2009 at Thiruvananthapuram.
2. Co-chaired the session “National Seminar cum workshop on Operations Research in Hospital Administration” on 7-8th August, 2009 at Dr. Ramalingaswamy Board Room at AIIMS.
4. Participated in a panel discussion on Equipment Maintenance at workshop on “Medical Equipment Maintenance” for 27th & 28th August, 2009 organized by Christian Medical Association of India at St. Stephen’s Hospital.
8. Attended 5th Healthcare Executive Management Development Programme (HxMDP) at Thimphu, Bhutan from 4th October, 2009 to 10th October, 2009 as resource faculty.
10. Visited Jammu as resource faculty in the workshop on “Integrating hospitals safe from disaster” held from 21st to 23rd December, 2009.
12. Participated and chaired one scientific session in the Management Development Programme on Quality Assurance in Medical Care in Hospital and Health Centres from 25th to 26th February, 2010 at Rajiv Gandhi Indian Institute of Management, Shillong.
Dr. Aarti Vij

1. Attended the 10th ISODP and 16th ETCO Organ Donation Congress from 4-6th October 2009 at Berlin.

2. Attended 3 days workshop on “National Initiative on Patient Safety (NIPS)” at Habitat Centre organized by Dept. of Hospital Administration, AIIMS on 14-16 September 2009.

RESEARCH

Departmental Projects

**Completed**

1. To study system of Empanelment of private hospitals on CGHS panel
2. Costing of Neuro-Surgery ICU at AIIMS
3. Cost Analysis of Bone Marrow Transplant (allogenic) at AIIMS
4. To study economics of Health Care Associated Infection (HAI) in operated surgical cases in AIIMS main hospital
5. Costing of Bio-Medical Waste Management System at AIIMS
6. Costing of Renal Transplant at AIIMS

**Ongoing**

1. A comparative study of Operation Theatre disinfection and sterilization practices in select hospitals in Delhi
2. A study to evaluate the Trauma Care System for Delhi Metropolis
3. A study to evaluate competencies of Indian Healthcare Leaders
4. A study of Process of outsourcing of services in select hospitals of Delhi
5. A study of inpatient medical records at AIIMS hospital as prerequisite for accreditation
6. Study of Fire Safety System of AIIMS with a view to identify potentially hazardous areas along with gaps and to suggest measures for improvement.
7. Costing of Gastroenterology & Endoscopy Procedures at AIIMS
8. Security Management and Preparedness at AIIMS
9. Equipment Management System of sophisticated electromedical equipment with reference to utilization at IIMS
10. Faculty time utilization for research, education and patient care at AIIMS

PUBLICATIONS

**Journals**

the Postgraduate Medical Education, Training and Research, Vol.I. IV, no.6, November –
December, 2009, no.71-75.

2. Sona Bedi, Sanjay Kumar Arya, D.K. Sharma, Sanju Singh, Amit Lathwal, Adarsh Kumar,
“Hospital Support Services Outsourcing – The Know How; International Journal of Medical
Toxicology & Legal Medicine: October-December, 2009; Vol. XII, no.2; 13-20.

Books
1. D.K. Sharma, R.C. Goyal – Hospital Administration and Human Resource Management; PHI
Learning Private Limited, Year, Jan. 2010

PATIENT CARE
The Department of Hospital Administration, AIIMS is closely associated with the provision of
administrative support to various departments for delivery of patient care and control of costs in the
hospital services. The department has been responsible for bringing quality care standards in patient
care services at AIIMS.

The Department of Hospital Administration has been actively involved in improving the patient care
services by revamping the support services to aid in provision of a quality clinical service. Extensive
renovations and up-gradation of support services has been done.

PATIENT CARE
C.N. Centre
Patient care in C.N. Centre is closely associated with the provision of administrative support to
various departments for delivery of patient care and control of costs in the hospital services and
bringing quality care standards in patient care services.

• Patient Safety Initiative:
Following has been implemented as Patient Safety programme at C.T. Centre; (a) Conformity to Patient’s identification Bands for all admissions (b) Incidents Reporting (c) Implementation of Surgical Safety Check List (d) Patient falls report & (e) Bed sores.

• Bio Medical Waste Management:
An initiative to streamline bio medical waste management process and monitoring was started in
C.N. Centre. This was achieved by the means of a check list which brought out the various problems and meetings were held to sought solutions to these.

(i) OPD Renovation plans & programme, (ii) OPD Computerization, (iii) Renovation of
NS-2, NS-3, 4 and Cath Lab & other areas of C.N. Centre, (iv) Renovation of NS
ICUB, (v) Renovation of Cafeteria, (vi) CT-2, CCU ward, (vii) Member of various
committees for selection of staff in C.N. Centre & AIIMS & (vi) Co-ordination for
VVIP care at C.N. Centre

Organ Retrieval Banking Organization (ORBO)
• Organ Retrieval Banking Organization (ORBO) coordinates Organ & Tissue donations and
transplantation. In addition, 10 whole bodies were also donated through ORBO to facilitate
medical education in last one year 2223 persons pledged for organ donation on motivation of ORBO. Awareness activities with various NGO’s, School, and Colleges etc were conducted. Collaboration with various NGOs to promote the noble cause of organ & tissue donation. Training was imparted to Grief counselors. Orientation Programme on Organ Donation & Transplant Coordination was imparted to M.Sc. Nursing students.

• **Organized a Workshop “Cadaver Donation Process-III” at Trauma Centre on 25<sup>th</sup> August 2009.**

Organized a training workshop on Cadaver Donation Process on 25<sup>th</sup> August 2009 at Trauma Centre, AIIMS. More than 60 nursing staff from different hospitals of Delhi working in Intensive Care, Emergency services, Neurosciences depts. & Hospital Administration attended the workshop. The focus of the training workshops was (1) Diagnosis of death by brain death, (ii) Donor selection, (iii) Certification of brain death, (iv) Donor maintenance & (v) Family counseling and consent etc. The knowledge, attitude and practice level of medical professionals were also assessed.

**AWARDS AND HONOURS**

**Dr. Shakti Kumar Gupta** appointed as WHO Consultant for the preparation of “Module for Implementation of Electronic Medical Records” in specialty hospitals in India, nominated as a **Member of the Task Force on Health Sector Reforms for the state of J & K** constituted by Govt. of Jammu & Kashmir under the chairmanship of Hon’ble Chief Minister, J & K, **nominated as a Member** of the Advisory Board of Welingkar Institute of Management Development and Research, Mumbai, **elected as President, Academy of Hospital Administration, Awarded as fellow of Academy of Hospital Administration, Elected as Fellow of the National Academy of Medical Sciences (India)**

**Dr. D.K. Sharma** served as Chairman/Member of various intra as well as extra mural policy making and decision making committees of AIIMS as well as other organizations including Ministry of Health and Family Welfare, Central Pollution Control Board, Govt. of NCT of Delhi etc., Invited as Chief Guest/Guest of Honour/ Guest Faculty etc. in various National and International Symposia, workshops and conferences. Nominated as Chairman/Principal Member of various Committees of Bureau of Indian Standards (BIS), India on hospital planning, medical equipments, surgical instruments, disposables & dressings.

**Dr. Sidhartha Satpathy**

• Editor of Journal of Academy of Hospital Administration (JAHA)

• Member of Technical Committee, National Accreditation Board for Hospitals & Healthcare providers (NABH), under aegis of Quality Council of India (QCI). Conducted pre and final assessment of various applicant hospitals for NABH accreditation; and finalized the NABH guide book (2<sup>nd</sup> edition).

• Member of Bureau of Indian Standards (MHR-14) involved in preparation/review of Indian Standards on Health Care Facilities. Completed review and re-drafting of Standards on “Matrix of Services for Hospitals”.

• Expert member of National Accreditation Board for Certification Bodies (NABCB) under aegis of QCI.
• Expert member of National Accreditation Board for Personnel & Training (NRBPT) under aegis of QCI. Conducted office assessment of several organizations to determine compliance with prescribed standards.

• Member of Technical Committee for preparation of Detailed Project Report (DPR) on behalf of Educational Consultants of India (Ldt.) for setting up a Medical College at Mizoram University, Aizawl.


• Member of Accreditation Committee, National Accreditation Board for Hospitals and Healthcare Providers (NABH) under aegis of Quality Council of India, QCI.

• Member of “Task Force on Public Private Partnership in Health Care” constituted by Federation of Indian Chambers of Commerce and Industry (FICCI).

• Member of Sectional Committee on Bio-medical Waste Management (MHD-22) at Bureau of Indian Standards (BIS).

Dr. I.B. Singh

• Co-investigator for the research “To study and review the system of empanelment of private hospitals and diagnostic centres at Central Government Health Scheme”

• External Examiner for the final examination of Master in Hospital Administration Course held in December, 2009 in the Department of Hospital Administration, AIIMS, New Delhi.

• External Examiner for evaluation of thesis (MHA programme) sent from PGI, Chandigarh.

• External Examiner for evaluation of thesis (MD Hospital Administration) sent from Nizam’s Institute of Medical Sciences, Hyderabad

• External Examiner for evaluation of thesis (MD Hospital Administration) sent from Maharastra University of Health Sciences, Nashik

Dr. Sanjay Arya

• Member of expert team for making on the spot assessment for establishment of a 50 bedded AES at Assam Medical College, Dibrugarh, Assam.

• Invited as external examiner for final examination of Post Graduate Certificate Course in Hospital Management through Distance Learning at NIHFW from 18th August to 21st August, 2009.

Dr. Aarti Vij


Visiting Scientist

1. Mr. Rupert Holborow, New Zealand High Commissioner to India in January, 2010
2. Delegation from Stanford University, USA in December, 2009.
9.16 Laboratory Medicine

Professor and Head
A.K. Mukhopadhyay

Professors
M. Irshad

Associate Professor
Subhadra Sharma

Scientists
A.K. Srivastava S-IV

Vandita Vasudev S-III

EDUCATION

Short Term Training
12 Trainees, one from I.P. College, Bulandshar, U.P., one from L.N. Mithila University, Darbhanga, one from Bundelkhand University, Jhansi, one from Jamia Hamdard, N. Delhi, one from LHMC, N. Delhi, one from Sam Higginbottom Inst. Of Agriculture, Technology & Sci., Allahabad, two from Jiwaji University, Gwalior; three from C.C.S University, Meerut; one from Dr. B.R. Ambedkar University Agra; underwent short term training in the Department in different sections. The last 6 trainees opted for training only in Cl. Microbiology Section.

Lectures delivered in National and International conference

Dr. AK Mukhopadhyay
1. “Introducing Pscyhosomatic Medicine in Indian Perspective” In the OTP Program in Yoga for Medical Doctors at Doctor Harisingh Gour University, Saugar on 13.03.2010
2. “Three Questions, Three Consciousness, Three Sciences” In the OTP Program in Yoga for Medical Doctors at Doctor Harisingh Gour University, Saugar on 12.03.2010
3. “Future of Human Species” In the Bhundelkhand Medical College, Doctor Harisingh Gour University, Saugar on 12.03.2010
4. “The Psyche and the Health” In the Conference, Towards the Wellness of Body, Mind and Self at ITM, Navi Mumbai on 19.02.2010
5. “On the landscape of human possibilities: Tendencies of Homo sapiens to become Homo spiritualis” In the Conference, Science & Spirituality Quest at MNIT, Allahabad on 15.01.2010
6. “Dissection of Human Psyche, Relevance in Yoga & Psychotherapy” In the Conference, Psychotherapy Science and Yoga Traditions at Chandigarh on 06.01.2010
7. In the panel of Expert in the Workshop on Hematology at Goa, 31st July-1st August 2009
8. Chairing a session during Trauma Conference, 2009. At Jai Prakash Narayan Apex Trauma Centre on 14th November 2009 at JPNATC, New Delhi
Dr. Sarman Singh

1. Delivered lecture on Opportunistic Infections in AIDS patients: Indian Perspective, at NIH, Bethesda, USA as Visiting Professor, March 5, 2010.
2. Delivered an invited lecture in Hindi on “Swine Flu” its epidemiology and Prevention” at ICMR Headquarters, New Delhi, September 16, 2009.
4. Chaired a Scientific Session and delivered a lecture on TORCH infections during the North Zone Yuva FOGSI Congress at Gwalior on 13th to 14th November 2009.
5. Delivered a guest lecture on Toxoplasmosis in India during the Third National Conference of Tropical Parasitology (TROPACON) held at PGIMER Chandigarh from 17th to 18th November 2009.
7. Delivered a guest lecture on “Toxoplasmosis” during the IAMM-AP Chapter Conference of at SV Institute of Medical Sciences, Tirupati, AP, February 6-7, 2010.

Conferences attended

Dr. Sarman Singh

1. International conference of Infections Disease Miami, USA, March 9-12, 2010
2. Tropacon 3 at PGIMER, Chandigarh, November 17-18, 2009
3. IMSACON at Chandigarh Medical College, October 24-25, 2009

RESEARCH

Funded projects

Completed

1. Optimization of carbohydrate protein conjugate as vaccine for prevention of enteric fever. (Chief Investigator: Dr. M. Irshad, DBT, 2004-07) [36.58 lacs].
2. Development of rapid diagnostic test for detection of autoantibodies in Myasthenia Gravis by plate and Dot blot ELISA. (Chief Investigator: Dr. M. Irshad, ICMR, 2004-07) [8.0 lacs].
3. Prevalence and significance of transfusion transmitted virus (TTV) in various forms of liver diseases. (Chief Investigator: Dr. M. Irshad, ICMR, 2005-08) [25.0 lacs].
4. Transmission of Drug Resistant Hepatitis B Virus close family contacts of HBV- Related Chronic Liver Disease Patients, Dr.Sarman Singh, funded by DST for 3 years. [2006-2009] [12.10 lacs]

**Ongoing**

1. Assessment of risk factor associated with Alzheimer’s disease and Vascular dementia (Chief Investigator: Dr. AK Mukhopadhyay, ICMR, 2007-10)
2. Study of oxidative stress risk factors in Alzheimer’s disease and vascular dementia in Geriatric patients (Chief Investigator: Dr. AK Mukhopadhyay, ICMR, 2008-11)
3. Effect of Yoga on Serum Interleukin Levels in Adolescents with Depression. (Chief Investigator: Dr.AK Mukhopadhyay, CCRYN, 2008-11)
4. The role of neurotrophins, cytokines and genetic polymorphisms in clinical manifestation of depression in adolescents. (Chief Investigator: Dr. AK Mukhopadhyay, DBT, 2010-13)
5. Cloning, sequencing and expression of different genomic regions of transfusion transmitted virus (TTV) prevalent in Indian populations. (Chief Investigator: Dr. M. Irshad, ICMR, 2008-10)
6. Role of Hepatitis C virus (HCV) core protein in diagnosis and pathogenesis of HCV infection. (Chief Investigator: Dr. M. Irshad, ICMR, 2008-10).
7. To develop assays for HCV genotyping and establish a relation between genotypes and HCV core expression (Chief Investigator : Dr. M. Irshad) funded by UGC (Fellowship), 2009-2012.
8. Identification of Leishmania donovani reservoir(s) in various animal species of endemic areas using species-specific antibodies and PCR technique. (Chief Investigator : Dr. Sarman Singh, funded by DST, 2008-2010)
9. Genotypic characterization of Mycobacterium tuberculosis in clinical isolates from Pulmonary tuberculosis by using spoligotyping and IS 6110 RFLP analysis. (Chief Investigator: Dr. Sarman Singh, funded by UGC (Fellowship), 2004-2010)
10. Proteomic analysis of M. tuberculosis during the stage of acquisition of resistance to Isoniazid and Rifampicin, (Chief Investigator: Dr. Sarman Singh, funded by DBT, 2006-2011)
11. Detection of Hepatitis A, E, Salmonella, E.histolytica and Giardia lamblia from drinking water samples using novel multiplex PCR. (Chief Investigator: Dr. Sarman Singh, funded by DBT, 2007-2010)
12. To study the molecular mechanism (s) of miltefosine induced drug resistance in Leishmania donovani. (Chief Investigator: Dr. Sarman Singh, Funded by CSIR, 2004-2009).
13. A Novel multiplex PCR Assay for simultaneous detection and differentiation of mycobacterium tuberculosis, M. avium complex and other Mycobacterium species directly from clinical samples of suspected tuberculosis cases. (Chief Investigator: Dr. Sarman Singh, Funded by DBT, 2007-2010).
15. Zinc Supplementation In Childhood TB Patients in Delhi for. (Chief Investigator: Dr. Sarman Singh, funded by university of Bergen Norway 2008-2011)

16. Doctors office diagnostic instrument for detection of M.tuberculosis under in the field conditions adapted for use by unskilled personnel (Chief Investigator: Dr. Sarman Singh, funded by DBT, 2009-2012)

17. Identification of Biomarkers and Pathogen Regulated Targets for Tuberculosis Infection (Chief Investigator: Dr. Sarman Singh, funded by ICGEB, 2010-2011).

Departmental Projects

Dr. A.K. Mukhopadhyay
1. Role of Interleukin -1, 6 & 10 and TNF-a along with NFK-b and isoprostane in Acute Pancreatitis.
2. Evaluation of Coagulation Profile in Traumatic Brain Injury.

Dr. M. Irshad
1. To assess the impact of viral hepatitis on steatosis of liver.
2. Role of TTV in renal failure patients.
3. Epidemiological studies on CRF in Indian Communities.
5. Genotyping of TTV in Indian population.
6. Effect of HCV core expression on oxidative status.
7. Real time PCR for sero detection of HCV genotypes.
8. Significance of HCV-genotypes in Cirrhosis/HCC.

Dr. Sarman Singh
1. Transmission rate of HBV and HCV in family members of dually infected patient (with Deptt. of Gastro).
3. Comparative evaluation of various PCR primers for the rapid and sensitive diagnosis of tuberculosis.
4. Standardization and evaluation of Multiplex PCR for the species specific diagnosis of various Mycobacterial infections.
5. To study reintroduction of anti-tuberculosis drugs and risk factors for anti-tuberculosis treatment induced hepatotoxicity (with Deptt. of Medicine).
6. Study of Mycobacteremia in Patients with milliary and extrapulmonary and tuberculosis (with Deptt. of Medicine).
7. To study the immune response in acute Toxoplasmosis using Western Blot Method.
8. Comparative evaluation of Smear, LJ Culture, MGIT-960 Bactec Culture and Bactericophage tests for the diagnosis of Tuberculosis

9. Comparative evaluation of various TORCH test kits

10. Blood borne infections after needle prick injury in Health Care workers of AIIMS

11. Toxoplasma gondii IgG avidity assays in pregnant women attending AIIMS.

12. Sequence based diagnosis of Mycobacterial isolates from HIV positive and HIV negative patients.

13. Nested polymerase chain reaction for the diagnosis of congenital CMV infection.

14. Opportunistic infections in AIDS patients attending AIIMS.

PUBLICATIONS


**Chapter in Books**


**PATIENT CARE**

**TOTAL TESTS PERFORMED: 76,61,589**

**CENTRALISED COLLECTION CENTRES**

**BLOOD COLLECTION**

<table>
<thead>
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<th>Collection</th>
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<tr>
<td>Cl. Heamatology Section</td>
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<tr>
<td>Cl. Chemistry Section</td>
<td>55230+</td>
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<tr>
<td>(Sugar PP)</td>
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<table>
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<td>HIV</td>
<td>4535</td>
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<td>Different Clinic</td>
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<table>
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<th>Investigation</th>
<th>No. of Specimen</th>
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<td>BT</td>
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<tr>
<td>CT</td>
<td>1090</td>
</tr>
<tr>
<td>PT</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
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## EMERGENCY LABORATORY SERVICE (Round the clock)

### CRITICAL CARE LAB.

<table>
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<th>Test</th>
<th>Number</th>
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<tbody>
<tr>
<td>ABG+Electrolyte+</td>
<td>11,664</td>
<td>Hb</td>
<td>99,228</td>
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<tr>
<td>Metabolite</td>
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<td>TLC</td>
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</tr>
<tr>
<td>Amylase</td>
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<td>Platelets</td>
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<td>Bilirubin (Total)</td>
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<td>Proth Time</td>
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<td>Calcium (Total)</td>
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<td>M.P.</td>
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<td>Calcium (Ionized)</td>
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<td>CSF Cells</td>
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<td>Chloride</td>
<td>1,04,270</td>
<td>Urine</td>
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<tr>
<td>Creatinine</td>
<td>98,701</td>
<td>Micro.Blood Culture</td>
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<td>CSF (Protein)</td>
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<td>Micro. CSF</td>
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<tr>
<td>Glucose</td>
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<td>Gram Stain</td>
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<tr>
<td>pH</td>
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<td>Slide Stain, Giemsa</td>
<td>1,594</td>
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<tr>
<td>Potassium</td>
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<td>Sodium</td>
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<td>MCHC</td>
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<td>PCV</td>
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<td></td>
<td></td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>9,52,040</strong></td>
<td><strong>Total</strong></td>
<td><strong>8,48,810</strong></td>
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Note: Arterial blood gas (ABG) includes, pH, pCO₂, pO₂, BE, BEecf, BB, HCO₃, st HCO₃, TCO₂, st. pH, CH⁺, O₂ saturation, A-aDO₂, RQ, dBE/dTHb, all measured as a single test within the same time frame.

Hb, TLC, MCV, MCHC, PCV, RBC are measured by single reagent, within the same time frame.

**GRAND TOTAL : 18,00,850**

### CLINICAL BIOCHEMISTRY

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<th>Test</th>
<th>Blood</th>
<th>Urine</th>
<th>Fluid</th>
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<td>518</td>
<td>2,201</td>
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<tr>
<td>Urea</td>
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<td>T. Protein</td>
<td>2,19,316</td>
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<td>Albumin</td>
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<td>24h Albumin</td>
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<td>i) Total</td>
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<td>ii) Conj.</td>
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<td>Na⁺</td>
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<tr>
<td>K⁺</td>
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<td>Uric Acid</td>
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<td>pH</td>
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<td>pO₂</td>
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<tr>
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<tr>
<td>Total</td>
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(B) Tests on request

OTHER INVESTIGATIONS

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<td>IgM anti HBc</td>
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<td>HBeAg</td>
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<tr>
<td>Anti HCV</td>
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<tr>
<td>Anti HEV</td>
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<tr>
<td>IgM Anti HDV</td>
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<tr>
<td>IgM Anti HAV</td>
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<td>HCV- RNA</td>
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<td>TTV-DNA</td>
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<td>T.Antioxidant</td>
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<tr>
<td>Apoprotein A</td>
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<tr>
<td>Apoprotein B</td>
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<tr>
<td>Lp(a)</td>
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<tr>
<td>CK</td>
<td>115</td>
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<tr>
<td>LDH</td>
<td>115</td>
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<tr>
<td>GGT</td>
<td>115</td>
</tr>
<tr>
<td>TG</td>
<td>115</td>
</tr>
<tr>
<td>LDLC</td>
<td>115</td>
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<tr>
<td>HDLC</td>
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<td>TOTAL</td>
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GRAND TOTAL : 30,79,581
SERVICE FROM ROOM NO. 18 (UNDER HOD).

Adenosine Deaminase Assay (ADA) : 1440
NCC Neurocysticercosis IgG-Antibody (Elisa) : 140

TOTAL : 1580

HEMATOLOGY SECTION

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<td>76129</td>
</tr>
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<td>76129</td>
</tr>
<tr>
<td>PCV</td>
<td>76470</td>
<td>76129</td>
</tr>
<tr>
<td>DLC</td>
<td>76470</td>
<td>76129</td>
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<td>42320</td>
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<td>D/M</td>
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<td>16322</td>
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<td>76129</td>
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<td>B/C</td>
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<td>724</td>
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<tr>
<td>Others*</td>
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<td>11000</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>951123</strong></td>
<td><strong>798776</strong></td>
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GRAND TOTAL : 17,49,899

* 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
# MICROBIOLOGY SECTION

## A. Routine Investigations

### 1. Urine

<table>
<thead>
<tr>
<th>Name of the Tests</th>
<th>O.P.D</th>
<th>WARD</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical board</td>
<td>9280</td>
<td></td>
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<tr>
<td>Routine</td>
<td>66180</td>
<td>46646</td>
<td>112826</td>
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<tr>
<td>Microscopic</td>
<td>93930</td>
<td>72420</td>
<td>166350</td>
</tr>
<tr>
<td>pH</td>
<td>31310</td>
<td>24124</td>
<td>55434</td>
</tr>
<tr>
<td>Specific gravity</td>
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<td>24124</td>
<td>55434</td>
</tr>
<tr>
<td>Acetone</td>
<td>31310</td>
<td>24124</td>
<td>55434</td>
</tr>
<tr>
<td>Bile pigment/salt</td>
<td>31310</td>
<td>24124</td>
<td>55434</td>
</tr>
<tr>
<td>Urobilinogen</td>
<td>31310</td>
<td>24124</td>
<td>55434</td>
</tr>
<tr>
<td>Blood</td>
<td>31310</td>
<td>24124</td>
<td>55434</td>
</tr>
<tr>
<td>Bence Jones Protein</td>
<td>210</td>
<td>280</td>
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<tr>
<td>Chyluria</td>
<td>114</td>
<td>192</td>
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<td>Porphobilinogen</td>
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<td>5</td>
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<tr>
<td>Urine Cultures</td>
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<td>Strain identifications tests</td>
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<tr>
<td>Antibiotic Sensitivity</td>
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<td><strong>Subtotal</strong></td>
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## 2. Stool Investigations

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<tbody>
<tr>
<td>Wet mount saline</td>
<td>14512</td>
<td>5042</td>
<td>19554</td>
</tr>
<tr>
<td>Wet Iodine stain</td>
<td>14512</td>
<td>5042</td>
<td>19554</td>
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<tr>
<td>Occult blood in stool</td>
<td>2284</td>
<td>1281</td>
<td>3565</td>
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<tr>
<td>Fat globules</td>
<td>406</td>
<td>392</td>
<td>798</td>
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<tr>
<td>Special stains for stool Z-N stain, Modified Z-N stain, Trichrome and chromotape</td>
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### 3. Semen analysis

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<td>Morphology</td>
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<td>Fructose</td>
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<td><strong>Subtotal</strong></td>
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### 4. TB Laboratory

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<td>AR Staining for AFB</td>
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<td>LJ medium culture</td>
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<td>BACTEC MGIT 960</td>
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<td>Drug susceptibility testing by MGIT</td>
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<td>Drug susceptibility testing by Agar</td>
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<td>Proportionate method</td>
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<td>Tetrazolium Microplate assay:</td>
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### B. Specialised Investigations

**Serology & Molecular Biology**

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<td>Toxoplasma gondii IgG</td>
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</tr>
<tr>
<td>Toxoplasma gondii IgM</td>
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<tr>
<td>Rubella IgG</td>
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<td>Rubella IgM</td>
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<td>Cytomegalovirus IgM</td>
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<tr>
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<td>Herpes Simplex virus 2 IgG</td>
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<td>Rubella IgG avidity</td>
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<td>Cytomegalovirus IgG avidity</td>
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<td><strong>Viral Marker &amp; HIV</strong></td>
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<td>Mumps IgM</td>
<td>76</td>
</tr>
<tr>
<td>Varicella IgG</td>
<td>80</td>
</tr>
<tr>
<td>Varicella IgM</td>
<td>58</td>
</tr>
<tr>
<td>EBV IgG</td>
<td>192</td>
</tr>
<tr>
<td>EBV IgM</td>
<td>192</td>
</tr>
<tr>
<td><strong>PCR Tests</strong></td>
<td><strong>20626</strong></td>
</tr>
<tr>
<td>Toxoplasma gondii PCR</td>
<td>15</td>
</tr>
<tr>
<td>Cytomegalovirus PCR</td>
<td>250</td>
</tr>
<tr>
<td>Leishmania PCR</td>
<td>1000</td>
</tr>
<tr>
<td>TB PCR</td>
<td>7219</td>
</tr>
<tr>
<td>HHV-6 PCR</td>
<td>15</td>
</tr>
<tr>
<td>EBV PCR</td>
<td>20</td>
</tr>
<tr>
<td>HSV (192) PCR</td>
<td>25</td>
</tr>
<tr>
<td>CMV (RT PCR)</td>
<td>250</td>
</tr>
<tr>
<td>PCR (Giardia Lamblia)</td>
<td>250</td>
</tr>
<tr>
<td>PCR (E.histolytica)</td>
<td></td>
</tr>
<tr>
<td>PCR (Salmonella spp.)</td>
<td></td>
</tr>
<tr>
<td>Service</td>
<td>Cost</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>--------</td>
</tr>
<tr>
<td>PCR (HAV)</td>
<td></td>
</tr>
<tr>
<td>PCR (Hepatitis E)</td>
<td></td>
</tr>
<tr>
<td>HBV DNA Quantitative</td>
<td>750</td>
</tr>
<tr>
<td>HCV RNA Quantitative</td>
<td>325</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>182</td>
</tr>
<tr>
<td>DNA isolation</td>
<td>10325</td>
</tr>
<tr>
<td>Others</td>
<td>900</td>
</tr>
<tr>
<td>Culturing of Salmonella</td>
<td>120</td>
</tr>
<tr>
<td>Gel Electrophoresis</td>
<td>690</td>
</tr>
<tr>
<td>Sequencing</td>
<td>90</td>
</tr>
<tr>
<td>NASBA</td>
<td>144</td>
</tr>
<tr>
<td>HIV Viral Load</td>
<td>96</td>
</tr>
<tr>
<td>CMV NASBA</td>
<td>48</td>
</tr>
<tr>
<td><strong>Grand Total for the Section</strong></td>
<td><strong>8,44,824</strong></td>
</tr>
</tbody>
</table>

**AWARDS AND HONOURS**

**Dr. A.K. Mukhopadhyay**
1. Dr. A.K..Mukhopadhyay is a member of the Nominating Council of Infosys Science Foundation Awards, 2010.
2. Dr. A.K..Mukhopadhyay is a member of the Nominating Council of 2010 BBVA Foundation Frontiers of Knowledge Awards, Spain.
3. Dr. A.K.Mukhopadhyay is Chairperson of the course curriculum Committee (National Task Force under Director General Health Service, Ministry of Health, Govt. of India) for all Medical Laboratory Technology course in National and Regional Institutes of Paramedical Sciences.

**Dr. M. Irshad**

**Dr. Sarman Singh**
1. Nominated for Padma Shri Award 2010
2. Honored with fellowship of International Medical Sciences Academy
3. Nominated Chairman Institutional Ethics Committee, CARE Foundation, Chennai
4. Nominated Member, Kala-azar Elimination Committee, Govt. of India.
5. Nominated Member Model Rural Health Research Unit (MRHRU), Department of Health Research, Government of India.
6. Government of India nominated Prof. Sarman Singh as its representative for Institutional Animal Ethics Committee for National Institute of Malaria Research, New Delhi; Army Medical College, New Delhi; IGIB, New Delhi and Delhi University.
7. Nominated Expert Committee member for the Task Force of DST, Govt. of India, SERC Division, Fast Track projects.
10. Manuscript Reviewer for Lancet, CID, JMM and other reputed journals.
12. Continues to be the Editor Clinical Medicine insights, Dermatology, Libortas Academy, Australia.

VISITING SCIENTISTS

Prof. Hirosh Kida, Director, Research Centre for Zoonosis control, Japan and Prof. Kamili Saleem from CDC, USA visited the Department.
EDUCATION

The department runs a comprehensive undergraduate and post graduate teaching programme, which includes integrated lectures, seminars, bedside clinical case discussions and journal clubs. The undergraduate students are assessed regularly at the end of each clinical posting.

Prof. Rita Sood

• Conducted & moderated a Panel discussion for undergraduates, along with four senior faculty members from Pediatrics, Surgery & Gynae & Obstetrics - How to be a good doctor? (14th August’09)
• Coordinated Combined Grand Round (CGR) on medical education- Improving Effectiveness of Teaching-learning Methods (9th Feb.10)

Dr. Sanjeev Sinha

• Involved in writing of undergraduate curriculum. Taken ward and OPD teaching of undergraduate, postgraduate and PhD students. Taken lectures for undergraduate and nursing students.

Dr. Anant Mohan

• Regular undergraduate and post graduate theory lectures and clinical bedside case discussions as per roster

CME

Prof. S. K. Sharma organized the following:

• Chairperson for the Medicine Update 2009 in association with Association of Physicians of India (API) Delhi State Chapter at All India Institute of Medical Sciences on August 9th, 2009.

Prof. Rita Sood

• Course faculty for the Second Advanced Workshop for medical teachers, MUHS, Pune April’09. Conducted sessions on Student assessment, Giving effective feedback, One-minute preceptor.
• Third PSG-FAIMER regional institute faculty development program at PSG Medical College, Coimbatore in April’09. Conducted sessions on Student feedback and Project management.

• Resource faculty for GSMC-FAIMER regional institute program 12-14th June, 09 at GSMC & KEM hospital, Mumbai. Facilitated Poster session and ‘One-minute preceptor’.

• Key-note address on ‘Quality in Medical Education’ during the inaugural function of Teachers’ training workshop at Army medical college, Delhi on 21.8.09.

Dr. Sanjeev Sinha

• Organized Medicine Update-2009 held in August, 2009 at AIIMS, New Delhi. (Organizing Secretary).

• Member of organizing committee of Brainstorming Research initiative on “Translational Medicine & Strengthening Biomedical Research in Medical School System in India”. The Research initiative is organized by the AIIMS, DBT & Wellcome Trust, U.K.

Dr. Anant Mohan

• Clinical Tutor / Faculty at the “Basic Bronchoscopy Course” at Royal Preston Hospital, UK, 4th March 2009.

• Member, Organizing Committee of “Medicine Update” in August 2009, AIIMS.

NATIONAL AND INTERNATIONAL CONFERENCES

Lectures delivered

Prof. S. K. Sharma

• Dr. Rabindranath Tagore Oration (2010) - ICP, titled “A decade of original research on obstructive sleep apnoea in India” delivered at the 65th Joint Annual Conference of Association of Physicians of India (APICON 2010), Jaipur on 7th January 2010.

Prof. Rita Sood

• Invited as judge for free paper session to confer Smt. Meena Dhamija award during API, Delhi chapter conference in Nov’09.

• Chaired a session on ‘Controversies in the management of Malaria, Medicine Update, AIIMS, 9.8.09.

• Presented a paper on ‘Structured Internship orientation program’ at International Conference of AMEE (Association Medical Education in Europe) at Malaga, Spain 29th Aug.-2nd Sept.09. Also participated in three workshops during this conference- Leadership and management, learning in a clinical environment and MedEd World Synchronous transnational collaborative learning.

• Participated in DAFFRI (Directors and Faculty of FAIMER Regional Institutes) seminar organized by FAIMER, Philadelphia at Malaga, Spain from 26-27th Sept’09.

• Moderated panel discussion on “Role of educational units in advancing health professions’ education” during National Conference on Health Professions’ education (NCHPE) at Pune in Dec.09.
• Resource person for workshops on ‘Work Based Assessment’ & ‘Standard Setting in Assessment” during NCHPE, Pune, Dec.09.

• Conducted a PG clinic during CME “An unusual case of fever with splenomegaly” during APICON’ 2010 at Jaipur in Jan.10.

• Participated in Conference on ‘Globalization and medical education’ at Bangkok, Thailand along with the Executive Committee Meeting of SEARAME (South east Asian regional Association for Medical Education) on 27-29th March.10.

Prof. Randeep Guleria

• Invited to attend the 3rd International conference “Influenza Vaccines for the world – IVW 2009” to be held at Cannes, France from 27-30th April 2009.

• Invited as resource person and delivered lectures in the short term training in “Tropical & Infectious Diseases” workshop being organized by the BP Koirala Institute of Health Sciences, Dharan, Nepal from 12th to 15th May 2009.

• Attended the Asia Pacific Speaker’s Forum on “Zero Tolerance to Asthma Attacks” with Dr. Jean Bousquet (Professor of Pulmonary Medicine University Monepellier/Hospital Arnoud D Villeneuve Montpellier, France) and Dr. Nan-Shan Zhong (Professor, Guangzhou Institute of Respiratory Diseases Guangzhou, China) in Shanghai, China on 4th and 5th July 2009.

• Invited to attend a workshop as a resource person in the New Delhi on 23rd and 24th July on Pandemic H1N1 flu organized by the Ministry of Health & Family Welfare, Govt. of India, New Delhi.

• Invited to deliver a lecture at the National Media Communication Workshop on Pandemic Influenza and delivered a lecture on “Case Management and Infection Control” on 24th July 2009 at New Delhi organized by Ministry of Health & Family Welfare, Govt. of India.

• Invited to chair a session on “Nuts and Bolts of Management of Bronchial Asthma” at the Medicine Update 2009 at AIIMS, New Delhi held on 9th August 2009.

• Invited to deliver a lecture on “Management of Asthma Exacerbations” at the National Respiratory Update – INSPIRE organized Chest Research Foundation from 27th to 29th August 2009 at Singapore.

• Invited to deliver a lecture on “Managing Bird Flu and Chickunguniya” at the NIHFW, New Delhi on 31st August 2009.

• Invited to participate and deliver a lecture in an International workshop on “Justification of Medical Exposure in Diagnostic Imaging” being jointly organized by the International Atomic Energy Agency (IAEA) and European Commission (EC) in Brussels, Belgium from 2nd to 4th September 2009.

• Invited to deliver a lecture in symposium organized by Ranbaxy Research Foundation on “Is Influenza a serious Disease”? Patient Management” at the IHC, New Delhi on 19th September 2009.
• Invited to chair a session during a seminar on “Multi-Drug Resistant Tuberculosis (MDR –TB) and Lessons Learned from the Epidemic” organized by Indian Medical Association on 15th October 2009.

• Invited as faculty to attend the 24th Annual Pulmonary and Critical Care Update at PGIMER, Chandigarh on 25th October 2009.

• Invited to attend Indo-UK Collaboration in Chronic Diseases organized by the MRC-ICMR, New Delhi from 4-5th November 2009 and deliver a lecture on “Chronic Obstructive Pulmonary Disease, Indian perspective”.

• Invited to deliver a lecture on “Clinical Spectrum of Influenza – like illness” at Mumbai on 14th November 2009

• Invited to deliver a talk in the scientific program on “Increasing medical education and awareness amongst the Consultants in area of Chest Medicine from 21st to 23rd November 2009 at Goa.

• Invited to attend the 1st Influenza External Experts Speaker’s Bureau (EESB) held at New York, from 1-2nd December 2009 organized by the leading International Symposia for the Medical Research Communities.

• Invited to deliver a talk on “Current status of H1N1 – overview” in APICON 2010 at Jaipur, Rajasthan from 7th January 2010.

• Invited to attend and deliver a talk on Sarcoidosis at the CME 2010 organized by the Association of Physicians of India, Meerut Branch on 23rd January 2010.

• Invited to deliver a talk at the CME on Emergencies in Respiratory Medicine on 30-31st January 2010 at Military Hospital, Namkum Ranchi.

Dr. Sanjeev Sinha

• Evidence-Based clinical practice guidelines on adult Immunization. API, 2009. Member of expert group.

• UCLA School of Medicine, Los Angeles, USA (June, 2009). Management of HIV & TB. A Lecture.

• Workshop on ASHA at UCLA, Los Angeles, USA (June, 2009).

• NAMSCON – 2009, Lucknow (Oct, 2009). A presentation & receiving of Membership of NAMS.


• Seminar on “Emerging trends in the Diagnosis & experimental Chemotherapy of Tuberculosis”, at NIPER, Mohali (Dec, 2009). Lecture on Management of HIV/TB.


• APICON – Jan 2010, Jaipur. Moderated a case on Management of HIV.
• BRONCOCON 2010, Agra (Feb, 2010). Lecture on Bronchoscopy in HIV/AIDS.

Dr. Anant Mohan
• Clinical Tutor / Faculty at the “Basic Bronchoscopy Course” at Royal Preston Hospital, UK, 4th March 2009.
• Chairperson at Broncocon, Agra, 5-7th February 2010.
• Lecture on “Non resolving Pneumonia” at National Seminar on Pneumonia, VP Chest Institute, N. Delhi, 13th February 2010.
• Faculty lecture on “Acute Severe Asthma” at the Workshop on Allergy and Asthma at VP Chest Institute, March 11th, 2010.

RESEARCH
Funded Research

Completed
1. A multicenter survey on the prevalence of tuberculosis in India. Prof SK Sharma. Funded by Central TB Division, Ministry of Health and Family Welfare, Nirman Bhavan, Govt. of India, New Delhi for 2007-2010. Funds: Rs. 89.58 lakh.

Ongoing
1. Efficacy and safety of immunomodulator (Mycobacterium w) as an adjunct therapy in Cat II pulmonary tuberculosis long with assessment of Immunological parameters (Double blind, randomized, Placebo controlled, Multicentre Clinical Trial). Prof SK Sharma. Funded by Department of Biotechnology, Ministry of Science & Technology, Government of India and Cadila Pharmaceuticals Ltd for 6 years from 2004-2010. Funds; Rs. 1, 31, 32,000.00
4. Efficacy of thrice weekly intermittent short course antituberculosis chemotherapy in tuberculosis patients with and without HIV infection. Prof SK Sharma. Funded National AIDS Control
5. Role of oral vitamin D as an adjunct therapy in Category I Pulmonary Tuberculosis along with assessment of immunological parameters (Double-blind, Randomized, Placebo-Controlled, Clinical Trial). Prof SK Sharma. Funded by Department of Biotechnology, Ministry of Science and Technology, Govt. of India for 5 years from 2006-2011. Funds: Rs. 90.90 lakhs.

6. Efficacy of oral zinc administration as an adjunct therapy in Category I Pulmonary Tuberculosis along with assessment of immunological parameters (Double-blind, Randomized, Placebo-Controlled, Multicenter Clinical Trial). Prof SK Sharma. Funded by Department of Biotechnology, Ministry of Science and Technology, Govt. of India for 5 years from 2006-2011. Funds: Rs. 63.38 lakhs.

7. Efficacy and safety of immunomodulator $M_w$ as an adjunct therapy in category I pulmonary tuberculosis, along with assessment of immunological parameters (Double-blind, Randomized, Placebo-Controlled, Multicentre Clinical Trial). Prof SK Sharma. Funded by Department of Biotechnology, Ministry of Science and Technology, Govt. of India for 5 years from 2006-2011. Funds: Rs. 76.81 lakhs.

8. Evaluation of the efficacy of thrice weekly DOTS regimen in TB pleural effusion at six months (multicenter project). Prof SK Sharma. Funded by Revised National TB Control Programme NCT of Delhi for 4 years from 2006-2010. Funds: Rs. 14,36,615.00

9. Impact of HIV infection on latent TB among patients with HIV-TB co-infection (Facility has been designated as National Facility). Prof SK Sharma. Funded by Department of Biotechnology, Ministry of Science and Technology, Govt. of India for 4 years from 2007-2011. Funds: Rs. 219.96 lakhs.


12. International, multi-centre, randomized, double blind study to compare the overall mortality in acutely ill medical patients treated with enoxaparin versus placebo in addition to graduated elastic stockings. Prof. S.K. Sharma. Funded by Reliance Clinical Research Services (P) Ltd for 3 years from 2008-2010. Funds: Rs 12,88,502.00

13. Prevalence of metabolic syndrome in obstructive sleep apnea and the effect of treatment with continuous positive airway pressure (CPAP) on metabolic syndrome. Prof SK Sharma. Funded by Pfizer India Ltd for 2 years and 6 months from 2008-2010. Funds: Rs. 16,20,384.00

Funded by Tibotec BVBA, General De Wittelaan LIIB3, Mechelen, Belgium for 3 years from 2008-2011. Funds: Rs. 26,24,460.00

15. Association of OSA with metabolic syndrome, insulin resistance and TNF-á, IL6 and ACE polymorphism. Prof SK Sharma. Funded by Indian Council of Medical Research (ICMR) from 2010-2013. Funds: 46,67,424.00


17. Assessment of nutritional and antioxidant enzyme status in mechanically ventilated critically ill patients. Effects on mortality and strategies for improving nutritional support”. Funding Agency: Department of Science & Technology Duration of project Till September 2009, Dr. Randeep Guleria.

18. “A randomized double-blind placebo controlled exploratory study to assess the safety and efficacy of multiple doses of ACZ885 in COPD” Funding Agency, Novartis India, Duration of project till June 2010, Dr. Randeep Guleria.

19. “An interventional Nutritional study in subjects with Newly Diagnosed Active Tuberculosis (TB), Funding Agency GSK India, duration of project till June 2010, Dr. Randeep Guleria.

20. “Clinical implication of Circulating DNA & Protein markers in lung cancer, Funding agency, ICMR, duration of project till November 2010, Dr. Randeep Guleria.

21. “Genetic, Metabolic and Hormonal Profile in Obstructive Sleep Apnea Syndrome, Funding agency, DST, duration of project till February 2011, Dr. Randeep Guleria.

22. “Serum leptin, nutritional status and inflammatory markers in chronic obstructive pulmonary disease, Relationship with dyspnea and severity of disease” Funding agency ICMR, duration of project till March 2011, Randeep Guleria.

23. “To evaluate the efficacy and safety of fixed dose combination of formoterol and fluticasone dry powder inhaler in the management of partly controlled and uncontrolled Asthma prospective study, Funding agency Novartis, duration of project till April 2009, Dr. Randeep Guleria.

24. “To compare the efficacy of Yoga and Pulmonary rehabilitation on dyspnea, muscle strength, inflammatory markers and quality of life in Patients with chronic obstructive pulmonary disease, funding agency ICMR, duration of project till July 2012, Dr. Randeep Guleria.


29. “Genome Sciences and Predictive Medicine” in collaboration with University of Delhi. Funding agency: DBT till 2013. Dr Uma Kumar


35. A Study of Patients in Resource-Limited Areas with Cancer who also have HIV. Funded by NCI, NIH, USA. Dr. Sanjeev Sinha, AIIMS January 2010-December 2011, Cost- 5 Lacs.


37. Study of the variability in systemic inflammation in patients with chronic obstructive pulmonary disease due to smoking and non-smoking related causes. Indian Council of Medical Research; Funds: 28.0 lakhs (2009-2012). Anant Mohan

**Departmental Research**

**Completed**

1. Study of Mycobacteremia in patients with extra pulmonary and disseminated tuberculosis. (Lab medicine)

2. “Assessment of quality of life in-patient with lung cancer”

3. “Predictors of mortality and morbidity in patients admitted with acute exacerbation of COPD

4. Cognitive dysfunction in systemic lupus erythematosus

AIIMS 2009-2010 / 283
5. Clinical and radiographic hand abnormalities in patients with systemic sclerosis and their correlation with systemic features of the disease


7. Study of the prognostic utility of various inflammatory markers in patients with acute exacerbation of chronic obstructive pulmonary disease.

**Ongoing**

1. Study of acute febrile illnesses with cytopenias (haematology)
2. Study of mycobacteremia in miliary tuberculosis (Lab Medicine)
3. “Lactate dehydrogenase and alkaline phosphates levels in Bronchoalveolar Lavage fluid of patients with sarcoidosis”
4. “Assessment of quality of life in COPD”
5. “Assessment of quality of life in Asthma patients”
6. Gastrointestinal manifestations in systemic sclerosis
7. A randomized controlled trial to compare the efficacy of different treatment regimens in early rheumatoid arthritis.
8. Determinants of Mortality and Morbidity in patients with Sepsis in the Medical ICU.

**Collaborative**

**Completed**

1. Effect of IFN-\(\alpha\) and immune complex on neutrophil-CR1 transcript and its relationship with CR1 density polymorphism. (Collaboration with Biochemistry).

**Ongoing**

1. Preparation and Quality Control of 188Re-Labeled Tin Colloid for the Treatment of Refractory Inflammatory Arthritis in Collaboration with Nuclear Medicine.
2. Effects of Home Based Exercise Therapy on Spinal Mobility, Fatigue, Quality of life, Disease activity and Functional capacity in Patients with Ankylosing Spondylitis in Collaboration with Physical Medicine Rehabilitation (PMR).
3. A Study of the Clinico Histopathological Features of Erythematous tender Nodules Predominantly involving the extremities in collaboration with Dermatology.
4. Tacrolimus as induction therapy for proliferative lupus nephritis in collaboration with Nephrology.
5. Genetic Analysis of Psoriasis and Psoriatic Arthritis in Indian- Indo US project (collaboration with Dermatology)
6. Expression and modulation of complement receptors: significance in the pathophysiology and prognosis of autoimmune disorders. (Collaboration with Biochemistry).
PUBLICATIONS

Journals


3. Ellwood P, Williams H, Aït-Khaled N, Björkstén B, Robertson C and the ISAAC Phase III Study Group. Translation of questions: the International Study of Asthma and Allergies in Childhood (ISAAC) experience. *Int J Tuberc Lung Dis* 13:1174–82. [Professor SK Sharma was the Principal Investigator for the study from India (name listed in the Appendix in online supplement)]


8. Ellwood P, Asher MI, Stewart AW and the ISAAC Phase III Study Group. The impact of the method of consent on response rates in the ISAAC time trends study. *Int J Tuberc Lung Dis* 2010;14:1059–65. [Professor SK Sharma was the Principal Investigator for the study from India (name listed in the Appendix in online supplement)]


63. NR Jagannathan, S. Sinha. Cerebral Metabolism in Obstructive Sleep Apnea: An In-Vivo Proton MRS Study. 17th ISMRS meeting, 18-24 April, 2009. Hawaii, USA.


**Chapters in Books**


4. Guleria R: Influenza is a serious illness? Management Issues; Round Table Conference Series Number 23 September, 2009, Pandemic Influenza Update, Ranbaxy Science Foundation, New Delhi India.


**Book Review**

PATIENT CARE

Chest Clinic (Friday 2:00 pm)
   New Cases 1903
   Old Cases 4245
   Total 6148

Infectious Diseases Clinic (Monday 2:00 pm)
   New patients 157
   Old patients 209
   Total 366

Antiretroviral center
   Total registered till date 5339
   ART started till date 2011
   On ART and regular follow-up till date 1165
   ART started 2009-2010 300

AIIMS DOTS CENTRE
   Total Patients on DOTS 147
   CAT I 103
   CAT II 33
   CAT III 11

Laboratories
(A) Respiratory laboratory
   Spirometry procedures 7504
   Diffusion capacity estimation 479
   Body Box (Plethysmography) measurements 202
   Oxymetries 1204
   Maximum Voluntary Ventilation 291
   Arterial Blood Gas Analysis 1655

B) Bronchoscopy Laboratory
   Fiberoptic bronchoscopy procedures 829

(C) Sleep laboratory
   Polysomnography studies 289
   Continuous positive airway pressure (CPAP) titration 171

(D) ADA/ACE laboratory
   Adenosine deaminase tests 280
   Angioteninsm Converting Enzymes ACE tests 170

(E) RNTCP
   Sputum investigation performed 2856

(F) DOTS PLUS
   Drug Susceptibility Test 80
**AWARDS, HONOURS AND SIGNIFICANT EVENTS**

**Professor SK Sharma** received following honors: Indian Council of Medical Research Basanti Devi Amir Chand prize in Clinical Research, First Prize of British Medical Association Medical Boom Awards for Davidson’s Clinical Cases, Rabindranath Tagore Oration – 2010 of Indian College of Physicians (ICP) of the Association of Physicians of India (API).

He is a Fellow, Indian Academy of Sciences, Bangalore since January 2010. Professor SK Sharma continues to be a member of Indian Chest Society, American Thoracic Society, National Academy of Medical Sciences of India, Association of Physicians of India, International Union Against Tuberculosis and Lung Diseases, Indian Association of Sarcoidosis and other Granulomatous Disorders (IASOG), Indian Society of Critical Care Medicine, Word Lung Health (initiative of International Union Against Tuberculosis and Lung Diseases IUATLD). He is the Vice President of Society for Tobacco Control (STC) of India since 2010.

He is editor of Indian Journal of Chest Diseases and Allied Sciences continuing *since 2001 till date*, Section editor of Lung India since 2010, Associate editor of Indian Journal of Tuberculosis (IJT) since 2006 till date. He is a member of Editorial Board of Indian Journal of Sleep Medicine since 2005 till date, Chest (American College of Chest Physicians) since 2006 till date, The Open Tropical Medicine Journal since 2008, Indian Journal of Medical Research since 2009.

He is a member of International Advisory Board, Davidson’s Principles and Practice of Medicine (21st edition), Journal of Association Physician of India (Pulmonary Section), 2009.

Professor SK Sharma continues to be the reviewer for the following journals: The Lancet, The Lancet Infectious Disease, American Journal of Respiratory and Critical Care Medicine (Blue Journal), Chest (American College of Chest Physicians), Indian Journal of Tuberculosis, Indian Journal of Chest Diseases and Allied Sciences, Indian Journal of Medical Research, Infection Genetics and Evolution, World Journal of Surgical Oncology, Clinica Chimica Acta, Pharmacological Research, Respiration, Journal of Laboratory and Clinical Medicine, Biomedcentral Infectious Disease, Journal of Molecular and Cellular Proteomics, Cytokine, Respiratory Medicine, Respirrology, Sleep Medicine, Expert Review of Respiratory Medicine, Allergologia et Immunopathological.

Professor SK Sharma continues to be the Member of Scientific Advisory Committee of Infectious Diseases, Indian Council of Medical Research since 2004; World Lung Health [initiative of International Union Against Tuberculosis and Lung Diseases (IUATLD)] since 2004; He has been appointed as a Co-ordinator of IMPACT (Indian Medical Professional Association’s Coalition Against Tuberculosis) on behalf of the Association of Physicians of India (API) to fight jointly against tuberculosis by forming a coalition for a period of 5 years from year 2008.

He continues to be the Chairperson of National Task Force on Involvement of Medical Colleges in TB Control Programme of India, Ministry of Health and Family Welfare, Govt. of India; DOTS Plus Committee of Ministry of Health and Family Welfare, Govt. of India for MDR-TB; Central Standing Committee for Operational Research on RNTCP related project, Ministry of Health & Family Welfare, Govt. of India.

He is an Expert member for Drugs Technical Advisory Board (DTAB) to examine continued marketing of certain drug formulations reported to be prohibited or restricted in other countries, 2010. He was member of Selection process for ICMR awards, Indian Council of Medical Research, New Delhi,
2009. He continues to be a member of Board of study, H.P. University, Shimla since 2008 and the Governing body of Lala Ram Sarup Institute of Tuberculosis and Respiratory Diseases, Ministry of Health & Family Welfare, Govt. of India since 2008.

Prof. Rita Sood was invited as Global Faculty Advisor by FAIMER (Foundation for the Advancement of International Medical Education and Research), Philadelphia, USA during the FAIMER Institute Program in Oct.09. She was Nominated Policy group member of ASME (Association for Study of Medical Education), UK in Nov.09. She was invited as a expert for selection of faculty by Guru Gobind Singh University Sept’09. She was invited as ‘Advisor’ by UPSC for personality tests of candidates for combined civil services examination in Sept.09. She was a Member of Selection Committee for selection of faculty at UCMS, Delhi and Pt BD Sharma Institute of Medical sciences, Rohtak, in Aug.09.

She was an Expert for selection of DNB candidates, MAMC, New Delhi in Aug.09. She was a Member of expert group MCI for Development of curriculum for advanced course for Regional centre for faculty development in medical education July.09. She was a member of International Advisory board. She was a member of Executive committee of SEARAME. She was in Faculty council, Indian college of Physicians, API. She was a Member of Editorial board SEAJME, JIACM. She was a Member of Advisory board of JAPI & International Journal of Advances in Medical Education and Practice. She was a Reviewers of Medical Education, Medical teacher, PG Medical journal, JAPI, IJMR, and NMJI. She was a Chairperson for both final MBBS & MD Medicine examination at AIIMS May’09. She was an External examiner for oral defense of thesis for MHPE program at AGU, Bahrain, June, 09.

Prof. Randeep Guleria has been the External Examiner for M.D. (Medicine) PGIMER, Chandigarh on 2nd & 3rd May 2009. He has been the External Examiner for M.D. (Medicine) Institute of Medicine, Kathmandu on 10th & 11th May 2009. He was a Chairman of the Centralised Drugs Selection Committee of AIIMS. He was Member of the Hospital Stores Purchase Committee of AIIMS.

He has been the External Examiner for M.D. (Medicine) Institute of Medicine, Kathmandu from 14th to 16th September 2009. He has been appointed as an Inspector to carry inspection of physical and other teaching facilities available at Santosh Medical College, Ghaziabad for the purpose of recognition of MD (General Medicine) on 16th October 2009. He has been the External Examiner for M.D. (Medicine) Postgraduate Institute of Medical Education & Research, Chandigarh from 12-13th December 2009.

He has been nominated a member of the Scientific Advisory Committee (SAC) of National Institute of Virology. He has been nominated as a member of the UGC Expert committee to review the functioning of the Santosh University, Ghaziabad. He has been the External Examiner for MBBS final Practical examinations of Sher-I-Kashmir, Institute of Medical Sciences, held on 12th & 13th January 2010.

Dr. Randeep Guleria was invited to inaugurate the program “Orientation programme (OR-62)” from March 2nd to 30th March 2010 for University and college teachers at the Centre for professional development in higher studies, Institute of Life Long Learning, University of Delhi.

Dr. Uma Kumar was nominated on the planning & monitoring board of JSS University, Mysore, Karnataka by UGC. She was elected as a fellow of the IMSA WHQ in 2009. She was elected as a
fellow of the Indian Association of Clinical Medicine in 2009. She was also elected as Task force member by DGHS, Ministry of Health & Family Welfare to prepare operational guidelines on Chikungunya fever.

She was awarded WHO fellowship for the year 2009-2010. She was nominated on the advisory committee of D. Y. Patil University, Kolhapur Karnataka for three years by UGC. She was also nominated on the advisory board of Sri Balaji Vidyapeeth, Puduchery. She was Elected Honorary secretary of Delhi Rheumatology Association for year 2010-2012. She was invited to review the articles for the Journal “Clinical and Experimental Rheumatology. She was Awarded Smt. Pawan Kumari Jain Oration by Delhi Chapter of API.

**Dr. Sanjeev Sinha** was a member of Association of Physician of India. He was a Member of Indiaclen, Member of National Academy of Medical Sciences (MNAMS), Member of Indian Chest Society and Member of Indian Thyroid Society.

He was awarded “Membership Award for National Academy of Medical Sciences, New Delhi. He was Member of Medical Board Antarctica Expedition, Govt. of India, Goa. He was also a Member of scientific committee, NACO, Ministry of Health & FW, Govt. of India,

**Dr. Anant Mohan** was nominated and awarded “Membership of the National Academy of Medical Sciences”, Nov, 2009. He continues to be reviewer for New England Journal of Medicine, Annals of Oncology, International Journal of Tuberculosis and Lung Disease, Postgraduate Medical Journal, Journal of Supportive Care in Cancer, Indian Journal of Medical and Pediatric Oncology.
9.18 Microbiology

Professor and Head
J.C. Samantaray

Professors
S. Broor
R. Chaudhry
A. Kapil

Additional Professors
B.R. Mirdha
B.K. Das
L.Dar

Associate Professors
B. Dhawan
M. Vajpayee
I. Xess

Assistant Professor
S. Sood
U.B. Singh

EDUCATION

A. Department is involved in teaching for Undergraduate medical students, BSc Nursing students and M. Sc Biotechnology students. Also provides Postgraduate training for MD Microbiology.

B. A total of 16 individuals worked in the Dept. of Microbiology from April 2009 to March 2010 as short term trainees for various periods from one month to 6 months.

Continuing Medical Education (CME)

Dr. Shobha Broor organized a CME in collaboration with dept. of Medicine on ‘Pandemic Influenza’ on 29th May at AIIMS

Dr. Rama Chaudhry organized a Hands on Workshop on “Anaerobes- Cultivation and Identification” under the aegis of MICRO- D- CON 2010, 2nd Annual Conference IAMM Delhi Chapter on 12th March 2010.

Dr. Arti Kapil delivered a talk on “Role of a Microbiologist in Infection Control” during a Hospital epidemiology workshop organized on 21st -23rd Sept, 2009 at CMC, Vellore in collaboration with SHEA, USA, “Recent Advances in the Diagnosis of ICU Infections” “during a CME on Critical Care organized on 21st, Nov ,2009 at SGPGI, Lucknow and “Antimicrobial Resistance- from bench to Bedside” as a part of CME program of PAN-African e-network project on 18th March,2010.

Dr. Lalit Dar organized a pre-conference workshop session on PCR and reverse hybridization for HPV detection and genotyping during the Asia Oceania Research Organization on Genital Infections and Neoplasia (AOGIN) conference at New Delhi on 25 March 2010.

Dr. B.R. Mirdha, Executive Member of Indian Association of Medical Microbiology (Delhi Chapter) was the Co-organizer of 2nd Annual Conference of Indian Association of Medical Microbiologists on March 12 &13, 2010, Co-organizer of “3rd National Conference on Infectious Diseases” held at AIIMS in April, 2010.

**National and International Conferences**

XXIII Round Table Conference on “Pandemic Influenza Update”. Organized in collaboration with Ranbaxy Science Foundation on 19th September, 2009 at India Habitat Centre, New Delhi.

**Lectures delivered**

Dr. Shobha Broor

1. ‘Role of viruses in respiratory infections’ during a CME on “Respiratory infections and Microbes on 28th August, 2009 at KMC, Manipal University, Manipal.


3. XXIII Round Table Conference on “Pandemic Influenza Update” on 19th September, 2009 at India Habitat Centre, New Delhi.

4. “Round Table Consultation on Exploring and Building Consensus on Disease Control in India” from 26th to 28th October, 2009 at New Delhi.

5. Chaired the session during the XXXIII National Conference of Indian Association of Medical Microbiologists at JSS Medical College, Mysore from 3rd to 8th November, 2009.

6. CDC -WHO and South East Asia Region group meeting on influenza surveillance and pandemic influenza held at Kochi from 22 to 26th February 2010

7. 8th National Conference of Society for Indian Human and Animal Mycologists from 4th to 6th March, 2010 held at the All India Institute of Medical Sciences.


10. Chaired the session on Swine Flu during the Daily Chapter meeting of IAMM held at Batra Hospital on 25th July, 2009.

Dr. Arti Kapil

1. Delivered a guest lecture on “Biomedical waste generation sources” during a National workshop-cum-conference held on 10th -11th Sept, 2009 in New Delhi by IIT-GOI.


3. Health care Associated Infections” during a short term training program for AFMC and NIHFW students held on 30th Oct 2009 at AIIMS, New Delhi.
4. “Recent Advances in the Diagnosis of ICU Infections” during a CME on Critical Care organized on 21st, Nov, 2009 at SGPGI, Lucknow.


6. Planning and Organizing of Laboratory Services” during Training course of Hospital Administrators organized on 24th March, 2010 at NIHFW, New Delhi.

Dr. B.R. Mirdha

1. “Pneumocystis carinii to Pneumocystis jirovecii”: One hundred and one years of progress” on 19th March, 2010 at Sri Venketeswara Institute of Medical Sciences (SVIMS), Tirupati, Andhra Pradesh.

Dr. B.K. Das

1. ‘tPA - pneumolysin DNA construct as a vaccine candidate – An immune response study’ at the 7th International Symposium on Pneumococci and Pneumococcal Diseases Tel Aviv, Israel, March 14-18, 2010


Dr. Lalit Dar


Dr. Immaculata Xess

1. “Changing trends in blood stream Candida infections” CME under Society for Human and Animal Mycologists in RP Centre All India Institute of Medical Sciences New Delhi10th of April 2009.

2. “CNS Aspergillosis” in 8th National conference Society for Human and Animal Mycologists in All India Institute of Medical Sciences New Delhi on 5th March 2010

RESEARCH
Funded Projects

Completed

1. An RNA interference based approach to study the simultaneous inhibition of RSV and hMPV. Broor S, Dar L. 2007-2009. Funded by DBT. Funds: Rs. 35.26 lacs


4. Noroviral infections in pediatric acute gastroenteritis and asymptomatic children”. Broor S. Funded by ICMR and CDC (USA). Funds : 5.34 lakhs
5. Detection and Identification of Thermophillic Campylobacter Spp. (*C. jejuni, C.coli, C.upsaliensis and C.lari*) and Molecular Sub-Typing of Campylobacter jejuni in Fecal Samples of Diarrheic Patients and in Food samples Using PCR, PCR-RFLP and PFGE”. R. Chaudhry. 2007-2010 Funded by ICMR. Funds: 17 lakhs


9. Pneumococcal surface protein A (Psa A) tPA DNA construct as vaccine Candidate against *Str. Pneumonia*. Das B.K. Funded by DST. Funds: Rs.23 lakhs.

**Ongoing**


10. LAMP as Point-of-Care Test for Gonorrhoea. Sood S. 2009-2010. Funded by Min. of Science & Technology, DBT. Funds: Rs. 14.05 lakhs.


15. Pneumolysin (Ply) -tpA DNA construct as a vaccine candidate against *Streptococcus pneumoniae*. Das B.K. 2007-2010. Funded by DST. Funds: Rs.20 lakhs

**Departmental Projects**

**Completed**

1. Antigenic and molecular characterization of human influenza virus strains from acute respiratory infections

**Ongoing**

1. Study of inhibition of respiratory syncytial virus and human metapneumovirus multiplication by RNA interference in tissue culture and animal model


3. Genetic variability of human caliciviruses from cases of sporadic acute gastroenteritis.

4. Detection and genotyping of human cytomegalovirus from renal transplant recipients

5. Detection and typing of 37 human papillomavirus types by PCR and reverse hybridization Sequencing and phylogenetic analysis of dengue and chikungunya virus strains from Delhi.

6. Molecular characterization of *Giardia intestinalis* isolates and study of genotype - clinical phenotype correlation.

**Collaborative Research**

**Completed**

1. Administration of *Lactobacillus rhamnosus* GG for the prevention and treatment of *Clostridium difficile* infection and subsequent diarrhea in Indian population (with The Energy Research Institute [TERI] )
**Ongoing**

1. Addressing Emerging Infectious Diseases in the republic of India : Influenza Disease ( with Community Medicine)
2. Enhanced surveillance for pandemic H1 N1 of swine lineage a multisite study (with Pediatrics and Internal medicine)
3. Direct and indirect protection by influenza vaccine given to children in India (with Community Medicine)
4. Multisite monitoring of human influenza in India –phase II (with Health human Services USA)
5. Cloning and expression of Respiratory syncytial virus G protein in bacterial and mammalian expression vector (with Jamia Millia Islamia)
6. Development of Nanosilver Nanohydrogels for Biomedical Applications (with Chemical Engineering, IIT)
7. A multicentric study of clinical and Microbiological profile of community- acquired pneumonia (CAP) in Indian patients (with Medicine)
8. A comparative study of effectiveness of immunotherapy with intralesional injection of Mycobacterium W vaccine in clinical resolution of external anogenital warts and reduction of viral load: A randomized trial (with Dermatology)
9. Determination of mechanisms of resistance to Diagnosis of genital tuberculosis in infertile women and the effect of antitubercular therapy (with Obstetrics and Gynaecology)

**PUBLICATIONS**

**Journals**


**Books**


**Chapters in Books**


PATIENT CARE

Bacteriology

Bacteriology Laboratory

Clinical samples
- Pus 28,500
- Urine 28,560
- Blood 39,891
- Sputum/ Throat/Tracheal swabs 22,920
- CSF 9,735
- Stool 0 855
Total 1,30,461

Antimicrobial susceptibility testing
- Urine 6,890
- Blood 10,441
- Throat swabs, Sputum, BAL, Tracheal secretions, ET tips etc. 11,772
- Pus , Tissue, catheter tips, Wound swabs, etc 15,222
- CSF & sterile fluids 780
- Stool 120
Total 45,225

Hospital Infection Control and Water testing Laboratory
- Water sample 1158
- Environmental sterility test 7667
- Air sampled (MSA) 4278
- In-use test 1478
- Samples received from Central sterile supply Department for sterility testing (CSSD) 1616
Total No. 16,197

Serology Laboratory
- Widal 5966
- VDRL 7942
- ASLO 36
- TPHA 68
Total 14,012

Sexually Transmitted Disease

Clinical samples
- High vaginal swabs (HVS) 281
- Semen 465
- Expressed prostatic secretions (EPS) 85
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<thead>
<tr>
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<th>Count</th>
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<tr>
<td>Urethral discharge</td>
<td>02</td>
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<tr>
<td>Cervical discharge</td>
<td>05</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>838</strong></td>
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**Antimicrobial susceptibility testing**

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<tr>
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<td>Semen</td>
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<tr>
<td>EPS</td>
<td>15</td>
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<tr>
<td>Urethral discharge</td>
<td>-</td>
</tr>
<tr>
<td>Cervical discharge</td>
<td>-</td>
</tr>
<tr>
<td><strong>Total No.</strong></td>
<td><strong>122</strong></td>
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**Anaerobic Bacteriology**

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<tbody>
<tr>
<td>Anaerobic culture</td>
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<tr>
<td>Antimicrobial sensitivity</td>
<td>—</td>
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<tr>
<td>Stool culture for <em>C. difficile</em></td>
<td>176</td>
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<tr>
<td>ELISA for <em>C. difficile</em> toxin</td>
<td>176</td>
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<tr>
<td>Leptospira culture</td>
<td>128</td>
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<tr>
<td>Leptospira serology for IgM antibodies</td>
<td>128</td>
</tr>
<tr>
<td>By ELISA</td>
<td>128</td>
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<tr>
<td><em>Campylobacter jejuni</em> Culture</td>
<td>42</td>
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<tr>
<td><em>Legionella pneumophilla</em> By ELISA</td>
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**Polymerase Chain Reaction**

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<tr>
<td>for <em>Leptospira</em></td>
<td>-</td>
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<tr>
<td>for <em>Legionella pneumophilla</em></td>
<td>-</td>
</tr>
<tr>
<td>for <em>Campylobacter jejuni</em></td>
<td>42</td>
</tr>
<tr>
<td>for <em>C. difficile</em></td>
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**Mycoplasma**

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<tbody>
<tr>
<td>Mycoplasma pneumoniae <em>IgM, IgG, IgA antibodies by ELISA</em></td>
<td>67</td>
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<tr>
<td>Mycoplasma pneumoniae culture</td>
<td>67</td>
</tr>
<tr>
<td><em>Mycoplasma hominis</em> culture</td>
<td>281</td>
</tr>
<tr>
<td><em>Ureaplasma urealyticum</em> culture</td>
<td>281</td>
</tr>
<tr>
<td>Antibiotic Susceptibility</td>
<td></td>
</tr>
<tr>
<td>for <em>Mycoplasma hominis</em></td>
<td>11</td>
</tr>
<tr>
<td>for <em>Ureaplasma urealyticum</em></td>
<td>33</td>
</tr>
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</table>

**Chlamydia pneumoniae**

<table>
<thead>
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<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>By ELISA</td>
<td>-</td>
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</tbody>
</table>

**Polymerase Chain Reaction**

<table>
<thead>
<tr>
<th>Test</th>
<th>Count</th>
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</thead>
<tbody>
<tr>
<td>for <em>Mycoplasma pneumoniae</em></td>
<td>289</td>
</tr>
<tr>
<td>for <em>Mycoplasma hominis</em></td>
<td>281</td>
</tr>
<tr>
<td>for <em>Ureaplasma urealyticum</em></td>
<td>281</td>
</tr>
</tbody>
</table>
for *C. trachomatis* 281
**Total** 3377

**Parasitology Laboratory**

Serological Investigation

*Toxoplasma gondii* serology for IgG antibodies by ELISA 14
Hydatid diseases serology by Indirect haemagglutination test 136
Amoebic serology of IgG antibodies by ELISA 173

**Investigation for Malaria**

Fluorescent staining (Acridine Orange) 3201
Giemsa staining 3201
Quantitative Buffy Coat (QBC) Assay 1003
HRP-II Antigen Detection 516

**Investigation for Kala-Azar**

Fluorescent staining (Acridine Orange) 97
Giemsa staining 97
Quantitative Buffy Coat (QBC) Assay 20
Kala-azar serology (rk-39) 334
Aldehyde test 334

**Examination of fecal sample for Intestinal Parasitosis**

Direct and concentration 3151
Culture 20
Modified Acid-fast and special staining for intestinal coccidian 3151
Tissue specimens (homogenates) 36

**Examinations of aspirates**

Sputum, pus and others 54

**Investigation for Filariasis**

Direct and Concentration 78
Acridine Orange 78
Thin & Thick Smear 78
Hetrazan provocative test 17

**Other Investigations**

Broncho-alveolar lavage (BAL), Induced sputum, 208
Tracheal aspirate, Nasopharyngeal aspirates for *Pneumocystis jiroveci* infection
Cerebrospinal fluid examination for free living amoebae 52

**Total** 16,049

**Tuberculosis Laboratory**

Samples processed for ZN Smear & Culture on LJ medium 9,900
Samples inoculated for Rapid Culture on BACTEC 3,185
Anti-tubercular Drug Sensitivity done on BACTEC 880
PCR for *Mycobacterium tuberculosis* 3,470
**Total** 17,435

Virology Laboratory including HIV laboratory

**Culture and identification**
- HSV, Dengue, Chikungunya etc. 15

**Viral Serology**
- HSV and measles CFT (Serum and CSF) 118
- Dengue ELISA 907
- Chikungunya ELISA 14

**PCR**
- Dengue 10
- HSV 156
- CMV 136

**Real-Time PCR**
- Influenza (including novel H1N1) 2622
- CMV Antigen detection (pp65) 10
- Miscellaneous (Tzanck smear) 25

**Total** 4013

**Immunology Laboratory**
- HIV Diagnostic serology 4210
- CD4/CD3 counts (referred from ART Clinic) 4336
- CD4/CD8 counts (immunodeficiency cases): 135
- HIV DNA PCR: 74

**Total** 8755

**Mycology and ICP Laboratory**
- BAL 1426
- Urine 1848
- CSF 594
- Sputum 53
- Swab 128
- Pus 275
- Miscellaneous 645
- Tissue/Biopsy 229
- Nail/Hair/skin 109
- Bone Marrow 134
- Blood 2008
Fungal serology
Cryptococcus serology 201
Aspergillus serology 39
Histoplasma serology 17
**Total** 7706

**Tuberculosis Laboratory**
Samples processed for ZN Smear & Culture on LJ medium 9,233
Samples inoculated for Rapid Culture on BACTEC 4,560
Anti-tubercular Drug Sensitivity done on BACTEC 880
PCR for *Mycobacterium tuberculosis* 3,070
**Total** 17,743

**AWARDS and HONOURS**

1. **Dr. Shobha Broor** has been nominated for the fellow of Indian Virological Society. She is the member of the following national committees: Scientific Advisory Group on Communicable diseases ICMR, member of the Committee of ICMR for “Establishment of New Virology Laboratories in the Country”, Committee for procurement of Kits of National vector Borne Disease Control Programme of Govt. of India, Member Joint Monitoring Group on Avian Influenza of Ministry of Health, Member Technical Screening Committee for Biotechnology Industrial Partnership Programme on Influenza Vaccine Development.

2. **Dr. Rama Chaudhry** was awarded the Dr. R Sengupta and Dr. A.M. Saoji Memorial Prize for Best paper in Immunology - Title: Cloning and expression of Mycoplasma pneumoniae P1 gene fragments and its role in cytadherence”. B.K. Chourasia, R. Chaudhary, P. Malhotra, at the XXXIII National Conference of IAMM held in JSS Medical College, Mysore from 3-9th November 2009.

3. **Dr. Arti Kapil** was the member of the central technical committee of the NABL April 2009, Department of Science and Technology. She was nominated as a subject expert in the “expert group meeting on National Essential Drug List” by the Central Drugs Standards Control Organization, Ministry of Health, Govt. of India. Member of the working group on “Scientific Evaluation of Sterilization Practices in India” constituted by the Office of the Principal Scientific Adviser, Govt. of India.

4. **Dr. B.R Mirdha** was elected as Editorial Board member of the official Journal of Indian Academy of Tropical Parasitology, held at PGIMER, Chandigarh during 16th - 19th November, 2009, Dr. B. R. Mirdha was elected as the member of IndiaCLEN in March,2010.

5. **Dr. Lalit Dar** was invited as a Technical Expert by the International Atomic Energy Agency (IAEA), Vienna, for IAEA project-related meetings in Kenya, Thailand and Austria. Dr. Lalit Dar is a member of the following national committees: HIV Technical Resource Group (Laboratories) of the National AIDS Control Organization (NACO), Project Evaluation Committee of the Central for Research on Homoeopathy (CCRH), Department of AYUSH, Min. of Health and Family Welfare, Govt. of India, Ethics Committee of the National Brain Research Institute, Dr. Lalit Dar is a Lead Assessor for the National Accreditation Board for Testing and Calibration Laboratories (NABL).
VISITING SCIENTISTS

Dr. Suresh Boppana, from University of Alabama at Birmingham, USA visited the department in 2009.

Dr. Suman Laal, Associate Professor of Pathology & Microbiology, Dept. of Pathology (Experimental) & Microbiology, New York University School of Medicine, New York, 10016, visited the lab.
EDUCATION

Long Term Training

Department runs DM Nephrology, a 3-year degree course for post MD (Medicine) candidate, who get selected by AIIMS on the basis of merit by all India entrance examination. Three candidates were admitted to DM Course during this period. Postgraduates in internal medicine are posted on rotational basis for a short period of one to two months. At present the department has eleven DM students.

Short Term Training

Department is providing short-term training for following:

1. Department is allowing doctors from Army hospital (R & R) for attending teaching schedule of the department.

2. Perfusionist trainees from Cardiovascular Anesthesia were exposed to dialysis to take care in part of patients in cardiovascular ICUs for dialysis.

3. Senior resident enrolled for M.Ch. urology are rotated in the department on regular basis for their exposure in nephrology as part of their curriculum for M.Ch.

4. Students from M.Sc. nursing in nephrology are given training in nephrology nursing in the department on regular basis.

5. Three WHO fellow Dr. RI Chol Jun, Dr. Jo Song Chol and Dr. Kim Ram Song were taken as observer in the department

CME (Conferences, Seminars, Workshops)

Lectures delivered

Dr S.K. Agarwal

1. “CKD in India” during 4th National conference of Indian Academy of Nephrology on 24th and 25th April 2009 at Chennai.

2. “Anaemia in CKD” during annual CME of East Delhi Branch of Indian Medical Association held on 14th June 2009.

3. Plenary Lecture during ISN East Zone Annual conference on ‘HCV Management in Renal Replacement Therapy’ held at Patna on 7th and 8th Nov 2009

5. “CKD Magnitude and Prevention in India” during 65th annual conference of association of Physician of India held on 8th to 10th Jan 2010 at Jaipur.


8. “CKD and its Management” on CME Program of PAN-African e-network project on 8th March 2010 between 4-5 PM, from AIIMS telemedicine unit.

Dr D. Bhowmik

1. Acute Kidney Injury – Current Concepts at Eastern Command Hospital, Kolkata

Dr S. Mahajan

1. Automated peritoneal dialysis. The Annual Conference of Peritoneal Dialysis & West Zone ISN held at Goa in September 2009

2. Lupus Nephritis Facts and fiction. Rheumatology Update organized by department of Medicine, AIIMS, October 2009

3. Renal support in critically ill. Medicine Update organized by department of Medicine, Maulana Azad Medical College, December 2009


RESEARCH

Funded projects

A) Validation and development of predicting formula for measuring GFR in Indian adults (Ongoing)
   Investigator: Dr SK Agarwal (Principal Investigator)
   Funding Agency: ICMR, New Delhi
   Total funding: 17 Lakhs
   Duration of Project: Aug 2006 – continuing

B) Assessment of QuantiFERON test for the diagnosis of latent TB in renal replacement therapy (Ongoing)
   Investigator: Dr SK Agarwal (Principal Investigator)
   Funding Agency: ICMR, New Delhi
   Total funding: 11 Lakhs
   Duration of Project: May 2007 – May 2010

C) A Randomised double blind placebo controlled four arm parallel group multicentric multinational trial comparing weekly intravenous administration of Abetimus to weekly intravenous
administration of placebo in patients with a history of SLE related renal disease. Funded by Lajolla Pharmaceutical Company California, USA (Ongoing)
Investigator: Dr SK Agarwal (Principal Investigator)
Funding Agency: Lajolla Pharmaceutical Company California, USA
Total funding: 12 Lakhs
Duration of Project: Feb 2007 – Continuing

D) “Detection of HCV core antigen (HCVc-Ag) for Diagnostic Screening of HCV Infection in Patients on Maintenance Hemodialysis’ (Ongoing)
Investigator: Dr SK Agarwal (Principal Investigator)
Funding Agency: ICMR, New Delhi
Total funding: 27 Lakhs
Duration of Project: Nov 2007 – Nov 2010

E) “An open randomised prospective phase-III clinical trial to evaluate the efficacy and safety of cinacalcet versus Calcitriol in the treatment of secondary hyperparathyroidism (Ongoing)
Investigator: Dr SK Agarwal (Principal Investigator)
Funding Agency: Macleod India
Total funding: 30,000 + All facilities for drug and investigation
Duration of Project: Jan 2009 – June 2010

Departmental Projects

Completed
1. Costing of hemodialysis procedure at AIIMS, New Delhi (Hospital administration).
2. Pegylated Interferon monotherapy in HCV positive patients on maintenance hemodialysis
3. Impact of HCV treatment in patients following renal transplantation
5. Role anti HLA antibodies in renal allograft dysfunction
6. Study of physiological parameters in living kidney donors – pre and post donation
7. Assessment of vascular functions in patients with chronic kidney disease
8. Study to assess interdialytic and intradialytic pain in patients undergoing hemodialysis
9. Quality of sleep in hemodialysis and renal transplant patients
10. Cognitive function in ESRD & transplant patients

Ongoing
1. Tuberculosis prophylaxis in patients on maintenance haemodialysis.
2. Clinicopathological correlation of HBV and HCV infection in patients on renal replacement therapy.
3. Tacrolimus as induction therapy for proliferative lupus nephritis
4. Assessment of vascular functions in patients with chronic kidney disease
5. Study to assess interdialytic and intradialytic pain in patients undergoing hemodialysis
6. Study of physiological parameters in living kidney donors – pre and post donation
7. Quality of sleep in hemodialysis and renal transplant patients

**Collaborative Research**

1. Detection and genotyping of Human Cytomegalovirus from Neonates and Renal Transplant Recipients (Doctor of Philosophy in 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. Role of urinary cytology and immunocytochemistry in diagnosis and management of acute renal allograft dysfunction with department of Pathology.
4. Chemokine receptor expression on T cells in renal transplant recipient (Transplant immunology and immunogenetics).
5. Study of autologous stem cell therapy in reversing the progression of chronic kidney disease
6. Assessment of vascular functions before and after renal transplantation
7. Evaluation of systemic co-morbidity in patients with diabetic retinopathy
8. Prevelance of AKI in critically ill patients (with Dept of Medicine)
9. Study of Autologous stem cell therapy in reversing the progression of chronic kidney disease

**PUBLICATIONS**

**Journals**


Chapters in books

PATIENT CARE

| 1 | Hemodialysis Related | 1. Hemodialysis | 6975 |
|   |                    | 2. Plasmapheresis/Plasma Exchange | 115 |
|   |                    | 3. Femoral vein catheterization | 704 |
|   |                    | 4. Jugular & Subclavian Catheter Insertion | 194 |
|   |                    | 5. AV Fistula | 21 |
|   |                    | 6. AV Shunt | 2 |
| 2 | ICU Related | 1. Continuous Renal Replacement Therapy including SLED | 36 |
| 3 | Peritoneal Dialysis Related | 1. Intermittent acute peritoneal dialysis | 204 |
|   |                | 2. CO2 | 35 |
| 4 | Indoor Related | 1. Kidney Biopsy | 357 |
|   |                | 2. Indoor regular Admissions | 807 |
|   |                | 3. Indoor short admission | 413 |
|   |                | 4. Nephrology Consultations | 3075 |
| 5 | Day care treatment | 1. IV Methylprednisolone therapy | 47 |
|   |                | 2. IV Iron therapy | 380 |
|   |                | 3. IV cyclophosphamide therapy | 31 |
| 6 | Renal Transplant Related | 1. Evaluation for Living RT recipients and donors | 1275 |
## Renal Lab Related

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<th>Description</th>
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<tr>
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<td>3.</td>
<td>Urine osmolality</td>
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<td>4.</td>
<td>24 Hr urine testing</td>
<td>3887</td>
</tr>
<tr>
<td>5.</td>
<td>Haemogram for transplant patients</td>
<td>6344</td>
</tr>
<tr>
<td>6.</td>
<td>Co2</td>
<td>301</td>
</tr>
<tr>
<td>7.</td>
<td>Iron, UIBC, TIBC, TSat</td>
<td>320</td>
</tr>
<tr>
<td>8.</td>
<td>Serum Ferritin</td>
<td>65</td>
</tr>
</tbody>
</table>

## OPD related

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Count</th>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td>Renal Clinic new patients</td>
<td>6610</td>
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<tr>
<td>2.</td>
<td>Renal Clinic old patients</td>
<td>22641</td>
</tr>
<tr>
<td>3.</td>
<td>RT Counseling Clinic (3 days per week)</td>
<td>1275</td>
</tr>
<tr>
<td>4.</td>
<td>Renal Transplant Clinic old cases</td>
<td>6928</td>
</tr>
<tr>
<td>5.</td>
<td>Renal transplant clinic new cases</td>
<td>142</td>
</tr>
</tbody>
</table>

## AWARDS AND HONOURS

**Dr S.K. Agarwal**

1. Conferred Fellowship of “**American Society of Nephrology**”

2. **Prof. Hari Vaishnava Oration** of the Delhi State Chapter API in recognition of contribution to the field of Medicine.

3. Selected Member scientific committee, Northern Chapter, Indian Society of Nephrology for three years 2009-1012.

4. Chairman of Technical Advisory Committee for Nephrology and Related equipments for the department of critical care for Institute of Liver and Biliary Disease, New Delhi.

5. Invited to be Member of Medical Death review Committee of the AIIMS, New Delhi.


7. Plenary Lecture during ISN East Zone Annual conference on ‘**HCV Management in Renal Replacement Therapy**’ held at Patna on 7th and 8th Nov 2009.

10. Invited as expert in the meeting of National Accreditation and Assessment Council, University Grant Commission in Bangalore on 3-4th Feb 2010.
11. National Board Adviser on Nephrology Subject.
12. World Congress Nephrology Travel scholarship for attending conference held at Milan Italy on 22nd to 28th May 2009.
13. WHO scholarship for attending Organ Donation Congress held at Berlin, Germany on 4th to 7th Oct 2009.
15. Chief Coordination for ICMR Task Force Project on “Prevalence of Chronic Kidney Disease in Urban India”

Dr. Sanjay Gupta
1. Member of Task Force on ‘Bioengineering’ Department of Biotechnology

Dr. Sandeep Mahajan
1. Awarded the young investigator grant by the International Society of Nephrology for the World Congress of Nephrology held in Milan May 2009
2. Awarded the International Speaker Award by the Japanese Society of Dialysis Therapy at 54th JSDT Congress held at Yokohama Japan June 2009

Dr. D. Bhowmik conducted Quiz at:
   a. Annual Conference of Indian Society of Nephrology
   b. Annual Conference on North-Zone Chapter of Indian Society of Nephrology

VISITING SCIENTISTS
1. Prof. Praveen Singhal, Chief of Nephrology, LIJ Medical Centre Albert Einstein University, U.S.A visited the department on 29th December 2009 and delivered talk on “Role of p66shcA gene in the development and progression of Kidney disease” and “Stress Management in Medicine”
2. Dr. Luc Noel, coordinator, WHO HQ, Geneva visited the department in relation to renal transplant activities of the institute and also to discuss the issues related to 6th World Day of Organ Donation and Transplantation in India.
3. Dr. Sanjeev Sethi Sr. Consultant and Associate Professor Senior Consultant and Associate Professor, Mayo Clinic, Deptt of Lab Medicine and Pathology, Rochester, USA visited the department on 22nd February 2010 and given a talk on “MPGN: Clinico-pathological Issues”.
9.20 Nuclear Medicine

Professor and Head
A. Malhotra

Professors
G.P. Bandopadhayaya
C.S. Bal

Associate Professor
Rakesh Kumar
Chetan D Patel (CNC)

Scientist-IV
Sneh Lata

EDUCATION
The faculty of the department participated in and delivered 26 lectures in continuing medical education programme, workshop, Symposia and annual conference during the year.

RESEARCH

Completed
1. Comparison between $^{99m}$Tc-GHA specific and $^{18}$F-FDOPA PET/CT in patient with recurrent glioma.
2. Comparison between $^{68}$Ga-DOTANOC PET/CT and $^{18}$F-FDOPA PET/CT in patient with Neuroendocrine Tumours.
3. Role of $^{131}$I-MIBG Vs $^{18}$F DOPA in diagnosis of Pheochromocytoma.

Ongoing
1. Technetium $^{99m}$ labelled hydroxypropyl beta cyclodextrin (Tc-$^{99m}$ HPâCD) as a ligand for bacterial membrane proteins and an imaging tool for vascular prosthesis infection.
2. Role of PET-CT in early response evaluation to chemotherapy in neuroblastoma & rhabdomyosarcoma.
3. Studies on formulation and characterization of alginate nano-spheres for targeted radionuclide therapy of Neuroendocrine tumours.
4. Evaluation of Prognostic Value of FDG-PET after One Cycle of Chemotherapy in Paediatric High Grade Lymphomas. funding agency DBT, New Delhi, (2007- till date).
5. To Evaluate Radiolabeling and Efficacy of Radiolabelled Beta-Cyclodextrin for Infection Imaging. funding agency ICMR, New Delhi (2006 – till date).
7. Early evaluation of treatment response of Neo-adjuvant chemotherapy in locally advanced Breast Cancer patients using Tumor Burden estimation by PET-CT and correlation with CD 34 and VEGF expression. funding agency Indian Council of Medical Research (ICMR), Delhi, India, (2009-2012).

PUBLICATIONS


**BOOK CHAPTERS AND REVIEWS**


**Presentations at Scientific Meetings**


3. Role of F\(^{18}\)-FDG PET-CT imaging in differentiating benign and malignant pancreatic lesions and its comparison with CT/MRI/EUS. Presented at 56th Annual Meeting of Society of Nuclear Medicine (SNM)”, held on June 13-17, 2009, Toronto, Canada.


**PATIENT CARE**

**Radionuclide Investigations**

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Number</th>
</tr>
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<tbody>
<tr>
<td>1. Radioactive Iodine Uptake (RAIU)</td>
<td>2352</td>
</tr>
<tr>
<td>2. Perchlorate Discharge Test</td>
<td>20</td>
</tr>
<tr>
<td>3. I-(^{131}) Whole Body Scan</td>
<td>461</td>
</tr>
<tr>
<td>4. Dimercaptosuccinic Acid Scans</td>
<td>970</td>
</tr>
<tr>
<td>5. Ca-thyroid I-(^{131}) Whole Body Scan</td>
<td>200</td>
</tr>
<tr>
<td>6. Thyrotoxicosis</td>
<td>373</td>
</tr>
<tr>
<td>7. DTPA/LLECT 99mTc renal dynamic scan</td>
<td>4275</td>
</tr>
<tr>
<td>8. Direct Radionuclide Cystourethorography</td>
<td>246</td>
</tr>
<tr>
<td>9. Gastro Esophagus Reflux</td>
<td>573</td>
</tr>
<tr>
<td>10. Golumlar Filteration Rate</td>
<td>1808</td>
</tr>
<tr>
<td>11. Bone Scan</td>
<td>1761</td>
</tr>
<tr>
<td>12. 99mTc HIDA (Hepatobillary)</td>
<td>406</td>
</tr>
<tr>
<td>13. Thyroid Scan</td>
<td>756</td>
</tr>
<tr>
<td>14. Liver Scan</td>
<td>20</td>
</tr>
<tr>
<td>15. Meckel’s Study</td>
<td>56</td>
</tr>
<tr>
<td>16. Gastro Intestinal Bleed</td>
<td>20</td>
</tr>
<tr>
<td>No.</td>
<td>Procedure</td>
</tr>
<tr>
<td>-----</td>
<td>------------------------------------------------</td>
</tr>
<tr>
<td>17.</td>
<td>Lymphoscintigraphy</td>
</tr>
<tr>
<td>18.</td>
<td>MIBG (diagnostic and therapeutic)</td>
</tr>
<tr>
<td>19.</td>
<td>$^{153}$Samarium bone pain palliation</td>
</tr>
<tr>
<td>20.</td>
<td>Cardiac Studies</td>
</tr>
<tr>
<td>21.</td>
<td>Myocardial Perfusion Study</td>
</tr>
<tr>
<td>22.</td>
<td>Brain SPECT</td>
</tr>
<tr>
<td>23.</td>
<td>PET-CT Whole Body (including Ga)</td>
</tr>
<tr>
<td>24.</td>
<td>Brain Glucopeptonate (GHA)</td>
</tr>
<tr>
<td>25.</td>
<td>Inpatient</td>
</tr>
</tbody>
</table>
9.21 Nuclear Magnetic Resonance

Professor and Head
N.R. Jagannathan

Associate Professor
Rama Jayasundar

Assistant Professor
S. Senthil Kumaran

Scientists
Uma Sharma
Sujeet Kumar Mewar
Pawan Kumar

EDUCATION

Postgraduate
The faculty participated in and delivered lectures for the course entitled “Structural Biology and NMR Technology” and “Molecular Medicine” of M. Biotech programme of the Dept. of Biotechnology, AIIMS.

Short/ Long Term Training
Four persons from medical and science disciplines from various Institutes and Universities from all over India, B.Sc Radiography and B.Sc Nursing students, AIIMS, underwent training in MRI, fMRI and MRS techniques.

Continuing Medical Education
The faculty participated in and delivered several lectures in continuing medical education programs, symposia and conferences during the year.

Prof. Jagannathan was a co-organizer of the Weekend Program on “Cancer MRS”, 17th Annual Meeting of the International Society for Magnetic Resonance in Medicine (ISMRM), Honolulu, USA, April 18-26, 2009.

Prof. Jagannathan was a co-organizer of the Plenary Session on “Prostate Cancer: What Every Man Need to Know”, 17th Annual Meeting of the International Society for Magnetic Resonance in Medicine (ISMRM), Honolulu, USA, April 18-26, 2009.

Lectures delivered by Prof. N.R. Jagannathan


• Diffusion and MR Spectroscopic Imaging in the Evaluation of Prostate Cancer: An Indian Perspective. Center for Prostate Disease and Research (CPDR), Washington, USA, July, 2009.


• Biological Applications of Magnetic Resonance Imaging (MRI) and NMR. Jawaharlal Nehru University, New Delhi.

• NMR in Medicine. 15th Refresher Course in Life Sciences. Jawaharlal Nehru University, New Delhi, January 2010.

Lectures delivered by Dr. Rama Jayasundar

• Quantum Logic in Ayurveda, National Brain Research Centre (NBRC), Manesar, Haryana, April 2009.

• Science of Ayurveda, Health Ministry, Govt. of India, Nirman Bhavan, May 2009.

• Quantum Logic in Ayurveda, India International Centre, May 2009.

• Quantum Logic in Ayurveda, Foundation for Revitalisation of Local health Traditions (FRLHT), Bangalore, Jun 2009.

• The Science of Ayurveda, National Institute of Mental Health and Neurosciences (NIMHANS), Bangalore, Jun 2009.

• Ayurveda – a different perspective, Shri Shri Ravishankar College of Ayurveda, Bangalore, Jun 2009.


• Understanding of disease and health in Ayurveda, Reorientation and Training Program, Foundation for Revitalisation of Local health Traditions (FRLHT), Bangalore. Jun 2009.

• Ayurveda – a different perspective, Sanjeevani Ayurveda and Yoga Centre, Chennai, Jun 2009.

• Ayurveda – its relevance for IT professionals, Compucrafters, Chennai, Jun 2009.

• Quantum Logic in Ayurveda, Sri Ramachandra Medical University, Chennai, July 2009.

• Ayurveda – importance of documentation, Annual Convention of AVTAR, Arya Vaidya Pharmacy, Coimbatore, July 2009.

• Science of Ayurveda, India Habitat Centre, New Delhi, July 2009.

• Quantum Logic in Ayurveda, Good Clinical Practice, Foundation for Revitalisation of Local health Traditions (FRLHT), Bangalore, July 2009.
Indian Knowledge System: Ayurveda Centre for Sanskrit Studies, Jawaharlal Nehru University (JNU), New Delhi, August 2009.

Research in Ayurveda, Shri Ravishankar College of Ayurveda, Bangalore, August 2009

The contemporary relevance of Ayurveda, Centre of Social studies, Jawaharlal Nehru University, New Delhi, September 2009.

Science of Ayurveda, Indian Foreign service (IFS) probationers, External Affairs Ministry, New Delhi, September 2009.


Quantum Logic in Ayurveda, Institute of Postgraduate and Ayurvedic Research, Jamnagar, November 2009.


Ayurvedic kit for common eventualities, External Affairs Ministry, New Delhi, December 2009.


Ayurveda: a distinctive approach to health and disease, Central Leather Research Institute, Chennai, January 2010.

Nuclear Magnetic Resonance, Department of Chemistry, Stella Maris College, Chennai, January 2010.

Traditional Healthcare System – Ayurveda, Department of Electrical Engineering, Indian Institute of Technology (IIT), Chennai, February 2010.

Ayurveda – the science of well-being, Institute of Technology and Management, Mumbai, February 2010.

Ayurveda: a distinctive approach to health and disease, Pillai Management School and Research Institute, Mumbai, February 2010.

Demystifying Ayurveda, Indian Institute of Technology (IIT), Mumbai, February 2010.

Ayurveda: a distinctive approach to health and disease, KEM Hospital, Mumbai February 2010.

**Lectures delivered by Dr. S. Senthil Kumaran**

RESEARCH

Funded Projects

**Ongoing**

(i) Magnetic Resonance Spectroscopic Imaging (MRSI) and diffusion-weighted MRI (DW-MRI) in the non-invasive detection, assessment of treatment response and tumor metabolism in breast cancer.

Principal Investigator : N. R. Jagannathan  
Period : June 2008 - May 2011  
Cost : Rs. 20.29 lakhs  
Funding Agency : Department of Science and Technology  
Govt. of India

(ii) 700 MHz NMR Spectrometer for Biomedical Research.

Principal Investigator : N. R. Jagannathan  
Period : December 2007 - December 2012  
Cost : Rs. 842.6 lakhs  
Funding Agency : Department of Science and Technology  
Govt. of India

**Departmental Research (Ongoing)**

1. MRI and MRS study of animal model of demyelination.
2. Development of pulse sequence for *in vivo* simultaneous suppression of water and fat in breast cancer patients.

**Collaborative research projects (Ongoing)**

1. *In-vivo* and *in-vitro* MR spectroscopy studies of tissue extracts of prostate cancers (with Departments of Urology and Pathology).
2. *In-vitro* MR spectroscopy of colon tissue in patients of IBD (Dept. of GI Surgery).
3. *In vivo* MR spectroscopy study of human breast carcinoma (with Departments of Surgery, Radiotherapy and Pathology).
4. MRI studies of skin cancers (with Department of Biochemistry).
5. MRI study of liver cancer in animal model.
6. *In-vivo* MRS of brain in NIDDM patients (with Department of Medicine).
7. *In vitro* MR spectroscopy of immune cells from mice (with National Inst. of Immunology).
8. $^{31}$P MRS study of skeletal muscle in normal subjects with vitamin D supplementation (with Department of Endocrinology).
9. MRI/MRS studies to evaluate brain metabolism in patients with diabetes mellitus (with Department of Medicine).
10. MRI for in-vivo tracking of iron oxide labeled embryonal stem cells in a rat model of heart failure (with Departments of Cardiology, Cardiac-radiology, Physiology and Stem Cell Facility).

11. MRI of iron oxide nanoparticle formulation (with Institute of Life Sciences, Bhubaneswar).

12. Analytical evaluation of ayurvedic bhasmas (with DST Unit of Nanoscience, Indian Institute of Science, Chennai).

13. Study of cognition and quality of life in chronic intractable epilepsy using fMRI.


15. Neural mapping during stope task of familiar faces (with Department of Physiology).

16. Mapping of neural correlates due to flickering Checker board pattern in Amblyopia using Functional MRI.

PUBLICATIONS

Journals


Abstracts


17. Demystifying ayurveda, 27th Annual Convention, American Association of Physicians of Indian Origin (AAPI), Orlando, Florida, USA.


Chapters in Books

1. Health : distinctive approaches of biomedicine and ayurveda, Rama Jayasundar Bridging Science and Spirituality, Motilal Nehru Institute of Technology (Allahabad) and Bhaktivedanta Institute (Kolkata), 167-178, 2010.


PATIENT CARE

The department has two 1.5 Tesla and one 3.0 Tesla whole body MR scanners for patient care and research. The department provides twelve hours per day of patient care MRI services. The details of the number of patients scanned during the period April, 2009 to March, 2010 are:

Clinical Diagnostic MRI Scan : 5076 patients
Research : 327 patients and subjects
OTHER EXPERIMENTAL FACILITIES

The department has one 4.7 Tesla Animal MR system and one 16.4 Tesla High Resolution NMR Spectrometer. Various MR imaging, diffusion MRI and MR spectroscopy from various projects are routinely being carried out on mice and rats. Using the 9.4 T (Bruker, DRX 400) and 16.4 T (Varian, 700 MHz) NMR spectrometers, large number of samples like serum/ plasma/CSF/ biopsy tissues was studied.

AWARDS AND HONOURS

Prof N. R. Jagannathan is a member of the editorial board of “MAGMA” (Magnetic Resonance Materials in Physics, Biology and Medicine), (Springer); member of the editorial board of “Magnetic Resonance Insights” (Libertas Academica, USA); Deputy Editor of “Neuroscience Imaging”; member of the editorial board “NMR Biomedicine (John Wiley & Sons); member of the editorial board of “Magnetic Resonance Imaging” (Elsevier); member of the editorial board of “Spectroscopy – Biomedical Applications” (IOC Press, Netherlands); member editorial board of “Biophysical Reviews” (Springer); elected member of the executive council, International Union of Pure and Applied Biophysics (IUPAB) (2008-2011); member of the Annual Meeting Program Committee (AMPC), International Society for Magnetic Resonance in Medicine (ISMRM); member of the Education Committee, International Society for Magnetic Resonance in Medicine (ISMRM); member of the steering committee of Asian Biophysics Association (ABA); council member of the International Conference on Magnetic Resonance in Biological Systems (ICMRBS), USA; moderator of a scientific session, 17th Annual Meeting of the International Society for Magnetic Resonance in Medicine (ISMRM), Honolulu, USA, April, 2009; weekend faculty at the CME program during the 17th Annual Meeting of the International Society for Magnetic Resonance in Medicine (ISMRM), Honolulu, USA, April, 2009; co-organizer, Weekend Program on “Cancer MRS”, 17th Annual Meeting of the International Society for Magnetic Resonance in Medicine (ISMRM), Honolulu, USA, April, 2009; co-organizer, Plenary Session on “Prostate Cancer: What Every Man Need to Know”, 17th Annual Meeting of the International Society for Magnetic Resonance in Medicine (ISMRM), Honolulu, USA, 2009; member of the Program Advisory Committee (PAC), Section for Biochemistry, Biophysics and Molecular Biology, Department of Science and Technology (DST), Government of India; member of the Steering Committee of the Sophisticated Instruments facilities (SAIFs) of Department of Science and Technology (DST), Government of India; member of the FIST Committee of the Department of Science and Technology (DST), Government of India; coordinator of the expert panel on “Biomedical Devices and Bioengineering”, Life Sciences Research Board (LSRB), DRDO; member of the INSa committee for International Union of Pure and Applied Biophysics (IUPAB); member of the Program Advisory Committee (PAC), National Facility for High Field NMR, Tata Institute of Fundamental Research (TIFR), Mumbai; member of the Management Advisory Committee (MAC) of the Regional Sophisticated Instruments Facility (RSIC), Indian Institute of Technology (IIT), Chennai.

Dr. Rama Jayasundar was featured on the cover page of the European Journal “Leadership in Medica” for her contribution to ayurveda. She was also invited to contribute the lead article in that issue. She was invited to contribute an article on ayurveda for the 13 volumes Encyclopedia on Hinduism.
SIGNIFICANT EVENT

Two new facilities namely, one 3.0 Tesla whole body human MR system (Achieva, Philips) and 16.4 Tesla High Resolution NMR Spectrometer (Varian) were inaugurated by Dr. T. Ramasami, Secretary, DST, Govt. of India in the presence of Dr. R.C. Deka, Director, AIIMS on 23rd March, 2010.
EDUCATION

Delhi Post Graduate Medical Education Forum (Deptt. of Obst. & Gynae.) is organizing monthly meetings for postgraduate training since 2001. These are to supplement training of postgraduates in clinical and surgical skills, problem oriented approach to Obstetrics & Gynaecology, protocols and guidelines, case presentations and discussions. Invited faculty from various academic and teaching institutions of Delhi as well as international faculty contribute towards training of post graduates.

Short Term and Long Term Training


CME

1. The department organizes ‘National CME in Obst. & Gynae’ in collaboration with National Board of Examination, National Academy of Medical Sciences and World Health Organization every six months. It is a unique, innovative modular teaching programme in which the MD syllabus is covered in six modules over 3 years. Series 3, Module 1 was held 25-26th April, 2009 and Series 3, Module 2 on 2nd-3rd January, 2010 at AIIMS, New Delhi. The CME modules are attended by more than 200 students as well as senior gynecologists and are accredited by Delhi Medical Council.

CME, Workshops and Seminars organized by the Department

1. CME on Gynae Endocrinology organized by Deptt. of Obst. & Gynae., AIIMS, 10 April 2009.

3. 12th WHI Training course in Minimally Invassive Gynaecology, Organised by Dept Ob Gyn, AIIMS, UNU & Karl Storz Germany, Delhi, 3rd – 13th August, 2009.

4. Workshop on Rationale use of Emergency Contraception in India, AIIMS, New Delhi 7th September, 2009

5. Fetal Medicine Procedures Workshop on Maternal Fetal Medicine organized by (Genetic Comm. FOGSI; Peinatal Med Comm. AOGD; AIIMS), 26th – 31st October, 2009, Deptt. of Obst. & Gynaecology, AIIMS.

6. CME on “Recent Advances in Management of Recurrent Miscarrriages”, organized by (Genetic Comm. FOGSI; Peinatal Med Comm. AOGD; AIIMS), Deptt. of Obst. & Gynaecology, 31st October, 2009, LT-I, AIIMS.

7. 13th WHI Training course in Minimally Invassive Gynaecology, Organised by Dept Obst. & Gynae., AIIMS, UNU & Karl Storz Germany, Delhi, 16th - 26th November, 2009.

8. CME “Prenatal Diagnosis of Down Syndrome”, organized by (Genetic Comm. FOGSI; Peinatal Med Comm. AOGD; AIIMS), Deptt. of Obst. & Gynaecology, 22nd November, 2009, LT-I, AIIMS.

9. Pre Congress Workshop on “Fetal Medicine”, 18th Jan, 2010 on at 53rd AICOG 2010 at Guwahati organized by the Deptt. of Obstetrics & Gynaecology, AIIMS.

10. 14th WHI Training course in Minimally Invassive Gynaecology, Organised by Dept Obst &. Gynae., AIIMS, UNU & Karl Storz Germany, Delhi, 1st – 11th February, 2009.

11. Workshop on Maternal Fetal Medicine organized by (Genetic Comm. FOGSI; Peinatal Med Comm. AOGD; AIIMS), 15th – 20th March, 2010, Deptt. of Obst. & Gynaecology, AIIMS.


Lectures delivered

Dr. Suneeta Mittal


5. “Laparoscopic surgeries complications and management” on 19th August, 2009 during the 13th WHI Training course in Minimally Invasive Gynaecology, Organised by Dept Ob Gyn, AIIMS, UNU & Karl Storz Germany, Delhi, 16th – 26th November, 2009.


7. “Current status of endoscopic surgery in Gynae Practice” on 1st February, 2010 during the 14th WHI Training course in Minimally Invasive Gynaecology, Organised by Dept Ob. Gyn, AIIMS, UNU & Karl Storz Germany, Delhi, 1st to 11th February, 2010

8. “Laparoscopic surgeries complications & management” on 1st February, 2010 during the 14th WHI Training course in Minimally Invasive Gynaecology, Organised by Dept Ob. Gyn, AIIMS, UNU & Karl Storz Germany, Delhi, 1st to 11th February, 2010

Dr. Alka Kriplani


8. “Abnormal Uterine Bleeding” (Case presentation), Twelfth practical course & CME, Organised by MAMC & LN Hospital, New Delhi, 4th August, 2009.


11. “Mirena IUD, CME on Common Obstetrics & Gynaecological problems, Organised by East Delhi Gynaecology forum & Max Balaji Hospital, New Delhi, 18th August, 2009
14. “Endoscopy & Hysterectomy” on 18th November during the 13th WHI Training course in Minimally Invassive Gynaecology, Organised by Dept Obst. & Gynae, AIIMS, UNU & Karl Storz Germany, Delhi, 16th – 26th November, 2009.
15. “Endoscopy in infertility” on 25th November, 2009 during the 13th WHI Training course in Minimally Invassive Gynaecology, Organised by Dept Ob Gyn, AIIMS, UNU & Karl Storz Germany, Delhi, 16th – 26th November, 2009.
18. “Endoscopy in infertility” on 3rd February, 2010 during the 14th WHI Training course in Minimally Invassive Gynaecology, Organised by Dept Obst. Gynae., AIIMS, UNU & Karl Storz Germany, Delhi, 1st to 11th February, 2010
20. “Abnormal Uterine Bleeding” (Case discussion), PG teaching CME OG QUEST 2010, Organised by Ob Gyn Society of Southern India, Chennai & Sri Ramachandra Medical College & Research Institute, Sri Ramachandra University, Chennai on 5th February, 2010.
21. “Endoscopy & Hysterectomy” on 10th February, 2010 during the 14th WHI Training course in Minimally Invassive Gynaecology, Organised by Dept Ob. Gyn, AIIMS, UNU & Karl Storz Germany, Delhi, 1st to 11th February, 2010

Dr. Sunesh Kumar

1. “Forceps / Vacuum Applications (Demonstration);, 3rd August, 2009 at Twelfth Practical Course & CME in Obstetrics & Gynaecology at MAMC &LN Hospital, New Delhi.
3. “Labaroscopy-pt. positioning pneumoperitoneum safe first entry, selection of accessory ports indications/contraindications” on 17th November, 2009 during the 13th WHI Training course in
Minimally Invasive Gynaecology, Organised by Dept Obst. & Gynaec, AIIMS, UNU & Karl Storz Germany, Delhi, 16th – 26th November, 2009.


Dr. D. Deka


3. “Gurucul Gynae” CME which is initiative of Young Talent Promotion Committee” on 19th – 20th September, 2009 at Pune.

4. “Endoscopy in Pregnancy and Fetal Endoscopy” during the 13th WHI Training course in Minimally Invasive Gynaecology, Organised by Dept Ob Gyn, AIIMS, UNU & Karl Storz Germany, Delhi, 16th – 26th November, 2009.


7. “Endoscopy in Pregnancy and Fetal Endoscopy” during the 14th WHI Training course in Minimally Invassive Gynaecology, Organised by Dept Ob. Gyn, AIIMS, UNU & Karl Storz Germany, Delhi, 1st to 11th February, 2010

Dr. Neerja Bhatla


2. “Role of HPV vaccine” during Colposcopy Workshop, Maulana Azad Medical College & Lok Nayak Hospital, New Delhi, 30 April 2009.

3. “Cervical Cancer Screening – Choosing the appropriate test” during 12th Practical Course and CME in Obstetrics & Gynaecology, Maulana Azad Medical College and Lok Nayak Hospital, New Delhi, 3 August, 2009.

5. “Laparoscopy in Gynae Oncology” on 21st November during the 13th WHI Training course in Minimally Invassive Gynaecology, Organised by Dept Ob Gyn, AIIMS, UNU & Karl Storz Germany, Delhi, 16th – 26th November, 2009.

6. “Laparoscopy in Gynae Oncology” on 6th February, 2010 during the 14th WHI Training course in Minimally Invassive Gynaecology, Organised by Dept Ob. Gyn, AIIMS, UNU & Karl Storz Germany, Delhi, 1st to 11th February, 2010


Dr. K.K. Roy


Dr. Neena Malhotra

1. “Abdominal and Vaginal Hysterectomy” on 26th April, 2009 during the National CME in Obstetrics & Gynaecology organized by Deptt. of Obst. & Gynaec., AIIMS, New Delhi, 25-26th April, 2010.


Dr. Vatsla Dadhwal


3. “Diagnostic/Office hysteroscopy” during the 13th WHI Training course in Minimally Invassive Gynaecology, Organised by Dept Ob Gyn, AIIMS, UNU & Karl Storz Germany, Delhi, 16th – 26th November, 2009.

5. “Diagnostic/ Office hysteroscopy” during the 14th WHI Training course in Minimally Invassive Gynaecology, Organised by Dept Obst. & Gynae, AIIMS, UNU & Karl Storz Germany, Delhi, 1st – 11th February, 2010.


Dr. Nutan Agarwal


2. “Interesting cases of primary amenorrhoea” during the CME on Gynae. Endocrinology, 18th April, 2009 at AIIMS, New Delhi.

Dr. J.B. Sharma

1. “Management of Genital Tuberculosis” and “Management of female stress urinary in continence” during the CME organized by the Dehardun Obstetrics & Gynaecological Society on 9th June, 2009


5. “Laparoscopy in Urogynaecology” during the 13th WHI Training course in Minimally Invassive Gynaecology, Organised by Dept Ob Gyn, AIIMS, UNU & Karl Storz Germany, Delhi, 16th – 26th November, 2009


7. “Laparoscopy in Urogynaecology” during the 14th WHI Training course in Minimally Invassive Gynaecology, Organised by Dept Obst. & Gynae, AIIMS, UNU & Karl Storz Germany, Delhi, 1st – 11th February, 2010.

Dr. Neeeta Singh

1. “Medications during pregnancy and teratogens” on 25th April, 2009 during the National CME in Obstetrics & Gynaecology held at AIIMS from 25-26th April, 2009.

Dr. Pradeep Garg


2. “Laparoscopic Suturing and Knotting” during the 13th WHI Training course in Minimally Invasive Gynaecology, Organised by Dept Ob Gyn, AIIMS, UNU & Karl Storz Germany, Delhi, 16th – 26th November, 2009.

3. “Laparoscopic Suturing and Knotting” during the 14th WHI Training course in Minimally Invasive Gynaecology, Organised by Dept Ob. Gyn, AIIMS, UNU & Karl Storz Germany, Delhi, 1st to 11th February, 2010.

National and International Conferences
Organized by the department


2. 2nd Anniversary Symposium of IVF Facility on 20th February, 2010 at AIIMS.


Lectures delivered
Dr. Suneeta Mittal


2. “Role of Clinicians in Research” during the Seminar on Translation Health Research : Pathway to Discovery on 28th April, 2009 at CSMM University, Lucknow.


6. “Infertility” – Case Discussion on 1st August, 2009 during the Twelfth Practical Course in Obstetrics & Gynaecology organized by the MAMC & Lok Nayak Hospital, New Delhi.

7. “Mahilaon mein cancer” at All India Radio on 28th August, 2009 at New Delhi.


17. “Fetal Monitoring” at the Concurrent Symposium on Perinatology during the XXIX Annual convention of NNF on 12th December, 2009 at Ahmedabad.


Dr. Alka Kriplani


Dr. Sunesh Kumar
1. “Role of Surgery in Endometrium and “Role of Surgery in Ovarian Carcinoma”, 17th July, 2009 during the OnCon’09 (Ongoing Cancer Education) at BRAIRCH, AIIMS.


Dr. D. Deka
1. “Prenatal Diagnosis” at Quarterly meeting of Gynaecological Society of Northern India on 22nd August, 2009, Jalandhar


3. “Twin to Twin Transfusion” in “AOGD Annual Conference” on 10th October, 2009 at India Habitat Center, New Delhi.

4. “Introduction to Maternal Fetal Medicine” and conduct Fetal Medicine Procedures in Workshop on Maternal Fetal Medicine organized by (Genetic Comm. FOGSI; Perinatal Med Comm. AOGD; AIIMS), 26th – 31st October, 2009, Deptt. of Obst. & Gynaecology, AIIMS.

5. “Prenatal Screening – Antenatal Diagnosis of Down’s Syndrome” and chaired a session on “Management of TORCH Positive Patients during the 21st Annual Conference organized by Patiala Obs & Gynae Society, Patiala on 29th Nov., 2009”


Dr. Neerja Bhatla

1. “Role of HPV vaccine” during Colposcopy Workshop, Maulana Azad Medical College & Lok Nayak Hospital, New Delhi, 30 April 2009.

2. Invited Faculty for the Maternal Fetal Medicine Workshop at AIIMS. Demonstration of Procedures in Fetal Medicine OT, U/S for Multiple Pregnancy, biophysical profile, etc. and cases, 26-31 October, 2009.


Dr. Neena Malhotra

1. “Ovulation induction” during the Quarterly meeting of Obstetrical and Gynecological Society of Northern India, Ludhiana, 22nd August 2009.


Dr. Vatsla Dadhwal

1. “Thyroid disorders in pregnancy “at High Risk Obstetrics Workshop 6-7th March 2010 at Sant Parmanand Hospital, Delhi

2. “Ultrasound in 1st Trimester” at IIIrd maternal Fetal Medicine Workshop from 15-20th March 2010 at AIIMS, N delhi.

3. “Genetic Disorders and Prenatal Genetic Diagnosis” in Symposium on maternal and child health on 1st Dec 2009 at Hindu Rao Hospital.

4. “Thrombophilias and RPL” at clinical meeting of Delhi Society of Prenatal Diagnosis & Therapy on 2 May 2009, at AIIMS, N Delhi

5. “Obstetricians role in antenatal diagnosis” at a seminar on Thalassemia care and control org by National Thalassemia Welfare Society on 24 April 2009., N Delhi

Dr. J.B. Sharma


4. “Anaemia during pregnancy” during the FOGSI post graduate workshop on 31st July 2009 at Safdarjung Hopsital New Delhi.
5. “Medical method of MTP” during 12th Practical Course in Obst. & Gynae at MAMC New Delhi from 3rd August 2009


8. “Genital TB Gynaec aspect and current management of SUI’s during the Nobha Obstetric and Gynaec Society and CME for postgraduates on 9th January 2010 at Medical College Patiala.

9. “Laparoscopy in Urogynaecology on 9th February 2010 during the 14th Training course in minimally invasive Gynaecology at AIIMS.

10. “Hypertension during pregnancy in Goa Obstetrics and Gynaecological society” during the meeting on 18th March 2010.


Dr. Pradeep Kumar Garg


6. “Laparoscopic myomectomy” during the NZIC (North Zone Infertility Conference) 1st November 2009, Meerut.


8. “Laparoscopic myomectomy simplified” during the North Zone Yuva FOGSI 2010, Gwalior.


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RESEARCH

Funded Projects

Completed

Title: Seroprevalence of Cytomegalovirus (CMV) Infection in pregnant women and prenatal diagnosis of Fetal CMV Infection.
Chief Investigator : Dr. D. Deka
Funding Agency : ICMR
Duration of Project : 2yrs. (2007-2009)
Total funding : Rs.2,75,200/-

Title: Development of HPV candidate vaccine/s: preparation of clinical trial site/cohort for vaccine testing.
Chief Investigator : Dr. Neerja Bhatla
Funding Agency : DBT
Duration of Project : 2005-2009
Total funding : Rs.84,98,000/-

Ongoing

Title : Prevention of Parents to Child Transmission of HIV
Chief Investigator : Dr. Suneeta Mittal
Funding Agency : Delhi State AIDS Control Society
Duration : Ongoing long project
Total funding : Rs.50,000/-

Title : Phase I Clinical trial of once weekly administration of 50 mg Mifepristone as oral contraceptive
Chief Investigator : Dr. Suneeta Mittal
Funding Agency : ICMR
Duration : Ongoing long project
Total funding : HRRC funds

Title : Phase III Multicentre clinical trial with subdermal single Rod contraceptive Implant - Implanon
Chief Investigator : Dr. Suneeta Mittal
Funding Agency : ICMR
Duration : Two years
Total funding : HRRC funds

Title : An open label, single-arm, Non-comparative study to evaluate the efficacy and safety of ion surosue (OROFER-S) Injection in the treatment of iron deficiency anaemia during pregnancy
Chief Investigator : Dr. Alka Kriplani
Funding Agency : Emcure Pharmaceuticals Ltd.
Duration : 2008-2010.

Title : Evaluation of Curcumin in the management of Advanced cancer cervix
Chief Investigator : Dr. Sunesh Kumar
Funding Agency : DBT
Duration : January 2006 to 2010
Total Funding : Rs. 51 lacs. (approx.)

Title : Comparative study of oral single dose of Metronidazole, Tinidazole, Secnidazole and Ornidazole in the case of Bacterial Vaginosis 2008-2011.
Chief Investigator : Dr. Alka Kriplani
Funding Agency : Department of Science & Technology
Duration : 2008-2011.

Title : Effectiveness and safety of 2 vs 3 doses of HPV vaccine in preventing cervical cancer: An Indian Multi-centre randomized trial.
Chief Investigator : Dr. Neerja Bhatla
Funding Agency : WHO-IARC
Duration : 2009-2014
Total funding : US $ 65,000.

Title : Evaluation of efficacy and anti-inflammatory action of Placentrex™ in women with inflammatory Pap smears.
Chief Investigator : Dr. Neerja Bhatla
Funding Agency : Albert David Ltd
Duration : 2010-2011
Total funding : Rs.2,50,000/-. 

Title : A Phase III clinical trial to demonstrate the Immunogenicity, Tolerability, and Manufacturing Consistency of V503 (A Multivalent Human Papillomavirus [HPV] L1 Virus-Like Particle [VLP] Vaccine) in Preadolescents and Adolescents (9 to 15 year olds), with a comparison to Young Women (16 to 26 year olds).
Chief Investigator : Dr. Neerja Bhatla
Funding Agency : MSD Pharmaceuticals Pvt. Ltd
Duration : 2010-2011
Total funding : Rs. 8,80,000/-. 

Title : Perifollicular vascularity and follicular fluid vascular endothelial growth factor (VEGF) concentration in in-vitro fertilization (IVF) cycles
Chief Investigator : Dr. Neena Malhotra
Funding Agency : AIIMS Research Grant
Duration : 2008 – 2010
Total Funding : Rs.2,00000/-

Title : CORONIS – International study of caesarean section surgical techniques – a randomized factorial trial
Chief Investigator : Dr. J.B. Sharma
Funding Agency : University of Oxford, U.K.
Duration : March 2007 to March 2011
Total Funding : Rs. 72,00,000/-

Title : Efficacy of DOTS treatment of Genital Tuberculosis
Chief Investigator : Dr. J.B. Sharma
Funding Agency : Central TB Division, Ministry of Health & F.W., Govt. of India
Duration : March 2009 to March 2011
Total Funding : Rs. 40,00,000/-

**Title:** Efficacy of DOTS treatment in Genital Tuberculosis

**Chief Investigator:** Dr. Neeta Singh

**Funding Agency:** Central TB Division, Ministry of Health & F.W., Govt. of India

**Duration:** March 2009 to March 2011

**Total Funding:** 40,00,000/-

**Departmental Research**

**Completed**

1. Role of middle cerebral artery peak systolic velocity in predicting fetal anemia in Rh. Isoimmunisation after previous intrauterine transfusions.
3. Prospective randomized comparative study of total laparoscopic hysterectomy, laparoscopically assisted vaginal hysterectomy and non descent vaginal hysterectomy for the treatment of benign diseases of the uterus.
4. Use of letrozole versus clomiphene citrate combined with gonadotropin in superovulation and IUI cycles.
5. Evaluation of role of FDG-PET/CT in staging and management of ovarian malignancies.
6. To determine the correlation of stage and imaging of endometriosis with fertility outcome
7. Evaluation of positron emission tomography Scan (PET Scan) in preoperative assessment of cases of endometrial carcinoma.
8. Assessment of ovarian reserve in infertile woman with genital tuberculosis.
9. Relationship of fetal Doppler velocimetry to biophysical profile and fetal outcome in normal pregnancies and in pregnancies with intrauterine growth restriction.
10. Feasibility of virtopsy: minimally invasive autopsy using USG imaging and percutaneous organ biopsies as an alternative to open.

**Ongoing**

1. Sentinel Lymph node biopsy in endometrial carcinoma
2. A randomized comparative study of ovarian reserve following two different techniques of laparoscopic cystectomy in ovarian endometrioma
3. Correlation of erythropoietin levels and serum transferrin receptor levels with other hematological indices in patients with iron deficiency anaemia in late pregnancy
4. Gabapentin in management of postmenopausal symptoms
5. To evaluate the efficacy of dehydroepiandrosterone (DHEA) therapy in cases of premature ovarian failure with infertility
7. Role of sperm DNA damage and oxidative stress on outcomes of assisted reproductive techniques
8. A randomized controlled study of minimal stimulation IVF with two different protocols in normal responders
10. Analysis of pregnancy outcomes and fetal complications in women undergoing prenatal diagnostic tests.
11. To study the role of combined hormonal vaginal ring in the management of dysfunctional uterine bleeding.
13. Evaluation of dehydroepiandrosterone (DHEA) therapy as an adjunct to gonadotrophins for ovulation induction in premature ovarian ageing.
15. Randomized comparative study of conventional minilaparoscopy versus modern minilaparoscopy in patients of infertility.
16. Evaluation of efficacy of tranexamic acid in reducing blood loss during and after caesarean section.
17. Prediction of preterm delivery by determination of fetal fibronectin in vaginal secretions
18. To study and compare the cost effectiveness of IVF minimal stimulation protocol versus the conventional protocol in a developing country hospital setup.
19. Role of Anastrozole for treatment of symptomatic leiomyoma in premenopausal women
20. A Clinical Trial comparing thermal balloon ablation and levonorgestrel intrauterine system in patients with dysfunctional uterine bleeding.
22. Final protocol and Training manual – Manual for laboratory training on utility and operational feasibility of using the Haemoglobin Colour Scale (HCS) for haemoglobin estimation in the Indian setting
23. Evaluation of efficacy of human placental extract and lycopene in clearing inflammatory cervical smears
24. Screening for inherited thrombophilias in women with adverse pregnancy outcome.
25. Detection and quantification of fetomaternal hemorrhage (FMH) following deliveries in Rh-ve non immunized pregnancy by KBT, flow cytometry.
26. Comparison of harmonic scalpel with bipolar cautery in laparoscopic assisted vaginal hysterectomy.

27. A comparative study of VIA, cytodiagnosis, HPV testing and colposcopy as tools for cervical cancer screening.

28. Screening with cytology, visual inspection, acetic acid and Lugol’s iodine for early detection of cervical neoplasia and comparative evaluation of single – versus double freeze cryotherapy technique in the treatment of cervical intraepithelial neoplasia.

29. Doppler assessment in various fetal vessels and fetal weight estimation using antenatal soft tissue thickness in intra uterine growth restriction with normal pregnancies.


32. Effect of intraperitoneal bupivacaine in reducing postoperative pain after laparoscopic gynaecological surgery.

33. Endometrial changes and ovarian function in women with early breast cancer.

34. Prophylactic administration of micronized progesterone in prevention of preterm labour in women at increased risk.

35. Correlation of stage and imaging of endometriosis with fertility outcome.


37. Comparison of uterine and radial artery flow changes detected by pulse Doppler in women undergoing stimulated intrauterine insemination for unexplained infertility.

38. To compare three different time regimen of vaginal misoprostol after oral Mifepristone for medical abortion.

39. Transvaginal ultrasound markers for ovarian reserve and periovarian adhesions after laparoscopic ovarian drilling in patients with clomiphene citrate resistant polycystic ovarian syndrome.

40. Comparison of the effectiveness of single versus double intrauterine insemination in infertile couples.

41. Role of PET in staging of ovarian malignancies.

42. To compare BPP with Doppler in pregnant patients with IUGR in normal pregnancies.

43. Ovarian function and endometrial changes in case of carcinoma breast.

44. Comparative study between MRI and Ultrasound in prenatal diagnosis using autopsy or postpartum imaging as a standard of reference.

45. Application of PET scan in preoperative evaluation of carcinoma endometrium.

46. Effect of oral contraceptive containing ethinyl estradiol combined with drospirenone vs desogestrel on clinical and biochemical parameters in patients of PCOS.

47. The Comparison between laparoscopic assisted vaginal hysterectomy with non descent vaginal hysterectomy for large large uteri - a randomized clinical trial.
48. Role of MRI in evaluation of pelvic organ prolapse and its relationship with POPQ classification.
49. Comparing thermal balloon ablation and levonorgestrel intrauterine system in patients with dysfunctional uterine bleeding.
50. Role of direct fetal intravascular immunoglobulin therapy in Rhesus isoimmunized pregnancies.
51. Evaluation of anti-mullerian hormone as a marker of ovarian response in IVF cycles.
52. Sonographic placental investigation in early pregnancy: correlation with fetal and maternal outcome in singleton pregnancy.
53. Clinical, imaging, endoscopic and laboratory evaluation of female genital tuberculosis.
54. Evaluation of the Screen-and vaccinate strategy as a model for comprehensive cervical cancer prevention.
55. To evaluate endometrial and sub endometrial blood flows in the prediction of pregnancy during in-vitro fertilization treatment.

**Collaborative Research**

**Completed**
1. Role of mifepristone (RU 486) in the management of Uterine Leiomyoma. Indian Council of Medical Research
2. Role of circulating angiogenetic factors in the pathogenesis of Preeclampsia. Anatomy, AIIMS

**Ongoing**
1. Development of Human Papillomavirus vaccine prototype/s – Molecular Epidemiology of HPV types prevalent in India and Identification of HPV-16 L1&E 6 variants. Department of Biochemistry, AIIMS
2. Apoptosis in placental membranes in pre-eclampsia: An immunohistochemical study. Department of Anatomy, AIIMS
3. Role of sperm factors in recurrent spontaneous abortion. Department of Anatomy, AIIMS
4. PEARL study (post menopausal evaluation and risk reduction with lasofoxifene) Global research and development, Pfizer Ltd., Pfizer Ltd. Department of Endocrinology, AIIMS
5. The Generations trial. Effects of Arzoxifene on vertebral fracture incidence and on invasive breast cancer incidence in postmenopausal women with osteoporosis or with low bone density. Department of Endocrinology, AIIMS.
6. Sequence based identification of mycobacterium species isolated from extra-pulmonary tuberculosis cases., Lab. Medicine, AIIMS.
7. Establishment and characterization of human fetal liver hematopoietic stem cell line. Medical Oncology, IRCH, AIIMS.
8. To study the subset of Antiphospholipid syndrome defined by anti b2 glycoprotein 1 anti body. Lab. Medicine, AIIMS
9. Role of centchroman in benign breast disease. Department of Surgery, AIIMS
11. Chromosome Aneuploidy and Mosaicism in preimplantation Embryo. Deptt. of Reproductive Biology, AIIMS.
12. Prenatal development and maturation of the human inferior colliculus. Deptt. of Anatomy, AIIMS.
13. Evaluation of ovarian function in female patients with multi-bacillary leprosy. Department of Dermatology & Venereology, AIIMS.
14. Biostatistical Aspects in Case control Studies on Unintended Pregnancies. Department of Biostatistics, AIIMS.
15. A study of molecular basis of endometrial receptivity for blastocyst implantation in primates. Department of Physiology, AIIMS.
16. Prevention of parent to child transmission of HIV. Deptt. of Paediatrics & Microbiology, AIIMS.
18. Diabetic mellitus and vulvo vaginal candidiasis : prevalence and its rational management. Department of Endocrinology, AIIMS.
19. Prevalence of bacterial vaginosis and other reproductive tract infections among symptomatic women (study in tertiary centre). Deptt. of Microbiology, AIIMS.
20. To study the effect of human chorionic gonadotrophin (hCG) on vascular endothelial growth factor (VEGF) expression by human mid-secretary endometrial cells grown on rat-tail collagen matrix. Deptt. of Physiology, AIIMS.
21. Effect of progesterone on hsp 27 expression in human, mid-secretary stage endometrial cells grown on collagen matrix in vitro. Deptt. of Physiology, AIIMS.
22. Elucidation of endometriosis based on transcript profiling. Deptt. of Physiology, AIIMS.
23. To study the prevalence of vitamin D deficiency in pregnant women at first and third trimester during the routine care. Deptt. of Endocrinology, AIIMS.
24. Correlation between first trimester glucose screening & serum insulin levels with development of gestational diabetes mellitus in pregnancy. Deptt. of Endocrinology.
25. An in vitro model study of hyperlipoproteinemia on the degree of LDL receptor expression in placental trophoblast cells: correlation with oral steroid contraceptive induced hyperlipoproteinemia. Indian Council of Medical Research.
26. Comparative evaluation of neo adjuvant chemotherapy vs primary debulking surgery in the management of advanced epithelial ovarian cancer. IRCH, AIIMS
27. pl61NK 4a and E-cadherin expression profile in pre-cancerous lesions of cervix and cervical carcinomas. Deptt. of Pathology, AIIMS.
28. Validation of Strategies for Rapid Prenatal Detection of Aneuploidies. Deptt. of Genetics, AIIMS.
29. Evaluation of the diagnostic potential of fetal DNA in maternal plasma as a possible tool for Non-invasive prenatal diagnosis of common single gene disorders. Deptt. of Genetics, AIIMS.
30. Non invasive prenatal diagnosis of Beta Thalassemia and fetal RhD status. Deptt. of Paediatrics, AIIMS.
31. Establishment & characterization of human fetal liver hematopoietic stem cell line. Deptt. of Medical Oncology, IRCH, AIIMS
32. Endothelial progenitor cells as biomarker of disease activity in multiple myeloma. Deptt. of Oncology, AIIMS
33. Use of Hb An estimation by HPLC for prenatal diagnosis of b-thalassemia in fetal blood samples during second trimester pregnancies. Deptt. of Haematology, AIIMS.
34. Delineation of molecular basis of trophoblast invasion. National Institute of Immunology.
35. Implantation of human retinal pigment epithelial (RPE) cells in the 6-OH DA lesioned rat model of Parkinson’s disease. Deptt. of Neurology, AIIMS.
36. Insights into the role of one-carbon metabolism in progression of cervical carcinogenesis. Department of Biochemistry

PUBLICATIONS


55. Singh N. Vaid A, Mittal S, Dadhwal V. “Successful pregnancy outcome in case of a huge incisional hernia by elective Caesarean delivery and herniorrhaphy by Mayo Overlap technique “Indian Journal of Surgery Ref.: Ms. No. IJOS-D-09-00381R1


64. Sehgal R, Mittal S, Aruna J. Medical Termination of Pregnancy and Concurrent Contraceptive Adoption in a Tertiary Referral Hospital in Delhi. Ind J Pub Health. 2009; 53, 4:


Book


Chapters in Books

1. Agarwal N, Dr. Kulshrestha V. Etiopathogenesis of endometriosis in FOGSI Focus on endometriosis an enigma 2009, 6-10.


21. Mittal S. “Gynaecological Disorders” and “Hormone Replacement Therapy”. Editor Dr. O.P. Sharma. A guide to Elderly Care. WHO Country Office to India, pp.471-480

22. Mittal S. Contributed to the chapter on “Medical Sciences” Editors H.Y. Mohan Ram & P.N. Tandon. Science in India – Achievements and Aspirations, INSA, First Ed. 2010


**PATIENT CARE**

Hospital care: Facilities available with department includes special clinic and special laboratory facilities besides the regular Gynaecology outdoor which is held everyday. The following special clinics are held.

<table>
<thead>
<tr>
<th>Clinics</th>
<th>Number of Patients Attended</th>
</tr>
</thead>
</table>

**Operations Performed**

**Gynaecological:**

Major:
- Surgery for benign diseases - 1500
- Oncology Surgery - 230
- Infertility - 730
- Endoscopy surgeries: Laparoscopy - 2000
- Hysteroscopy - 160
- Plastic surgery - 100
### Minor:
- **D&C/EA** - 2880
- **Colposcopy/cryo/LEEP** - 120
- **Diagnostic hysteroscopy** - 1440
- **MTP** - 813
- **Pap’s smear** - 1500
- **Cervical biopsies** - 380

### Obstetrics:
#### Major:
- **LSCS** - 557

#### Minor:
- **Operative vaginal deliveries: Forceps** - 94
- **Vaginal deliveries Normal** - 798

### Fetal Medicine:
- **Cordocentesis** - 168
- **Chorionic Villus Sampling** - 240
- **Amniocentesis** - 210
- **In-Utero Infusion** - 180

#### High risk Obstetrics
- **Obstetric ultrasound** - 3000
- **NST** - 1100
- **BPP** - 1200

### Laboratory Investigations:
- **Urine Pregnancy test** - 1100
- **Haemoglobin** - 1600
- **Blood Groups** - 1200
- **Urine Alb./ Sug.** - 3000
**IVF Facility:**

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>IVF</td>
<td>124</td>
</tr>
<tr>
<td></td>
<td>ICSI</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Antagonist</td>
<td>55</td>
</tr>
<tr>
<td></td>
<td>Agonist</td>
<td>61</td>
</tr>
<tr>
<td></td>
<td>IUI</td>
<td>71</td>
</tr>
<tr>
<td>2.</td>
<td>Cycles cancelled</td>
<td>13</td>
</tr>
<tr>
<td></td>
<td>Reasons for cancellation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Failure to respond</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Fertilization failure</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>Severe OHSS</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Converted to IUI</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>EHS</td>
<td>12</td>
</tr>
<tr>
<td>3.</td>
<td>Frozen Embryo cycles</td>
<td>49</td>
</tr>
<tr>
<td>4.</td>
<td>PESA</td>
<td>11</td>
</tr>
<tr>
<td>5.</td>
<td>Total number of Pregnancies</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Ongoing</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Delivered</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>Abortions</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>Ectopic</td>
<td>-</td>
</tr>
<tr>
<td>6.</td>
<td>Andrology</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Semen Analysis</td>
<td>356</td>
</tr>
<tr>
<td></td>
<td>Semen wash for IUI</td>
<td>69+14(Donor IUI)=83</td>
</tr>
<tr>
<td></td>
<td>Semen preparation for IVF</td>
<td>160</td>
</tr>
<tr>
<td>7.</td>
<td>Ultrasounds</td>
<td>1553</td>
</tr>
<tr>
<td></td>
<td>IVF cycles</td>
<td>148</td>
</tr>
<tr>
<td></td>
<td>Follicle monitoring</td>
<td>444+IUI(160)</td>
</tr>
<tr>
<td></td>
<td>Day 2 AFC &amp; Day 21 ET</td>
<td>700+693</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>1553</td>
</tr>
<tr>
<td>8.</td>
<td>OPD registrations (Old &amp; New)</td>
<td></td>
</tr>
</tbody>
</table>

**POST PARTUM PROGRAMME**

The Post Partum Programme (PPP) is a maternity centred 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. It is run as an integrated multidisciplinary exercise where the department of Obstetrics and Gynaecology coordinates with departments of Paediatrics, Community Medicine, Surgery and Anaesthesiology.

Achievement of different Family Planning Methods, Post Partum Programme

<table>
<thead>
<tr>
<th>Methods</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>CuT</td>
<td>608</td>
</tr>
<tr>
<td>Oral Pills (13 cycles=1 user)</td>
<td>cycles /145 patient + 389 pkts</td>
</tr>
<tr>
<td>Conventional Contraceptives (72 pieces=1 user)</td>
<td>104000 pieces (3674 patients)</td>
</tr>
</tbody>
</table>

Sterilisation
(a) Tubectomy 995
(b) Vasectomy 43

Note: Family Planning Methods are free of target.

Maternal and Child Health (MCH) Performances

Post Partum Programme

<table>
<thead>
<tr>
<th>Services</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pregnant Women</td>
<td></td>
</tr>
<tr>
<td>TT (Mothers) (2nd or Booster)</td>
<td>1st – 1595</td>
</tr>
<tr>
<td>Children (0-1) Year</td>
<td>IIInd - 1704</td>
</tr>
<tr>
<td>DPT (3rd Dose)</td>
<td>M + F = 622/420</td>
</tr>
<tr>
<td>Polio (3rd Dose)</td>
<td>M + F = 1211/1109</td>
</tr>
<tr>
<td>BCG</td>
<td>1331 + 1189</td>
</tr>
<tr>
<td>Measles</td>
<td>696 + 725</td>
</tr>
<tr>
<td>Children under five years</td>
<td></td>
</tr>
<tr>
<td>DT</td>
<td>455 + 400</td>
</tr>
</tbody>
</table>

Community Services/Camps

The Faculty of the department participated in community awareness programmes through public education talks in radio, phone-in programmes and panel discussions on AIR and allied T.V. channels.

2. Reproductive Child Health camps organized by the Directorate of Family Welfare at different hospitals of Delhi Govt.
AWARDS AND HONOURS

Dr. Suneeta Mittal

1. Editor - Reproductive Health Library, WHO
2. Vice-President - North Zone, ISOPARB
3. Fellow of Royal College of Obstetricians & Gynaecologists, London
4. Vice-President, Indian Society for Study of Reproduction & Fertility
5. Short Term Consultant for Technical assistance to WHO on Safe abortion in DPRK
8. Member – International Clinical Epidemiology Network (INCLEN)
9. Member – Indian Clinical Epidemiology Network (IndiaCLEN)
10. Member – Global Network for Perinatal & Reproductive Health (GNPRH)
11. Member – Asia Pacific Network for Promotion of Emergency contraception (APNEC).
12. Member – International Consortium for Medical Abortion (ICMA)
13. Member – Core Assessment committee, ICMR, Delhi.
15. Member – Editorial Board for Asian Journal of Obst. & Gynae; Obstetrics & Gynaecology today; Samachar, MOHFW, Govt. of India; Scientific Communications in Obstetrics & Gynaecology.
16. Appointed as a Consultant in the panel of consultants/experts to extend medical advice to the Vice President of India.
17. Chairperson Project Review Group on Reproductive Health of Indian Council of Medical Research.
18. Member, Expert Committee to review marketing of Letrozole for Induction of ovulation in anovulatory infertility constituted by the Directorate General of Health Services.
19. Member Technical Advisory Group (TAG) of PATH.
20. Member – Committee of ASSOCHAM and Planning Commission to make this country a better place to live and pay tribute to womanhood and motherhood.
21. Member – Expert Committee to examine issues related to the advertisement of Emergency Contraceptive (EC) Pills in the media of DGHS.
22. Member – IC-SCRT for Medanta - The Medicity.
24. Reviewer – National Journals
a. Indian Journal of Medical Research, ICMR, 1997-onwards;
c. National Medical Journal of India, 1999 onwards
d. Journal of Obstetrics & Gynaecology of India
e. Annals of National Academy of Medical Sciences, since 2005
f. Indian Journal of Community Medicine

25. Reviewer – International Journals
   a. International Journal of Obstetrics & Gynaecology of India, 2000 onwards,
   b. Archives in Obstetrics & Gynaecology, since 2006
   c. Reproductive Health, since 2001
   d. Reproductive Health Matters, 2005 onwards
   e. British Biomedical Central Journal of Pregnancy & Childbirth, 2007 onwards

**Dr. Alka Kriplani**

1. Member Tele medicine Executive Body, AIIMS, 2008-2010.
3. Member-Committee dealing with complaints regarding sexual harassment of women at AIIMS, 2009-2012.
7. Member – Committee for promoting Hindi at AIIMS, 2009.
8. Member – Hospital Store Purchase Committee, AIIMS, 2009.
9. Special Invitee – Advisory Council of AIIMS Student’s Union Elections, 2010
10. Member – Committee for inspecti for Hindi usage, AIIMS, 2010
12. Editor – Asian Journal Obs & Gynae Practice.
14. Vice President, NARCHI (National Association for Reproductive & Child Health of India) : 2009
17. Awarded FOGSI Dr. Nimish Shelat Research Prize for the year 2009 in Reproductive Endocrinology for the year 2009 for the best thesis on the subject of Reproductive Endocrinology

18. Chief guide for the thesis, Use of clomiphene versus letrozole combined with gonadotrophin in superovulation IUI cycles. Awarded FOGSI- Mrs. Indumati Jhaveri Prize for the best presentation on official theme of congress at 53rd AICOG, Guwahati, Jan 2010. (Dr. Amol Lunkad)

Dr. Sunesh Kumar

Member – Project Advisory Committee on “Screening for Common Cancers in three districts of Himachal Pradesh being conducted by ICMR

Dr. Deepika Deka

1. Chairman – Genetics & Fetal Medicine Committee (FOGSI)-(2007-2010)
2. Chairman - Perinatal Medicine Committee Assoc. Obst. & Gynae of Delhi (AOGD)
3. Executive Member of following Committees of FOGSI :
   a. Imaging Sciences Committee
   b. International Exchange Committee
4. UNFPA - Technical Advisory Committee Member for Maternal Morbidity.
5. Peer Reviewer :
   a. Journal of Obstetrics & Gynaecology of India
6. Editorial Board Member of Journals :
   a. Obs & Gynae Today
7. AIIMS – Member of the Staff Council for the Year 2006-2007.
8. Department of O & G, AIIMS
   a. Consultant in charge - Fetal Medicine OT
   b. Consultant in charge - Obst. & Gynae OPD
9. UG & PG Examiner for Delhi Univ., Gau. University, MAHE, Calcutta Univ. also (PhD), Bharti Vidhyapeeth - Pune, National Board of Examinations , AMU, Faridkot, Utkal Univ. etc.

Dr. Neerja Bhatla

1. Fellowship of National Academy of Medical Sciences.
2. Fellowship of International Medical Sciences Academy.
3. Elected as Vice President AOGIN for 2nd Term.

Dr. Neena Malhotra

1. Corion Research Award (senior category) – by the Federation of Obstetrics and Gynecological societies of India (FOGSI) for research paper “ Peritoneal fluid IL-8 and Leptin levels in women
with Endometriosis”. Presented at the 53rd All India Congress of Obstetrics and Gynecology, Guwahati, January 2010.

2. Overseas Research Fund- by the Royal College of Obstetricians and Gynecologists, UK, to visit Assisted Conception units at Guy’ Hospital, London and Aberdeen Maternity Hospital, Aberdeen, U.K.

Dr. Vatsla Dadhwal
1. Fellowship of Indian College of Obstetricians & Gynaecologists

Dr. Nutan Agarwal
1. Organizing Secretary for CME on Gynae. Endocrinology held on 18th April, 2009 at AIIMS, New Delhi.
2. Co-editor of FOGSI Focus on ‘Endometriosis an Engima’
3. International Medical Excellence Award by IFS.
4. Silver Medal for poster on weekly 70 mg oral alendronate therapy in postmenopausal osteoporosis women presented at CME on Gynae. Endocrinology organized by Deptt. of Obst. & Gynae. AIIMS under agis of FOGSI, ICOG, AOGD, April, 2009 (Dr. Vidushi Kulshreshta) (Dr. Nutan Agarwal, Principal Investigator).

Dr. J.B. Sharma
1. UG and PG Examiner in Delhi University and Dehradun.
2. MRCOG Examination Coordinator for Delhi for last 6 years
3. In-charge of postpartum program of AIIMS for last 4 years actively participating in Family Welfare Programs of Govt. of India.
4. Editor of Obs & Gyne Today and Associate Editor of 3 other Journals:
   a. Int. J. Gynae. Obstet India
   b. Asian J Obstet Gynae
   c. Int J Gynae Plastic Surgery
   d. Journal Pediatrics Obstetrics Gynaecology
   e. Ind J Gynae Endoscopy
5. Developed Sharma’s Modified Leopold maneuvers and Sharma’s Right & Left Lateral Maneuvers for abdominal for abdominal palpation during late pregnancy
   b) Int J Gynae Obstet India
   c) Archives in Obstetrics & Gynaecology
   d) BMC
f)  Ind J Med Research


8. PG Forum Co-ordinator

SIGNIFICANT EVENTS

1. Established Endoscopy Centre for Training Course on Minimally Invasive Gynaecology under Women’s Health Initiative

2. Construction of ART Centre at the Department of Obst. & Gynae.

VISITING SCIENTISTS

1. Dr. P.C. Ho
2. Dr. Helena von Hertzen
3. Dr. Allan Templeton
4. Dr. Kristina Emzell-Danisson
5. Dr. Michael T Mbizvo
6. Dr. Katherine Ba Thike
EDUCATION

Undergraduate and Postgraduate

The department had several doctors from various parts of the country and Afro-Asian region for short-term training in various aspects of Orthopaedics which include spine surgery, hand surgery, arthroscopy, arthroplasty and trauma surgery.

The department holds regular undergraduate and postgraduate teaching in the form of lectures, bedside teaching, assessment and clinicopathology seminars.

CONTINUING MEDICAL EDUCATION

Dr. P.P. Kotwal


Dr. S. Rastogi

2. Current concept in arthroplasty Aug 2009 at AIIMS.

Dr. H.L. Nag

1. Workshop on”Meniscal Injury” was organized by the Deptt. Of Orthopaedics on 18th April,2009 at Conference Hall at AIIMS.
2. A “Cadaver Workshop on Shoulder” was organized by the Department of Orthopaedics during DOACON-2010 on 10th Jan., 2010 at Anatomy Dissection Hall, AIIMS.
Dr. C.S. Yadav
1. AIIMS cadaver arthroplasty course 2009, 2nd & 3rd May at AIIMS as Course Director.
2. AIIMS cadaver arthroplasty course 2010, 20th & 21st March at AIIMS as Course Director.
3. Organized lectures of Prof Wilkins, Prof Sullivan, Prof Elijabeth on 1st August 2009 at AIIMS.
4. 12th Sep 2009, Basic arthroplasty course, Ganga Ram Hospital, Delhi., Moderated live demonstration surgery done by Prof. Nagi
5. Demonstrated hands on workshop over THR on 12th Sep 2009, Basic arthroplasty course, Delhi.

Dr. Ravi Mittal
1. Co-organizing secretary of symposium on meniscus injuries at AIIMS on 18 April 2009

Dr. Vijay Kumar

Lectures delivered

Dr. S. Rastogi
8. “Pathological fractures “on 4th Oct.”09 in the MIDCON ’09 at Haldwani. Uttaranchal chapter of IOA.
14. “Recent advances in the management of fracture neck of femur” Dubai Bone & Joint Centre Orthopaedic Update 2010 held on 4th Feb.2010 at UAE.
15. “Recent advances in the management of distal radial fractures”. Dubai Bone & Joint Centre Orthopaedic Update 2010 held on 4th Feb.2010 at UAE.
18. “Megaprostheses in Bone Tumors” in West Bengal Ortho.association at Siliguri, on 12-14th Feb.2010
22. “Role of surgery in limb preserving approaches for bone and soft tissue sarcomas of extremities.” RGCON 2010 at India habitat centre, New Delhi from 26-28th March2010 organized by Rajiv Gandhi Cancer Institute & Research Centre, New Delhi

Dr. R. Malhotra

1. “Classification of pelvic ring injuries - A clinical perspective” in AO Advance Course held at India Habitat Center, New Delhi, on April 16 - 18, 2009.
2. “Classification of Pelvis Fractures” in AO Advance Course held at India Habitat Center, New Delhi, on April 16 - 18, 2009.
3. “MIS: Angel or Devil” in Delhi Knee Symposium held at Sant Parmanand Hospital, New Delhi, on April 25, 2009.
4. “Technique of Femoral Cementing” in NOVACON 2009 held at Essex Farms, New Delhi on April 26, 2009.”Exercises for Osteoporosis” on the occasion of release of Book on Exercises for Bone Health at AIIMS, on 16.06.2009.”Total Hip Replacement in Patients with Severe Osteoporosis” in Symposium on Osteoporosis held at Hotel Taj Krishna, Hyderabad on 28.06.09.


11. “Multiple cannulated cancellous screws, less invasive, more rewarding” in Academia Orthopaedics 2009 held at Jamnagar (Gujarat) on October 9-11, 2009.


13. “Osteoporosis – All that you need to Know” in Indo-French Technical Association Meeting in Orient Hall, Asiad Village, on Oct 24, 2009.


16. “Challenges of Osteosynthesis in Osteoporotic Bones” delivered in symposium on “Optimising Osteoporosis Treatment” held at The Retreat, Erangal Beach, Mumbai on (Sunday) 06.12.09.


18. Revision Total Hip Replacement – a saga of a decade of challenges and trials” in Annual Conference of Delhi Orthopaedic Association (DOACON 2010), New Delhi, Jan 9-10, 2010.


Dr. H.L. Nag

1. Is meniscus a vestigial structure”” at Workshop on Meniscus Injury at AIIMS, 18\textsuperscript{th} April, 2009.
2. Clinical Examination of the Knee Joint” at Indian Arthroscopy Society Cadaver Workshop at Safdarjung Hospital, 12\textsuperscript{th} July, 2009.
3. “Clinical assessment of ACL deficient knee joint” at CME, Guwahati Medical College, Assam, 26\textsuperscript{th} August, 2009.
4. “Arthroscopic assisted ACL reconstruction” at CME, Guwahati Medical College, Assam, 26\textsuperscript{th} August, 2009.
5. “Clinical examinatin of the knee joint” at CME, Indian Arthroscopy Society Cadaver Workshop at Safdarjung Hospital, 20\textsuperscript{th} September, 2009.
6. “How to read the MRI of knee joint” at CME, Indian Arthroscopy Society Cadaver Workshop at Safdarjung Hospital, 20\textsuperscript{th} September, 2009.
8. “PCL injury when to operate and when not to operate” at CME, 6\textsuperscript{th} Sports Medicine and Arthroscopy Workshop at Sir Ganga Ram Hospital, New Delhi, 7\textsuperscript{th} March, 2010.

Dr. C.S. Yadav

1. 14\textsuperscript{th} June, at IGIMS, Patana, CME organized by Bihar Orthopaedic Association, Did live demonstration surgery over THR.
2. 9\textsuperscript{th} Jan., Table instructor TKR Workshop, DOACON-2010.

Dr. Ravi Mittal

1. Principles of using LCP at LCP symposium at Sriganganagar on 28 March 2009
2. Distal femoral LCP at LCP symposium at Sriganganagar on 28 March 2009
3. Table Instructor at AO course on advances in operative fracture management at New Delhi on 16-18 April 2009
4. Meniscus repair techniques at symposium on meniscus injuries at AIIMS on 18 April 2009
5. Stiff elbow at elbow symposium organized by South Delhi Orthopedic Society on 29.8.09
6. Shoulder X-ray and MRI- what to see at DITO on 8.11.09
7. Imaging of ACL graft at MAMC sports injury and arthroscopy update on 13.12.09
8. Recent trends in fracture management using LCP at Sanjay Gandhi memorial hospital New Delhi on 19.12.09
9. Distal femoral LCP at Sanjay Gandhi memorial hospital New Delhi on 19.12.09
10. Recent advances in long bone nonunion at DBAJ Orthopaedic update 2010 in Dubai on 4.2.10
11. Double bundle ACL reconstruction at DBAJ Orthopaedic update 2010 in Dubai on 4.2.10
12. Recent advances in non unions of long bone at the meeting of West Delhi Orthopedic Club on 13.2.10
13. Frozen shoulder at Delhi Shoulder Course at ISIC on 6.3.10
14. Imaging of cruciates at sports injury and arthroscopy update at Gangaram Hospital on 7 March 2010
15. Double bundle tibial inlay method of PCL reconstruction at sports injury and arthroscopy update at Gangaram Hospital on 7 March 2010

NATIONAL AND INTERNATIONAL CONFERENCES

Dr. S. Rastogi
1. Annual conference on DOACON-2009 as Co-Chairman.

Dr. Ravi Mittal
1. Part of the organizing committee of annual conference of IFSM on 6-8 Nov., 2009.
2. Organising Secretary of DOACON-2009 at AIIMS on 9-10 January, 2010

Lectures delivered

Dr. P.P. Kotwal
1. “Role of LCP in fractures of the proximal humerus” at the “Workshop on Locking Compression Plate” held during the Annual Conference of the Delhi Orthopaedic Association, January 2009.
2. “Role of LCP in fractures of the distal radius” at the “Workshop on Locking Compression Plate” held during the Annual Conference Delhi Orthopaedic Association, January 2009.
4. “Role of surgery in Rheumatoid Hand” at the AIIMS Rheumatology Update held in, Feb. 2009.
9. “Partial Thickness Skin Grafting” at the Basic Hand Course organized under the aegis of Indian Society for Surgery of the Hand held at Ludhiana, March 2009.


16. “Microvascular Fibular Diaphyseal Transplant for congenital pseudoarthrosis of tibia” at MIDCON 2009 at Delhi Orthopaedic Association held at New Delhi, August 2009.

17. “Common Painful condition of the upper limb’ at the Hand CME at Indore, August 2009.


29. “Proximal Humeral Locking Plate – Trips & Pearls” at the Pre-Conference Workshop on “Fractures of the Proximal Humerus” organized during the 36th Annual Conference of the Bihar Orthopaedic Association held at Supaul, Bihar; February 2010.
30. “Tuberculosis – An Enigma” at the Pre-Conference Workshop on “Fractures of the Proximal Humerus” organized during the 36th Annual Conference of the Bihar Orthopaedic Association held at Supaul, Bihar; February 2010.

31. “Shoulder Arthroplasty in Proximal Humeral Fractures” in the Delhi Shoulder Course; March 2010.

32. “Carpal Instabilities: Treatment Options” at the Annual Conference of Indian Orthopaedic Association held at Bhubaneswar in November 2009.

33. “Classification of Multi National Injuries” at the Annual Conference of Indian Orthopaedic Association held at Bhubaneswar in November 2009.

34. Co-Chairman, A.O. Advanced Course, New Delhi, April 2009.

35. Chaired a scientific session at the A.O. Advanced Course, Organized under the aegis of A.O. Education, Switzerland, and held at New Delhi, April 2009.

36. Co-Chairman of the A.O. Advanced Course, Organized under the aegis of A.O. Education, Switzerland, and held at New Delhi, April 2009.

37. “Proximal humeral fractures” at the Advanced A.O. Course on Principles in operative fracture management, organized under the aegis of AO Education, Switzerland at New Delhi, April 2009.


40. “Studies on Psychological Aspects” at a Workshop on Antarctic Research held at National Institute of Polar Research, Tokyo, Japan, August 2009.

41. “Skin Changes” at a Workshop on Antarctic Research held at National Institute of Polar Research, Tokyo, Japan, August 2009.


43. Governor, of a practical exercise on fractures of the distal radius during the A.O. Advanced Course, organized under the aegis of A.O. Education, Switzerland and held at New Delhi, 2009.

44. “Sports Injuries of the Hand and Wrist” at the “Sports Medcon” organized by the Sports Federation of India, at New Delhi, November 2009


47. “Surgical Reconstruction of the Wrist drop” at the 12th Asian Federation of Sports Medicine Congress held at Amritsar, December 2009.


49. “Foot Drop” at the Arab Health Congress held at Dubai, UAE, Jan. 2010.

50. “Flexor Tendon Injuries in Hand” at Gulf Medical University Medical College, Ajman, UAE, Jan 2010.

51. Chairman Workshop on Stem Cell Potentials in Renal Repair and Regeneration Clinical and Experimental Aspects, AIIMS, New Delhi, December 2009.


57. “Acute Flexor Tendon Injuries” at the ISSH Basic course in Hand Surgery held at Sir Gangaram Hospital, New Delhi; April 2010.

58. “Middle and Proximal Phalanx fracture” at the ISSH Basic Course in Hand Surgery held at Sir Gangaram Hospital, New Delhi; April 2010.

Dr. R. Malhotra


2. Kumar Vijay, Garg Bhavuk, Malhotra R. Results of Total Hip arthroplasty following Acetabular fracture. In, 10th Annual Meeting of The European Federation of National Associations of Orthopaedics and Traumatology (EFORT) Congress at Vienna on June 3-6, 2009.


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Dr. C.S. Yadav

1. LMWH for DVT – Deadly weapon on 22nd Aug in IAACON, 09 at Chennai
2. Lecture on Periprosthetic fracture after TKR IOACON on 22nd Aug in IAACON, 09 at Chennai
3. Surface Arthroplasty – Boon or Bane on 26th Nov IOACON 2009 at Bhuvneshwar
5. Over view of Total hip arthroplasty on 14th June, at IGIMS, Patna, organized by Bihar Orthopaedics Association.
6. Over view of Total knee arthroplasty on 14th June, at IGIMS, Patna, organized by Bihar Orthopaedics Association.
8. Contemporary designs in total hip arthroplasty on 20th March in AIIMS cadaver arthroplasty course 2010.
9. Indian experience with Accolade stem on 11th Sep 2009 in Basic arthroplasty course at Ganga Ram Hospital, Delhi.
10. Surface arthroplasty – boon or bane on 12th Sep in Basic arthroplasty course at Ganga Ram Hospital, Delhi.
11. Soft tissue balancing in TKR on 13th Sep in Basic arthroplasty course at Ganga Ram Hospital, Delhi,
12. Periprosthetic after TKR in filiariasis on 12th Sep in Basic arthroplasty course at Ganga Ram Hospital, Delhi
13. Lecture through teleconferencing at IGNOU, Delhi, 24th Dec., 2009.
14. Bone cuts – Whose jobs ( Jigs& Surgeons ) in TKR Workshop on 9th Jan in DOACON 2010 at AIIMS.
15. What is new in TKR, Symposium on tips & tricks of revision arthroplasty on 12th of Feb 2010 at Apollo hospital
16. THR/Arthroplasty in fracture upper end of femur on 21th Feb, UPCON at Allahabad,
17. Advanced physiotherapeutic intervention, Overview of Arthroplasty & Arthritis on 14th March IAP- CME over Hip & knee arthroplasty
18. What is new in TKR in Symposium on knee arthroplasty on 15th March at Artemis Hospital Gurgaon.
20. Approaches in TKR on 12th March, Indian Spinal Injury Centre, Delhi

22. TKA – Whose job – Jigs or Surgeon on 4th Feb, IOA, Dubai chapter meeting

Dr. Ravi Mittal

1. Complications of ACL reconstruction at knee arthroscopy workshop at NAIOACON at Jammu on 19.2.10.

Dr. Vijay Kumar

1. Uses of Cadaveric Allografts: Guest lecture at Madras Orthopaedic Society meeting at Chennai on 09th Dec 2009

2. Viscosupplementation in Osteoarthritis – Guest Lecture at DOACON 2009, New Delhi 10 Jan 2010

3. Indications and Design Rationale of Mid Head Resection Hip Prosthesis. Guest Lecture at NZIOACON 20 Feb 2010


5. Vijay Kumar, Rajesh Malhotra: Results of Total Hip arthroplasty Following Acetabular fracture: Oral Presentation at 10th EFORT Congress, Vienna, Austria, 3rd -6th June 2009


7. Vijay Kumar, Dharmesh Khatri, Rajesh Malhotra, Revision THR for infected hips using an Antibiotic impregnated cement spacer; Presented at IOACON 2010, Bhubneshwar 25-27th Nov 2009


RESEARCH

Funded Projects

Title: “A new hip hemiarthroplasty option based on femoral stem design suitable for the morphology of proximal femur of elderly Indian population”

Funding Agency : CSIR

Principal Investigator : Prof. Rajesh Malhotra

Co-Investigator : Dr. Vijay Kumar
Duration : 5 years (26.05.2005 – 25.05.2010)
Funds : Rs. 30.33 Lakhs
Title: “Some medico-technical – i. Determining Mechanical properties of ligaments and ii. Development of stereo-cameras for operative / anatomic video-sequences” funded by ICMR.
Funding Agency : ICMR
Principal Investigator : Prof. Rajesh Malhotra
Co-Investigator : Dr. Vijay Kumar, Dr. Anoop Chawla, Dr. S.Mukherjee
Duration : 3 years (1.10-2006 – 30.09.2009)
Funds : Rs. 23.33 Lakhs
Title: “Evaluation of efficacy of platelet concentrates in the treatment of non-union of fracture of long bones”
Funding Agency : ICMR
Principal Investigator : Prof. Rajesh Malhotra
Co-Investigator : Dr. Vijay Kumar
Duration : 3 years (2.01.2008 – 1.01.2011)
Funds : Rs. 27.49 Lakhs
Title: “An Observational Study to Assess Back Pain in Patients with Severe Osteoporosis Treated with Teriparatide Versus Antiresorptives”
Funding Agency : Eli-Lilly Company Pvt. Ltd.
Principal Investigator : Prof. Rajesh Malhotra
Co-Investigator : Dr. Vijay Kumar
Duration : 2 year (9.05.2008 – 9.05.2010)
Funds : Rs. 4.20 Lakhs
Title: “A phase III randomised, parallel group, double-blind, active controlled study to investigate the efficacy and safety of oral 220 mg dabigatran etexilate (110 mg on the day of surgery followed by 220 mg once daily) compared to subcutaneous 40 mg enoxaparin once daily for 28-35 days in prevention of venous thromboembolism in patients following primary elective total hip arthroplasty (RE-NOVATE II)”
Funding Agency : SIRO Clinpharm Pvt. Ltd.
Principal Investigator : Prof. Rajesh Malhotra
Co-Investigator : Dr. Vijay Kumar
Duration : 1 ½ years (6.12.2008 – 6.06.2010)
Funds : Rs. 25.50 Lakhs
Title: “Evaluation of cytokines in patients undergoing total hip replacement and their correlation with osteolysis”.

Funding Agency : ICMR
Principal Investigator : Prof. Rajesh Malhotra
Co-Investigator : Dr. Vijay Kumar, Dr. Kalpana Luthra
Duration : 3 years (30.10.2009 – 30.10.2012)
Funds : Rs. 20 Lakhs

Thesis Supervised:
1. “Assessment of profile of patients with osteoporotic vertebral compression fracture and comparison of conservative invasive and minimally surgery” Dr. Ramparsad.
2. “Evaluation of various modalities for management of pain following total hip arthroplasty” Dr. Tushar.
3. Co-Guide in “Role of $^{18}$F-Fluoride Pet-CT and $^{18}$F-FDG Pet-CT scan in differentiating aseptic loosening from septic loosening in patients with hip replacement” Dr. Rajender Kumar (Nuclear Medicine).

Dr. H.L. Nag
- Development of dual growth factor delivery systems for tissue engineering application”, Dr. H.L. Nag. Funded by Department of Biotechnology (November, 2006 – November, 2009).

Funds : Rs. 39.25 Lacs

Departmental Research

Dr. H.L. Nag

Completed
- Clinical prognostic factors in osteosarcoma.
- Plastination of knee region using silicon (S-10) technique.

Ongoing
- International autologus bone marrow stem cell injectin in avascular necrosis of femoral head and evaluation of outcome using MRI, PET Scan, and bone scan.
- MR evaluation of chronic internal derengements of knee.
  Two bundle ACL recon. assessment

Dr. Ravi Mittal

1. Arthroscopic elbow synovectomy in rheumatoid arthritis – Its effectiveness and MRI correlation
2. Evaluation of different modes of treatment in lateral epicondylitis of elbow

**Dr. Vijay Kumar**

1. Clinico-Radiological Evaluation of Total Knee Arthroplasty. A Short term Retrospective and Prospective Study
3. Comparison of Post operative pain relief by Combined Local Periarticular Wound infiltration and post operative single Short Intra-Articular injection of Bupivacaine with continuous Epidural Analgesia after Total Hip Arthroplasty.
4. Role of F18 Fluoride PET CT and F18 FDG PET CT in painful hip prosthesis to rule out septic versus aseptic loosening.
5. Low Dose Hyperbaric Bupivacaine in combination with Intrathecal Clonidine for Unilateral Knee Arthroplasty.
6. Preparation and quality control of $^{188}$RE-labelledTIN Colloid for the treatment of Refractory Inflammatory Arthritis.

**Collaborative Research**

**Dr. Ravi Mittal**

1. Comparison between 3 phase Tc MDP bone scan with SPECT/CT and PET/CT scan in skeletal tuberculosis

**PUBLICATIONS**

7. Rastogi S, Kumar A, Khan SA. Do locking plates have a role in Orthopaedic oncological reconstruction Accepted for publication in *Archive of Orthopaedics & Trauma Surgery* 2010 Feb 18 [Epub ahead of print].


23. Kumar A, Neogi DS, Khan SA, Logani V, Yadav CS. Ilizarov External Fixator for Bilateral Severe Flexion Deformity of the Knee in Haemophilia: Case report Accepted for publication in Archive of Orthopaedic Trauma & Surgery 2010; 130(5): 621-625.


33. Laxman Rijal, Tahir Ansari, Yadav CS Birth injuries in caesarian sections - an enigma fracture femur after caesarian section”. The Internet Journal of Orthopedic Surgery 2009: Volume 13 Number 1


Abstract


Chapter in books


**Books**


**PATIENT CARE**

**Dr. H.L. Nag**

1. “Sports Clinic” is held once in a week on Thursday afternoon at OPD of Department of Orthopaedics to cater the needs of the injured atheletes and sports personnels.


**AWARDS, HONOURS**

**Dr. P.P. Kotwal**

- Padma Bhushan Dr. S.K. Mukherjee Memorial “Chikitsa Sewa Award” given by Satkar Kala Kendra of Indore, March 2010.

1. Delivered the “Dr. B. Mukhopadhyaya Oration” of the Bihar Orthopaedic Association at the 36th Annual Conference of the Bihar Orthopaedic Association held at Supaul Bihar; February 2010.
Dr. S. Rastogi


Dr. R. Malhotra

1. Awarded Annual Oration of Baroda Orthopaedic Association on 8th Nov. 2009 in Baroda for “Cadaveric Bone Banking in India- The road traveled”.

2. Regional Advisory Board Member – Orthopaedics Hyperguide – A web-based global interactive Orthopedics learning Resource

3. Adjunct Faculty CMET, AIIMS.


6. Member Editorial Board: Neurology India

7. Reviewer for Applications for funding submitted to National Institute of Health Research and Research for Patient Benefit Program (NIHR & RFPB) of NHS, UK, Indian Council of Medical Research, Department of Biotechnology, Department of Science & Technology, Govt. of India.


10. Expert for the Golden Triangle Partnership (GTP)- a scheme between the department of AYUSH-CCRAS, ICMR and CSIR. Advisor for the Project on Osteoporosis under the scheme.

11. Member Advisory Group on Determination of Musculoskeletal Burden in Indian Population.

12. Member Advisory Group on Determination of Normative Laboratory Parameters in Indian Population.

13. Member Expert Group for ICMR Task Force on Cancer Management Guidelines


15. Expert/Chairman Project Review Committee of ICMR for funding of projects in the field of NCD, BMS and Biomedical Engineering since 1994.


17. Expert for the committee constituted by UGC towards the evaluation assessment of the research papers submitted by College Teachers concerning travel grant assistance to attend International Conferences abroad on 15.06.2009.
Dr. H.L. Nag


7. As Chairperson for Arthroscopy Section and Treasurer for DOACON-2010, AIIMS, 9-10 January,2010.


10. As Faculty at Workshop on Meniscal Injury AIIMS, 18 April,2009.


12. As faculty at IAS Cadaver workshop at S.J. Hospital, 12 July,2009.


15. As expert member of Health Camp at Leh and Kargil, 10-17 September,2009.

16. As faculty at IAS Cadaver Workshop, Delhi, 20 September,2009.

17. As faculty at 8th Annual Congress of IAS, Ahmedabad, 1-3 October,2009.

18. As member, Departmental Promotion Committee for the post of Librarian Grade II, AIIMS, 8th August,2009.


20. As faculty at MAMC Sports Injury and arthroscopy update and chaired one session, 12 December,2009.


Dr. Ravi Mittal
1. IOA foreign fellowship at Dartmouth Hitchcock medical centre for 4 weeks from September 7, 2009
2. Cleared the ATLS provider course on 21-23 January 2010

Dr. Vijay Kumar
1. Fellowship in Traumatology and Orthopedics, Katharine Hospital, Stuttgart, Germany, 4th May – 28th May 2009.
2. Indian Orthopaedic Association Inland Fellowship, 30th Nov-23rd Dec 2009
3. Fellow of International Medical Sciences Academy
4. Member of Asian Association for Dynamic Osteosynthesis

SIGNIFICANT EVENTS

Dr. P.P. Kotwal
1. Nominated as Member, Board of Studies in the Department of Rehabilitation Sciences for 2 years w.e.f. June 2009, by the Hon’ble Vice Chancellor of Jamia Hamdard University, New Delhi.
2. Nominated as Member, Academic Council of the Pt. Bhagwat Dayal Sharma University of Health Sciences, Rohtak, 2008 – to date.
3. Nominated as a Member of the Planning Board of the Pt. Bhagwat Dayal Sharma University of Health Sciences by His Excellency, the Governor – Chancellor of the University for Two years W.e.f. Feb. 2010.
4. Appointed by the National Board of Examinations as an Expert Member of a Committee to evaluate the disability of a candidate, March 2010.
5. Appointed by the National Board of Examinations as an Expert Members to select Candidates for DNB in Emergency Medicine, March 2010.
8. Appointed as an external examiner of Baba Faridkot University of Health Sciences, Faridkot (Punjab), April 2009.
10. Appointed as an external examiner of Devi Ahilya University, Indore, 2009, June-2010.

11. Chairman, Project Review and Monitoring Committee of Ortho CAD Project under the office of the Principal Scientific Advisor to the Prime Minister of India, New Delhi; 2007-2010.


13. Invited Special Member, of Ethical Committee VMCC, Safdarjung, 2009.

14. Expert Member, Nominated by Indian Council of Medical Research, New Delhi, for the Expert Group Meeting, September 2009.

15. Member, Committee Constituted by the Central Drugs Standard Control Organisation, DGHS, Min of H & FW to examine issues relating to regulatory requirement for exercising control over medical devices under the Drugs and Cosmetics Act, 1940; 2009-2010.

16. Expert member to evaluate a research proposal submitted to the National Research Development Corporation, New Delhi; 2009.

17. Expert member to evaluate a research proposal submitted to the National research Development Corporation, New Delhi: 2010.

18. Chairman, Hospital Store Purchase Committee, AIIMS, 2009.


20. Expert Member Selection Committee, Gandhi Medical College, Bhopal to Select Assistant Professor of Orthopaedics, June 2009.

21. Nominated as an Expert Member by the Chhattisgarh Public Service Commission, Raipur to Select Assistant Professor in Orthopaedics, February 2010.

22. Nominated as an Expert Member of a Selection committee Thermal Power Corporation, New Delhi to select Senior Orthopaedic Surgeons, March 2010.

23. Chairman of the Governing Body of Kendriya Vidyalaya, INA Colony, New Delhi, 2003 - to date.

24. Member of the Governing Body of The Automobile Association of Upper India, 2000 - to date.

25. Professor-Incharge, Computer Facility, AIIMS w.e.f. 26.3.2010.

Dr. S. Rastogi

1. MCI inspection at Vydehi Insttt, Bangalore on 17.2.2010.

2. Attended the DNB programme trainees selection panel, as expert member for selecting candidate for the deptt. Of Orthopaedics on Friday, the 29th Jan., at Sir Ganga Ram Hospital, Delhi.

3. Visited Vydehi Institute of Medical Sciences & Research, Bangalore on 30th Sept. for inspection(Medical Council of India)
4. Vienna from 18-22\textsuperscript{nd} May 2009. review & finalize training material for the draft version of the training CD on radiation protection for doctors using fluoroscopy at the IAEA headquarters in Vienna

\textbf{Dr. R. Malhotra}

1. “Challenges Facing Medical Professional” on 106.4 FM Gold on Doctor’s day (1\textsuperscript{st} July 2009) 2.30 PM (Mid Day Bulletin).
3. Live program on TV Interactive Show on “Knee Pain - Total Knee Replacement” in VAMA telecast on Sahara Uttar Pradesh on 15\textsuperscript{th} April 2009, 12:30 PM – 1:00 PM.
4. Expert in live TV Interactive Show on “Knee Pain & Knee Transplant” in VAMA telecast on Sahara Uttar Pradesh on (Wednesday) 10\textsuperscript{th} June 2009, 12:30 PM – 1:00 PM.
5. Live Phone-in-Program on “Backache” on Sahara TV on 02.08.09, 12:30 PM – 1:00 PM.
6. Live Phone-in-Program “VAMA” on “Exercises for Osteoporosis” on Sahara TV on 30.09.2009, 12:30 PM – 1:00 PM.
7. Phone in Live program on IBN7 Health program – “Joint Pains in Winters” on 30/10/2009, 2.00 PM to 2.30 PM.
8. Live program on TV Interactive Show on “Knee Transplant” in VAMA telecast on Sahara Uttar Pradesh on 24\textsuperscript{th} March 2010, 2:30 PM – 3:00 PM.
9. Member of Committee on Tele Medicine, Hospital Infection Control Committee, Staff Council, Advisory Committee for Central Workshop (Orthopedic Implants & Devices), Department Store Purchase Committee, Drug Selection Committee, OT Users Committee at AIIMS, New Delhi.
10. Vice President of Delhi Orthopaedics Association (DOA) 2009-2010.
11. Member of the DPC Technical Officer for the Department of PMR (Physical Medicine & Rehabilitation) 26.06.2009.
13. Member of AO Council for AO Trauma as Leader for Education, Central India.
15. Judge for Hindi Kavita Pratiyogita (Poetry Competition) during Hindi Week on September 9-11, 2009 at Conference Hall, AIIMS, New Delhi.
16. Invited by Commandant, Army Hospital to perform Total Acetabular Allograft surgery for reconstruction following the excision of an acetabular tumor at Army Hospital (R & R), Delhi Cantt on 20 Oct 2009.
17. Became the first surgeon in India to successfully perform Carpometacarpal replacement arthroplasty of the thumb on 18\textsuperscript{th} Jan 2010.
18. Became the first orthopedic surgeon to successfully use trabecular metal for the Revision hip replacement in India, in March 2010.

19. Expert for the selection of Pool Officers under the Senior Research Associate scheme of the CSIR at the CSIR Headquarters, New Delhi on 31.03.2010.


Dr. H.L. Nag

1. ‘Sports Clinic’ a special clinic has been started in the Department of Orthopaedics.

2. Nominated as member of the Therapeutic Use Exemption (TUE) Commission, by National Anti Doping Agency (NADA), Govt. of India, in compliant with World Anti Doping Agency (WADA).

3. Appointed as the Venue Medical Officer (VMO) at J.L. Nehru Stadium for the Commonwealth Games 2010.


Dr. Ravi Mittal

1. Lecture on “Shoulder instability and its management” at Teleconferencing sessions at IGNOU, New Delhi on 24.12.09

2. External examiner for D.orth examination at Govt. Medical College at Patiala on 17.12.09


Dr. Vijay Kumar

1. Participated in Television program on Arthritis “Sangini” on Sahara Samay Channel.
EDUCATION

The departmental faculty has actively participated in the academic activities of undergraduate, postgraduate and paramedical teaching

**Short Term Training**

- Dr. Ajit Nepal, Assistant Professor at the BP Koirala Institute of Medical Sciences, Dharan, Nepal visited for short term training for 3 months for training in Rhinoplasty.
- Dr. Joshi, Assistant Professor at the BP Koirala Institute of Medical Sciences, Dharan, Nepal visited for short term training for 3 months for training in Phonosurgery.
- Dr. Azhar Jan Battoo, Department of Head & Neck Oncology at the Amrita Institute of Medical Sciences, Kochi visited for short term training for 6 weeks for training in Skull Base Surgery and Head-Neck Oncology.
- Dr. Akash Dua, Department of Maxillofacial Surgery, Ragao Dental College & Hospital visited for short term training for 6 weeks for training in Head-Neck Oncology.

**Continuing Medical Education**

**CME programmes organized**

- AOI monthly clinical meet, August 2009, AIIMS, New Delhi.

**Lectures delivered**

**Professor R.C. Deka**

- Inaugural address as a chief guest at the Preconference (Annual conference of AOI Delhi state branch )Surgical CME on Skull Base Surgery, 1st May 2009.
- Inagural address in the inaguration ceremony of speech and hearing unit of Pt. JNM Medical College at Raipur on 30-08-2009
• Key-note address on deafness at the CME on Deafness in Pingalwara Charitable Society, at Amritsar on 11-10-2009.

• Inaugural address as a chief guest at the CME on “Larynx and Hypopharynx 2009” Head and Neck Cancer Update. 31st Oct-2nd Nov, 2009

• Address as guest of honour at the Opening of New Cardio Vascular Centre at Sardar Patel Medical College, Bikaner on 27-01-2010

• Inaugural address as a chief guest at the Anniversary celebrations of Down Town College of Allied Health Sciences, Guwahati on 14-02-2010.

**Prof S.C. Sharma**

• Conservation surgery in laryngeal cancer- 62nd Annual Conference of the Association of Otolaryngologists of India, Mumbai, January 7-10, 2010

**Dr Alok Thakar**


5. ParaPharyngeal Space Tumors PG Teaching and Cadaveric Dissection Workshop in Head-Neck Surgery 2010, Base Hospital, Delhi Cant. Jan 2010

6. Treatment Guidelines in the Treatment of Early Carcinoma Larynx Amrita Head& Neck Teaching Program (AHEAD 2010), Kochi, February 2010

7. Endoscopic Anatomy of Skull base & prospects of its clinical application Amrita Head& Neck Teaching Program (AHEAD 2010), Kochi, February 2010

8. Cadaveric Demonstration- Total Laryngectomy Amrita Head& Neck Teaching Program (AHEAD 2010), Kochi, February 2010


10. The 3rd Window to the Inner Ear Clinical Case Presentation, AIIMS Academic meeting, January 2010

**Dr Rakesh Kumar**

1. ‘Artificial Ear for an absent ear’- Clinical combined round presented along with Dept of Prosthodontics, AIIMS, New Delhi.
2  Endoscopic management of angiofibroma -62nd Annual Conference of the Association of Otolaryngologists of India, Mumbai, January 7-10, 2010

3  Pinnaplasty with prosthetic implants – first successful implant in AIIMS. Delhi State AOI monthly clinical meet Aug 2009, Lecture theatre, AIIMS.

Dr C.V. Karthikeyan


4  Do we need to control the ever sprouting workshops? Association of otolaryngologists of India(Delhi Branch) Annual conference 2nd and 3rd May 2009, New Delhi

5  TEP in post laryngectomy voice rehabilitation- 62nd Annual Conference of the Association of Otolaryngologists of India, Mumbai, January 7-10, 2010

NATIONAL AND INTERNATIONAL CONFERENCES

Lectures delivered

Prof RC Deka

1. Inaugural address as a chief guest at the Annual conference of Pediatricians of Maharashtra state chapter, Pune on 14-11-2009.

2. Inaugural address as a chief guest at the BHU Golden Jubilee Celebration on 15-03-2010 at Varanasi

3. Convocation Address as a chief guest for the outgoing post graduate and under graduate students at the seventh convocation ceremony of B.P Koirala Institute of Health Sciences(BPKIHS), Dharan, Nepal on 22-01-2010.

Prof S.C.Sharma

“Balloon Sinuplasty” – Head and Neck conference at Raja Isteri Pengiran Anak Saleha Hospital (RIPAS), Brunei Darussalam 13-19 Dec-2009

“Carcinoma larynx”- Head and Neck conference at Raja Isteri Pengiran Anak Saleha Hospital (RIPAS), Brunei Darussalam 13-19 Dec-2009

“Treatment decisions in parotid surgery” Head and Neck conference at Raja Isteri Pengiran Anak Saleha Hospital (RIPAS), Brunei Darussalam 13-19 Dec-2009

“Paraganglioma “ Head and Neck conference at Raja Isteri Pengiran Anak Saleha Hospital (RIPAS), Brunei Darussalam 13-19 Dec-2009
Dr. Alok Thakar

4. Drop Attacks. 30th Annual Conference of the Neuro-Otological and Equilibriometric Society of India, Delhi, April 2009.
9. EXITing from CHAOS 62nd Annual Conference of the Association of Otolaryngologists of India, Mumbai, January 7-10, 2010

Dr Rakesh Kumar

“Rhinoplasty”- Lecture for DNB students through teleconferencing via satellite infrastructure of IGNOU organized by National borad of examination(Ministry of Health and Family welfare, Govt Of India ) on 22/01/2010

“Reconstructive surgery of head and neck”. Lecture for DNB students through teleconferencing via satellite infrastructure of IGNOU organized by National borad of examination(Ministry of Health and Family welfare, Govt Of India ) on 22/01/2010

“Orientation for practical examination for DNB students”. Lecture for DNB students through teleconferencing via satellite infrastructure of IGNOU organized by National borad of examination(Ministry of Health and Family welfare, Govt Of India ) on 22/01/2010

“Cochlear implantation – Indian experience”. Lecture for Pan African students through teleconferencing e-Pan African network Jan 2010
Dr C.V. Karthikeyan

“Recent advances in Hearing rehabilitation”- Lecture for DNB students through teleconferencing via satellite infrastructure of IGNOU organized by National board of examination(Ministry of Health and Family welfare, Govt Of India ) on 22/01/2010

“Recent advances in surgery for carcinoma of larynx and voice rehabilitation”. Lecture for DNB students through teleconferencing via satellite infrastructure of IGNOU organized by National board of examination(Ministry of Health and Family welfare, Govt Of India ) on 22/01/2010

“Cochlear implantation – Indian experience”. Lecture for Pan African students through teleconferencing e-Pan African network Jan 2010

Residents and Research associates


10. Treatment Results of Nasopharyngeal Cancer Indian Head-Neck Cancer Congress, Kochi, Oct 2009, S Shyam Kumar, A Thakar.

12. Short effects of intraoperative percochleostomy dexamethasone steroid injection on electrode impedance in cochlear implant patient and its impact on short term outcome result, 7th Annual conference of Cochlear Implant group of India, 7-8 Nov 2009, presented by Dr. Kapil Sikka. (Best oral poster award)

13. Dr. Chirom Amit Singh & Dr Rajeev secured First place in Temporal bone dissection competition, Delhi AOI Annual Conference, 6-7 March 2010.


15. Role of the CO2 laser in Cancer larynx. R Vaish, A Thakar Association of Otolaryngologists of India (Delhi Branch) March 2010


18. Type IV Thyroplasty for High Vagal Paralysis- Poster Presentation. Kapil Sikka, A Thakar Association of Otolaryngologists of India (Delhi Branch) March 2010 Best Poster Award


20. Poster presentation on carotid body (Potato) tumor, Rajeev Kumar, S.C. Sharma Delhi AOI Annual Conference, 6-7 March 2010, MAMC, New Delhi. Best Poster award

RESEARCH
Funded Projects

Completed

1. Assessment of T, C levels and the resultant change in the dynamic range in cochlear implant users: To evaluate possible electrical stimulation induced damage to the neural elements’. Prof RC Deka, ICMR project, Rs. 11.67 lakhs, 3 years.

2. Role of bacterial and fungal colonization in patients with chronic rhinosinusitis and nasal polyposis with special emphasis on their superantigenicity and biofilm property’. Fellow: Dr. Anurag Ramavat, Chief Guide: Prof RC Deka, CSIR project, 3 years.

Ongoing

1. Effect on hearing function in individuals with diabetes mellitus. Fellow: Dr. Gaurav Chaturvedy, Chief Guide: Prof RC Deka, CSIR project, 3 years

2. Phase II/III Randomized placebo controlled clinical trial of curcumin in resectable stage III & IV squamous head and neck cancers. Dr A. Thakar. DBT Project, 3 yrs.

Collaborative Research

Ongoing

1. Stereological study of the age related morphological and neurochemical changes in the human cochlear nucleus — in collaboration with Department of anatomy

2. Comparison of conventional general anasthesia with total intra venous anesthesia in children undergoing cochlear implant surgery - in collaboration with Department of Anesthesiology.

Completed

To study the safety and efficacy of extra oral glossopharyngeal block in glossopharyngeal neuralgia - in collaboration with Dept of Anesthesiology.

Departmental Projects

Ongoing


2. The effect of dexamethasone injection in the inner ear on hearing and NRT & it’s outcome results in cochlear implant patients

3. Role of PET scan in diagnosing unknown primary in head and neck carcinoma with cervical neck node metastasis

4. To study the effect of cricoid split with costal cartilage rib grafting and lumen augmentation in cases of subglottic stenosis.

5. Study of patient profile with external nasal deformity requiring septorhinoplasty and its outcome.

6. Immunohistochemical characterization of JNA and radiological & histological evaluation of vidian canal involvement in JNA.

7. Evaluation of Neural Response Telemetry based MAPing (NRT) in post lingual cochlear implantees and its correlation with conventional behavioural list based MAPing.

8. Clinopathological changes in antral mucosa in cases of bilateral ethmoidal polypi.

9. Evaluation of voice changes before and after intracordial injection of autologous fat in cases of unilateral vocal cord palsy.

10. Evaluation of treatment results and patient satisfaction with upper eyelid loading in cases with facial paralysis.

11. Role of rTMS therapy in chronic tinnitus patient.

12. Comparative study of outcome of tympanoplasty using Hydroxyapatite and Titanium prosthesis.

Completed

1. Clinical profile of patients with laryngotracheal stenosis

2. Bilateral Submandibular duct transposition and bilateral sublingual gland excision for drooling in children
Comparison of various techniques of tonsillectomy in terms of post operative pain and other post operative variables

**PUBLICATIONS**


**Chapters in Books**

Abstracts


PATIENT CARE

The Department provides a state of art ENT service and equipped with the entire range of diagnostic and therapeutic facilities including a Cochlear Implant Lab, audiological facilities, Electronystagmographic facilities, Electro diagnostic Audiometry, Hearing Aid Analyzer, Ear mould Lab, speech therapy facilities, stroboscopy and computer aided speech analysis. The Rehabilitation Unit of Audiology and Speech Therapy function with the clinical department to provide supportive, diagnostic and rehabilitative services for the people with speech and hearing impairment.

The cochlear implantation (CI) program was started in All India Institute of Medical Sciences in 1996 under the chairmanship of Professor RC Deka and the first adult patient was successfully operated upon in February in 1997. Soon, the department started the Children Programme in 1998. Since then, 257 patients have been subjected to Cochlear implantation at AIIMS till March, 2009. Professor RC Deka has also done the country’s first bilateral Cochlear implant successfully in an adult patient. The department has provided support in starting cochlear implant surgery programme in R.R. Hospital, Central Railway Hospital & also PGIMER, Chandigarh. The Department is an established centre for cochlear implantation and in the year under review, a total of 56 cases have had successful cochlear implantation. All such cases further continue to be on follow–up and are receiving post implantation speech therapy and training to maximize the benefit of cochlear implantation.

The Head and Neck cancer clinic of our department in the B.R. Ambedkar Institute Rotary cancer hospital, with the collaborative support of radiotherapists and medical oncologists, caters to large number of patients suffering from head and neck malignancies from all parts of the country. The departmental faculty provides their surgical expertise in the effective management of head and neck cancers apart from the management of general and complicated Otorhinolaryngology diseases and disorders The Department also runs Speciality Clinics– (Vertigo, Audiology, Skull base, Rhinology, Voice clinics) and provide services to a large number of patients. The department has developed an undergraduate (MBBS) teaching manual and a post graduate log book. It provides short and long term training to national and international doctors and audiologists every year.

OPD & Speciality Clinics

| ENT OPD | New Cases: 36049
| Old cases: 40094 |
Specialty Clinics

RUAS–Speech : New:1226, Old:1518
RUAS–Hearing : New:915, Old:1922
Head & Neck Clinic : New: 907, Old: 3713
Voice : 848
Vertigo : 133
Audiology & Skull base : 233
Rhinology : 109

In– Patients
Admissions – 1583

Surgical Procedures
Major – 1349
Minor – 1882
Minor OT – 26929

Special Investigations
Pure tone Audiometry : 6105
BERA : 1450
Electronystagmography : 286

Community Services/ Camps

• The department provides comprehensive ENT services at Primary Health Center at Ballabhgarh, Haryana. In addition, Dr CV Karthikeyan renders his services in the OPD once a week at Deaf Center Gurgaon, under Haryana government.

• The department participates in the annual tertiary medical care camp at Ladakh and provides local support and referral support to the local ENT services at Ladakh.

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor R.C. Deka

Professor Ramesh Chandra Deka is the Director of AIIMS with effect from 10th March 2009. Prof Deka was also the Dean of AIIMS from May2006 to March 2009.

Professor R.C. Deka is the founder chairman of Indian Academy of Otolaryngology– Head Neck Surgery. He is an Inspector for Medical Council of India (MCI) and National Board of Examinations (NBE). He is the chairman of the Technical advisory group for the speech and hearing handicapped to the Ministry of Social Welfare. He is also the chairman of Sectional committee of ENT surgical instruments (MHR04) of Bureau of Indian standards.
Professor RC Deka is the International Editorial Board Member of:

- Acta–Otolaryngologica (Stockholm).
- Otolaryngology– Head and Neck Surgery (USA).
- Otology–Neurotology (USA).
- Pakistan Journal of Otology.

He is the Editorial Chief of Indian Journal of Otology.

He is the Editorial Chief of Vertigo viewpoint.

Professor R.C. Deka was the Guest of Honor in the inauguration ceremony of speech and hearing unit of Pt. JNM Medical College at Raipur on 30-08-2009.

He was the chief guest at the Annual conference of Pediatricians of Maharashtra state chapter, Pune on 14-11-2009.

He was the Guest of Honor at inaugural function of the opening of new Cardiovascular centre at Sardar Patel Medical College, Bikaner on 27-01-2010.

He was the Chief Guest at the Golden jubilee celebrations at BHU, Varanasi on 15-03-2010.

He was invited as a guest of honor and as a member at the Dedication ceremony of NEIGRIHMS to the nation at Shillong on 05-03-2010.

Prof RC Deka is the member of National Advisory committee meeting of Kishore Vaigyaik Prosthath Yojana (KVPHY) which was held on 09-03-2010 at Bangalore.

He is the member of Standing purchase committee meeting of PGI-Chandigarh which was held on 27-03-2010 at Chandigarh.

He was the chief guest at the BHU Golden Jubilee Celebration on 15-03-2010 at Varanasi.

Prof RC Deka was the chief guest at the seventh convocation ceremony of B.P Koirala Institute of Health Sciences(BPKIHS), Dharan, Nepal which was held on 22-01-2010 which was presided over by the Honorable Prime Minister of Nepal as a Chancellor. Prof Deka delivered the convocation address for the outgoing post graduate and under graduate students.

The country’s first successful launch of State of the art advanced Nucleus 5 Cochlear Implant for use in Cochlear Implant surgery in public sector setting in India was performed by the team of doctors of the Department of ENT under the supervision of Prof RC Deka.

Prof S.C. Sharma

Prof SC Sharma is the Head of the Department of Otolaryngology and Head & Neck Surgery w.e.f October 2009.

He is the moderator for the Panel discussion on Treatment option for cancer-Hypopharynx. “Larynx and Hypopharynx 2009” Head and Neck Cancer Update. 31st Oct-2nd Nov, 2009

He demonstrated the surgical technique of Total Laryngectomy, partial pharyngectomy with patch pharyngoplasty and bilateral neck dissection to the national and international delegates during the conference.
He is the moderator for the Panel discussion on Symposium on Oral cancer. 62nd Annual Conference of the Association of Otolaryngologists of India, Mumbai, January 7-10, 2010

Prof SC Sharma was the visiting faculty at University of Pennsylvania, Pittsburgh, USA and received Hands on Robotic surgery training from 6th to 19Mar-2010

**Dr Alok Thakar**

Awarded the Indo-US Science and Technology Forum (IUSSTF)) Travel Fellowship for training on Trans-Oral Robotic Surgery at Philadelphia, USA.

Invited International Faculty- British Academic Conference of Otolaryngology (BACO 2009)

Invited Faculty- Confluence 09- Meeting of the European Academy of Otolaryngology and HNS

Elected President Elect, The Neuro-Otological and Equilibriometric Society of India.

Elected Governing Body member, The Skull Base Society of India.

Elected Governing Body member, Association of Phono-surgeons of India.

Editorial Board Member, Otology India.

Editorial Board Member, Indian Journal of Otology

Editorial Board member, International Online Journal of Otorhinolaryngology

Member, Educational Committee - Foundation for Head and Neck Oncology


He is the Panelist on Parotid Tumors. 2nd Otolaryngology CME, Sikkim Manipal Institute of Medical Sciences, Gangtok, May 2009.

He is the Panelist for the panel discussion on Balloon Sinoplasty versus conventional FESS International Conference on Sinoplasty and Rhinoplasty, New Delhi, September 2009

He is the Moderator for the Panel Discussion- Cancer Larynx- Advances in Management South Zone conference of Association of Otolaryngologists of India, Chennai, October, 2009.

Dr Alok Thakar is the Organizing Chairman of “Larynx and Hypopharynx 2009” Head and Neck Cancer Update. 31st Oct-2nd Nov, 2009. He demonstrated the surgical technique of supracricoid partial laryngectomy with crico-hoido-pexy and the technique of Total laser cordectomy to the national and international delegates at the meeting

He demonstrated the surgical technique of Labyrinthectomy in the Skull Base CME at AIIMS, May 2009.

He is the Panelist for the panel discussion on Voice Disorders. Voice course, Research and Referral Hospital, Delhi, Nov 2009.

He is the Panelist for the panel discussion on Newer Techniques of Tonsillectomy Coblation in ENT, Sir Ganga Ram Hospital, Dec 22, 2009.

Trans-Mandibular Approach to the Para Pharyngeal Space- Cadaveric Surgical Demonstration / Instructor

He is the instructor for PG Teaching and Cadaveric Dissection Workshop in Head-Neck Surgery 2010, Base Hospital, Delhi Cant. Jan 2010.

Dr. A Thakar visited the University of Pennsylvania, Pittsburgh, USA and received training for Trans Oral Robotic surgery from 6th to 19Mar-2010.

Dr Rakesh Kumar

Co–member of Sectional committee of ENT surgical instruments-(Nasal instruments) (MHR04) of Bureau of Indian standards.

Appraiser for the DNB course at R&R Hospital, New Delhi.


He is the Panelist for the panel discussion on Emerging trends in ENT-Where are we heading? 33rd Delhi State AOI Annual Conference, 6-7 March 2010, MAMC, NewDelhi.

Dr. Venkata Karthikeyan

9.25 Paediatrics

<table>
<thead>
<tr>
<th>Professor and Head</th>
<th>Dr Vinod K. Paul</th>
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| Professors         | Dr Ashok K. Deorari  
|                    | Sushil K.Kabra |
|                    | Dr Arvind Bagga  
| Additional Professor | Dr Madhulika Kabra |
| Associate Professors | Sheffali Gulati |
| Assistant Professors | Rachna Seth  
|                    | Ramesh Agarwal  
| Scientists         | Pratima Ray |
|                    | Madhumita Roy Choudhary  
|                    | Suman Vashisht  
|                    | Manju Saxena |

**EDUCATION**

**PhD Program:** Total PhD students: 12 *(Pediatric Gastroenterology 6, Genetics 6, Pediatric Pulmonology 1)*

**DM in Pediatric Neurology ongoing program**

**DM in Neonatology ongoing program**

The faculty of the Department also participates in the teaching of the MSc Pediatric Nursing, MSc Biotechnology and BSc Nursing programmes on a regular basis.


The Department conducted national Postgraduate Quiz in Pediatrics, Neonatology Quiz for Physicians and Nurses (zonal round) under the aegis of Indian Academy of Pediatrics and national Neonatology Forum, respectively.

**Short term training**

A total of **25** short term trainees were trained in different super specialties in the department.

Genetics: (13)
Neonatology: (11)
Nephrology (2)
Nutrition & Dietetics (5)
Pulmonology and Intensive care (5)
Medical Social Services (6)

**CME**

**Department organized following workshops or training courses**

1. Three satellite workshops on neonatal ventilation at Chandigarh- May 2009; Chennai-September 2009; Aurangabad (December 2009.
2. Four satellite workshops on Continuous Positive Airway Pressure (CPAP) at Aurangabad: July 2009; Warangal, Vijayawada October 2009; Hyderabad January 2010; Pune February 2010;
3. Fetal Medicine Workshop in collaboration with department of Obstetrics and Gynecology AIIMS, March 2010
4. International Symposium on Protective Nutrients at AIIMS 2010

Faculty members and Scientists delivered a total of 151 Lectures.

**RESEARCH**

**Funded projects**

**Completed**

2. Cloning and Expression of NSP4 Enterotoxin of Rotavirus in *E.coli* and evaluation of NSP4 specific immune responses during natural rotavirus infection in children. Chief Investigator: Dr. Pratima Ray, Funded by DST; 2004-2007, Funds: 19,90,000.00.

AIIMS 2009-2010 / 407
5. Characterization of rotavirus strains from a multicentric Rotavirus study at AIIMS, Investigator: Dr. Pratima Ray, Funded by DBT; 2005-2008, Funds: Rs. 31,97,000.00.


8. Molecular Genetic studies in Leukodystrophy, Dr. Madhulika Kabra, Ms Pallavi Shukla (PhD student), UGC, UGC Funding Rs 20,000/- per year.


10. Validation of WHO LBW feeding guidelines. Prof Vinod Paul, Ashok Deorari and Ramesh Agarwal; Rs 130 000; WHO Years 2007-09.


12. Daily corticosteroids to prevent infection associated relapses in patients with frequently relapsing nephrotic syndrome. Funded by ICMR; 2006-2009; Rs. 9,22,020


15. A Program to improve injection practices in the country: PI & Central Coordinating Team Member Dr S Gulati: An IndiaCLEN study; USAID; 2005-2009. Rs. 2,37,795

16. To understand the deviation in cell signaling pathway of autism through neurotrophic factors (Insulin like growth factor-1) & undertake a randomized blinded trial with Olanzapine to evaluate its effect on Insulin like Growth factor-1 (IGF-1), clinical symptoms of autism and Autism rating scales (ongoing) Chief Investigator: Dr Rachna Seth, Funding Agency: Department of Science & Technology, Duration, Duration:2006-2009. Funds:Rs 4,08,000/-.

17. Evaluation of Anthracycline induced myocardial cardiotoxicity in children with Cancer: A comparative study with echocardiography and MUGA (ongoing), Chief Investigator :Dr Rachna Seth, Funding Agency All India Institute of Medical Sciences, New Delhi, Duration: 2008-09, Funds: Rs. 40,000/-.
Ongoing

1. Adiponectin, CRP and IL-6 in overweight children and adolescents and their relationship with insulin resistance PI- Dr Vandana Jain, Funding Agency- AIIMS, total funding Rs 1 lac, Duration 2009-10.

2. KIGS multinational Growth Survey, PI- Dr Vandana Jain, Funding Agency-Pfizer Research Division, total funding Rs 77,000 Duration 2009-10.

3. Zinc as an immunomodulator in the treatment of possible serious bacterial infections in infants more than 7 days and up to 2 months of age. Funding Agency: DBT, Principal Investigator: Dr. Shinjini Bhatnagar, Co-PI Prof. SK Kabra, Duration: 2005-2009, Total grant. Rs. 20,027,000.

4. Specific targeted research or innovation project, Funding by: European Union, PI: Dr. Shinjini Bhatnagar, Total grant: 75,65,299, Duration: 2005-2009,

5. Efficacy of zinc in the treatment of severe and very severe pneumonia in hospitalized children 2-24 months of age. Funding Agency: Johns Hopkins Bloomberg School of Public Health, USA & INCLEN, PI: Dr. Shinjini Bhatnagar Duration:2006-2010, Total Grant: Rs. 53,84,284.


7. Effects of administering 10 mg of zinc orally to young infants aged 7 days and up to 4 months with possible serious bacterial infection on survival and function of peripheral blood mononuclear cells, Funding Agency: DBT, PI: Dr. Shinjini Bhatnagar & Prof. HK Prasad, Duration: 2007-2010, Total Funding: Rs. 88,57,000/

8. Efficacy of Stem cell in improvement of left ventricular function in patients with acute myocardial infarction. Funding Agency: DBT, PI: Dr. Shinjini Bhatnagar, Duration: 2006-2010, total funding:Rs.15,85,000.

9. Data Management for Intravenous autologus bone marrow-derived stem cell therapy of patients with acute ischaemic stroke; A multi-institutional project. Funding Agency: DBT, PI: Dr. Shinjini Bhatnagar Duration: 2008-10, Total Funding:9,79,600.


12. Evaluation of Chikungunya infection in children and adults, Chief Investigator: Dr. Pratima Ray, Funded by DBT; 2008-11, Funds: Rs.1,24,60,000/-

13. Molecular Characterization of Rotavirus strains infecting neonates born in the hospital and diarrheal children admitted at All India Institute of Medical Sciences, Delhi during 2007-09, Chief Investigator: Dr. Pratima Ray, Funded by ICMR; 2009-12, Funds: Rs. 33,79400/-
14. Effects of administering 10 mg of zinc orally to young infants aged 7 days and up to 4 months with possible serious bacterial infection on survival and function of peripheral blood mononuclear cells, Co- Principal Investigator, Funded by DBT, 2008-2010, Funds: 42,37,105.00, Duration 2007-09.


17. Molecular genetic studies in Steroid resistant Nephrotic syndrome, Dr Arvind Bagga, Dr. Madhulika Kabra, Dr. Pankaj Hari, DBT, 4.70 lacs. 2007-2010.

18. Validation of Strategies for Rapid Prenatal Detection of Aneuploides, Dr. Madhulika Kabra, Deepika Deka Dr. Rashmi Shukla, DBT, 17.79 lacs. 2007-2010.

19. Evaluation of the diagnostic potential of fetal DNA in maternal plasma as a possible tool for Non-invasive prenatal diagnosis of common single gene disorders, Dr. Madhulika Kabra, Dr. N. Raghuram, Dr. Madhumita, Dr. Roychowdhury, Dr. Deepika Deka, DBT, 14.92 lacs. 2007-2010.


21. Newborn screening for congenital Hypothyroidism and congenital Adrenal Hyperplasia - A multicentric study, Prof. V.K.Paul, Prof. A.K.Deorari, Dr. Madhulika Kabra, Dr. Sheffali Gulati, Dr. Ramesh Aggarwal, Dr. Nandana Jain, Suman Vashisht.ICMR, 15 lacs., 2007-2010.


23. To understand the deviation in cell signaling pathway of Autism through neurotrophic factors (Insulin like Growth Factor-1) & undertake a randomized blinded trial with Olanzepine to evaluate its effect on Insulin like Growth Factor-1 (IGF-1), clinical symptoms of autism rating scales-2006-09, Dr. Rachna Seth, Ms. Savita Sapra, Ms. Suman Vashisht, Funding Agency: DST, Total Funding:4,08,000

24. Molecular genetic studies in Rett Syndrome, Dr. Madhulika Kabra, Ms. Rajni Khajuria (Ph.D student), ICMR, ICMR fellowship.

25. Role ANP in diagnosis of PDA (PI Ramesh Agarwal; 100 000; AIIMS) 2008-9.

26. Systematic review Vitamin K1 therapy in neonates. Principal Investigator: Dr. Ashok K Deorari, Funding Agency: WHO Head Q’s, Total Funding : US $ 9,000, Duration of Project 2009 to F 2010.

27. Systematic review role of exchange transfusion in Jaundice, Principal Investigator: Dr. Vinod K Paul, Funding Agency: WHO Head Q’s, Total Funding : US $ 18,000, Duration of Project : 2009 to 2010
28. Antibiotic prophylaxis in the management of vesicoureteric reflux: a randomized double blind placebo controlled trial. Funded by ICMR; 2006-2010; Rs. 11,41,815

29. Levamisole treatment for children with steroid sensitive nephrotic syndrome: multicentric double blind placebo controlled randomized trial. Funded by ACE Pharmaceuticals Netherlands; 2009-12; Rs. 21,27,568

30. A prospective, randomized controlled trial comparing the efficacy of intravenous cyclophosphamide and alternate day prednisolone versus tacrolimus and alternate day prednisolone for patients with steroid resistant nephrotic syndrome. Funded by ICMR; 2009-2012; 7,25,781.

31. Molecular genetic studies in steroid resistant nephrotic syndrome. Funding by DBT; 2007-10; Rs. 4,70,000

32. Randomized Placebo Controlled Trial of Valproate in Children with Spinal Muscular atrophy, PI Dr Seffali Gulati Funding agency AIIMS Rs1, 00,000 per yr X 2; 2008-2011.

33. Detection of minimal residual disease (MRD) in B cell lineage acute lymphoblastic leukemia(ALL) at the end of induction by flowcytometry Name of Chief Investigator: Dr Rachna Seth, Funding Agency, ICMR, Duration: Three years:2009-12,Funds: Rs 34,82,535

34. A study of infections in Febrile neutropenic pediatric oncology patients at a tertiary care hospital, Name of Chief Investigator:Dr Rachna Seth, Funding Agency, AIIMS Research Grant, Duration:2009-10, Funds :Rs 1,00,000

35. Evaluating the Psychosocial and cognitive outcomes in acute leukemia, Dr. Rachna Seth, Funding Agency: AIIMS, Total funding: 67,000, Duration:2007-08.

36. Immunologic effect of zinc supplementation in HIV infected children receiving highly active antiretroviral therapy: A randomized, double blind placebo controlled trial. PI DR Rakesh Lodha, Funding agency ICMR, Rs 31 Lakhs, 2008-2010

37. Nevirapine levels in HIV-infected children receiving antiretroviral therapy with fixed dose combinations PI DR Rakesh Lodha, Funding agency ICMR, 2008-2010 ICMR, Rs 18 Lakhs

38. Biomarker Discovery in asthma using an integrated -omics approach PI DR Rakesh Lodha, Funding agency IGIB Rs 31 Lakhs, 2008-2010

39. Strengthening of CF services at AIIMS. Funded by Cystic Fibrosis Worldwide (CFW), total funding Rs 400000, duration 2006-2010 (N 818)

40. Zinc supplementation in pulmonary tuberculosis. Funding agency NUFU, Total funding Rs 15000000, duration 2007-2011.

**Departmental Projects**

**Completed**


2. Adrenal insufficiency in VLBW babies with shock
3. A study of chronic pancreatitis and other risk factors for the development of cancer of the pancreas,
4. Early diagnosis of PDA in VLBW babies
5. Role of stomach wash in babies born with meconium stained amniotic fluid
6. Iron stores in SGA/AGA babies
7. Efficacy of phenobarbital on jaundice in babies with Rh isoimmunization
10. Efficacy of rituximab for patients with steroid resistant and dependent nephrotic syndrome.
11. Mutational studies in patients with steroid resistant nephrotic syndrome
12. Intranasal versus intravenous midazolam for control of acute seizures in children: prospective open-labelled randomized equivalence trial.
13. Effect of low dose folic acid supplementation on phenytoin induced gingival overgrowth: a randomized double blind controlled trial.
15. Behavior problem in children and adolescents with epilepsy: prevalence and risk factors: A hospital based cross sectional study
17. The evaluation of thyroid functions and thyroid antibodies in children with epilepsy on valproate monotherapy.
18. Randomized Open Label Comparative Study of Efficacy and Tolerability of Classical 4:1 versus 2.5:1 Ketogenic Diet in Intractable Epilepsy in Children between 6 Months and 5 Years.
23. Molecular Genetic studies in patients with Leukodystrophy
24. Evaluation of pediatric cancer survivors for long/late effects of cancer therapy
25. Arsenic versus ATRA in acute promyelocytic leukemia
26. Clinical profile of autistic children in India
**Departmental Projects**

**Ongoing**

2. “Adiponectin, C-reactive protein and interleukin-6 in overweight children and adolescents and their relationship with dyslipidemia and insulin resistance.”
3. “Effect of gluten free diet on metabolic and anthropometric parameter in Type I diabetic patients with celiac disease
4. “Effect of Atorvastatin in Hyperlipidemia and progression of carotid intima media thickness in steroid resistant Nephrotic Syndrome”
5. Impaired glucose tolerance in children and adolescents with cystic fibrosis.
6. Bone mineral density in ex-preterm toddlers
7. Sensitivity and specificity of the Biocard Celiac Disease kit in identifying celiac disease.
9. Randomized, double blind, placebo controlled trial to examine the effectiveness of zinc supplementation in reducing relapse rates in patients with frequently relapsing nephrotic syndrome
10. Multicentric, randomized, double blind, placebo controlled trial to compare the efficacy of 3 months versus 6-months therapy with prednisolone for the first episode of idiopathic nephrotic syndrome in children
11. Efficacy of oral calcitriol and enalapril versus enalapril in reducing proteinuria in children with chronic kidney disease
12. Abnormalities of complement regulatory factors in patients with atypical hemolytic uremic syndrome
14. Comparison of daily versus intermittent (10 days a month) prednisolone therapy in ambulatory children with Duchene Muscular dystrophy- an open label randomized controlled trial.
15. Comparison of the Full Outline of UnResponsiveness (FOUR) Score Coma Scale and the Glasgow Coma Scale (GCS) in children aged 5-18 years with non traumatic coma in predicting outcome (in-hospital mortality and functional outcome at discharge).
16. Clinical and electrophysiological characteristics of neuropathy in HIV infected children over five years of age receiving Anti-retroviral therapy
19. To study HR variability in children between 2 to 15 years of age with GBS.
21. To study copy number changes in Indian patients with idiopathic MR
22. Evaluation of the efficacy of the modified Atkins diet in children with refractory epilepsy: a randomized controlled trial.
23. Comparison of daily versus intermittent (10 days a month) prednisolone therapy in ambulatory children with Duchenne Muscular dystrophy- an open label randomized controlled trial.
25. Clinical and electrophysiological characteristics of neuropathy in HIV infected children over five years of age receiving Anti-retroviral therapy
28. To study HR variability in children between 2 to 15 years of age with GBS.
30. To study copy number changes in Indian patients with idiopathic MR
31. Screening for CMV infection by PCR (Microbiology)
33. Pharmacokinetics of antituberculr medications in children
34. Comparison of rapid bronchodilatory effect of formoterol and salbutamol in children between 5-15 years with mild acute exacerbation of asthma: A double blind, randomized, controlled trial.
35. Prevalence of *Pneumocystis jirovecii* on Induced Sputum of <15 Yr Immunocompromised Children with Pneumonia by Gomori Methenamine silver stain and Polymerase Chain Reaction.

**COLLABORATIVE RESEARCH**

*Completed*

1. Efficacy of Flutamide in reducing tumor size and vascularity in nasopharyngeal carcinoma (Dept of ENT)
2. Vitamin D status of exclusively winter-born breastfed babies at 3 months of age. Funding Agency- AIIMS, total funding Rs 1 lac, Duration 2006-7.
3. Vitamin D status of exclusively summer-born breastfed babies at 3 months of age. Funding Agency- AIIMS, total funding Rs 1 lac, Duration 2007-8.

5. Detection of minimal residual disease (MRD) in B cell lineage acute lymphoblastic leukemia (ALL) at the end of induction by flowcytometry. (Laboratory Oncology, IRCH) (MD thesis received the ICMR grant)


7. Evaluation of anthracycline toxicity in childhood cancers; A comparative study with echocardiography and MUGA (Cardiology & Nuclear medicine).

8. The work entitled “Assessment of cardiac function by MUGA and conventional echocardiography and tissue doppler echocardiography in children with ALL receiving anthracycline chemotherapy.” has been undertaken and submitted as DM dissertation

**Collaborative Research**

**Ongoing**

1. Body fat and its relationship with metabolic syndrome indicators in overweight pre-adolescents and adolescents. (Clinical Pharmacology Division, Department of Medicine).

2. Efficacy and safety of single dose 6 lac IU arachitol in treatment of rickets in children (Dept of Endocrinology and Metabolism). ICMR Young Diabetics registry (Department of Endocrinology and Metabolism)

3. To compare integrated screening with contingent sequential screening for prenatal detection of Down’s syndrome in the Indian context. In Collaboration with Prof. Seema Kapoor, Genetics division department of Pediatrics MAMC New Delhi

4. Development of low cost diapers for LBW infants (PI Prof Vinod Paul; Rs 2.5 lac; DBT)

5. Evaluation of adaptive changes in masseter muscle dimensions and EMG activity following twin block and a phase of fixed appliance therapy. (Department of Dentistry)

6. Randomized Controlled Trial of early vs late surgery in childhood intractable epilepsy patients in India (Department of Neurology).

7. Evaluation of reflexology as an adjunctive therapy in children with spastic cerebral palsy (Department of Biophysics).

8. Evaluation of reflexology as an adjunctive therapy in children with West syndrome (Department of Biophysics).

9. To develop and characterize Duchenne Muscular Dystrophy disease specific induced pluripotent stem cells from adult cells (ORBO).


11. Reprogramming of adult cell to develop Duchenne Muscular Dystrophy disease specific pluripotent stem cells. Funding agency Indo-Australian Biotechnology Fund, Duration June 2010 to June 2013, Total funding Rs 1.3 Crores
12. Evaluation of predictors of adverse outcome in Febrile neutropenic episodes in Pediatric Oncology patients
13. Evaluation of myocardial function in pediatric cancers and pediatric cancer survivors (Cardiology): an ongoing evaluation for evaluation of long/late effects of cancer therapy
14. Immunological characterization of HIV 1 infection in children in India. (Biochemistry).
15. Detection of mycobacteremia in patients with extra pulmonary tuberculosis. Lab Medicine
16. Development of taqman based real timer quantitative polymerase chain reaction assay for detection of pneumocystis carinii/ jerovacci pneumonia. DEPTT. Microbiology
17. Antigenic and molecular characterization of Influenza Virus strains from acute respiratory infection. With Microbiology
18. Oral voriconazole versus intravenous low dose amphotericin B for primary antifungal prophylaxis in pediatric acute leukemia induction: a proaspective randomized clinical study. (Medical Oncology)
19. Enhanced Surveillance for Pandemic H1N1 (PH1N1) of swine origin lineage: A Multi cetre study, INDIA Supplemental project for “Developing sustainable Influenza Surveillance Network in India (CO-AG Grant No:IU5 1 IP 00033301) Microbiology

PUBLICATIONS

Journals


38. Kasa-Vubu JZ, Jain V, Kathy Welch. Impact of fatness, insulin and gynecologic age on luteinizing hormone secretory dynamics in adolescent females. Fertility Steril 2009 Apr 24 (Epub ahead of print) PMID 19394610


110. Sankar MJ, Paul VK, Deorari AK. Neonatal Infections in Asia: Is the data truly representative of all units in the region? Available at http://fn.bmj.com/cgi/eletters/94/2/F144#3017 (accessed on 27/03/2009)


113. Oommen A; Vatsa M; Paul V K; Aggarwal R. Breastfeeding practices of urban and rural mothers. Indian Pediatrics 2009;46(10):891-4.


BOOKS AND EDITOR OF SPECIAL SUPPLEMENT/ SYMPOSIUM:

Chapters in Books


PATIENT CARE SERVICES

Outpatient Services

Department of Pediatrics provides general OPD services daily from 9 a.m. in Pediatrics OPD. There are 15 superspeciality services provided by department, which are as follows:

<table>
<thead>
<tr>
<th>Name of Service</th>
<th>New Cases</th>
<th>Old cases</th>
<th>Total Attendance</th>
</tr>
</thead>
<tbody>
<tr>
<td>General OPD</td>
<td>29931</td>
<td>47468</td>
<td>77399</td>
</tr>
<tr>
<td>Pediatric Neurology Clinic</td>
<td>1099</td>
<td>2600</td>
<td>3699</td>
</tr>
<tr>
<td>Myopathy Clinic</td>
<td>298</td>
<td>832</td>
<td>1130</td>
</tr>
<tr>
<td>Pediatric Gastroenterology Hepatology</td>
<td>1219</td>
<td>3918</td>
<td>5137</td>
</tr>
<tr>
<td>and Nutrition</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Well Baby Clinic</td>
<td>264</td>
<td>938</td>
<td>1192</td>
</tr>
<tr>
<td>High Risk Neonatology Clinic</td>
<td>256</td>
<td>901</td>
<td>1157</td>
</tr>
<tr>
<td>Pediatric Nephrology Clinic</td>
<td>469</td>
<td>3501</td>
<td>3970</td>
</tr>
<tr>
<td>Pediatric Chest Clinic</td>
<td>516</td>
<td>4560</td>
<td>4976</td>
</tr>
<tr>
<td>Pediatric Tuberculosis Clinic</td>
<td>244</td>
<td>1871</td>
<td>2115</td>
</tr>
<tr>
<td>Pediatric Rheumatology Clinic</td>
<td>158</td>
<td>1485</td>
<td>1643</td>
</tr>
<tr>
<td>Genetics and Birth Defects Clinic</td>
<td>2901</td>
<td>1360</td>
<td>4261</td>
</tr>
<tr>
<td>Pediatric Oncology Clinic</td>
<td>150</td>
<td>1580</td>
<td>1730</td>
</tr>
</tbody>
</table>
In addition Cystic fibrosis and Pediatric HIV services were provided in Pediatric Chest clinic.

Physiotherapy Services were provided to the patients in Neurology clinic, Myopathy clinic, Genetics clinic, Development clinic, Pediatric Chest Clinic, Rheumatology clinic and OPD services

Dietetics services were provided to patients attending Pediatric Gastroenterology, Hepatology and Nutrition clinic, Pediatric Chest clinic and general OPD services

Medical Social services were provided to all the patients admitted in Pediatric wards and patients attending clinics and general OPD.

Indoor Services

Indoor services include admission facilities in general wards, day care facility, oral rehydration unit and pediatric Intensive care facility.

Children requiring short procedures or interventions are admitted for a day in day care facility situated in C5 ward

Children suffering from acute diarrhoeal diseases are admitted and provided with oral rehydration therapy in Oral rehydration unit (ORU) situated in C5 ward

Children requiring intensive care are admitted in Pediatric Intensive care unit which is well equipped to provide care to critically ill children.

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pediatric Cancer Survivor Clinic</td>
<td>88</td>
<td>544</td>
<td>632</td>
</tr>
<tr>
<td>Pediatric Endocrine &amp; Metabolism Clinic</td>
<td>1000</td>
<td>1500</td>
<td>2500</td>
</tr>
<tr>
<td>Development Clinic</td>
<td>365</td>
<td>385</td>
<td>750</td>
</tr>
<tr>
<td><strong>Grand Total:</strong></td>
<td><strong>39324</strong></td>
<td><strong>71265</strong></td>
<td><strong>110589</strong></td>
</tr>
</tbody>
</table>

Special investigations/procedures

ENDOCRINOLOGY

Water deprivation test 15
Vasopressin challenge test 15
ACTH stimulation test 26
HCG stimulation test 40
GnRH stimulation test 30
Dexamethasone suppression test 10
GH stimulation test 20
Modified Oral Glucose tolerance test 40

**GASTROENTEROLOGY HEPATOLOGY AND NUTRITION**

**Pediatrics Endoscopies** 898
Sclerotherapies 267
Diagnostics 407
Dilatation 23
Biopsies 161
Foreign Body Removal 4
Colonoscopies 36

**CD Serology**
IFA (AEA) for diagnosis of Celiac disease: 556
tTg ELISA: 400
Fecal Fat
Sudan III stain Quantitative 30
D-xylose quantitative 20
NBT for Chronic Granulomatous Disease 61

**Diagnostics for Sepsis**
CRP: Latex agglutination (semi quantitative) 1500

**Micronutrient Assays**
Serum Zinc, 10
Serum copper 12

**GENETIC**
Developmental / Behavioural evaluation and intervention:
(developmental assessment, early stimulation and behavioural intervention) 1543

**Laboratory tests:**

**1. Cytogenetics Lab.**
1. Peripheral Blood Cultures 579
2. Cord Cultures for Karyotyping 47
3. Chromosomal Breakage studies 40
4. Amniotic Fluid cultures 89
5. CVS cultures 12
II Biochemical Lab.

1. Prenatal diagnosis for high risk pregnancies by triple test
   a) MSAFP
   b) Â HCG
   c) Free Estriol

2. AFP
3. Â heG

4. TLC for disorders of amino acid metabolism 169

5. Disorders of Mucopolysaccharidosis (Urine Spot test) 85

6. Homocysteinuria test 49

7. Reducing Substances in urine 175

8. DNPH 168

9. FeCl 3 170

10. Urine Porphyria 11

11. Oligosaccharides 12

12. Blood Ammonia 334

13. Enzyme assays for Inborn Error of Metabolism:

Total no. patients for Enzyme Assays: 231

- No. of patients with single enzyme assay: 115
- No. of patients with multiple enzyme assays: 116

<table>
<thead>
<tr>
<th>S No.</th>
<th>Enzyme Assay</th>
<th>Disorder</th>
<th>No. of Pts</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Arylsulfatase A</td>
<td>Metachromatic-Leukodystrophy</td>
<td>69</td>
</tr>
<tr>
<td>2.</td>
<td>á-Glucosidase</td>
<td>Gaucher Disease</td>
<td>27</td>
</tr>
<tr>
<td>3.</td>
<td>á-Iduronidase</td>
<td>Hurler Syndrome (MPS I)</td>
<td>9</td>
</tr>
<tr>
<td>4.</td>
<td>Iduronate Sulfatase</td>
<td>Hunter Syndrome (MPS II)</td>
<td>9</td>
</tr>
<tr>
<td>5.</td>
<td>Galactosose-6-sulphate sulphatase</td>
<td>Morquio A (MPS IV A)</td>
<td>11</td>
</tr>
<tr>
<td>6.</td>
<td>á-Galactosidase</td>
<td>GM1 Gangliosidosis and Morquio B (MPS IV B)</td>
<td>40</td>
</tr>
</tbody>
</table>
7. Arylsulfatase B  Maroteaux-Lamy Syndrome (MPS VI)  2
8. á-Glucuronidase  MPS VII  13
9. Hexosaminidase A  Tay-Sachs (GM 2)  18
10. Galactose-1-Phosphate-Uridyl Transferase  Galactosaemia  21
11. Biotinidase  (Screening Test)  16

### III Molecular lab.

1. Thalassemia mutation studies  261
2. Thalassemia prenatal diagnosis  101
3. Duchenne muscular dystrophy family studies  289
4. Duchenne muscular dystrophy prenatal diagnosis  22
5. Cystic fibrosis family studies  50
6. Cystic fibrosis prenatal diagnosis  4
7. Spinal muscular atrophy family studies  85
8. Spinal muscular atrophy prenatal diagnosis  12
9. Hemophilia A family studies  8
10. Hemophilia B family studies  2
11. Fragile X screening  91
12. Fragile X Prenatal diagnosis  2
13. Intersex cases for genotyping  53
14. Skeletal dysplasia mutations  26
15. MTHFR  10
16. Sequencing for diagnosis & Prenatal test  267
17. Connexin 26 mutations  21
18. MLC Mutation testing  10
19. Rett Syndrome Mutation testing  40

### NUTRITION UNIT

Nutrition:  1788
New Patients:  1267
Old Patients:  521
NEPHROLOGY

Special tests and procedures in nephrology

Hemodialysis 810
Acute peritoneal dialysis 141
(including automated peritoneal dialysis)
Continuous ambulatory peritoneal dialysis 15
Plasmapheresis sessions 104
Temporary hemodialysis catheter placement 132
Renal biopsy 115
Renal transplants 6

NEUROLOGY

Special Investigations/procedures

EPS Lab
1. NCV 340
2. EMG 121
3. RNST 11
4. EEG 1609
5. Muscle biopsies 141
6. Skin biopsies 21
7. Nerve biopsies 26
8. Arterial lactate 312
9. CSF lactate 156

PED. ONCOLOGY

Bone marrow examination: 480
CSF examination: 360
Lymphnode aspiration: 25
Flowcytometry : 60

PULMONOLOGY AND INTENSIVE CARE

Fibre- optic bronchoscopy: 246
Spirometry : 530
Infant pulmonary function test 15
Sweat testing 428

Pediatric Intensive Care

Mechanical Ventilation 175
**Critical Care Lab:**

Arterial Blood Gas Analysis 10000
Electrolyte estimation 7000

**Community Service & camps**

1. Organized IX Education program for parents of cystic fibrosis on 5.4.2009 by the Division of Pediatric Pulmonology
2. Parent interaction meeting for Rett Syndrome - 11th October 2009 at AIIMS by Genetics
3. In Pediatric Oncology division the ‘Parent support group – doctor meet’ organized interactive meeting between parents of children with various forms of childhood malignancies in collaboration with an NGO ‘CANKIDS’.
4. International Childhood Cancer Day was celebrated on Feb 15, 2009. As part of the HEALTH, HYGIENE & NUTRITION PROGRAM, children were explained the importance of these issues. A small film has been created by the treating physicians highlighting the importance of each of these.
5. Pediatric Endocrine division organized 2 interactive educational meets for children with Type I Diabetes and their parents and one for children with Congenital Adrenal Hyperplasia.
7. Parmeet Kaur, Anuja Agarwala, et al “Guide to Healthy Lifestyle for Adolescents” – a booklet released during the Nutrition Week; on the occasion of
8. Healthy Lifestyle Exhibition” organized by Dietetics Department, AIIMS on 3rd September 2008.
10. Anuja Agarwala “Healthy, Wealthy ‘N’ Wise” In: Mail Today: Education (special Initiative) on Tuesday, 23rd December, 2008; Pg 34.
12. Financial support to patients through the Rashtriya Arogya Nidhi, Prime Ministers relief fund, by providing medications with the help of NGOs like CANKIDS and CPAA
13. Patient education program. Parent support group meets are organized once every 3-4 monthly where the doctors, social worker, dietician, parents of children undergoing treatment and representatives from the NGO participate.
14. 3rd Childhood Diabetes-celiac meet” organized by Pediatrics GE and Endocrinology divisions, on 11th March 2008.

15. Information Booklet for patients on Obesity (in Hindi and English) printed and released on the Institute Day.

16. Mr Dhaneswar Yadav (MSSO) provided following services to pediatric patients: counseling to 3000 persons: Individual Counseling, Group Counseling, Family Counseling, Relationship Counseling to children with chronic illness; facilitated getting railway concession to 1200 patients; mobilized Rs 50 lakhs of financial assistance for poor patients from government & NGO’s; and rehabilitated 7 unknown neonates through Child Welfare Committees.

AWARDS HONOURS

Dr V. K. Paul
- Visiting Professor, Public Health Foundation of India
- Dr. R. V. Rajam Oration of the National Academy of Medical Sciences
- Indian Academy of Pediatrics (Chandigarh chapter) oration
- Dr. K. C. Choudhury Oration of the Institute of Child Health, Kolkata

Dr AK Deorari
- State NNF Oration for AP Neocon 2009 at Warangal, Andhra Pradesh
- Andhra Pradesh Pedicon–2009 Oration at Rajahmundry, Andhra Pradesh.

Arvind Bagga
Educational Ambassador, International Society of Nephrology

Rakesh Lodha
- Certificate of Appreciation from The Stanford India Biodesign Program.

Ramesh Agarwal
- Certificate of Appreciation from The Stanford India Biodesign Program.
- ICMR International Fellowship for Young Scientists at Stanford University, USA.

Dr. Rachna Seth
- Felicitated by CANKIDS-KIDSCAN, an NGO, for significant impact on childhood cancer treatment in India
- Awarded fellowship to attend the St Jude Viva Forum for Hematological Malignancies at Singapore March 3-5, 2010

Special Events

Departmental
- The Department was adjudged the best Pediatrics Department in India, third time in a row, by the magazine ‘The Week’.
• Division of Neonatology was recognized as Advanced Centre for Newborn Health Research by ICMR, New Delhi 2010-2014.
• Division of Neonatology continued to be WHO Collaborating Centre for Training and Research in Newborn Care.
• Division of Genetics continued to be WHO Collaborating Centre for Clinical Genetics.
• The Training tool of WHOCC-AIIMS on Essential Newborn Nursing for small hospitals has been incorporated into a National Programme (Navjaat Shishu Suraksha Karyakaram) launched by Ministry of Health on 15th September 2009.
• Division of Neonatology created a website www.newbornwhocc.org The website highlights the activities of our Division and provides free access to learning resource materials, software for Data collection etc developed by Neonatology Division.
• Division of Neonatology developed a teaching learning package on Essential Newborn Care consisting of power point along with matching script by consensus and pilot testing in six institutions in India. Available on website www.newbornwhocc.org

Dr. Vinod K Paul
• Team Leader for developing the Newborn and Child Health Policy 2009 for the Ministry of Health, Government of India
• Led a team to review the impact of existing child health programs for the Planning Commission for the Mid-term Appraisal of the XI Plan.
• Member, Board of the global Partnership for Maternal, Newborn and Child Health, Geneva
• Member, Data Safety Monitoring Board for the WHO Multi-centre study on impact of neonatal vitamin A supplementation on child mortality.
• Member, Codex Shadow Committee of the Women and Children Department, Government of India.
• Member, Scientific Advisory Council, Global Alliance to Prevent Prematurity and Stillbirths, a Gates Foundation Funded initiative.
• WHO Temporary Advisor for developing Childbirth Safety Checklist
• Member, Technical Advisry Group, Saving Newborn Lives, Save the Children (US)
• Member, Maternal Health Task Force, a Gates Foundation Funded initiative.
• Invitee to the International Advisory Panel on National Rural Health Mission.
• Member, Neonatal Health Group of the International INTERGROWTH Study to develop international fetal and newborn growth standards for 21st century
• Invited by DFID UK to develop maternal and newborn health inputs to G8 deliberations.
• Member, task force on Helping Babies Breathe initiative of the American Academy of Pediatrics
• Member, Governing Body of the National Neonatology Forum
• Member, SNEHA, a Mumbai-based NGO involved in maternal, newborn and child health.
• Member, Child Health Epidemiology Research Group (India)
• Member of the following committees of ICMR: National Ethics Committee, Task Force on Birth Defects, Scientific advisory committee for neonatal infection surveillance network, and member core group for the task force study on home-based management of newborn and young infant study.

Dr. A. K. Deorari
• WHO consultant to DPR Korea for capacity building of country for ensuring delivery of services for Essential Newborn Care on two occasions of two weeks each.

Dr. Arvind Bagga
• Member, Pediatrics Board, Medical Council of India (2007-09)
• Core Group Member, Chronic Kidney Disease Registry, Indian Society of Nephrology
• Associate Editor, Indian Pediatrics
• Member, International Advisory Board: (i) Current Pediatrics; (ii) World Pediatrics
• Member, National Advisory Board, Indian Journal of Practical Pediatrics
• Editorial Board, Indian J Pediatrics
• Core Group Member, Chronic Kidney Disease Registry, Indian Society of Nephrology
• The Division of Pediatric Nephrology was designated as “Level A Center” under the Sister Renal Center Program of the International Society of Nephrology

Pankaj Hari
• Secretary, Indian Society of Pediatric Nephrology
• Nominated as New Key Opinion Leader (nKOL) for pediatric transplantation by The International Transplantation Society (TTS)
• Reviewer for Pediatrics, (official Journal of American Academy of Pediatrics), Pediatric Nephrology (official Journal of International Pediatric Nephrology Association)

Dr. Sheffali Gulati
• Contributed to the validation of the INCLEN instrument for Diagnosis of Attention-Deficit/Hyperactivity Disorder (I-FDA) and INCLEN instrument for Diagnosis of Autism (IDEA) as a senior investigator.
• Served as Expert for Neurology projects for Indian Council of Medical Research and also reviewer for various National and International journals including American Journal of Medical Genetics

Dr. Rakesh Lodha
• Attended meeting of WHO Technical Group- Pediatric HIV/ ART care- Finalization of ART Treatment Guidelines for Children at Geneva (December 1-3, 2009) as a Temporary Advisor
Dr. Rachna Seth

- Organized the 1st Childhood Cancer survivor conference at AIIMS in collaboration with CANKIDS-KIDSCAN an NGO.
- Developed of manual entitled 'Neurocognitive and psychosocial deficits in childhood cancer' and patient education material for care of children with cancer (CD on health and hygiene & poster).

Dr Vandana Jain

- Conferred the Fellowship of GSMC-FAIMER Regional Institute in 2009.
- Australia delivered a talk on Metabolic syndrome and endothelial dysfunction in adolescents in April 2010.

Dr. Shinjini Bhatnagar

- Member, Technical Advisory Board for Diarrhoea, Institute of One World Health.
- National Coordinator Indian Academy of Pediatrics (IAP) and UNICEF for National Consultative Group for dissemination of rationale guidelines for treatment of diarrhea

Dr Pratima Ray

- Awarded ICMR International fellowship for senior biomedical scientist 2007
- Elected life member of American Society of Virology
- Reviewer for Infection Genetics and Evolution (Elsevier)
- Reviewer for Indian Journal of Pediatrics
- Reviewer for Pediatric Infectious Diseases
- Evaluated PhD thesis, Swinburn University of Technology, Victoria, Australia

Ms Anuja Aggarwala

- Resource person for Training the Trainers Program for establishing Malnutrition Treatment Centres (MTCs) in district hospitals in the state of Rajasthan.
- Resource person in TOT for Homoeopathic practitioners under Delhi State Health Mission (DSHM).
- Chaired A.N. Radha & K.G. Naidu Medical Trust Award Sessions at 42nd Annual National Conference of Indian Dietetic Association (Lucknow)
- Facilitator for TOT on “facility Based Care of Severe Acute Malnutrition” under IDHS (National Rural Health Mission).
- Chaired Session on “Safe concepts in Enteral Nutrition” at XV Annual Conference of Indian Society of Parenteral and Enteral Nutrition Held at Hyderabad on 22nd and 23rd January 2010.
- Appointed as one of the Expert Member of the Selection Committee by Institute of Liver and Biliary Sciences, Vasant Kunj, New Delhi (an Autonomous Society under Government of NCT of Delhi) to interview Nutritionists.
• CCT Member in INCLEN Projects on “Role of Yoga, Meditation and Diet in CVD and CND’, ‘Determinants of under-nutrition in children and assessment of management at different levels of Health care’ and ‘Foundational work for a Brain-to-Society Surveillance System for Innovation in Behavioral, Public Health, and Cross-Sector Strategy to Prevent Childhood Obesity and other lifestyle Related Health Problems’.

• Core group member for “Development of training modules on facility based care of Severe Acute Malnutrition (SAM).

• Expert Group Committee member of Course writers to design course structure in Home Science – B. VET Program for IGNOU.

• Selected as a member of Scientific Panel on “Functional Foods, nutraceuticals, Dietetic products and other similar products” by Food Safety and Standards Authority of India, Statutory regulatory Authority set up under the Food Safety and Standard Act, 2006.

• Attending meetings as FSSAI panel member: at Public Health Foundation of India (PHFI) partner FSSAI for: Eat Right – a mass communication initiative to address Cardiovascular Disease and Diabetes burden in India; and Development of a Communication and Advocacy Strategy for FSSAI.

VISITING SCIENTISTS

Dr. Olivier Fontaine, WHO Geneva

Dr. William Keenan and Dr Susan Niermeyer of the American Academy of Pediatrics / Neonatal Resuscitation Program

Dr Deekhsa Bali University of Duke USA - 30th July 2008

Dr Vanessa Tyrrell BAppSc, FHGSA(Cytogenetics) MBA

Asia Pacific and Japan Regional Sales Specialist, Illumina

Prof Ram K Menon, Chairman, Division of Pediatric Endocrinology, CS Mott Childrens Hospital., Michigan University delivered guest lecture on Genotype, phenotype and Epigenetics in November 2009

Dr Alexia Pena, Pediatric Endocrinologist from Adelaide, Australia delivered a talk on Metabolic syndrome and endothelial dysfunction in adolescents in April 2010.

Dr. Raj Warrier, Vice Chancellor, University of Manipal and Emeritus Scientist.
EDUCATION

1. Teaching of undergraduate medical and nursing students.
3. Trainees on rotation – M. Ch. Trainee in Neurosurgery, DM trainees in Neonatology, MS Trainees in General Surgery,
4. Training in the ward of BSc. and the M.Sc. Nursing students.

Short term and long term training

Four WHO fellow from Korea, two from Afghanistan and one from Bangladesh underwent short term and long term training.

CME Conducted by Department

1. Professor DK Gupta organized Workshop cum CME on stem cell potential in renal repair & regeneration: Clinical and experimental aspects on December 7, 2009 at AIIMS
2. Indian Association of Pediatric Surgeons, Delhi State chapter meeting 28th April, 2009.

Lectures delivered

Professor D.K. Gupta

1. Surgical management of Neurogenic Urinary Bladder, during the ICCS Meeting held in New Delhi, December 5-6, 2009.
2. How to differentiate Intersexuality from Hypospadias, Chair the scientific session and participate as an expert during the Panel discussion during the Workshop on Hypospadias – Agra, May 2009.
5. Visiting Professor, University of Chicago, USA at the Children Memorial Hospital, Chicago, USA, November 9-10, 2009, to deliver Guest Lectures on;
- Use of Stem cell in spina Bifida
- Esophageal replacement in Newborns.


7. Guest faculty during the 10th annual conference of Indian Association for Child Health and Adolescent Mental Health. AIIMS November 23-24, 2009 and deliver the lecture on Problems of Intersex Children.

Professor V. Bhatnagar

Guest Lectures at the Salmaniya Medical Complex, Kingdom of Bahrain, May 2009:
1. Post-operative assessment in anorectal malformations,
2. Research studies in biliary atresia,
3. Surgical options in long gap esophageal atresia,
4. Surgical management of the epispadias-exstrophy complex,
5. Controversies in the management of vesico-ureteral reflux.

Operative demonstrations at the Salmaniya Medical Complex, Kingdom of Bahrain:
1. Reoperation for reversed gastric tube esophageal replacement.
2. Posterior sagittal anorectoplasty for high anorectal malformation in a female.
4. Endoscopic incision of ureterocele and posterior urethral valves.
5. Reimplantation of ureters by the Cohen technique.


Professor M. Bajpai

Lectures at Madhya Pradesh chapter of IAPS:
1. Cholestatic jaundice- Medical nad Surgical management
2. Postnatal management of antenatally diagnosed hydronephrosis

Dr. Sandeep Agarwala

1. Thoracic tumors in children: At the Surgical Oncology training course conducted jointly by IPSO and EUPSA at the 56th BAPS +10th EUPSA Annual Congress at Graz, Austria, June 17-20, 2009

National and International Conferences

Lectures delivered

Professor D.K. Gupta

1. Lecture on Technical advances in genitoplasty during the 3rd world congress of Hypospadias and Intersex disorders, Toronto, Canada, November 12-15, 2009

2. The following lectures were delivered at the Annual Congress of the Pediatric Surgical Society of Iran, held in Tehran from May 11-14, 2009:
   a) Esophageal replacement for long gap esophageal atresia
   b) What is new in the managements of Wilms tumor?

Following lectures were delivered during SAARC Congress in Bangladesh, December 12-15, 2009 to deliver the;
   - Long gap TEF/OA
   - Training in Pediatric Surgery
   - Lung Lesions

• Presidential address during the inaugural function as President of FAPSS.
• Inaugural speech during the inaugural function of Laparascopic workshop.


Lecture on esophageal replacement – our experience in Newborns during 25th Annual conference of Egyptian Association of Pediatric Surgeons and Turkish Association of Pediatric Surgeons, Luxor, Egypt, December 8-11, 2009 to deliver the

Lecture on Status of Pediatric Surgery amongst SAARC nations during the International Forum of the BAPS, June 19, 2009 in the 10th EUPSA and 56th BAPS Annual Congress, held in Graz, Austria.

Professor V. Bhatnagar


Dr. Sandeep Agarwala


2. RCN guidelines for treatment of hepatoblastoma- at Annual meeting of SIOPEL, Padova, Italy, March, 2010

3. Panelist on the panel discussion “Approach and counselling of couple with diagnosis of fetal malformation/abnormal biochemical screening test during the 18th Annual Conference of National
Association of Reproductive and Child Health of India (NARCHI), 5-6th September, 2009, AIIMS, New Delhi.

4. Panelist on Panel discussion on Childhood cancer survivorship during the 1st Indian Childhood Cancer Survivor Conference, 6th February, 2010, AIIMS, New Delhi

5. Panelist on Panel discussion on treatment of childhood cancers during the 1st Indian Childhood Cancer Survivor Conference, 6th February, 2010, AIIMS, New Delhi

RESEARCH

Funded projects

Professor DK Gupta

1. A concept Model: Role of Autologus and Human stem cell in an Experimental model of Biliary atresia in rats, in collaboration with Department of Stem Cell facility, pathology, ICMR Project IRIS ID-2007/06040

Professor M Bajpai

1. To study the role of molecular markers (non-genetic) in the diagnosis and treatment of Posterior urethral valves: A Pilot study

2. A study on the effect of endoscopic treatment of VUR in patients with angiotensin converting enzyme insertion deletion gene polymorphism in down regulating RAS activation: A Pilot study

Dr. S. Agarwala

1. Genetic parameters of neuroblastoma: A study on fine needle aspiration cultures. [Funded by AIIMS Research Grant, 2009-2010. Rs. 100,000]

Departmental projects

Completed

1. Outcomes of pulmonary metastatectomy for pediatric solid tumors.

Ongoing

1. Long term outcome of children treated for posterior urethral valve

2. Long term results following pediatric pyeloplasty using single transanastomotic stent.


5. Mucous production in the neobladder after augmentation colocoloplasty.

6. Results of the outcome of treatment of neuroblastoma in children by using moderately intense chemotherapy consisting of cyclophosphamide, doxorubicin, etoposide and cisplatin in combination with surgery and radiotherapy.

7. Results with the use of platinum based regimes in the treatment of pediatric malignant germ cell tumors.


11. Monotherapy for standard risk hepatoblastoma.

12. Prospective study on five drug regimen for the management of clear cell sarcoma of the kidney.

13. Musculoskeletal and pulmonary functional abnormalities after thoracic surgeries

14. To study the role of renin angiotensin system blockade on renal recovery in experimentally induced unilateral ureteric obstruction-a morphometric analysis

15. To study the effect of ipsilateral ureteric obstruction on contralateral kidney & the role of renin angiotensin system blockade on renal recovery in experimentally induced unilateral ureteric obstruction-a morphometric analysis

**Collaborative research**

**Completed**

1. Volumetric analysis of the spleen in portal hypertension [Radio-diagnosis]

2. The role of nitric oxide in portal hypertension [Biochemistry]

3. Long term results of esophageal replacement by reverse gastric tube [Radio-diagnosis, Nuclear Medicine]

4. Loss of heterozygosity at 11p15.5 in hepatoblastomas [Pathology]

5. Role of FDG PET-CT in staging and evaluation of early response to chemotherapy in children with neuroblastoma [Nuclear Medicine]

6. Evaluation of hearing deficiencies in children who have received cis-platinum for treatment of solid tumors. [Otorhinolaryngology]

7. Whole body MR imaging for detection of skeletal metastases in pediatric patients of small cell neoplasms: comparison with skeletal scintigraphy and FDG-PET CT scan. [Medical Oncology, Radiodiagnosis and Nuclear Medicine]

8. Comparison of efficacy and safety of oral antibiotics (amoxycillin-clavulenic acid and ofloxacin) with intravenous combination (Ceftriaxone and amikacin) in outpatient setting in pediatric patients of low risk febrile neutropenia [Medical Oncology]

9. Telomerase estimation in patients with wilms’ tumor and hepatoblastoma as a marker for prognosis [Pathology, Biochemistry]
10. Evaluation of lymphocytic infiltration in Wilms’ tumor and adjoining normal renal parenchyma and its relation to recurrence and outcome [Pathology]

Ongoing
1. Role of autologous bone marrow mononuclear stem cells in polio affected neurologically deficit patients [in collaboration with the Department of Pediatric Surgery, Postgraduate Institute of Medical Sciences, Dr RML Hospital, New Delhi].

2. Role of bone marrow mononuclear stem cells in experimental model of liver fibrosis, [in collaboration with the Department of Pediatric Surgery, Postgraduate Institute of Medical Sciences, Dr RML Hospital, New Delhi. Volumetric analysis] Antibiotic prophylaxis in the management of vesicoureteric reflux: a multicentric randomized double blind placebo controlled trial [Pediatrics].

3. Biochemical analysis of bile in various disease states [Gastroenterology].

4. Comparison of pre and post operative liver histology in patients with choledochal cysts [Pathology, Radiodiagnosis].

5. Long term results following reimplantation of ureters in under one year old patients with VUR [Nuclear Medicine].

6. Long term results following Kasai’s procedure for biliary atresia [Nuclear Medicine, Pathology].

7. Long term results following tubularisation of pouch colon for pull through [Pathology, Radiodiagnosis].

8. A study of management issues in crossed fused renal ectopia [Nuclear Medicine, Radiodiagnosis].

9. Long term results following pyeloplasty in solitary kidneys [Nuclear Medicine, Radiodiagnosis].

10. A study of management issues in ectopic kidneys [Nuclear Medicine, Radiodiagnosis].

11. Genomic and proteomic analysis of SCF/C-Kit gene in a pediatric neoplasm, Neuroblastoma. [Pathology and Biochemistry]

12. Gene deletions and mutations in Wilms Tumor: Correlation with histopathology and Outcome. [Pathology]

13. Evaluation of cardiotoxicity related to adriamycin in children with solid tumors. [Nuclear Medicine, cardiology].

14. Evaluation of restrictive lung disease in long-term survivors of malignant germ cell tumors who have received Bleomycin as a part of treatment. [Pediatrics].

15. Evaluation of role of adjunctive therapy with 131 I MIBG therapy for advanced non-responsive, relapsed and metastatic Neuroblastoma [Nuclear Medicine]

PUBLICATIONS

Journals


35. Ragavan M, Bhatnagar V. Renal function, metabolic and acid base status in exstrophy bladder patients following augmentation coloplasty. Journal of Indian Association of Pediatric Surgeons 2009;14:187-188. (abstr)


44. Subramanian S, Seith A, Abhey P, Agarwala S, Mathur SR. Answers to case of the month #143 Mesenchymal hamartoma of the chest wall. Can Assoc Radiol J 60:47-9;2009. Epub 2009 Apr 10


**Chapters in books**


**Books**


**PATIENT CARE**

Attendance in OPD and specialty clinics

<table>
<thead>
<tr>
<th>Specialty clinics</th>
<th>New Cases</th>
<th>Old Cases</th>
<th>Total</th>
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<tbody>
<tr>
<td>General OPD</td>
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<td>12670</td>
<td>18782</td>
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<tr>
<td>Specialty clinics</td>
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<tr>
<td>Hydrocephalus</td>
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<td>Intersex</td>
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<td>Craniosynostosis</td>
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<tr>
<td>CRHSP Ballabgarh</td>
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<tr>
<td>Minor procedures</td>
<td>3100</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Admissions

AB-5 ward  2495
AB5- ICU  204

Surgical procedures

Major  1720
Minor  599

At CRHS Ballabgarh  237
TOTAL  2556

Special investigations:

Urodynamic evaluation  463
Uroflometry  370
Ano-rectal manometry  58
Esophageal manometry  1
4-hr pH monitoring  25

**AWARDS AND HONORS**

Professor DK Gupta:
1. Invited as chairman of the M.Ch Examination in Pediatric Surgery held at AIIMS in June 2009.
2. Invited by the Royal College of Surgeons of Edinburgh as the guest to be Conferred the Hony. FRCS – Edinburgh, October 22-23, 2009.
3. Invited to receive the Indraprastha Vaish Ratan Award – October 1, 2009
4. Invited as the International Member of the Abstract review committee of the Pacific Association of Pediatric Surgeons, May 12-15, 2009.
8. Invited as the International Guest faculty during the 10th EUPSA and 56th BAPS Annual Congress, held in Graz, Austria, June 17-20, 2009, with following responsibilities;
   • Chairing of scientific sessions during the Colorectal Club meeting.
   • Chairing of session during the Oncology session of the joint congress.
   • Participation during the international forum meeting of the Europe Associations of Pediatric Surgeons as a representative from Asia
   • Participation in the Council meeting of the World Federation of Associations of Pediatric Surgeons as a representative from Asia.
   • Participation as the council member of the British Association of Pediatric Surgeons, June 19, 2009
   • Invited to present the status report on the preliminary arrangements on the forthcoming 3rd World Congress of Pediatric Surgery in 2010 in Delhi.
9. Invited as international guest faculty during the 2nd Congress of Associations of Bangladesh (APSB) and the 3rd FAPSS Conference, held in Dhaka from December 12-15, 2009.

Professor V Bhatnagar

1. Delivered the Dr.M.S.Ramakrishnan Oration at the 35th Annual Conference of the Indian Association of Pediatric Surgeons at Lucknow during 19-22 November, 2009 entitled ‘Biliary Atresia – An attempt to explore beyond the tip of the iceberg’.
4. Nominated as the Vice President of the AIIMSONIANs, the alumni association of the All India Institute of Medical Sciences, New Delhi.

Dr. Sandeep Agarwala

1. Awarded the CCLG (UK) travel grant for 2009.
2. Selected as course instructor for Surgical Oncology course conducted by European Union of Pediatric Surgical Associations (EUPSA) with the International Society of Pediatric Surgical Oncology for 2009.
3. Nominated as a member of the executive committee of the International Society of Pediatric Surgical Oncology (IPSO) for a period of 4 years.
4. Is the Treasurer of the AIIMSONIANs, the alumni association of the All India Institute of Medical Sciences, New Delhi

SIGNIFICANT EVENTS

Prof D.K. Gupta

2. Invited as the International Member of the Abstract review committee of the Pacific Association of Pediatric Surgeons, May 12-15, 2009
3. Nominated as the Chairman for the selection of candidates from the SAARC Region for Lister and Greewood Fellowships of the British Association of Pediatric Surgeons.
5. Invited as the examiner in Pediatric surgery for MCh Examination at KGMU, Lucknow, July 18, 2009
6. Invited as the examiner in Pediatric surgery as the MCh Examiner –NRS Medical College, Kolkata, August 4, 2009
7. Invited for the MCI Inspection at Bangalore Medical College, Bangalore for starting M.Ch in the speciality, June 1, 2009
8. Invited as the guest faculty in Urology Mock Test examination held at AIIMS – March 22-24, 2010
10. Invited as the inspector by Medical council of India for conducting inspection at the NRI Medical College, Guntur, AP, February 5-6, 2010
11. Dr DK Gupta was invited as the expert in Pediatric surgery for the CSIR pool selection –March 31, 2010
12. Dr DK Gupta was invited as the President of the SAARC Association of Pediatric Surgeons to address the Conventions India, held at HICC, Hyderabad from May 1-2, 2009.

Prof. V. Bhatnagar

1. Prof. V. Bhatnagar was visiting Professor to The Salmaniya Medical Complex, Kingdom of Bahrain in May 2009 and to The Armed Forces Medical College, Pune in August 2009.

VISITING SCIENTISTS
Dr. AB Mathur- Norwich UK
Dr. Sandeep Gupta- Minnisota, USA
Dr. Aseem Shukla- Minnisota, USA
Dr. Richard W Grady- Washington, USA
Dr. Ahmed- Iraq
Dr. Bashar M Shehab- Iraq
### 9.27 Pathology

#### Professor and Head
Subrat K. Panda

#### Professors
- Chitra Sarkar
- Manoj K. Singh
- S. Datta Gupta
- Rajni Safaya
- Ruma Ray
- A.K. Karak

#### Additional Professors
- A.K. Dinda

#### Associate Professors
- M.C. Sharma

#### Assistant Professors
- Sandeep R Mathur
- Vaishali Suri

## EDUCATION

**Undergraduate:** No change

**Postgraduate**
- MD students: 16
- Senior Residents: 13
- PhD students: 12
- Pool Officer: 4

**Short term and Long term training:**
Students received short term training in the department.

## CONTINUING MEDICAL EDUCATION

**Organized by the department**


**Lectures delivered**

1. Prof. S.K. Panda was invited by Gastroenterology Young Masters 2010 on behalf of ISG to deliver a lecture at Manesar, Gurgaon on 21st Feb., 2010.
2. Prof. S.K. Panda was invited to deliver a series of talks on Biomedical Research on 22-23 March, 2010 at IIT Kharagpur.
4. Dr R Safaya was invited as guest speaker at 2nd CME in Pathology” organized by MVJ Medical College” at Bangalore from 5th to 6th February 2010.
5. Participated as an invited faculty and delivered talk on, “Biomedical Education: Current and Future Perspective”, in the Workshop for the Principals at Academic Staff College, Jawhar Lal University, New Delhi on 29 October, 2009
6. Dr AK Dinda: Indo-US Workshop on Redox Signaling in Degenerative Diseases, Maneswar, Gurgaon, 19-21 December, 2009, Invited lecture on “Application of Nanotechnology in Medicine; The Health and Safety Challenges” and also chaired a session on “Redox regulation of stem cell signaling”.

7. Dr AK Dinda: Invited lecture on “Current approaches to the diagnoses of glomerular diseases” on 22nd December, 2009 in Post conference CME of APCON-2009 at Kolkata

8. Dr AK Dinda: Invited lecture on “Nanothechnology in Diagnostic Pathology”, on 18th December, 2009 at the CME organized by International Academy of Pathology Indian Division (IAPID) – 2009 at Kolkata


10. Dr AK Dinda: Participated as a Faculty in workshop on Renal Pathology for clinician organized by International Society of Nephrology (ISN) and Indian Society of Pediatric Nephrology, at AIIMS on 4th December 2009

11. Dr AK Dinda: Invited lecture in 2nd CME in Pathology organized by Maulana Azad Medical College, Delhi, on 18th November, 2009, entitled, “Emerging role of Nanotechnology in Pathology”.


NATIONAL AND INTERNATIONAL CONFERENCES

Lectures delivered

Prof. Chitra Sarkar


2. Pathological Substrate in Epilepsy: Is it important for outcome prediction? Asian Epilepsy Academy (ASEPA), Commission on Asian and Oceanian Affairs International League against Epilepsy, Course on epilepsy surgery: evaluation, surgical procedures and rehabilitation, November 7-8, 2009, AIIMS, New Delhi.
3. In quest of markers for better prognostication and therapeutics of CNS tumors. In Annual Conference of the National Academy of Medical Sciences at Chhatrapati Shahuji Maharaj Medical University, Lucknow, 31st October 2009.


5. Changing Scenario in Oncopathology Practice. Oncology Congress 2010, Dharmashila Cancer Hospital, Delhi, 17th January 2010.


Prof. Rajni Safaya

7. “Extraskeletal Mesenchymal Chondrosarcoma (EMC)” oral presentation organized by 22nd European Congress of Pathology & International Conference to be held in Florence, Italy from 4-9th September 2009.

Dr. A.K. Dinda

8. “Calcineurin Inhibitor Toxicity” in the 6th Asia Pacific IAP Congress, 20th to 23rd August 2009 at Le Meridien Resort and Convention Centre, Kochi, Kerala,


Dr. M.C. Sharma


Dr. V.K. Iyer

15. “Conventional cervical cytology” at the AOGIN cytology workshop New Delhi, March 24th 2010

16. “Liquid based cytology and reflex HPV testing” at AOGIN conference, New Delhi, March 26th 2010
Dr. Sandeep Mathur

17. “Conventional versus two-tiered grading system for Cervical preneoplastic lesions” at AOGIN Conference, New Delhi, March 26th 2010

18. “Newer biomarkers for prediction of high grade cervical preneoplastic lesions” at AOGIN Conference, New Delhi. March 27th 2010

Dr. Vaishali Suri

19. “Effect of bone marrow derived mononuclear cells on nerve regeneration in rat sciatic nerve transection model” at XXIVth Annual Conference-Delhi Chapter-IAPM UCMS and GTB Hospital, Delhi, 2009.

Prof. S. Dattagupta

20. “Patterns, Vocabulary and Terminologies in Pathology : A guide not just for Postgraduate Students” in the Postgraduate Teaching Session of the Delhi Chapter of the Indian Association of Pathologists and Microbiologists held at the All India Institute of Medical Sciences, on 25 April 2009

21. Instructional Slide Seminar on “ Liver Biopsy interpretation” in the Postgraduate Teaching Session of the Delhi Chapter of the Indian Association of Pathologists and Microbiologists held at the All India Institute of Medical Sciences, on 04 July 2009

22. Clinico-Pathological-Conference (CPC) on “Amyloidosis” at the Kasturba Medical College, Manipal, 03 August 2009

23. “Approach to Identification of Fungi in Histological Sections” at the Kasturba Medical College, Manipal, 03 August 2009

24. “Patterns, Vocabulary and Terminologies in Pathology : A guide not just for Postgraduate Students” at the Kasturba Medical College, Manipal, 03 August 2009

25. Slide Seminar on “ Liver and Gastrointestinal Biopsies “ at the Kasturba Medical College, Manipal, 03 August 2009

26. “Interpretation of Liver Biopsies” at the 36th Annual Conference of the Karnataka Chapter of the Indian Association of Pathologists and Microbiologists [KCIAPM] at the JSS Medical College, Mysore , 25 October 2009

27. Slide Seminar on “Liver Biopsies” at the 36th Annual Conference of the Karnataka Chapter of the Indian Association of Pathologists and Microbiologists [KCIAPM] at the JSS Medical College, Mysore , 25 October 2009

28. “Histopathology of Endometriosis” at the INDO-US Workshop on Endometriosis at the All India Institute of Medical Sciences, New Delhi, 3 November 2009

29. Speaker in the “Symposium on Undergraduate Pathology Education in India” and delivered the talk on “Undergraduate Pathology Teaching at AIIMS” on 19 December 2009 at the 58th Annual Conference of the Indian Association of Pathologists and Microbiologists [APCON 2009], held at Kolkata from 19-21 December 2009.
RESEARCH

Funded

Completed

1. Acute thalamic involvement in severe head injury-An autopsy study with histopathological correlation. Dr. Chitra Sarkar (Co-PI), AIIMS, Rs 2.2 lakhs (2006-09).

2. Role of Sonic Hedgehog signaling in Human Cerebellum Development. Dr. Chitra Sarkar (Co-PI), NBRC, DBT, Rs 15 lakhs (2007-09).

3. Identification of novel Esophageal Squamous Cell Carcinoma genes by using a combination of array-based CGH and gene expression microarrays. [Co-investigator with Prof TK Chattopadhyay, (Department of Gastrointestinal Surgery) as the Principal Investigator from All India Institute of Medical Sciences, New Delhi and Dr M Bashyam as the Principal Investigator of the project (Center for DNA Fingerprinting and Diagnostics, Hyderabad) funded by the Department of Biotechnology]

4. A randomized controlled trial of VSL#3 versus mesalamine in patients with microscopic colitis (Co-Investigator with Dr Vineet Ahuja from the Department of Gastroenterology, All India Institute of Medical Sciences, New Delhi as the Principal Investigator, funded by CD Pharma.)

Ongoing

1. Study of viral proteins and other molecular markers in Hepatitis E virus (HEV) infected cells using high throughput molecular techniques; S. K. Panda; Funded by DBT for three years (2007-2010).

2. Investigation related to mechanism of entry of HEV into the host cells; S. K. Panda; Funded by DBT for 3 years (2008-2011).


4. Study of the role of bone marrow derived mononuclear cells in peripheral nerve repair of adult rats. Dr Vaishali Suri, ICMR, Rs 18 lacs (2006-09)

5. Efficacy and safety of AP 12009 in adult patients with recurrence or refractory anaplastic astrocytoma (WHO grade III) as compared to standard treatment with temozolomide or BCNU: A randomized actively controlled, open label clinical phase III study. Dr. Chitra Sarkar (Co-PI), Antisense Pharma, Germany, Rs 25 lakhs, (2007-10).

6. Angiogenesis in astrocytic tumors of the brain: A clinicopathological study with special reference to expression of vascular endothelial growth factor (VEGF), and hypoxia inducible factor (HIF)–1 alpha and correlation with vascular morphometric parametersand tumor infiltrating inflammatory cells. Dr. Chitra Sarkar (PI.) ICMR Rs.21 lacs (approx). 2009-2012.

7. Development of nanoparticular system for selective receptor specific macrophage targeting Dr AK Dinda, DBT, Rs 30,90,000, (2007-09).

9. Analysis of Her-2/neu status on fine-needle aspiration cytology smears and its correlation with hormone receptor status, proliferation markers and apoptosis in breast cancer: A fluorescent in-situ hybridization (FISH) and immunocytochemistry study. Dr Sandeep Mathur, CSIR, Rs 14 lakhs .(2009-2011)

10. Prognostication of paediatric abdominal solid tumors on the basis of 1p and 16q chromosomal deletions.: Dr. Venkateswaran K Iyer. AIIMS. Total Funding: Rs. 300,000 2009-12

11. p16INK4a and E-cadherin expression profile in pre-cancerous lesions of cervix and cervical carcinomas. AIIMS, Institute Research Grant. 1 lakh. 2009-2010

**Departmental Projects**

**Completed**


2. Histopathological and morphometric evaluation of surgically excised specimens of thoracic aortic aneurysms.

3. Modulation of macrophage function with nanoparticle.

4. Role of macrophage in modulation of renal fibrosis.

5. Ultrastructural study of podocyte changes in immune and non-immune mediated glomerular diseases.

**Ongoing**

1. Study of gliomagenesis: Possible involvement of CNS developmental pathway

2. Study of Limb Girdle Muscular Dystrophy (LGMD) Patients in Indian Population Using Calpain-3, Dysferlin and Sarcoglycan Protein Analysis.


4. Study of PTEN and CDKN2 gene alterations in GBMs.

5. Study of WNT pathway in ependymomas.


7. Gene deletions and mutations in Wilms tumor: Correlation with histopathology and outcome

8. Study of iron metabolism associated proteins in renal cell lines in hyperglycemic and hypernatraemic condition


10. Airway remodeling in Bronchial Asthma; A study in experimental mice model.

11. Nanoparticle mediated antigen presentation and modulation of antigen processing by macrophage.

12. Development of metal nanoparticle for cancer targeting

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COLLABORATIVE

Completed

1. Characterization of the properties of an amplified region of DNA in primary meningeal tumors – (with Dept of Biochemistry, AIIMS).
3. Pilocytic astrocytomas: correlation of clinical features and outcome with proliferation index and angiogenesis – (with Dept of Neurosurgery, AIIMS).
5. Advanced center for Liver diseases; Collaboration with Prof. S. K. Acharya; Funded by ICMR for 5 years (2004-2009).
6. Detection and molecular characterization of Pneumocystis jiroveci from patients with clinical diagnosis of interstitial pneumonia - (with Dept. of Microbiology, AIIMS)
7. Pharmacological and molecular studies on cardioprotective potential of cox-2 inhibitor and indigenous antioxidant drugs in experimentally induced myocardial infarction – (with Dept. of Pharmacology, AIIMS)
8. Parallel performance trial of fast HPV versus hybrid capture 2 for cervical cancer Screening – (with Dept of Obs & Gynae, AIIMS)
7. Development of HPV candidate vaccine/s: Preparation of a clinical trial site/cohort for vaccine testing – (with Dept of Obs & Gynae, AIIMS)
8. Correlation of Hepatitis B virus DNA in serum with viral core and surface antigen detection in liver tissue by immunohistochemistry in occult Hepatitis B virus infection. [with Dept. of Pathology and Gastroenterology, AIIMS]
9. Measurement of the depth of ducto-lobular units from the skin in mastectomy specimens to arrive at an optimum thickness of the skin flap in modified radical mastectomy for carcinoma breast- [with Dept. of General Surgery and Pathology].
10. The correlation of VEGF and TGF Beta1 expression to clinicopathological response, ER, PR and Her2/Neu status in locally advanced breast cancer: A pilot study - [with Dept. of Radiation Oncology and Pathology, AIIMS]
11. Evaluation of loss of heterozygosity in Chromosome 1p and 11p in Hepatoblastomas - [with Dept. of Pathology and Pediatric Surgery, AIIMS]
12. Effect of Glutamine Supplementation on structure and function of the intestines in patients with Crohn’s Disease - [Dept. of Gastroenterology and Pathology, AIIMS]
13. Analysis of Peripheral T-Cell Lymphomas – Incidence, Clinical Characteristics, Prognostic Factors and Treatment outcomes - [Dept. of Medical Oncology and Pathology, AIIMS]
14. Effect of short course of Prednisolone to Gluten-free Diet and Gluten-free Diet alone in the recovery of clinical, histological and immunological features in treatment of naive adult patients
with Celiac disease: A pilot randomized controlled trial - [Dept. of Gastroenterology and Pathology, AIIMS]

15. Role of FDG PET-CT in evaluation of axillary lymph node involvement in T1T2N0 Breast cancer in comparison with sentinel lymph node biopsy - [with Dept. of General Surgery, NMR and Pathology, AIIMS]

**Ongoing**

1. Analysis of immunomodulation property of IFN-g on classical, nonclassical MHC 1 and TGF-b expression in astrocytic tumors and their relevance in immunotherapy – (with Dept. of Neurobiochemistry).

2. Study of HIC-1 in tumorigenesis and cell response – (with Dept of Biochemistry).

3. Effects of administration of human umbilical cord blood cells (HUCBG) in Combination with melatonin versus HUCBG along in rat with stroke – (with Dept of Neurology, AIIMS).

4. Effect of Terminalla arjuna on Cardiac Hypertrophy in Rats - (with Dept. of Pharmacology, AIIMS).

5. Evaluation of the cardio protective effects of combination of Ramipril and Irbesartan in experimental model of ischemic-reperfusion injury in rat heart - (with Dept. of Pharmacology, AIIMS).


7. Imaging guided lung biopsy in immunocompromised patients with possible fungal pneumonia and its clinical implications - (with Dept. of Hematology, AIIMS).

8. An electron microscopic study of left ventricular muscle biopsy in patients with transposition of great arteries (with Dept of Cardiothoracic Surgery, AIIMS).


10. Molecular detection and genotyping of HPV in cervical cancer – a population based study - (with Dept. of Biochemistry, AIIMS).


12. Reconstruction of Extensive Long-Bone Defects in Rabbit Using Calcium Phosphate Mullite Composites - (with Dept of Metallurgy, IIT Kanpur)

13. Development of tumor targeting with nanogel system - (with Center for Biomedical Engineering, IIT, Delhi).

14. Role of macrophage and oxidative stress in airway remodeling - (with IGIB, Delhi).

15. Effect of blocking of HIF1á gene expression on macrophage endocytosis and generation of ROS - (with JNU, Delhi).

17. Development of hydrogel based wound dressing and study of its efficacy in experimental model- (with Center for Biomedical Engineering, IIT, Delhi).

18. Study of placenta for oxidative stress status in pregnant women on daily versus weekly iron supplementation: An ICMR Task Force Study. ICMR. 2009-2011 – (with Dept. of Obs & Gynae), AIIMS.

19. Safety and efficacy of 2 versus 3 dose HPV vaccine in adolescent girls aged 10-18 years – (with IARC, Lyon, France. IARC. 2009-2014)

20. A Randomized controlled trial to determine gluten threshold for pediatric patients with celiac disease - [with Dept. of Pathology, Physiology and Pediatrics, AIIMS]

21. Evaluation of focal renal mass lesions using MDCT & MR with diffusion-weighted imaging - [with Dept. of Pathology, Radiodiagnosis and, Urology, AIIMS]

22. Effect of Anti-TFN- Ù therapy on severity of experimental acute pancreatitis and subsequent pancreatic regeneration - [with Dept. of Pathology and Anatomy, AIIMS]

23. A study of angiogenesis, proliferative activity and DNA ploidy in oral Verrucous Carcinoma: Comparison with Normal Mucosa, Verrucous Hyperplasia and Squamous Cell Carcinoma- [with Dept. of Pathology, ENT and Radiation Oncology, AIIMS]

24. Cysts, tumours and tumour like lesions of the jaw: evaluation by panoramic radiographs and multi detector computed tomography with limited MRI correlation - [with Dept. of Pathology and Radio-Diagnosis, AIIMS]

25. Correlation of Hepatitis B virus DNA in serum with viral core and surface antigen detection in liver tissue by immunohistochemistry in occult hepatitis B virus infection - [with Dept. of Pathology and Gastroenterology, AIIMS]

26. Exploration of the site of origin and cellular characteristics of Juvenile Nasopharyngeal Angiofibroma - [with Dept. of ENT and Pathology, AIIMS]

27. Evaluation of prognostic significance of protease expression and molecular markers in patients with Ca Pancreas - [with Dept. of Gastroenterology, Pathology and Biochemistry, AIIMS]

28. Characterization of Tight junction proteins in Crohn’s Disease and Celiac Disease patients - [with Dept. of Gastroenterolog and Pathology, AIIMS]

29. Molecular pathogenesis of oral pre-cancerous lesions and oral cancer - [with Dept. of Biochemistry, Pathology, Dental Surgery, ENT, General Surgery and Surgical Oncology, AIIMS]

30. Histological diagnosis of Celiac disease and its correlation with other markers - [with Dept. of Pathology and Pediatrics, AIIMS]

31. Histopathology of Acute and Subacute Liver Failure - [with Dept. of Pathology and Gastroenterology]

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32. Molecular Characterization of Giardia intestinalis isolates and correlation of genotype with different clinical spectrum of Human Giardiasis - [with Dept. of Pathology, Microbiology, Pediatrics and Gastroenterology, AIIMS]

33. Evaluation of Curcumin in advanced Cervical Cancer - [with Dept. of Pathology, Biochemistry, Obstetrics and Gynecology and Radiation Oncology, AIIMS]

PUBLICATIONS


**PATIENT CARE**

**Laboratory services**

**Surgical Pathology Laboratory**

- Specimens processed 34,357
- Special stains 26,788
- Frozen sections 810

**Cytopathology Laboratory**

Patient care services:

1. FNAC out-patients clinic
2. On site rapid assessment of Ultrasound guided FNAC

**Laboratory Services**

1. Processing of all cytology specimens (FNAC, ascetic/pleural fluid, sputum, urine, cerebrospinal fluid, bronchoscopic aspirate/lavage,
2. Processing and screening of cervical (Pap) smears.
3. Special processing facilities like Cytospin and Millipore filtration.

Total specimens

FNAC (out patient) 7808
Exfoliates routine 6064
Cervical smears (PAP smears) 3968
Immunocytochemistry 653

Autopsies performed 30

Electron microscopy
Specimens processed 810

Immunohistochemistry Laboratory
Specimens processed 17,431

Neuropathology services
Neuropathology surgical specimens 2254
Immunohistochemistry 7580
Muscle biopsies:
Total number received 378
Muscle enzyme histochemistry 1195
Myelin stain 141
Frozen sections 308
Diagnostic FISH 20

Tissue Culture Lab
H&E Staining 486
Special Stains 287
Immunohistochemistry 583
Frozen Sections 600

Renal pathology services
Urine sediment analysis 2141
Immunofluorescence of kidney biopsy 547
Electron microscopy of kidney biopsy 150

Cardiac Pathology Services
Routine Cases 180
Research Cases 161
Poly. L Lysine slides 20943
Special stains 228
Frozen Sections 101
Hepatic Pathology Services

Markers for hepatitis viruses

- HBs Ag 1702
- HBe Ag 1792
- HBe-IgM 120
- HAV IgM 240
- Anti-HCV IgG 600
- Anti-HEV IgM 400

AWARDS & HONOURS

1. Prof. S.K. Panda was invited to attend the Annual Meeting of the Indian National Science Academy and was elected a fellow of the Indian National Science Academy to receive the fellowship at Kolkata from 7-10th December, 2009.

2. Dr Chitra Sarkar was awarded the Sir Shriram Memorial Oration by the National Academy of Medical Sciences, New Delhi.

3. Dr Chitra Sarkar was elected as Fellow of the National Academy of Medical Sciences (NAMS).

4. Dr. NC Nayak Talented young Pathologist Award for year 2009 won by Dr. Vaishali Suri in XXIVth Annual Conference-Delhi Chapter-IAPM UCMS and GTB Hospital, Delhi.

5. First Prize for poster entitled “Molecular profile of oligodendrogliomas in the young” won by Dr. Shipra Agarwal at the XIIth annual conference of DNA (DNACON- 2009)), 6th and 7th Feb 2010, Sir Ganga Ram Hospital, New Delhi.

6. First Prize for oral paper entitled “MGMT gene promoter methylation in gliomas” won by Ms. Prerana Jha at the XIIth annual conference of DNA (DNACON- 2009)), 6th and 7th Feb 2010, Sir Ganga Ram Hospital, New Delhi.

7. Third Prize for poster entitled” Limb girdle muscular dystrophy Type 2a in India: a study based on semi-quantitative protein analysis with clinical and histopathological correlation” won by Mr Pathak Pankaj at the XIIth annual conference of DNA (DNACON- 2009)), 6th and 7th Feb 2010, Sir Ganga Ram Hospital, New Delhi.

SIGNIFICANT EVENTS

Prof. S.K. Panda


2. Invited by the Indian Council of Agricultural Research for Project Directorate on Animal disease Monitoring and Surveillance to attend the meeting on 24th April, 2009 in Bangalore.

3. Invited to attend a meeting at IIT Chennai on instrumentation and to discuss the Sikka Committee of the Indian National Science Academy on 12th July, 2009 at Chennai.
Prof. Chitra Sarkar

4. Nominated as member of committee for reviewing the functioning status of deemed to be university of NBRC.

5. Nominated as Member of the Scientific Advisory Committee of Institute of Pathology, New Delhi.

6. Nominated as Member of the Chronic Disease Biology – Neurology group, DBT, New Delhi.

Dr AK Dinda

7. Nominated as an expert in the committee evaluating on “Issues of Risk in the Regulation of Nanotechnology” organized by the International Development research Centre and The Energy and Resources Institute (TERI), New Delhi as a part of the project on “Capability, Governance and Nanotechnology Developments: a focus on India”.

Prof. S. Datta Gupta

8. Member of the Technical Committee of the Ministry of Health & Family Welfare for the Six-AIIMS like institution and upgradation of medical colleges under the Pradhan Mantri Swasthya Suraksha Yojana of the Government of India

9. He attended the following meetings / consultations of the World Health Organization (WHO) [South East Asia Regional Office (SEARO)] as a Temporary Advisor:

(i) Expert Group Meeting on Continuing Medical Education (CME), 12-14 October 2009, Manesar, India

(ii) Regional Consultation on WHO Draft Code for Practice for the International Recruitment of Health Personnel, 16-17 December 2009, Gurgaon, India

10. Invited as a member of the Committee of the Medical Council of India for drawing a Competency-Based Curriculum for Postgraduate Medical Courses\n
11. Member of the Project Implementation Committee of AIIMS

VISITING SCIENTISTS

1. Dr Sadhan Majumder, Professor, Department of Genetics, Department of Neuro-Oncology, University of Texas MD Anderson Cancer Center, USA visited the Neuropathology lab and delivered a lecture on “Flexibility of stem/progenitor cells regulates normal development and cancer” on 23rd February 2010.

2. Dr. Mani S. Mahadevan, Professor of Pathology and Medical Director, Molecular Diagnostics Lab, UVA Health System, University of Virginia, USA visited the Department of Pathology and delivered a lecture on 11th Feb., 2010, AIIMS, New Delhi.
9.28 Pharmacology

Professor and Head
Y. K. Gupta

Professors
V.L. Kumar
S.K. Maulik
Kamal Kishore
N.R. Biswas

Associate Professors
D.S. Arya
Jatinder Katyal

Assistant Professor
Jagriti Bhatia
Kh Reeta
Surender Singh

Scientists
Sujata Joshi
Thomas Kaleekal
Sharda S. Peshin
Amita Srivastava
Nabanita Halder
Madhuri Gupta
Sunder Singh Samuel

EDUCATION
The department is engaged in the teaching programme of MBBS (3rd, 4th and 5th semesters), BSc Nursing (Hons), MSc, MD, PhD and DM (Clinical Pharmacology) courses.

Continuing Medical Education
Organized by the Department

Lectures delivered
Dr. Y.K. Gupta
3. Delivered a guest lecture on ‘Managing Quality in Pharmacy Services’ in the CME on ‘Quality in Hospital Services’ organized by the Dept. of Hospital Administration, AIIMS on 7th Nov. 2009.

4. Delivered an invited lecture on “Pharmacovigilance and evolving synergy of academia, industry and regulators” and acted as a resource person for a hands on workshop at ‘Partnership in Clinical Trials – Asia Pacific’ at Singapore on 1st – 3rd December, 2009.

5. Delivered a guest lecture on “Herbal Drugs in Epilepsy and Alzheimer’s disease” at 4th International Symposium on “Current Trends in Drug Discovery Research” at CDRI, Lucknow on 17th Feb, 2010

Dr. V.L. Kumar

2. “Pro-inflammatory properties of latex of Calotropis procera” at the Universidade Federal Rural de Pernambuco, Recife, Brazil on February 22, 2010.

3. “Anti-inflammatory, analgesic and anti-pyretic properties of latex of Calotropis procera” at the Universidade Federal do Ceara, Fortaleza, Brazil on February 26, 2010.

4. “Medicinal uses and pharmacological properties of latex of Calotropis procera” at the Universidade Federal do Ceara, Fortaleza, Brazil on March 3, 2010.

Dr. Kamal Kishore

1. Delivered two invited lectures on ‘Herbal Drugs I and II’ at Forest Research Institute, Dehradun on 30.9.10.

Dr. Jagriti Bhatia


Dr. Kh Reeta

1. Delivered an invited lecture on “Issues in Clinical Trials of Herbal Medicine” in the Indo-US Symposium on Ayurvedic, Siddha & Unani (ASU) Drugs: Development and Marketing organized by Center for Research in Indian Systems of Medicine (CRISM) in collaboration with Indian Institute of Integrative Medicine (CSIR) and National Center for Natural Products Research, the University of Mississippi, USA, at NASC Complex, New Delhi, December 2-4, 2009.


3. Delivered an invited lecture, on “Boosted Drugs” in the CME on Risorine, organized by Indian Institute of Integrative Medicine, Jammu (CSIR) and Cadila Pharmaceuticals Ltd., at Hotel Lalit, New Delhi, November 1, 2009.
Dr. S.K. Maulik

1. Delivered a talk on “Antioxidants and Cardioprotection” in Indo-US workshop on ‘Redox Signaling in Degenerative Diseases’ at Manesar, Gurgaon, on 20th December, 2009.

Lectures delivered in Conferences

Dr Y. K. Gupta

1. Delivered a lecture on “Pharmacovigilance in drug development and beyond.” in the conference on “Translational Health Research: Pathways to Discovery” at King George Medical College, Lucknow, 29th April 2009.


5. Delivered a talk on “Pharmaceutical intervention in H1N1 Influenza”. At Second India Disaster Management Congress by NDMA on 4- 6th November, 2009.

6. Delivered a guest lecture on “How to write a research project and research paper” in the Recent Trends in Pharmaceutical Sciences (RTPS 09) at Anand College of Pharmacy, Agra on 14th November, 2009.

7. Delivered a plenary talk on “Academia, Industry and Regulator Synergy for Impactful Pharmacovigilance in India” in the Annual Conference of Society of Pharmacovigilance in India (SOPI) at Rajendra Institute of Technology and Sciences, SIRSA on 20th Nov, 2009.

8. Delivered a lecture on ‘Clinical Trials and Ethical Aspects of Clinical Trials in India.’ at 61st IPC– New Drug Discovery, Development and Approval: Opportunities and Challenges in the 21st Century at Ahmedabad’ on 13th December, 2009:

9. Delivered a guest lecture on “Good Laboratory Practice for academic institutions” at the APPICON 2009, Saifai, Itawah, 3-6th Dec 2009.

Dr. S.K. Maulik

2. Delivered a key note address on “Peripheral benzodiazepine receptor and experimental cardiac hypertrophy” at the 4th Global Conference on ‘Recent Advances in Cardiovascular Sciences’ on 4th February 2010 in Delhi.

3. Delivered an invited talk on “Terminalia arjuna (Roxb.) in experimental Left Ventricular Dysfunction” in 2nd World Heart Congress-2010 and Heart Failure Society of India at PGIMER, Chandigarh on 7th February 2010.
4. Delivered an invited talk on “Rational Pharmacotherapeutics for MBBS curriculum” and also chaired a session in the 1st National Conference of Indian Society For Rational Pharmacotherapeutics on 24th February 2010 at Jawaharlal Nehru Medical College at Wardha, Nagpur.

Dr. V.L. Kumar


RESEARCH

Funded Projects

Ongoing


5. Efficacy & Safety Evaluation on Antiepileptic activity of selected Indian Herbs. Dr. YK Gupta. Funded by Department of Science and technology for 3 years (2007-2010). Funds : Rs 8.04 lakhs.

6. Training module in clinical research. Dr. YK Gupta. Funded by the Department of Biotechnology for 3 years ( 2008-2010). Funds: Rs 9,00,000.

7. Quantitative detection of heavy metals and phthalates in toys. Dr YK Gupta. Funded by ICMR for 1 year (2009). Funds: Rs. 6,30,900.

8. Effect of traditionally used ayurvedic rasa aushadhies on renal and hepatic functions: Clinical and experimental study. Dr YK Gupta. Funded by Department of AYUSH, MOHFW, Government of India for 3 years (2009-2012). Funds: Rs 27,65,842.

9. Phyto-therapeutic development of latex of the medicinal plant *Calotropis procera*. Indo-Brazil project. Dr. V L Kumar. Funded by Department of Science and Technology for 3 years (2009-2012). Funds : Rs. 10,00,000.


12. Studies on pharmacological and molecular mechanism to investigate an angiotensin type I receptor blocker Irbesartan in experimental model of myocardial ischemia reperfusion injury. Dr. D.S. Arya. Funded by Indian Council of Medical Research for 3 years (2008-2011). Funds: Rs 22,00,000.

13. Randomized Double Blind Placebo-Controlled Study to Compare the Efficacy of Riboflavin versus Propranolol in Prophylaxis of Migraine. Dr. Kh Reeta. Funded by AIIMS for 1 year (2009-2010). Funds: Rs. 1 lakh.

14. Standardization and Pharmacological studies of widely practiced antiarthritic Unani formulation “Majoon Suranjan” based on classical Unani literature. Dr. Surender Singh. Funded by Indian Council of Medical Research (ICMR), Govt. of India for 3 years (2007-2010). Funds: Rs. 28.62 lakhs.

15. Evaluation of anti-arthritic activity of plant lipids containing omega-3 fatty acids in experimental models “Majoon Suranjan” based on classical Unani literature. Dr. Surender Singh. Funded by Indian Council of Medical Research (ICMR) for 3 years (2009-2012). Funds: Rs. 18.48 lakhs.

Completed


3. UNEP/WHO Milk Survey Project; Human Milk Data from NCT Region. Dr. Y.K. Gupta. Funded by WHO. Funds: US $4000


Departmental Projects

Ongoing

1. Pharmacokinetic interaction of herbal medicines and antiepileptic drugs: the molecular mechanisms.

2. An explorative prospective open-labelled pilot study for evaluation of safety and efficacy of the nutraceutical S-adenosyl-L-methionine (SAMe) in patients with osteoarthritis of knee

3. Evaluation of antiepileptic property of selected Indian plants and their mechanism of action.
4. To study the effect of immunosuppressive agents on transient ischemia model in rats.

5. Effect of *Bacopa monniera* and *Curcuma longa* in sodium valproate induced hepatotoxicity in rats


7. Evaluation of potential of *Clitoria ternatea* and *Evolvulus alsinoides* extracts for cognitive impairment in rats.

8. Development of experimental model for postmenopausal dry eye in rodents


10. Evaluation of topical COX-2 inhibitors for corneal angiogenesis

11. Corneal metabolism of drugs and their relation with endothelial toxicity in amide class of local anesthetics

12. Pharmacokinetic and Toxicity profile of High Dose Methotrexate and its Relationship with Serum Creatinine in Indian Children

13. Detection (Qualitative) and Estimation (Quantitative) using LCMS/MS of Steroids in Unlabelled Medications

14. Effect of SAMe on PTZ induced seizures

15. In vitro Assessment of DNA Damage as Predictor of Response to Chemotherapy in Acute Myeloid Leukemia

*Completed*

1. Effect of COX-2 inhibitor etoricoxib on tolerance to antiepileptic effect of phenobarbitone in mice.

2. Evaluation of different beta-lactam antibiotics in pentylene tetrazole induced seizures in mice.

3. A randomized double blind study to evaluate lipid modifying, anti-inflammatory, anti-oxidant efficacy and tolerability of combination of atorvastatin and ezetimibe versus atorvastatin and placebo with dyslipidemia

4. Intensive adverse drug reaction monitoring in hospital inpatients in medicine and nephrology wards in A.I.I.M.S.

5. Neurobehavioral evaluation of hydroalcoholic extract of *Emblica officinalis* with special reference to its antiepileptic activity.

6. Evaluation of chemical nature of Holi colours & their ocular toxicity.

7. Correlation of umbilical cord serum retinol levels in preterm very low birth weight infants with maternal serum retinol level at delivery.

8. Plasma level monitoring of mycophenolic acid and clinical outcome in renal transplant patients

9. Evaluation of thyroid functions and thyroid antibodies in children with epilepsy on valproate monotherapy
Collaborative Projects

Ongoing

1. Efficacy and safety of concomitant use of nevirapine and rifampicin in patients co-infected with HIV and tuberculosis in India in collaboration with department of Medicine, AIIMS

2. Functional importance of organic anion and cation drug transporters (SLC family) in the ocular disposition of drugs. In collaboration with Department of Ocular Pharmacology, AIIMS

3. Development of water soluble derivatives of isoflavones with selective affinity for estrogen and androgen receptors using CADD for post-menopausal dry eye syndrome. in collaboration with Department of Ocular Pharmacology, AIIMS

4. Prediction of ocular side effects of therapeutic agents in the experimental animal models. In collaboration with Department of Ocular Pharmacology, AIIMS

5. Isolation and evaluation of the pharmacologically active principles from marine sources. In collaboration with Department of Ocular Pharmacology, AIIMS.

6. Stereo selectivity in corneal penetration of drugs. In collaboration with College of Pharmacy, Ohio State University, USA.

Completed

1. Strategies for development of ocular specific fluoroquinolones. in collaboration with Department of Ocular Pharmacology, AIIMS

PUBLICATIONS

Journals


Abstracts


Books/ Chapters in Books/ Monographs:


PATIENT CARE

Clinical Pharmacology Facility

The Clinical Pharmacology wing of the department is equipped to conduct a range of studies on healthy volunteers. Recently acquired facilities include instruments for neurocognitive testing, exercise pharmacodynamics and cardiovascular parameters assessment, platelet function testing, imaging facilities and a cell culture laboratory. The facility has 20 beds including two beds in the ICU.

The department has standardised methods for estimation of lead, cadmium, copper, zinc, iron, arsenic, mercury and magnesium in biological samples using Inductively coupled plasma – Atomic Emission spectrophotometer (ICP-AES)

Therapeutic Drug Monitoring facility

The department provides facilities for estimation of blood levels of drugs with narrow therapeutic index like methotrexate and antiepileptics (Phenytoin, Phenobarbitone, Carbamazepine and Sodium valproate). In addition standardized methods are available for estimation of Vitamin A and E.

National Poison Information Centre

National Poisons Information Centre (NPIC) provides 24 hour service. Information on management of poisonings is provided to treating physicians, general public and also to governmental and non-governmental organizations.
Information on various poisonings and treatment protocols on telephone, Fax, e-mail and in person. The NPIC has the back-up of latest literature on poisoning due to a variety of products that include household items, agricultural and industrial chemicals, drugs, environmental toxins including plants, animal bites and stings and other miscellaneous products. The data received by centre is compiled and analysed for knowing the trend of poisonings.

**Pharmacovigilance Programme of India – National Coordinating Centre**

Department of Pharmacology will be the National Co-ordinating centre for the revised Pharmacovigilance Programme of India under the Central Drugs Standard Control Organization (CDSCO), Ministry of Health, Government of India. This centre will receive adverse drug reaction data from the ADR monitoring centres across the country. The data will be collated and analysed for causality assessment of the adverse drug reactions and submitted to CDSCO.

**Urinary Catecholamine test**

Urinary catecholamines estimation is routinely performed in the department for the diagnosis of Pheochromocytoma. A total of 156 samples from different departments were analysed during the year.

**AWARDS AND HONOURS**

**Dr Y.K. Gupta**

- Elected President; Society of Toxicology, India; for 2010-12.
- Chairman - Scientific Advisory Committee: National Institute of Occupational Health, Ahmedabad. Indian Council of Medical Research, New Delhi
- Chairman – National GLP Technical Committee. Department of Science and Technology, Government of India, New Delhi
- Chairman - Institutional Animal Ethics Committee. AIIMS, New Delhi.
- Editor (Pharmacology), Indian Journal of Physiology and Pharmacology
- Member - Research Council: Centre for Cellular and Molecular Biology (CCMB), Hyderabad. Council of Scientific & Industrial Research (CSIR), Government of India.
• Member – Scientific body of Indian Pharmacopeia Commission.
• Member – Scientific Advisory Committee. CCRAS, Department of AYUSH, Ministry of Health & Family Welfare.
• Member – Institutional Ethics Committee for Human Research. AIIMS, New Delhi.
• Member - ICMR-NIF (National Innovation Foundation) Initiative Committee for Planning commission in 11th five year plan. Indian Council of Medical Research, New Delhi.
• Member - National Committee of IUNS-IUPS-IUPHAR, Indian National Science Academy, Bahadur Shah Zafar Marg, New Delhi. Indian National Science Academy.
• Member - Core Group for National Guidelines on Chemical Disaster Management. National Disaster Management Authority, GOI, New Delhi.
• Member - Group to advise Regulation of Manufacture & Import of Multi-use Insecticides, Group on Simplification of Registration Procedure of Multi-use Insecticides, Central Insecticides Board & Registration Committee. Directorate of Plant Protection, Quarantine & Storage, Department of Agriculture & Cooperation, Ministry of Agriculture, Government of India.
• Member - Advisory Committee: ICMR for preparing medicinal plants monographs on selected diseases of public health importance. Indian Council of Medical Research, New Delhi.
• Member – The Project Review Committee: Department of Science and Technology of Indo-foreign Collaboration. Department of Science and Technology, New Delhi.
• Expert Member - Project Review Committee: Indian Council of Medical Research, New Delhi. Indian Council of Medical Research, New Delhi.
• Member - Project Advisory Committee in Bio-medical Science and Technology. Department of Science and Technology, New Delhi.
• Member - Advisory committee: for Indian Drugs and Pharmaceuticals Limited, Gurgaon, Haryana.
• Member - Expert Group: Emerging Technologies. Department of Science and Technology, New Delhi.
• Member - Task Force on Database / Monographs on Medicinal Plants, Medical Plants Unit. Indian Council of Medical Research, New Delhi.

• Member. Management Committee of Vishram Sadans, AIIMS.

• Member, Institutional Ethics Committee (IEC), Indian Council of Medical Research, New Delhi.

• Member, Expert Committee to examine continued marketing of certain drug formulations reported to be prohibited or restricted in other countries, Director General of Health Services, Central Drugs Standard Control Organization, GOI.

• Member, Task Force on Biotechnology for Medicinal and Aromatic Plants, Department of Biotechnology, Ministry of Science & Technology, GOI.

• Member, Committee to develop a plan to create the facility of Nanotechnology in AIIMS and Collaboration with US Universities, AIIMS, New Delhi.

• Member, Medical Biotechnology and Nanotechnology Sectional Committee, AIIMS, New Delhi.

• Member – Research Committee, AIIMS, New Delhi.

• Expert member - Inspection team of Medical Council of India. Medical Council of India, New Delhi.

Dr. V.L. Kumar

• Dev Raj Bajaj Research Prize for the best paper on the development of newer technique in Pharmacology, by the Association of Physiologists and Pharmacologists of India at the annual conference, APPICON 2009, December 3-6, 2009.

Dr SK Maulik

• Elected member of American College of Clinical Pharmacology

• Fellow of Pulmonary Vascular Research Institute

Dr. Surender Singh

• Member, National Academy of Medical Sciences

• Associate Editor, Indian Journal of Physiology and Pharmacology)

• Member, Project Monitoring Committee, AYUSH, Govt. of India.

• Member, Pharmacopeia’s Committee (Unani), Deptt. of AYUSH, Ministry of Health & Family Welfare, Govt. of India.

• Member, Project Evaluation Committee, CCRUM, Deptt. of AYUSH, Ministry of Health & Family Welfare, Govt. of India.

• Member, Appraisal Committee, AICTE, Ministry of HRD, Govt. of India.

• Member, Inspection Committee, AICTE, Ministry of HRD, Govt. of India.

• Member, Inspection Committee, Pharmacy Council of India, Govt. of India.
• Member, Board of Research Studies, GGS Indraprastha University, Jamia Hamdard and Uttar Pradesh Technical University.
• Member, Task Force Committee, CCRH, New Delhi
• Member, Board of Research Studies, Uttar Pradesh Technical University (UPTU), Lucknow
• Member, Programme Expert Committee, IGNOU, New Delhi.
9.29 Physical Medicine and Rehabilitation

**Professor and Head**
U. Singh

**Additional Professor**
Sanjay Wadhwa

**Associate Professors**
S.L. Yadav
Gita Handa
(On deputation from 1.1.2010)

**EDUCATION**
Department is involved in teaching of undergraduate medical students during MBBS course through lectures, integrated seminars and practical demonstration / visit to department including prosthetic-orthotic workshop.

Department is providing MD (PMR) training to PG students, besides orientation training of MHA, MD (Community Medicine, Pharmacology, Medicine, Rheumatology, Paediatrics), MS (Orthopaedics), DM (Neurology and Pediatric Neurology) students, WHO Fellows and postgraduate Nursing students. The faculty has been involved in guiding Post-graduate students of Orthopaedics, Pharmacology, Community Medicine and Paediatrics, Computer Facility Project trainees and also co-guiding the dissertation for students from and outside the institute.

**CME**
The Faculty and Resident doctors of the department participated in a number of national and international CME Programmes, Conferences, Seminars, Symposia and Panel discussions

**Dr. U Singh**

1. Psychosocial impact of Leprosy. 3rd Annual Conference of Indraprastha Association of Rehabilitation Medicine, Dr RML Hospital, New Delhi, July 25-26, 2009.

2. Lecture and demonstration of Orthotics. During the 11th Post Graduate Instructional Course In Orthopaedics, organized by Department of Orthopaedic Surgery, MAMC and LNJP Hospitals, New Delhi, September 5, 2009.

3. Lecture and demonstration of Prosthetics. During the 11th Post Graduate Instructional Course In Orthopaedics, organized by Department of Orthopaedic Surgery, MAMC and LNJP Hospitals, New Delhi, September 5, 2009.

4. Trauma Rehabilitation. During the Trauma 2009 International Congress, CME cum Live Workshop, JPNTAC, AIIMS, New Delhi, November 14, 2009.

Dr Sanjay Wadhwa
Organized two 1-week long Training Workshops at AIIMS on ‘Comprehensive Rehabilitation for the patients suffering from Ankylosing Spondylitis’.

Lectures Delivered in Conferences

Dr U Singh
1. Dr Sushil Singh L, Dr U Singh, Dr SL Yadav, Dr Gita Handa. Outcome of a comprehensive pulmonary rehabilitation interventions on the exercise endurance and ADL in patients with COPD. IAPMR Mid Term CME 2009, Coimbatore, August 8-9, 2009.

Dr Sanjay Wadhwa
1. Delivered a talk on ‘Grading Disabilities in Leprosy’ during the Medical Students Training Workshop on Leprosy in August, 2009 at AIIMS
2. Delivered a talk on ‘Injury Prevention in Elderly’, during the WHO-Min. of Health, Govt. of India sponsored Workshop on TEACH-VIP at GMCH, Chandigarh on 08.10.2009.
3. Delivered a talk on ‘Comprehensive Rehab Care in Injury Prevention’, during the WHO-Min. of Health, Govt. of India sponsored Workshop on TEACH-VIP at GMCH, Chandigarh on 09.10.2009.
4. Delivered a talk on ‘Ethical Issues in Injury Prevention’, during the WHO-Min. of Health, Govt. of India sponsored Workshop on TEACH-VIP at GMCH, Chandigarh on 09.10.2009.

RESEARCH

Projects (Collaborative)

Dr. U. Singh
1. Development of ICF core set for hand conditions, in collaboration with ICF Research Branch of WHO CC F IC (DIMDI) Institute for Health and Rehabilitation Sciences, Ludwig-Maximilian University, Germany
2. 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, in collaboration with Dr R Goswami, Endocrinology and Metabolism, AIIMS. Applied for funding to ICMR.

Dr Sanjay Wadhwa
“Open Label Efficacy Trial of Valproate in Children with Spinal Muscular Atrophy”, funded by AIIMS.
PUBLICATIONS


Chapter in book


PATIENT CARE

The Department provides Outpatient, Inpatient and Outreach services to people with disabilities. The department has many diagnostic as well as therapeutic facilities which include comprehensive rehabilitation facilities, Balance lab, Computerised dynamometry, Electro physiology Lab, Minor O.T etc

<table>
<thead>
<tr>
<th>Cases</th>
<th>Patient Care Area</th>
<th>No. of Patients</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>New Cases</strong></td>
<td>OPD</td>
<td>14042</td>
</tr>
<tr>
<td></td>
<td>Ballabgarh</td>
<td>4352</td>
</tr>
<tr>
<td></td>
<td>Camps</td>
<td>105</td>
</tr>
<tr>
<td></td>
<td>Prosthetic &amp; Orthotic</td>
<td>3749</td>
</tr>
<tr>
<td><strong>Total New Cases</strong></td>
<td></td>
<td><strong>22248</strong></td>
</tr>
<tr>
<td><strong>Old Cases</strong></td>
<td>OPD</td>
<td>10369</td>
</tr>
<tr>
<td></td>
<td>OPD Visits PT Section</td>
<td>14636</td>
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<td></td>
<td>OPD Visits OT Section</td>
<td>22203</td>
</tr>
<tr>
<td>Service</td>
<td>Count</td>
<td></td>
</tr>
<tr>
<td>----------------------------------------------</td>
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</tr>
<tr>
<td>OPD Visits MSW</td>
<td>7113</td>
<td></td>
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<tr>
<td>OPD Visits Voc Counselor</td>
<td>3243</td>
<td></td>
</tr>
<tr>
<td>Disability Evaluation Clinic</td>
<td>92</td>
<td></td>
</tr>
<tr>
<td>Railway Concession Certificates</td>
<td>435</td>
<td></td>
</tr>
<tr>
<td>Prosthetic &amp; Orthotic</td>
<td>14227</td>
<td></td>
</tr>
<tr>
<td>Minor OT Procedures</td>
<td>2565</td>
<td></td>
</tr>
<tr>
<td><strong>Total Old Cases</strong></td>
<td><strong>74883</strong></td>
<td></td>
</tr>
</tbody>
</table>

**AWARDS AND HONOURS**

**Dr. Sanjay Wadhwa**


**Dr. U. Singh**

1. Invited to represent the country for the consensus meeting for the Development of ICF Core Sets for Hand Conditions, organized by the ICF Research Branch of WHO CC FIC (DIMDI), Ludwig Maximilians Universtat, Institute of Health and Rehabilitation Sciences, Munich, Germany, held at Switss Paraplegia Research, Nottwil, Switzerland, from May 7-9, 2009.
2. Member of the Sub-Committee on Locomotor, Leprosy Cured etc., of Rehabilitation Council of India, Ministry of Social Justice and Empowerment.
3. Chairman, Specialty Advisory Board in PMR, National Board of Examinations.
5. Member, Executive Council, National Institute for the Orthopaedically Handicapped, Kolkata.
6. Inspector, GGS IP University, Govt. of NCT, Delhi.
7. Member BIS, Rehabilitation Appliances and Equipment for Disabled Sectional Committee (MHD 10)
10. Editorial Board Member, Indian Journal of Physiotherapy and Occupations Therapy.
11. Member, Advisory Committee to monitor upgradation of facilities in the departments of PMR in medical colleges, DGHS, Ministry of Health and Family Welfare, Govt. of India.
12. Chairman, Expert Committee for upgradation of facilities in the Departments of Physical Medicine and Rehabilitation in Medical Colleges, DGHS, Ministry of Health and Family Welfare, Govt. of India.

13. Member, Research Committee, Guru Nanak Dev University, Amritsar.

14. Member Curriculum committee, PMR, for Medical Council of India.

15. Inspector, Medical Council of India.


17. Honorary member of the editorial board for the International Journal of BioSciences and Technology (IJBST) ISSN: 0974 -3987.

Dr. Sanjay Wadhwa

1. Editor, Annals of the National Academy of Medical Sciences (India)

2. Honorary Secretary, National Academy of Medical Sciences (India)

3. Vice-President, Indraprastha Association of Rehabilitation Medicine

4. Dean, Faculty of Physiotherapy, Baba Farid University of Health Sciences (BFUHS), Faridkot

5. Member, Academic Council, BFUHS

6. Member, Finance Committee, BFUHS

7. Member, Planning Board, BFUHS

8. Member, Committee for drafting MPT Syllabus and Ordinances, Baba Farid University of Health Sciences (BFUHS), Faridkot

9. Founder Member, Indian Career Development Association

10. Member, Publication Advisory Committee, NAMS (India)

11. Member, Selection Committee, Saket College of Physiotherapy, Chandimandir

12. Member, Academic Council, Saket College of Physiotherapy, Chandimandir

13. Member, Committee formed by DGHS for strengthening of PMR services in Medical College Hospitals under 11th Five-Year Plan. Visited RIMS, Ranchi

14. Member, Curriculum Committee formed by Medical Council of India for revision of Syllabus in PMR at PG Degree and Diploma levels

15. Member, Curriculum Committee formed by National Board of Examinations, India for revision of DNB Syllabus in PMR

16. Member, Committee formed under Special DGHS to review Technical Specifications for Equipments for setting up a Sports Injury Centre at Safdarjang Hospital, New Delhi

17. Member, Committee formed under DGHS for development of a National Health Portal in India
18. Member, Committee formed under Special DGHS to review Paramedical and Physiotherapy Council Bill
19. Nominated Venue Medical Officer Incharge, Thyagaraj Sports Complex for the Commonwealth Games 2010
20. Examiner, MD (PMR) Examination under the Rajasthan University of Health Sciences
21. Examiner, DNB (PMR) Examination under the National Board of Examinations (India)
22. Appointed twice as an Examiner, PhD (Viva-Voce) Examination, University of Delhi
23. Requested for reviewing articles submitted for publication in the National Medical Journal of India and the Indian Journal of Community Medicine
24. Guided Thesis of MS Ortho student at PGI, Chandigarh
25. Guiding Thesis of MD (PMR) students at AIIMS

SIGNIFICANT EVENTS

Mass Media
Delivered a Key-note Address on ‘Career Development related to Disability Sector’ at the National Symposium on Career Development in India held at University of Delhi on 13.01.2010.
Delivered a Key-note Address on ‘Research in Health Sector in India’ at the National Workshop on Research Methodology for PhD Scholars and Teachers held at University of Delhi on 04.02.2010.

Camps
Faculty and residents participated in different camps at Srikrishna Janambhumi Mandir at Mathura

Community Services
<table>
<thead>
<tr>
<th><strong>9.30 Physiology</strong></th>
</tr>
</thead>
</table>
| **Professor and Head**  
J. Sengupta |
| **Professors**  
R. Mathur  
K. K. Deepak  
(on leave)  
H. N. Mallick  
on leave and joined on 01.05.09 |
| **Professors**  
D. Ghosh  
S.C. Mahapatra |
| **Additional Professors**  
K.P. Kochhar |
| **Associate Professors**  
R. Sharma  
N. Mehta  
A. K. Jaryal  
R. K. Yadav  
S. Jain |
| **Assistant Professor**  
S. K Sood  
(on leave from 24.8.2009) |

**EDUCATION**

The department provided about 400 hours of teaching to the first year MBBS students and about 60 hours of teaching to students of B.Sc. Nursing and allied courses, besides conducting M.Sc. (Physiology) and MD (Physiology) courses and guiding PhD students.

**Short-term and long-term training**

The department provided short-term training for two month (19.01.2010 to 17.03.2010) to Associate Professor, Department of Physiology, Pramukhswami Medical College, Karamsad, Gujarat; a student, B Tech, Biotechnology, SVBPU & T, Modipuram, Meerut, UP from June to August 2009 and a student from Presidency College, Kolkata from June - August, 2009.

**CME**

**Lectures delivered**

**Dr H. N. Mallick**


Course Director, National Sleep Medicine Course 2009 organized at India Habitat Centre, New Delhi, 12-13 Dec. 2009 organized by Dr. M. Bhatia, Sir Gangaram Hospital, New Delhi.

“The waking brain”, National Sleep Medicine Course 2009, at India Habitat Centre, New Delhi; 12 Dec. 2009 organized by Dr. M. Bhatia, Sir Gangaram Hospital, New Delhi.
Dr N. Mehta

“Improving practical Assessment - Use of OSPE” in CME on Medical Education organized by the Medical Education Unit and the department of Anatomy at Maharishi Markandeshwar Institute of Medical Sciences & Research, Ambala; 31 October - 1 November, 2009.

Dr A. Jaryal

The Department of Physiology conducted the workshop on “Information Retrieval in Health Sciences” (hands on), Centre for Medical Education and Technology, AIIMS, 15-16th Feb., 2010.

National and International Conferences

International Conference

Dr J. Sengupta


Dr H.N. Mallick


Dr D. Ghosh


Dr. S.C. Mahapatra


National Conference

Dr R. Sharma

Organized a workshop on “Yoga in teaching and research” Goa Medical College, Goa; 20 Aug. 2009.

Organizing secretary, national workshop on “Assessment Methods for Learning Evaluation in Basic Medical Sciences” at AIIMS, New Delhi; 16-18 Sept., 2009.
Dr. N. Mehta

Organized Workshop “Research Methodology” in collaboration with the Medical Education Unit, Subharti Medical College, Swami Vivekanand Subharti University, Meerut (UP); 3 – 4 July, 2009.


Organizing Secretary of the workshop on “Ethics in Healthcare & Research”, Centre for Medical Education and Technology, AIIMS, 10 - 12 February, 2010.

Lectures delivered

International Conference

Dr. J. Sengupta


“Global genomic profiling and differential expression of genes in autologous eutopic and ectopic endometrium of women in stage III of endometriosis”, in the Pacific Symposium on Biocomputation (PSB-2010), Farimont Orchid, Big Island (Kona), Hawaii; 4 - 8 January, 2010.

Dr R. Mathur


Dr K.K. Deepak

“Lifestyle modifications in bronchial asthma: autonomic and immunologic considerations”, Osher Research Center, Harvard Medical School, Harvard University, Boston, USA; 12 September, 2009.

“Gender based psychometric analysis of medical students’ assessment” in 7th GCC Medical Colleges Conference organized by King Faisal University, Dammam, Kingdom of Saudi Arabia; 18 Nov 2009.

“Steps of constructing OSPE/OSCE” in workshop on Assessment Strategies –II, College of Medicine organized by King Faisal University, Dammam, Saudi Arabia; 6 May 2009.

“International Database for Enhanced Assessments and Learning (IDEAL) and its banking system” in workshop on Assessment Strategies-II, College of Medicine organized by King Faisal University, Dammam, Saudi Arabia; 7 May 2009.

Dr. H.N. Mallick

“Brain mechanism for the recognition of food intake and formation of satiety” in 19th International Congress of Nutrition Congress on “Glutamate function in human nutrition, taste and satiety”, Bangkok, Thailand; 8 October, 2009.

“Sleep and body temperature changes produced by destruction of preoptic warm sensitive neurons of rats” in “6th Asian Sleep Research Society Congress”, Osaka, Japan; 26 October, 2009.


Dr D. Ghosh


“Build heuristics to assure sufficient information and efficient negentropy, and integrate them locally and globally to ensure meaningful genesis of future strategies for women’s health”, in the Working Group on Stem Cells”, Women’s Health, National Institute of Health (NIH), University of California San Francisco, USA; 27-29 May, 2009.

“Small scale transcript expression networks in receptive stage endometrium” in the Pacific Symposium on Biocomputation (PSB-2010), Farimont Orchid, Big Island (Kona), Hawaii; 4-8 January, 2010.

Dr. K.P. Kochhar


Dr R.K. Yadav

“Peritoneal fluid leptin level in pelvic endometriosis” in the “36th International Congress of Physiological Sciences”, Kyoto, Japan; July 27- August 1, 2009.

National conference

Dr R. Mathur


“Study of chronic exposure to magnetic field on pain status of fibromyalgia patients” in 27th Annual Conference of Indian Academy of Neurosciences, “Recent Advances in Neurosciences’, National Institute of Medical Sciences, University, Jaipur; 18-20 December, 2009.


Dr R. Sharma

“Yoga in research”, Workshop on Yoga in Research and Teaching, Goa Medical College, Goa; 20 August 2009.
“Stress management”, Goa Medical College, Goa; 20 August 2009.


Dr. N. Mehta

“Medical Ethics - The core of Doctor-Patient relationship” in Seminar on Doctor-Patient relationship organized by Himalayan Institute of Medical Sciences, Dehradun and Association of British Scholars, 26 April, 2009.


“Grant proposal writing” in Workshop on ‘Research Methodology’, Subharti Medical College, Swami Vivekanand Subharti University, Meerut, 3-4 July, 2009.

“Ethics in Research & Orthodontic practice” in SAARC Orthodontic conference - Current perspectives in Clinical Care, Education & Research, Organized by Centre for Dental Education and Research, AIIMS under the aegis of Ministry of External Affairs, Govt. of India and SAARC Secretariat, Kathmandu, Nepal, at India Habitat Centre, New Delhi 3-4 August, 2009.


Dr. A. Jaryal


“Insights into cardiovascular physiology through signal processing” in national workshop on “Biomedical Engineering”, Department of Biomedical Engineering Deenbandhu Chhotu Ram University of Science and Technology, Murthal, Haryana; 12-13 November, 2009.


Dr A. Talwar


RESEARCH

Funded

Completed


5. Role of glutamate microinjection at the POA on sleep-wakefulness. PI: H.N. Mallick, Co-I: V. Mohan Kumar. Funded by the Ajinomoto, Incorporation Company, Japan from April 2006 to March 2009. Funds: Rs 6,00,000/-. 

6. Role of the warm receptors of the preoptic area in altering sleep. PI: H.N. Mallick. Funded by Defense Institute of Physiology and Allied Sciences from 28 August 2003 to 27 August 2009. Funds: Rs 5,00,000/-. 


8. Effect of exposure to magnetic field following implantation of ferromagnetic plates on the recovery from spinal cord injury in rats. PI: S. Jain, Co-I: R. Mathur. Funded by AIIMS Research Grant, from: May 2008 to March 2009. Funds: Rs.1,00,000/-. 

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2. Understanding endometriosis – proteomics strategy PI: Jayasree Sengupta, Co-I: D. Ghosh. Funded by Ministry of Science and Technology, Department of Science and Technology 31 March 2010 from 30 March 2013 to Funds: Rs.35,00,000/-. 

3. “Modulation of the activity of barosensitive and chemosensitive neurons in nucleus tractus solitarius by medial preoptic area stimulation in rats”. PI: A. Jaryal, Co-I: K.K Deepak, H. N. Mallick. Funded by Ministry of Science and Technology, Department of Science and Technology from 29 December 2009 to 28 December 2012. Funds: Rs.34,83,000/-. 


7. Motor and cognitive behaviour in 6-hydroxydopamine (6-OHDA) adult rat model of Parkinson’s disease following magnetic field exposure and implantation of ferromagnetic nanoparticles. PI: S. Jain. Co-I: R. Mathur, J. Behari. Funded by Department of Science and Technology from August 2009 to August 2012. Funds: Rs.29,00,000/-. 


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15. The role of lateral preoptic area in regulation of body temperature, thermal preference, sleep-wakefulness and homeostatic restoration of sleep during chronic cold exposure in rats. PI: H.N. Mallick, Co-I: V. Mohan Kumar. Funded by from 15 January 2007 to 14 January 2010. Funds:Rs.9,78,500/-. 

16. Cognition induced changes in brain oscillations. PI: R. Sharma, Co-I: A. Talwar, R Sagar, Institute research grant from April 2009 to March 2011. Funds:Rs.1,00,000/-. 


18. To study the effect of Ocimum sanctum (Tulsi) leaf extract on Event related potentials in healthy adults. PI: A. Talwar, Co-I: R Sharma, S.C. Mahapatra. Funded by Institute research grant from April 2009 to March 2011. Funds: Rs.1,00,000/-. 

**Departmental Research**

**Completed**

1. Role of ventromedial hypothalamus in biphasic responses to various pain stimuli in sucrose fed rat.
2. Effect of MF exposure on pain modulation status of rats.

**Ongoing**

1. Effect of chronic endogenous hypercortisolism on vascular endothelial function in cushing Syndrome patients.
2. Assessment of vascular function before and after renal transplantation.

**Collaborative Research**

**Completed**

1. Influence of prenatal auditory stimulation on the development of synaptic proteins, brain derived growth factor and spatial memory in chick hippocampus. (Department of Anatomy)
2. Calibration and interpretation of the physiological measurement in research development of new curriculum in the area of sound and vibration. (with Mechanical and industrial engineering, IIT, Roorkee)
3. Heart rate variability in chronic obstructive pulmonary disease, association with systemic inflammation and clinical implications. (With Vallabhbhai Patel Chest Institute, Delhi University)


5. Correlation between cardiovascular autonomic function and myocardial ischemia. (With Cardiology)

6. Cardiovascular autonomic functions after myocardial infarction: effect of short-term exercise training. (With Cardiology)

7. Electroencephalographic and sympathetic responses to visual and cues with emotional and rational contents. (With Atal Bihari Vajpayee Indian Institute of Information Technology and Management, Gwalior)

**Ongoing**

1. Purulation of human adult retinal pigment epithelial (GRPE) cells in the 6-OHD and lesioned rat model of Parkinson’s disease (PD). (With Neurology, AIIMS)

2. Influence of prenatal chronic noise exposure on brain stem auditory nuclei, hippocampus and spatial memory in chicks. (Department of Anatomy)

3. Evaluation of reflexology as an adjunctive therapy in children with west syndrome. (With Biophysics, AIIMS)

4. A study of heart rate variability, blood pressure variability, baroreflex sensitivity and arterial stiffness in chronic kidney disease stages 4 and 5 in Indian population. (With Nephrology, AIIMS)

5. Isofluriane and vecuronium dose requirement in diabetic patients with and without diabetic auto neuropathy undergoing elective surgery; as determined by entropy and neuromuscular transmission (NMT) monitory – Blinded study. (Department of Anaestesia)


7. Autonomic dysfunction in newly detected Type-II diabetes mellitus patients. (With Endocrinology)

8. Psychoneuroimmune effects of meditation: an evaluation by PET and biochemical markers. (With Nuclear Medicine, AIIMS)

9. The role of proteomic approach and biomarkers in the diagnosis of endometriosis. (With Obstetrics and Gynaecology, AIIMS)

10. Effect of priming on stroop task performance using event related functional magnetic resonance imaging, Department of Nuclear Magnetic resonance, AIIMS.

11. Study of eye movement abnormalities in patients of young onset Parkinson’s Disease, Neurology, AIIMS.
12. Assessment of Cognitive Functions, pre and post renal transplantation in patients of chronic kidney disease on maintenance hemodialysis, Nephrology, AIIMS.


**PUBLICATIONS**

**Journals**


**Abstract**


**PATIENT CARE**

Neurophysiology Research Laboratory offered objective assessment of pain and pain modulation status by a battery of electro physiological and biochemical tests for select, referred patients of chronic pain. 20 patients (headache, fibromyalgia) were assessed during the year. Relief in pain was provided by transcranial magneto therapy to 14 patients of fibromyalgia.

Endocrine assays for estradiol from serum samples of 13 subjects undergoing IVF-ET treatment in the Department of Obstetrics & Gynecology, AIIMS were performed using EIA technique at the Departmental Biochemistry laboratory. The data were returned to the referring department for subsequent analysis and management.

Autonomic function lab and vascular function lab provide diagnostic facility for referred patients. The laboratory provide routine test of autonomic reactivity along with autonomic tone quantification. A total number of 576 humans have been tested for autonomic function test this year, which included 22 patients.

Intra-operative monitoring of spinal cord: The department of physiology is providing support to the orthopedic department for monitoring of integrity of spinal cord during corrective surgeries for kyphoscoliosis. (20 patients)

Integral Health Clinic (IHC) is a centre of mind body medicine. IHC is an outpatient facility which is used not only for therapeutic gains but also as part of a developing health consciousness. A total of 95 (ninety five) subjects (including patients of chronic diseases, nursing students and healthy subjects) were enrolled and benefited at IHC during the year 2009 -2010. The IHC facility was regularly used by the dept of Lab Medicine, AIIMS and dept of Biomedical Engineering, AIIMS during the same year.

**The Department provides central facilities for:**

i) Autonomic Function and Vascular Function;

ii) Confocal Imaging;

iii) Molecular Biology;

iv) Pain modulation status;

v) Transcranial magneto therapy for chronic pain patients.

vi) Integral Health Clinic
AWARDS AND HONOURS AND SIGNIFICANT EVENTS

The department faculty has chaired several sessions in national and international conferences/symposium. The faculty also has been assisting various universities in India and abroad in various capacities as experts and examiners.

**Dr J. Sengupta**

Participated in the XXXVI IUPS Congress held during July 27-August 1, 2009 in Kyoto, Japan as a WHO, Geneva nominated participant.

Participated a collaborative meeting on Systems Biology at the School of Medical Science and Technology at IIT-Kharagpur during 8 to 10 February, 2010.

**Dr R. Mathur**

Appointed as an external expert to review of XI Five Year Plan Project in Defense Research Developmental Organization, Government of India.

Expert, Postgraduate Board of Studies in Physiology, Pt. B.D. Sharma University of Health Sciences, Rohtak.

Member, Board of Studies, Department of Physiology, Aligarh Muslim University, Aligarh.

**Dr K.K. Deepak**

Session on “curriculum planning” held during 7th Gulf Cooperation Council Medical Colleges Conference, organized by King Faisal University, Dammam, Saudi Arabia, 19 November 2009.

Serving as Item Bank Administrator for IDEAL Consortium ([www.hkwebmed.org](http://www.hkwebmed.org)) for University of Dammam (formerly King Faisal University).

Serving as member, Education Committee of International Union of Physiological Sciences (IUPS).

Serving as member, Board of Specialty of Physiology, Medical Council of India (MCI).

Appointed as editorial advisor, Al Ameen Journal of Medical Sciences.

**Dr H.N. Mallick**

Chaired round table discussion on Future of Sleep Medicine and Research in Asia at Okinawa, Japan, during October 2009.

Elected Chair, Scientific Committee of Asian Sleep Research Society for 2009-2012

General Secretary: Indian Society for Sleep research

Finance Secretary: Associations of Physiologists and Pharmacologists of India

**Dr D. Ghosh**

Participated in the XXXVI IUPS Congress held during July 27-August 1, 2009 in Kyoto, Japan as a WHO, Geneva nominated participant.

Participated in a collaborative meeting on Systems Biology at the School of Medical Science and Technology at IIT-Kharagpur during 8 to 10 February, 2010.
Dr S.C Mahapatra
Awarded International Society of Horticultural Sciences (ISHS) medal for the year 2009.
Appointed as the Chairman of Institutional Ethics Committee of Central Insecticide Laboratory (CIL), Ministry of Agriculture, Government of India.

Dr. N. Mehta
Invited to conduct Resource Session ‘MCQs in Assessment’ in First Advanced Workshop: ‘Newer Techniques in Medical Education Technology’, organized by Medical Education Unit, Army College of Medical Sciences, New Delhi; 13 February, 2010.
Invited by His Holiness The Dalai Lama for the Mind-life Science - 2009 conference organized at Dharamsala from 6th to 11th April 2009, under the aegis of the Mind Life Institute to expand the scope of the dialogue to include Indian scientists and practitioners from other Eastern traditions, in particular Yoga, organized by The Foundation for Universal Responsibility of His Holiness The Dalai Lama.
Invited to chair the session ‘Epidemiological study designs’ in Workshop on ‘Research Methodology’ at Subharti Medical College, Swami Vivekanand Subharti University, Meerut, 3-4 July 2009.
Invited to chair the session ‘Collaborative research in medicine’ in Workshop on ‘Research Methodology’ at Subharti Medical College, Swami Vivekanand Subharti University, Meerut, 3-4 July 2009.

Dr. R.K. Yadav

Dr A. Talwar
Finance Secretary, National workshop on “Assessment Methods for Learning Evaluation in Basic Medical Sciences”, organized by the Department of Physiology, AIIMS for hands on training of the faculty members from medical colleges all over India, AIIMS, New Delhi; 16-18 Sept., 2009

Dr. S.K. Sood
Associate Editor, Indian J Physiol Pharmacol.

VISITING SCIENTISTS
Professor Linda C Guidice from the Department of Obstetrics, Gynaecology and Reproductive Sciences, Centre for Reproductive Sciences, University of California, USA for INSO-US Collaborative Research Project on Endometriosis during 3-7 November 2009.

ADMINISTRATION
Dr J. Sengupta
Administration of the department of Physiology including the Confocal Imaging Laboratory.
Dr R. Mathur  
Member, B.B. Dixit Library Committee, AIIMS, New Delhi.  
Member, Sub-Committee, Research proposal, AIIMS, New Delhi.

Dr D. Ghosh  
Executing functions of Officer-in-Charge for Departmental Central Facilities of Biochemistry Lab and Molecular Biology Lab, and Departmental Stores. Executive Editor for Indian Journal of Physiology and Pharmacology.

Dr. R.K. Yadav  
Managing as Secretary, AIIMS Faculty club, AIIMS.
9.31 Psychiatry

Professor and Head
Rajat Ray

Professors
Manju Mehta
S.K. Khandelwal
R.K. Chadda
Pratap Sharan

Associate Professor
Rajesh Sagar

Assistant Professors
Nand Kumar
Mamta Sood

EDUCATION:

Under Graduate

Teaching
24 hrs: 3rd Semester
14 hrs: 6th Semester
6 hrs: 8th Semester

Clinical Posting
20 days: 4-5th Semester
40 days 6-8th Semester

Undergraduate teaching and assessment in CRHSP Ballabgarh

BSC Nursing: 38 hrs in 2 Semesters

Ph.D & Post graduate teaching

- Journal discussion once every week
- Seminar once every week
- Case conference once every week
- Faculty/staff presentation once every week
- CCR & CGR once every semester
- Psychotherapy supervision once every week
- Supervision of Consultation-Liaison training for junior residents
**Continuing Medical Education:**

**Lectures delivered**

**Dr. Manju Mehta**


‘Decision Making and Overcoming Personal Bias,’ National Judicial Academy, Bhopal, 10 August 2009.

‘Application of Child Psychology in the Clinical Setting,’ Lady Shriram College, New Delhi, 16 September 2009

‘Enhancing Coping Skills,’ Jesus & Mary College, New Delhi, 14 December 2009

**Dr. S.K. Khandelwal**

‘Management of Comorbid Depression and Ischemic Heart Disease,’ Annual CME of the Indian Psychiatric Society (North Zone), Rohtak; 26 April 2009

‘Why Invest in Mental Health,’ Golden Jubilee CME of the PBM Medical College, Bikaner, 19 August 2009.

**Dr. R.K. Chadda**

Resource Person for ‘Prognosis in Patients with Comorbid Depression and Ischemic Heart Disease’

Mid-Term CME of the Indian Psychiatric Society (North Zone), Rohtak; 26 April 2009.


**Dr. Pratap Sharan**

‘Initiatives Undertaken to Promote Rational Psychotropic Use in All India Institute of Medical Sciences,’


**Dr. Rajesh Sagar**

‘Management of Suicide’ CME for Nurses, AIIMS, New Delhi, November 2009.

**National and International Conferences**

National Conferences\Workshop

Biennial Conference of the Indian Association for Child & Adolescent Mental Health, 23-25 November 2009 (Organizing Chairperson: Manju Mehta, Organizing Secretary: Rajesh Sagar)
Dr. Manju Mehta


‘Managing Aggression on Roads,’ Annual Conference of Indian Association of Clinical Psychology, Bangalore, 1 - 3 February 2010.

Dr. S.K. Khandelwal

‘Improving General Health in Community by Mental Health Care,’ BP Koirala Institute for Health Sciences, Dharan, Nepal, 7-8 September 2009.

‘Psychosocial Aspects of Cancer - Breaking Bad News,’ Annual Seminar of Cancer Sahyog, Indian Cancer Society, Delhi, 4 October 2009.


Dr. R.K. Chadda

‘Impact of Newer Antidepressants on Outcome of Mental Disorders,’ Annual National Conference of the Indian Psychiatric Society (North Zone), Jodhpur, 31 October-1 November 2009.


Dr. Pratap Sharan


Dr. Rajesh Sagar

‘Depression in Stroke - Psychiatrist’s Perspective’ CME on Depression and Medical Co-morbidity, Jaipur, June 2009.


‘Thyroid and Psychiatric Disorders,’ The CME of the 62nd Annual National Conference of Indian Psychiatric Society, Jaipur, January.


‘Depression in Clinical Practice,’ Neurosciences CME of the Brain & Spine Foundation, India, New Delhi, February 2010.
Dr. Mamta Sood


MD and Ph. D Students

Chugh G, Dhal A, Sagar R, Mehta M. Neglect and Abuse: Perpetrators to Dissociation,’ X Biennial Conference of Indian Association for Child & Adolescent Mental Health, New Delhi, November 2009.


Mittal AK, Shrigopal G, Sagar R, Mehta M. Emotional and Behavioural Difficulties among Children in the Attention Deficit Hyperactivity Disorder (ADHD),’ X Biennial Conference of Indian Association for Child & Adolescent Mental Health, New Delhi, November 2009.

Mukhopadhyay AK, Pallavi P, Mehta M, Sagar R. ‘Study of Serum Cytokine, and Plasma ACTH and Cortisol Levels in Adolescent Depression Patients,’ X Biennial Conference of Indian Association for Child & Adolescent Mental Health, New Delhi, November 2009.

Shrigopal G, Mittal AK, Sagar R, Mehta M. ‘Assessment of Parents Satisfaction in ADHD Patient with or without Conducts Symptoms,’ X Biennial Conference of Indian Association for Child & Adolescent Mental Health, New Delhi, November 2009.


Sarcar S, Mehta M, Sagar R. Behaviour Therapy for Children with Mental Health Problems by a First Year Resident,’ X Biennial Conference of Indian Association for Child & Adolescent Mental Health, New Delhi, November 2009.

International Conferences

Dr. Manju Mehta

‘Childhood Obesity,’ Lecture delivered at McGill University, Montreal; 11-19 November, 2009.
Dr. S. K. Khandelwal

‘Psychobiology of Mood and Behaviour in Extreme Climatic Conditions,’ 12th International Conference on Neurosciences and Biological Psychiatry, St. Petersburg, Russia; 16-20 May 2009.

Dr. Pratap Sharan


Dr. Rajesh Sagar

Resource Person in SCAN Advisory Meeting and SCAN Workshop at the International Congress of the International Federation of Psychiatric Epidemiology, Vienna, Austria; April 2009.

‘Psychiatry Morbidity in Bomb Blast Victims: Results from A Developing Country,’ 16th World Congress on Disaster and Emergency Medicine, Victoria BC, Canada; May 2009.

MD and Ph. D Students


RESEARCH

Funded Projects

Ongoing

Development of pharmacogenomics single nucleotide protein (SNP) database for critical candidate genes involved in drug response in schizophrenia – Multicentric study. RK Chadda, Mamta Sood. Funded by Department of Biotechnology (DBT) (2008-2010). Funds: Rs. 2.5 lakhs.

Effects of the Breathing Technique ‘Sudarshan Kriya Yoga (SKY)’ with Standard Treatment on Depressive Disorder Patients in comparison to Standard Treatments Alone,’ Nand Kumar, Rajesh Sagar. Funded by Indian Council of Medical Research (ICMR) (2009-2011). Funds: Rs. 11 lakhs.

**Completed**


**Collaborative Research**

**Ongoing**

To Study Pre-Attentive and Attentive Processing of Phonemes and Tones in Dyslexic Children using Pre-Pulse Inhibition Paradigm, Mismatch Negativity and Long Latency Event Related Evoked Potentials. Funded by Department of Science & Technology (DST) (with Department of Physiology).

**Completed**

Effect of Yoga and Naturopathy on Serum Interleukin Levels in Adolescents with Depression. Rajesh Sagar. Funded By AYUSH, Ministry Of Health & Family Welfare (with Department of Laboratory Medicine).

Association between Catechol-O-Methyltransferase (COMT) Polymorphism and Obsessive-Compulsive Disorder (OCD) in the Indian Population (with Department of Biochemistry)

Long Term Cognitive Outcome in Children Cured for Acute Lymphoblastic Leukemia (with Department of Radiotherapy).

**PUBLICATIONS**

**Journals**


Maheshwari SK, Gupta S, Sharan P. Medication non-compliance and substance abuse in schizophrenia. *Nursing Journal of India* 2009; **100**: 201-3.
Sharan P. Overview of Indian Research on personality disorders. *Indian Journal of Psychiatry* 2010; **52** (Special Supplement of Annotations): S34-8.


**Books/Chapter in Books/Monographs/ Proceedings**


PATIENT CARE

<table>
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**Patient Care Initiative**

The department has taken a new initiative, “Structuring and expansion of consultation-liaison (C-L) psychiatry services”:

- Introduction of supervised C-L training for junior residents and establishment of referral structure.
- Introduction of psychoeducation groups for patients and relatives of medical oncology inpatients.
- Development of outpatient liaison interaction with endocrinology department.

**AWARDS AND HONOURS AND SIGNIFICANT EVENTS**

**Dr. Manju Mehta** is the President Elect of the Indian Association of Clinical Psychology. She was also elected as a member of various bodies: Academic Council of Hyderabad University, Hyderabad; Academic Council of Central University of Bihar, Patna; and Board of Visitors, Institute of Human Behaviour and Allied Sciences, New Delhi. She imparted short-term training in Child Psychology.
and Psychiatry to seven students of Masters in Psychology of Delhi University and one faculty from Department of Pediatrics, Safdarjung Hospital. She was the Chairperson of the Organizing Committee for the X Biennial Conference of the Indian Association for Child & Adolescent Mental Health held at AIIMS, New Delhi (23–25 November 2009) and she conducted a Workshop on ‘Stress Management’ for senior judges at the National Judicial Academy, Bhopal from 4–6 December 2009.

**Dr. S.K. Khandelwal** is the chairperson of the Awards Committee and Scientific Committee of the, Indian Association for Social Psychiatry. He chaired symposia at the Annual Conference of Indian Psychiatric Society. He is the chairperson of the National Board for Richmond Fellowship Society for Mental Health. He is a member of the panel of National Board of Examinations for inspecting institutes running DNB courses. He organized a symposium on “Risk Assessment in Mental Health” at the Annual Conference of the Indian Psychiatric Society, Jaipur (17-20 January 2010).

**Dr. R. K. Chadda** is the Secretary General of the Indian Association for Social Psychiatry. He is a member of the Ethics Committee, Institute of Human Behaviour & Allied Sciences, Delhi. He is the chairperson of the Awards Committee of the Indian Psychiatric Society-North Zone and Co-Chairperson of the Indian Psychiatric Society Task Force on Mental Health Legislation. He is a peer reviewer for Schizophrenia Research and Primary Psychiatry. He organized a workshop on Forensic Evaluations in Psychiatry in the 62nd Annual National Conference of the Indian Psychiatric Society, Jaipur (17-20 January 2010).

**Dr. Pratap Sharan** is an Advisory Board Member for the WHO International Advisory Group for the Revision of ICD-10 Mental and Behavioural Disorders. He is the Vice President & President Elect for Indian Association for Child and Adolescent Mental Health. He is the Editor, Journal of Indian Association for Child and Adolescent Mental Health (2005-2009). He is Working Committee Member of the National Medical Journal of India and an Editorial Board member of Journal of Mental Health and Human Behavior. He is a peer reviewer for various national and international journals: Comprehensive Psychiatry, Journal of Affective Disorders, International Psychogeriatrics, International Journal of Social Psychiatry, National Medical Journal of India and Journal of Mental Health and Human Behavior. He is a Co-recipient of the **GC Boral Award – I** for best paper presentation at the Silver Jubilee Conference of the Indian Association for Social Psychiatry held at Lucknow in November, 2009 (Primary Author: Dr. Mamta Sood). He participated in the World Health Organization’s Workshop on Essential package for Mental, Neurological and Substance Use Disorders. Bellagio, Italy, 2009. He served as a resource person for the WHO’s Essential Package for Mental, Neurological and Substance Use Disorders Scoping Document on Child and Adolescent Mental Health (2008-2009) as well as on University Grants Commission team to inspect the National Institute of Mental Health and Neurosciences (NIMHANS) for maintenance of Deemed University status (2009).

**Dr. Rajesh Sagar** is an Honorary Consultant to Public Health Foundation of India (PHFI). He was awarded the Fellowship of International Medical Science Academy. He was the India coordinator of the World Mental Health Survey Consortium Annual Meeting at Saratoga Springs, USA (July 2009). He is the member of 1st Working Group Meeting (April 2010) of NACO to study the psycho-social burden on PLHA attending ICTCS and ART centres in India; and also a member of the Technical Advisory Panel for developing a manual titled ‘An Introduction to Mental Health – Facilitator’s Manual for Training Community Health Workers in India’ under the auspicious of Australia India Council. He conducted the ‘National Training Program on Mental Health of Young People: on Youth
Friendly Healthy Services in India’ that was organized by MAMTA in May 2009. He chaired a session on ‘Public Health Importance of Aggression and Violence in Schools’ in the Mid Term CME of the Indian Association for Child and Adolescent Mental Health New Delhi in May 2009. He was appointed as Appraiser for Psychiatry and faculty facilitator of CME for the Diplomate of National Board (DNB), National Board of Examination, New Delhi. He chaired a session on Child and Adolescent Psychiatry in ‘Summit Psychiatry,’ South Asian Forum International, Dubai; June 2009. He conducted and organized the Annual Meeting of Central Mental Health Authority (CMHA), Government of India, as secretary, CMHA in Aug 2009. Was invited as an expert to brief Hon’ble Minister of Health & Family Welfare on Parliament Question on mental health (November 2009), and the Hon’ble Minister of Social Justice and Empowerment on amendments to National Trust Act and Person with Disability Act (January 2010). He is a peer reviewer for Indian Journal of Psychiatry, National Medical Journal of India and Journal of the Canadian Academy of Child & Adolescent Psychiatry. He is a reviewer for research projects for Indian Council of Medical Research, Department of Biotechnology, and Central Council of Homeopathy Research (CCRH). He is an advisor on mental health for Government of Uttarakhand for development of mental health services in the state and acted as a coordinator for training in mental health for 6 medical officers of Government of Uttarakhand (October 2009). He served as a resource person for the WHO SCAN Training and Research centres in the World. He acted as an expert to the EFC meeting for National Mental Health Programme (NMHP) chaired by Secretary (Expenditure), Ministry of Finance (February 2010) and to the National Consultation on NMHP under the chairpersonship of Secretary, Health & Family Welfare (January 2010). He participated in the national consultation on Amendments to Disability Act 1995 organized by National Centre for Promotion of Employment for Disabled People (October 2009). He participated in the National Consultation on harmonization of laws pertaining to mental health sector with UNCRPD organized by the Human Right Laws Network (HRLN), National Association of Deaf, National Alliance on Access to Justice for Persons living with Mental Illness (NAAJMI) (December 2009). He was the Organizing Secretary for the X Biennial Conference of Indian Association for Child & Adolescent Mental Health, AIIMS, New Delhi (November 2009) and chaired sessions on ‘Liaison Child Psychiatry’ and ‘Public Health Issues in Child & Adolescent Mental Health’ at the same conference. He is a member of Executive Council of Indian Psychiatry Society –North Zone. He is the co-chairperson of National Task Force for Advocacy of Indian Psychiatry Society.

**Dr. Mamta Sood** was awarded the Membership of National Academy of Medical (MNAMS) at the 49th Annual Conference of National Academy of Medical Sciences, Lucknow (October-November 2009). She was awarded GC Boral I award at the Silver Jubilee Conference of Indian Association for Social Psychiatry, Lucknow (14-16 November 2009). She also chaired a scientific session during the same conference. She was a resource person at the X Biennial Conference of Indian Association for Child & Adolescent Mental Health (23-25 November 2009).

**PhD and MD Students**

**Dr. Gitanjali Chugh** received the Niloufer Award of the Indian Association for Child and Adolescent Mental Health at the X Biennial Conference held at AIIMS, New Delhi, 2009.

**Dr. AK Mittal**, et al received the Best Poster Presentation award at the X Biennial Conference of the Indian Association for Child and Adolescent Mental Health held at AIIMS, New Delhi, 2009.
9.32 Radiodiagnosis

Professor and Head
Arun Kumar Gupta

Professor
Deep Narayan Srivastava

Additional Professor
Raju Sharma

Associate Professors
Sanjay Thulka (BRAIRCH)
Sanjay Sharma (RPC)
Ashu Seith Bhalla

Assistant Professors
Smriti Hari
(Scientist-IV)
Shashi B. Paul

Educational Achievements

Undergraduate and Postgraduate

- MD Radiology: There are a total of 21 junior residents out of whom 3 are sponsored candidates.
- BSc (Hons) Medical Technology in Radiography (MTR): A batch of 5 students was admitted to the course in 2009-2010.
- One short term trainee was present in the department in the year 2009-10.

Continuing Medical Education

Lectures delivered

Dr. Deep Srivastava


Dr. Raju Sharma

- ‘Adrenal Imaging,’ AIIMS-MAMC-PGI Imaging Course on Genitourinary Radiology, Chandigarh, April 2009.
• ‘Mediastinal Imaging,’ AIIMS-MAMC-PGI Imaging Course on Chest & Cardiac Radiology, New Delhi, 6 November 2009.


• ‘Abdominal Trauma,’ CME on Emergency Radiology, Teleradiology Series & Radgurukul, Bangalore, 31 October 2009.


• ‘Cross-sectional Imaging of Liver Space Occupying Lesions (SOLs),’ 50th Annual Conference of Indian Society of Gastroenterology, Kolkata, 11 December 2009.

• ‘MRI of Liver SOLs,’ MRI Update, Mumbai, 20 December 2009.

• ‘Role of MRI in Fetal Medicine,’ Fetal Medicine Society Meeting, New Delhi; 30 January 2010.


• ‘Film Reading Session Annual,’ Conference of Delhi Branch of Indian Radiology & Imaging, New Delhi, 27-28 February 2010.

Dr. Sanjay Thulkar

• ‘Imaging in Gynecological Malignancies,’ AIIMS-MAMC-PGI Imaging Course on Genitourinary Radiology, Chandigarh, 3-4 April 2009.

• ‘Radiology and PET Scan in Cancer Ovary,’ Seminar on Cancer Ovary, SRM Medical College, Chennai, 9 August 2009.

• ‘Imaging in Lung and Oesophageal Cancers,’ 7th ICRO-AROI teaching course organized by Indian College of Radiation Oncology (ICRO) and Association of Radiation Oncologists of India (AROI), New Delhi, 12-13 September 2009.


• ‘Advances in Interventional Pain Management,’ 12th Annual Conference of Indian Society of Vascular & Interventional Radiologists (ISVIR), New Delhi, 7-10 October 2009.


• ‘Lung Malignancy,’ AIIMS-MAMC-PGI Imaging Course Series on Chest and Cardiovascular Radiology, New Delhi, 6-7 November 2009.


Dr. Sanjay Sharma

• Pulmonary Manifestations in an Immune Compromised Host: Hematological Infections and Bone Marrow Transplant,’ AIIMS-MAMC-PGI Course on Chest and Cardiovascular Imaging, Delhi, 6-7 November 2009.

**Dr. Ashu Seith Bhalla**

• ‘Urinary Tract Tuberculosis,’ AIIMS-MAMC-PGI Imaging Course on Genitourinary Imaging, Chandigarh, 2-3 April 2009.


• ‘Bronchial Artery Embolization,’ AIIMS-MAMC-PGI Imaging Course Series on Chest and Cardiovascular Imaging, New Delhi, 7-8 November 2009.

• ‘Film Reading Session,’ AIIMS-MAMC-PGI Imaging Course on Chest and Cardiovascular Imaging, New Delhi; 6-7 November 2009.

• Interstitial Lung Disease,’ Delhi Imaging Update – 2010, Annual Congress of Indian Radiological and Imaging Association (IRIA) - Delhi State, New Delhi, 27-28 February 2009.

**Dr. Smriti Hari**

• ‘Retroperitoneum,’ AIIMS-MAMC-PGI Imaging Course on Genitourinary Radiology, Chandigarh, 3-4 April 2009.

• ‘Interstitial Lung Disease,’ AIIMS-MAMC-PGI Imaging Course on Chest and Cardiovascular Radiology, New Delhi, 6-7 November 2009.

**Dr. Shivanand Gamanagatti**

• ‘Vascular Interventions of Genitourinary Tract,’ AIIMS-MAMC-PGI Imaging Course on Genitourinary Imaging, Chandigarh, 2-3 April 2009.


• ‘MDCT Techniques and Anatomy of Thorax,’ AIIMS-MAMC-PGI Imaging Course on Chest and Cardiovascular Imaging, New Delhi, 6-7 November 2009.

**Dr. Atin Kumar**

• ‘Imaging of Genitourinary Trauma,’ AIIMS-MAMC-PGI Imaging Course on Genitourinary Radiology, Chandigarh, 3-4 April 2009.

• ‘Imaging of Chest Trauma,’ AIIMS-MAMC-PGI Course on Chest & Cardiac Radiology, New Delhi, 6-7 November 2009.


**Dr. Shashi B. Paul**

• ‘Hepatocellular Carcinoma in India’, Kinki University School of Medicine, Osaka, Japan; July 2009.
• ‘Efficacy of Transarterial Chemoembolization for Unresectable Hepatocellular Carcinoma: Ongoing Work at a Tertiary Care Centre in India,’ Kinki University School of Medicine, Osaka, Japan; July 2009.

• ‘Radiofrequency Ablation versus Percutaneous Acetic Acid Therapy for the Treatment of Small Hepatocellular Carcinoma,’ Annual Meeting of Advanced Centre for Liver Disease of Indian Council of Medical Research, New Delhi, December 2009

• ‘Oral Chemotherapy and Supportive Therapy in the Treatment of Unresectable Patients of Hepatocellular Carcinoma,’ Annual Meeting of Advanced Centre for Liver Disease of Indian Council of Medical Research, New Delhi, December 2009

• ‘Transarterial Chemoembolization (TACE) and TACE combined with Oral Chemotherapy in the Treatment of Unresectable Hepatocellular Carcinoma,’ Annual Meeting of Advanced Centre for Liver Disease of Indian Council of Medical Research, New Delhi, December 2009.

National and International Conferences

11th Annual Conference of the Indian Society of Vascular and Interventional Radiology (ISVIR) was jointly organized by Departments of Radiodiagnosis, Cardiac Radiology, and Neuroradiology at AIIMS, New Delhi, 7-10 October 2009.

Lectures delivered

National Conferences

Dr. Deep Srivastava

• ‘Imaging and Interventional Treatment in Hepatic Cell Carcinoma: Indian Experience,’ New Management Paradigms in Liver Diseases: Institute of Liver and Biliary Sciences - National Institute of Health (USA) Symposium, New Delhi, 6-7 March 2010.

• ‘Role of Interventional Radiology in Healthcare Management in India,’ Indian Institute of Management (IIM), Indore, 4 March 2010.

Dr. Sanjay Sharma


Dr. Ashu Seith Bhalla


Dr. Shivanand Gamanagatti

• Embolisation of giant Superior Mesenteric Artery (SMA) aneurysm an unusual case,’ 11th Annual Conference of ISVIR, New Delhi, 7-10 October 2009.
International Conferences

Dr. Deep Srivastava


Dr. Shivanand Gamanagatti


Dr. Atin Kumar


RESEARCH

Funded Research

Ongoing

- Diagnostic Accuracy of Whole Body Diffusion Weighted MRI in Oncologic Imaging: Comparison with Whole Body STIR MRI and FDG-PET-CT. Raju Sharma. Funded by AIIMS from 2009-2011. Funds: Rs. 1 lakh.

Collaborative

Completed

- Effects of Arzoxifene on Vertebral Fracture Incidence and on Invasive Breast Cancer Incidence in Postmenopausal Women with Osteoporosis or with Low Bone Density (with Department of Endocrinology). AC Ammini, Ashu Seith Bhalla. Funded by Eli Lilly and Company from 2005-2009. Funds: Rs. 50 lakhs.

Ongoing

- A Phase III Randomized, Placebo Controlled Clinical Trial to Assess the Safety and Efficacy of Odanacatib (MK-0822-018) to Reduce the Risk of Fracture in Osteoporotic Postmenopausal Women Treated with Vitamin D and Calcium (with Department of Endocrinology).
• Evaluation of Newer Markers of Atherosclerosis in Patients with Type-2 Diabetes (with Department of Medicine). Naval K Vikram, Atin Kumar. Funded from 2009-1012.

**Departmental Research**

**Completed**

• Role of PET-CT colonography and colonoscopy in the evaluation of ulcerative colitis.
• Differentiating recurrent gliomas from post radiotherapy changes: utility of advanced MRI techniques and their correlation with 99m tc-glucoheptonic acid (GHA) brain SPECT.
• Role of MDCT in staging of laryngeal carcinoma with limited MRI correlation
• Comparison of MDCT, endoscopic ultrasound, MRI & PET-CT in evaluation of pancreatic malignancy.
• MRI in evaluation of chronic wrist pain.
• Percutaneous management of patients with malignant biliary obstruction.
• Diffusion weighted MRI: A new tool for evaluation of focal liver lesions.
• The role of Multidetector Computed Tomographic Dacryocystography in patients with epiphora.
• Utility of cardiac MRI in right ventricular function evaluation in health and disease.

**Ongoing**

• Comparison of CT & MRI including diffusion weighted MRI in renal mass lesions.
• Cysts, tumors and tumor like lesions of the jaw: evaluation by panoramic radiographs and MDCT with limited MRI correlation.
• A prospective study on radiological evaluation in patients with vascular malformations of extremities.
• Role of computed tomography and splenic artery embolisation in patients with blunt splenic injury.
• MRI evaluation of internal derangement of the knee.
• Evaluation of transrectal ultrasound, elastography and contrast enhanced sonography for detection of prostate cancer.
• Role of MRI in characterisation of sonographically indeterminate adenexal masses.
• Radiofrequency ablation of lower limb symptomatic varicosities.
• Role of computed tomography in staging and management of carcinoma cervix.
• Ultrasound and CT evaluation of the neck for assessment of lymph node metastases in clinically N0 patients with squamous cell carcinomas of the upper aerodigestive tract.
• Percutaneous radiofrequency ablation of painful benign bone tumors and metastasis.
• Comparison of accuracy of image guided and palpation guided core needle biopsy in palpable breast masses.
Clinical utility of breast ultrasound as an adjunct to mammography in diagnostic breast imaging.

**Collaborative Research**

**Completed**

- To study the clinical and neuro developmental profile in children with tuberous sclerosis (with Department of Pediatrics).
- Incremental role of F-18 FDG PET-CT in evaluating response to primary treatment in advanced epithelial ovarian cancer patients (with Department of Nuclear Medicine).
- Hodgkin’s lymphoma: analysis of treatment outcomes and prognostic factors (with Department of Medical Oncology).
- Oral voriconazole vs intravenous low dose amphotericin B for primary antifungal prophylaxis in pediatric acute leukemia induction: A prospective, randomized, clinical trial (with Department of Medical Oncology).
- Prothrombotic factors in patients with newly diagnosed multiple myeloma: an observational study (with Department of Medical Oncology).
- Equivalence randomized controlled trial of bioresorbable plates and titanium plates in the osteosynthesis of mandibular fracture - A pilot study (with Department of Dental Surgery).
- Utility of PET scan in assessing extent of disease and response to treatment in sarcoidosis (with Department of Medicine).
- Correlation between splenic volume and splenic vein diameter, portal pressure before and after the shunt, grade of varices in extrahepatic portal vein obstruction (with Department of Gastrointestinal Surgery).
- Internal jugular vein ACTH estimation for diagnosis of ACTH dependent Cushing’s syndrome: ultrasound guided direct jugular vein sample collection (with Department of Endocrinology).
- A clinical and cephalometric study of temporary anchorage device (TAD) supported anchorage in the management of maximum discrepancy extraction cases (with Department of Dental Surgery).
- Comparison of minimally invasive techniques and conservative treatment in vertebral collapse (with Department of Orthopedics).
- Clinico-radiological evaluation of total knee arthroplasty short term retrospective-prospective study (Orthopedics).
- Relationship of fetal Doppler velocimetry to biophysical profile and fetal outcome in normal pregnancies and in pregnancies with intrauterine growth retardation (with Department of Obstetrics and Gynaecology).
- Noninvasive screening for early preclinical atherosclerosis in children on phenytoin carbamazepine monotherapy for more than 18 months (with Department of Pediatrics).
- Feasibility of virtopsy: minimally invasive autopsy using ultrasonography and percutaneous organ biopsies as an alternative to open body autopsy in fetal abnormality (with Department of Obstetrics and Gynaecology).
• Role of centchroman in regression of mastalgia and regression of fibroadenoma and its correlation to histopathology and estrogen and progesterone receptors (with Department of Surgery).

• Effect of vitamin D3 supplementation on bone disorders in children with chronic kidney disease (with Department of Pediatrics).

• Prevalence of dyslipidemia in children with chronic kidney disease and measurement of carotid intima-media thickness and flow mediated vasodilatation (with Department of Pediatrics).

• Endothelial dysfunction in systemic sclerosis (with Department of Medicine).

• Correlation between splenic volume with splenic vein diameter, portal pressure before and after the shunt, grade of varices in extrahepatic portal vein obstruction (with Department of Paediatric Surgery).

• Molecular genetic studies in patients with leukodystrophy (with Department of Paediatrics).

• Long term follow up of patients undergoing esophageal replacement by reversed gastric tube (with Department of Paediatric Surgery).

**Ongoing**

• Role of PET-CT in differentiating benign and malignant pancreatic mass lesions in patients with or without chronic pancreatitis (with Department of Nuclear Medicine).

• Use of CT as an adjunct to pre-operative planning and monitoring for osteo-odontokeratoprosthesis in patients with end-stage Steven Johnson syndrome (with Department of Ophthalmology).

• Evaluation of changes in the dimensions of masseter muscle during various stages of twin block appliance therapy using MRI (with Department of Dental Surgery).

• Study of non alcoholic fatty liver disease and atherosclerosis in Asian Indians (with Department of Medicine).

• Evaluation of testicular blood flow and volume in patients undergoing laparoscopic inguinal hernia repair (with Department of Surgery).

• Evaluation of pancreatic tumors (with department of surgery).

• Abdominal fat estimation in patients of obstructive sleep apnoea (with Department of Medicine).

• Effect of continuous positive airway pressure on cardiovascular biomarkers in patients with obstructive sleep apnoea (with Department of Medicine).

• To study the effect of cricoids split with or without rib grafting in cases of subglottic stenosis for laryngotracheal stenosis (with Department of Otorhinolaryngology).

• Oxidative stress, carotid intimal media thickness & endothelial dysfunction in renal transplant recipients and effect of therapy with N- acetyl cysteine (with Department of Nephrology).

• Effect of N-Acetylcysteine on Oxidative stress, endothelial dysfunction & carotid intimal media thickness in chronic peritoneal dialysis patients – An open labeled randomized trial (with Department of Nephrology).
• Study of visual function and fundus findings in orbital tumours and their alterations after surgery (with Department of Ophthalmology).
• Role of non alcoholic fatty liver disease in adult population in a rural community living in Haryana (with Department of Preventive Medicine).
• Role of clinical, radiological and genetic evaluation in patients with Blepharophimosis Ptosis Epicanthus Inversus Syndrome (with Department of Ophthalmology).
• Evaluation of adjuvant chemotherapy in stage 2 and neoadjuvant chemotherapy in stage 3 retinoblastoma as per the international retinoblastoma staging system (with Department of Medical Oncology).
• Imaging guided lung biopsies in immune compromised patients with possible fungal pneumonia and its clinical implications (with Department of Hematology).
• Study of duration of anticoagulation in patients with deep venous thrombosis based on compression ultrasound (with Department of Hematology).
• Randomized control study of laparoscopic sleeve gastrectomy with and without staple line reinforcement in morbidly obese patients (with Department of Surgery).
• Role of ultrasound elastography in breast lesions (with Department of Surgery).
• Role of magnetic resonance imaging and spectroscopic methods in the evaluation of prostate cancer (with Department of NMR).
• Randomized study comparing upfront surgery followed by chemotherapy versus upfront chemotherapy followed by interval debulking surgery in previously untreated epithelial ovarian cancer stage 3C and stage 4 (pleural effusion only) (with Department of Medical Oncology and Department of Obstetrics and Gynecology).
• Validation of gel dosimetry as 3D verification tool in highly conformal radiotherapy techniques (with Department of Neurobiochemistry and Department of Radiotherapy).
• Comparison of CT, MRI and PET CT in evaluation of focal pancreatic masses and its correlation with the histopathology (with Department of Nuclear Medicine).
• A study of angiogenesis, proliferative activity and DNA ploidy in squamous cell carcinoma of larynx and their correlation with lymph node metastasis (with Department of Pathology).
• Comparative study of radiation therapy dose, volume evaluation for 3D conformal radiotherapy (3D CRT) versus image guided radiotherapy (IGRT) and analysis of early response in head and neck squamous cell carcinoma (with Department of Radiotherapy).
• Prospective comparative evaluation of 3D CT based treatment planning and 2D radiography based treatment planning for intracavitatory brachitherapy in carcinoma cervix (with Department of Radiotherapy).
• Prevalence of vitamin D deficiency and rickets in patients of congenital ichthyosis and keratinizing disorders in age group less than 21 years (with Department of Dermatology).
• Assessment of therapeutic response of radiolabeled anti-CD20 antibodies 131-iodine rituximab and/or 90 Yttrium rituximab in diffuse large B cell non Hodgkin lymphoma (with Department of Nuclear Medicine).
• Characterization and dosimetric evaluation of thermoluminescent phosphorus (with Department of Medical Physics).

• Study of efficacy of bioresorbable plates in the osteosynthesis of mandibular fractures without post-operative maxillomandibular fixation: a prospective study (with Department of Dental Surgery).

• A comparative study to measure the condylar guidance by the radiographic and clinical methods (with Department of Dental Surgery).

• Clinical and radiographic hand abnormalities in patients with systemic sclerosis and their correlation with systemic features of the disease (with Department of Medicine).

• Study of rheumatic musculoskeletal symptoms/disease and osteoarthritis of knee in older patients (with Department of Medicine).

• Gastrointestinal involvement in systemic sclerosis - A cross sectional study (with Department of Medicine).

• Effect of progressive resistance exercise training on hepatic fat in Asian Indians with non-alcoholic fatty liver disease (NAFLD) (with Department of Medicine).

• Oncology adequacy and functional outcome of transoral laser microsurgery (TLM) for early and moderately advanced laryngeal and hypopharyngeal cancers (with Department of Otolaryngology).

• Role of PET-CT in diagnosing unknown primary of head and neck cancer with cervical metastases (with Department of Otolaryngology).

• Immunohistochemical characterization of juvenile nasopharyngeal angiofibroma (JNA) and radiological and histological evaluation of involvement of Vidian canal in JNA (with Otolaryngology).

• Plastination of brain sections by silicone(S-10) and polyester (P-40) techniques.

• Structural and functional abnormalities in lungs in Achalasia cardia patients-pre and post treatment evaluation (with Department of Medicine).

• Study of mycobacteremia in military and disseminated tuberculosis (with Department of Medicine).

• Role of contrast enhanced ultrasound in the diagnosis and for assessment of the therapeutic response in patients of hepatocellular carcinoma (with Department of Gastroenterology).

• Assessment of response of hepatocellular carcinoma to transarterial chemoembolization by using magnetic resonance imaging (with Department of Gastroenterology).

• Arthroscopic and MR evaluation of elbow in patients with rheumatoid arthritis (with Department of Orthopedics).

• Intralesional autologous bone marrow stem cell injection in avascular necrosis of femoral head: follow up with bone scan, PET scan and (with Department of Orthopedics).

• Plain radiograph and MR imaging of patients with tennis elbow (with Department of Orthopedics).
• MDCT evaluation of spinal trauma: preoperative and post operative evaluation (with Department of Orthopedics).

• Randomized controlled trial of radiofrequency ablation versus percutaneous acetic therapy for the treatment of small hepatocellular carcinoma (with Department of Gastroenterology).

• Randomized control trial of transarterial chemoembolisation (TACE) versus TACE plus oral chemotherapy in the treatment of unresectable hepatocellular carcinoma (with Department of Gastroenterology).

• Randomized controlled trial of transarterial chemotherapy (TAC) versus oral chemotherapy in the treatment of unresectable hepatocellular carcinoma (with Department of Gastroenterology).

• Randomized Controlled trial of N-acetylcysteine in prevention of renal failure in hepatocellular carcinoma patients undergoing transarterial chemotherapy and transarterial chemoembolisation (with Department of Gastroenterology).

• Randomized controlled trial of oral chemotherapy versus supportive therapy in the treatment of unresectable hepatocellular carcinoma (with Department of Gastroenterology).

• Liver stiffness estimation by transient elastography in cirrhosis and non-cirrhotic portal hypertension (with Department of Gastroenterology).

• MRI based protocol for the management of infected pancreatic necrosis (with Department of Gastroenterology).

• Pattern of peripheral arterial diseases in tertiary care surgical practice: Indian scenario (with Department of Surgery).

• Safety and efficacy of autologous stem cells in prevention of amputation in patients with chronic critical limb ischemia (with Department of Surgery).

• A comparative evaluation of changes in ultrasonographic dimensions of masseter muscle with EMG activity prior and subsequent to twin blocks therapy (with Department of Dental Surgery).

• USG evaluation of intimal-medial thickness of carotid artery in patients with SLE (with Department of Medicine).

• Estimation of standard liver volume in the Indian population (with Department of Gastrointestinal Surgery).

• Role of intraoperative ultrasound in gastrointestinal malignancies: comparison with conventional imaging techniques (with Department of Gastrointestinal Surgery).

• Ultrasound doppler evaluation of Extra-Hepatic Portal Vein Obstruction (EHPVO) patients during follow up (with Department of Gastrointestinal Surgery).

• Ultrasound evaluation cervical lymph nodes in patients with carcinoma of esophagus (with Department of Gastrointestinal Surgery).

• Role of MRI in evaluation of pelvic organ prolapse and its relationship with Pelvic Organ Prolapse - Quantitative (POPQ) classification (with Department of Obstetrics and Gynaecology)
• Relationship of fetal doppler velocimetry to biophysical profile and fetal outcome in normal pregnancies and in pregnancies with intrauterine growth retardation (with Department of Obstetrics and Gynaecology).

• Evaluation of PET scan in preoperative assessment of cases of endometrial carcinoma (with Department of Obstetrics and Gynaecology).

• Correlation of stage and imaging of endometriosis with fertility outcome (with Department of Obstetrics and Gynaecology).

• Evaluation of the efficacy of thrice weekly DOTS regimen in TB pleural effusion at six months (with Department of Medicine).

• Endothelial dysfunction in rheumatoid arthritis (with Department of Medicine)

• A comparison of seizure recurrence in neurocyticercosis patients with calcified and non calcified healed lesions (with Department of Paediatrics).

• Incidence of acute kidney injury in sick, hospitalized children: A prospective observational study (with Department of Paediatrics).

• A study the clinical and neurodevelopment profile in children with Tuberous sclerosis (with Department of Paediatrics).

• Efficacy of zinc supplement as an adjunct with anti-tubercular treatment in children below 15 years of age with pulmonary tuberculosis in reducing time to sputum conversion: a randomized blind trial (with Department of Paediatrics).

• A comparison of seizure recurrence in neurocyticercosis patients with calcified and non calcified healed lesions (with Department of Paediatrics).

• Development of multifunctional metallic nano particles for cancer targeting (with Department of Pathology).

• Sonographic placental investigation and maternal quantitative D-Dimers in early singleton pregnancy: correlation with maternal and fetal outcome (with Department of Obstetrics and Gynaecology).

**PUBLICATIONS**

**Journals**


• Choudhary A, Sharma S, Sankhyan N, Gulati S, Kumar A. Unidentified bright objects in neurofibromatosis Type 1. Indian Journal of Pediatrics 2010 Jan 20 [Epub ahead of print].

• Das CJ, Goenka AH, Srivastava DN. MR-guided abdominal biopsy using a 1.5 Tesla closed system. Abdominal Imaging 2009 Mar 4 [Epub ahead of print].


• Jana M, Hari S. Traumatic diaphragmatic rupture complicated by intercostal tube insertion into the stomach. Surgery 2010 Feb 26 [Epub ahead of print].

• Jana M, Kumar A Kallmann syndrome in an adolescent boy. Pediatric Radiology 2010; Mar 12 [Epub ahead of print]


Abstracts


Books


Chapters in Books


**PATIENT CARE**

**New Equipment**

- Somatom Definition Flash (high end multi-detector CT with dual energy capability)
- Sterrad 100S (low temperature hydrogen peroxide gas plasma sterilizer)
- Upgradation of X-ray film and standard video acquisition station
Details of Investigations for the period 1st April 2009 to 31st March 2010

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Investigation</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Plain X ray (including emergency)</td>
<td>1,88,832</td>
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<tr>
<td></td>
<td><strong>Special Investigations</strong></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>Barium studies</td>
<td>2772</td>
</tr>
<tr>
<td>2.</td>
<td>Intravenous Urography</td>
<td>1662</td>
</tr>
<tr>
<td>3.</td>
<td>Micturating Cystouretherography (adult + children)</td>
<td>1812</td>
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<tr>
<td>4.</td>
<td>Hysterosalpingography</td>
<td>258</td>
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<tr>
<td>5.</td>
<td>Contrast studies</td>
<td>873</td>
</tr>
<tr>
<td>6.</td>
<td>Mammogram</td>
<td>1464</td>
</tr>
<tr>
<td>7.</td>
<td>Digital Subtraction Angiography</td>
<td>646</td>
</tr>
<tr>
<td>8.</td>
<td>Interventional Digital Subtraction Angiography</td>
<td>1118</td>
</tr>
<tr>
<td>9.</td>
<td>OT Procedures</td>
<td>41</td>
</tr>
<tr>
<td>10.</td>
<td>MRI</td>
<td>2811</td>
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<tr>
<td>11.</td>
<td>Routine Ultrasound</td>
<td>42162</td>
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<tr>
<td>12.</td>
<td>Doppler</td>
<td>3421</td>
</tr>
<tr>
<td>13.</td>
<td>Ultrasound guided Interventions (routine + emergency)</td>
<td>2849</td>
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<tr>
<td>14.</td>
<td>CT</td>
<td>13808</td>
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<tr>
<td>15.</td>
<td>CT guided Interventional Procedure</td>
<td>463</td>
</tr>
<tr>
<td></td>
<td><strong>Total (special investigations)</strong></td>
<td>76,160</td>
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<tr>
<td></td>
<td><strong>Grand Total= 1, 88,832 + 76,160</strong></td>
<td>2, 64,992</td>
</tr>
</tbody>
</table>

**AWARDS, HONOURS AND SIGNIFICANT EVENTS**

**Dr. Sanjay Sharma** received the Dr BD Handa Award for the best paper at the 7th National Conference of Indian Society of Paediatric Radiology (Delhi, 13 September 2009). He was elected Joint Secretary of Indian Society of Vascular & Interventional Radiologists (2009-10).

**Dr Ash Seith Bhalla** was elected to the executive council of ISVIR (2009-10). She also received the best poster award at Annual Conference of ISVIR (Delhi, 7-10 October 2009).

**Dr Shivanand Gamanagatti** is on the Editorial Board of the World Journal of Radiology and the Journal of Thoracic Diseases. He was also awarded the MNAMS.

**Dr Atin Kumar** was awarded the MNAMS.

**Dr Shashi Paul** was awarded the Japanese Society of Hepatology (JSH) Best Poster Award at its 8th Single Theme Conference (Tokyo, Japan, November 2009). She was a Visiting Scientist to the Department of Gastroenterology, Kinki University School of Medicine, Osaka, Japan (July – August 2009). She was also awarded the MNAMS.
EDUCATION

Undergraduate/Postgraduate Training

Ph.D/DM/MD/MS - 12 candidates

MD Laboratory Medicine and MD Biochemistry students in Central RIA Facility

Short & Long Term Training

Long-term training was provided to 3 trainees on WHO fellowship (6 months)

Short-term training was provided to 1 student

Continuing Medical Education

The Department organized a national workshop on ‘Molecular Cytogenetics: Cancer Cytogenetics (Solid Tissue) by Fluorescent in-situ Hybridization (FISH),’ at AIIMS, New Delhi, in August 2009.

National & International Conferences/Workshops

Indian Institute of Technology (Kharagpur and Department of Reproductive Biology, AIIMS jointly organized a workshop on ‘Technology in Fertility Regulation,’ at AIIMS, in February 2010.

Lectures delivered

Dr. Anand Kumar

• ‘Keynote Address’ on ‘Physiology of Thyroid Hormone Changes during Pregnancy,’ Varanasi March, 2010.

Dr. N.N. Sarkar

• ‘Menopause: the end of the reproductive phase of women’s life,’ Indian Science Congress, Trivandrum, January 2010.

Dr. A. Halder

• ‘Role of Molecular Cytogenetics in Clinical Practice,’ 35th Annual Conference of the Indian Society of Human Genetics, Lucknow, March 2010.

• ‘In-Situ Hybridization Methodologies: In-situ Hybridization, Colorimetric In-situ Hybridization (CISH), Fluorescent in-situ Hybridization (FISH), DNA Microarrays,’ Molecular Techniques in Cancer Diagnosis & Research,’ New Delhi, March 2010.
RESEARCH
Funded Projects

Ongoing

• Spermiation defect: role of AMH, Vitamin A and heavy metal. SRF project (2009 – ongoing). Funded by: ICMR. Funds: Rs. 3 lakhs.
• Mediatory role of hypoxia inducible factor 1 alpha on vascular endothelial growth factor expression in an immortalized mouse Leydig cell line. Anand Kumar (2009-ongoing). Funded by: Department of Science and Technology. Funds: Rs. 18 lakhs.

Departmental

Ongoing

• Regulation of proliferation of prostatic cancer cell line LNCaP.
• Regulation of granulosa cell steroidogenesis.
• Genetic and endocrine factors in primary testicular failure.
• Role of cobalt chloride induced hypoxia on MA-10 cells.
• An investigation on underlying etiology on primary testicular failure
• Dynamics of Sex Ratio
• Analysis of differential expression of proteins in motile and non motile spermatozoa
• Evaluation of the impact of intimate partner violence on woman’s reproductive health and pregnancy outcome.
• Evaluation of the end of reproductive phase of the woman’s life.
• Evaluation of the use of emergency contraception by the adolescents and young adult women.

Completed

• Evaluation of hormonal profiles behind the heart of a man.
• Evaluation of the impact of the sex hormone therapy on the health of postmenopausal women.
• Evaluation of emergency contraception: a contraceptive intervention confronting ethical and cultural barriers.
• Effect of oral contraceptive containing ethinyl estradiol combined with drospirenone Vs desogestrel on clinical and biochemical parameters in patients of polycystic ovarian syndrome.

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Collaborative Research

Ongoing

- Use of letrozole versus clomiphene citrate combined with gonadotropins in superovulation and Intra-uterine insemination cycles (with Department of Obstetrics & Gynaecology).
- Comparison of chronic groin pain, testicular functions and quality of life after open and laparoscopic inguinal hernia repair - A prospective randomized controlled trial (with Department of Surgery).
- Characterization of chromosomal anomalies in multiple myeloma patients using cytogenetics and fluorescent in-situ hybridization (FISH) (with Dr. BR Ambedkar Institute Rotary Cancer Hospital).
- Adrenal functions in patients with severe sepsis and septic shock (with Department of Medicine).

PUBLICATIONS


Book

CHAPTERS IN BOOKS


PATIENT CARE

Central Radio Immune Assay (RIA) facility is now fully computerized using laboratory information software (LIS). It is the first fully computerized laboratory in AIIMS. Assays for LH, FSH, Prolactin, T3, T4, TSH, Testosterone, Estradiol, Progesterone, alpha Feto-Protein, Prostate Specific Antigen (PSA), Beta hCG, CA-125 and cortisol can be carried out the facility.

<table>
<thead>
<tr>
<th>Name of Assays</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSH</td>
<td>2995</td>
</tr>
<tr>
<td>LH</td>
<td>2482</td>
</tr>
<tr>
<td>Prolactin</td>
<td>2128</td>
</tr>
<tr>
<td>T3</td>
<td>5525</td>
</tr>
<tr>
<td>T4</td>
<td>6548</td>
</tr>
<tr>
<td>TSH</td>
<td>11455</td>
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<tr>
<td>Testosterone</td>
<td>1326</td>
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<tr>
<td>Estradiol</td>
<td>545</td>
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<tr>
<td>Progesterone</td>
<td>58</td>
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<tr>
<td>AFP</td>
<td>2830</td>
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<tr>
<td>PSA</td>
<td>1638</td>
</tr>
<tr>
<td>Beta hCG</td>
<td>690</td>
</tr>
<tr>
<td>CA-125</td>
<td>1144</td>
</tr>
<tr>
<td>Cortisol</td>
<td>131</td>
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<tr>
<td>Total Number of tests</td>
<td><strong>39495</strong></td>
</tr>
<tr>
<td>Total number of patients</td>
<td>22464</td>
</tr>
</tbody>
</table>

Andrological Examinations: Semen Examination: 300, Seminal Fructose: 249
Genetic investigations and counseling: 200
AWARDS, HONOURS AND SIGNIFICANT EVENTS

**Professor Anand Kumar** was nominated as a visiting Professor to the University of Sains, Malaysia from 1-27 October 2009. He also chaired a session at the International Conference on Reproductive Health & 20th Annual Meeting of the ISSRF at Jaipur (8-10 February 2010). He is a member of the Advisory Committee of the University Grants Commission – Special Assistance Programme in Zoology of M.L. Sukhadia University, Udaipur. He serves on the Editorial Board of the Open Andrology Journal (Bentham); and is a peer reviewer for the International Journal of Andrology, Wellbeing of Women Research Training Fellowship (London), Fertility and Sterility, and Indian Journal of Medical and Pediatric Oncology. He is also a reviewer for Department of Science and Technology project proposals. He was appointed as an External Examiner for MSc Biochemistry of the National Dairy Research Institute, Karnal. He is also an examiner for University of Rajasthan and University of Mumbai. He served as an Expert in the Faculty Selection Committee for Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow and National Institute of Health and Family Welfare, New Delhi. He has been nominated to the Committee for the Purpose of Control and Supervision of Experiments on Animals (CPCSEA), and the Institutional Animal Ethics Committee of Dr. BR Ambedkar Centre of Biomedical Research, University of Delhi.

**Dr. Ashutosh Halder** chaired the session in Indian Society of Human Genetics Conference 2010 at Lucknow. He was awarded the second prize for poster presentation at the 4th International Congress on Birth Defect and Development 2009 at New Delhi. He is an examiner for DM in Medical Genetics at SGPGIMS, Lucknow. He is a member of the editorial board of Clinical Reviews and Opinions, Asian Journal of Medical Sciences, and International Journal of Genetics and Molecular Biology; and he is a reviewer for Indian Journal of Medical Research, Indian Journal of Pediatrics, International Journal of Women’s Health, Pharmacogenomics and Personalized Medicine, Breast Cancer: Targets and Therapy, the Application of Clinical Genetics, Open Access Journal of Contraception and Indian Pediatrics. He provided expert genetics opinion to assist the Ethics Committee of Medical Council of Indi (MCI). He is also a member of the Board of Specialty of Medical Genetics of the MCI and helped in the revision of the MD & DM Medical Genetics Curriculum.

**Dr. NN Sarkar** is a peer reviewer for International Journal of Gynecology & Obstetrics, International Journal of STD & AIDS; and Journal of Women’s Health.

**Dr. P.K. Chaturvedi** was nominated as a member of Membership Committee of the Society for the Study of Reproduction (SSR). He is the Officer-in-Charge of the Central RIA Facility and Andrology laboratory.
9.34 Surgical Disciplines

Professor and Head
M.C. Misra

Professor
Anurag Srivastava

Additional Professor
Sandeep Guleria

Associate Professor
V. Seenu

Assistant Professor
(Associate Professor (Trauma Centre))

Additional Professor
Sunil Chumber

Associate Professor
Sandeep Agarwal

Assistant Professor
(vacant)

Short Term Training
• 3 students were provided 2-3 months short-term training in laparoscopic surgery (Minimally Invasive Surgery).

CME and Conferences Organized by the Department
The Department organized the following courses
• Minimally Invasive Surgery Training Centre, AIIMS, New Delhi (Course Director: MC Mishra, Course Co-ordinator: VK Bansal).
• Laparoscopic Colorectal Surgery, 27-29 July 2009 & 8-10 February 2010


- Monthly Meeting of Delhi State Chapter, Association of Surgeons of India, AIIMS, New Delhi, 20 February 2010.

- 2nd Live Operative Workshop and CME on Morbid Obesity (Organizing Chairman: MC Mishra, Organizing Secretary: Sandeep Aggarwal), AIIMS, New Delhi, 13-15 November 2009.

- 2nd International Conference, CME cum Live Workshop in Association with Indian Society for Trauma and Acute Care (ISTAC) (Organizing Chairman: MC Mishra), JPN Apex Trauma Center & AIIMS, New Delhi, 12-15 November 2009.

- ASICON foundation CME on “Trauma,” JPN Apex Trauma Center & AIIMS, New Delhi, 26 July 2009.


**Guest Faculty and Invited Lectures**

**Prof. MC Misra**


- ‘Hospital Contingency Disaster Planning,’ Course for Hospital Administration, National Institute of Health and Family Welfare (NIHFW), New Delhi, 20 July 2009.

- Panelist on discussion on ‘Quality of Care in Hospitals,’ 11th Professional Development Course in Management, Public Health and Health Sector Reforms for District Medical Officers, NIHFW, New Delhi, 4 August 2009.


• Performed Live Surgery on a Bilateral Groin Hernia (Totally Extra-peritoneal Repair), Pre-conference Live Operative Workshop, 35th Annual Conference of UP Chapter of Association of Surgeons of India, 6–8 November 2009.

• ‘Trans-Vaginal Cholecystectomy,’ 35th Annual Conference of UP Chapter of Association of Surgeons of India, 6–8 November 2009.


• ‘Endoscopic Vs Laparoscopic Management of CBD Stones,’ Annual National Conference of Indian Association of Clinical Medicine, Khajuraho, 28–30 November 2009.


• ‘Advance Laparoscopic Hepatobiliary Surgery,’ Military Hospital, Jodhpur, 13 February, 2010.

• ‘Accident and Emergency Services & Role of Hospitals in Disaster Management,’ 83rd Training Course in Hospital Administration for Senior Hospital Administrators, NIHFW, New Delhi, 18 February 2010.

• Key-Note Lecture ‘Capacity Building to Improve Trauma Care in India – a Huge Challenge – ATLS Journey So Far,’ CME on “Management of Trauma in Armed Forces, Military Hospital, Bengdubi, Bagdogra, West Bengal, 6-7 March 2010.

• ‘Accident and Emergency Services & Role of Hospitals in Disaster Management & Operation Theatre Planning and Design,’ 84th Training Course in Hospital Administration for Senior Hospital Administrators from U.P., NIHFW, New Delhi, 11th March 2010.

• ‘Accident and Emergency Services & Role of Hospitals in Disaster Management,’ 85th Training Course in Hospital Administration for Senior Hospital Administrators from U.P., NIHFW, New Delhi, 25 March 2010

Dr. Sandeep Guleria

• ‘How to choose a Live Donor?’ Transplantation Society - Emerging Key Opinion Leaders, Agra, 5 April 2009.

• ‘Organ Transplantation,’ Trained Nurses Association of India, 21 April 2009.

• ‘Surgical Aspects of Renal Transplantation,’ IMA East Zone, New Delhi, 25 May 2009.
• ‘Surgical Site Infection’ Indian Spinal Institute, New Delhi 16 May 2009.
• ‘Kidney and Pancreas Transplantation,’ CME organized by Max Hospital (Patparganj) Delhi, 14 June 2010.
• Delivered the ‘BL Tiwary Oration,’ Association of Surgeons of India - Jharkhand Chapter, 31 October 2009.
• ‘Future of Transplantation,’ Moolchand Hospital, New Delhi, 7 November 2009.
• ‘Current Status of Organ Transplantation’, Medicine CME organized by Max Hospital (Patparganj) Delhi, 15 November 2009.
• Panelist on discussion on ‘Surgical Site Infections,’ Delhi State Chapter Annual Conference SURGICON - 2009, 21 November 2009.
• ‘Pediatric Transplantation: Successes and challenges,’ Indian Association of Pediatric Nephrologists, 5 November 2009.
• ‘Abdominal Compartment Syndrome,’ Annual Conference of ASI, Coimbatore, 26 December 2009.
• ‘Organ Donation: Cross Border Status,’ Transplantation Update organized by Bir Hospital, Kathmandu, Nepal; 1 March 2010.
• Panelist on discussion on ‘Management of Hepatic Secondaries,’ Symposium on HIV and Hepatitis C Virus Co-Infection and Hepatic Cell Carcinoma, Institute of Liver & Biliary Diseases (ILBS), 6 March 2010.
• ‘25 years of Transplantation,’ Bombay Hospital, 14 March 2010.

Dr. Rajender Prashad

• ‘Laparoscopic Surgery for Hiatus Hernia,’ and Live Demonstration of laparoscopic procedures, Mid-Term Annual Conference of Indian Hernia Society, Coimbatore, 17-18 July 2009.
Dr. Sandeep Aggarwal

- ‘Laparoscopic Management of Traumatic Diaphragmatic Hernia with Chest Tube in Herniated Stomach,’ 17th Congress of the European Association of Endoscopic Surgery (EAES), Prague, Czech Republic; June 2009.
- ‘Laparoscopic Splenectomy for a Large Hydatid Cyst of Spleen,’ 17th Congress of the European Association of Endoscopic Surgery (EAES), Prague, Czech Republic; June 2009.
- ‘Laparoscopic Sleeve Gastrectomy: Technique,’ National Conference of Indian Association of Gastrointestinal Endoscopic Surgeons (IAGES), New Delhi, February 2010.

Dr. VK Bansal

- Master Video presentation on ‘Laparoscopic Anterior Resection’ Northern Chapter ASI Annual Conference, Chandigarh, March 2010.
Papers Presented by the Faculty

Prof. MC Misra

• ‘Single Stage vs. Two Stage Management of Gall Stones with CBD stones,’ Annual Conference of Delhi State Chapter of ASI, New Delhi, 22 November 2009.

• ‘Prospective Non - Randomised Study of Heavy Weight Polypropelene Mesh in Laparoscopic Incisional/Ventral Hernia Repair,’ Annual Conference of Delhi State Chapter of ASI, New Delhi, 22 November 2009.

• ‘Laparoscopic Adrenalectomy – our Experience,’ Annual Conference of Delhi State Chapter of ASI, New Delhi, 22 November 2009.


• ‘Prospective Evaluation of Laparoscopic Skills Acquisition in a Short Term Focused Training Program on a Phantom Model using Porcine Gall Bladder,’ National Conference of Indian Hernia Society, Coimbatore, 17-8 July 2009.

Dr. Sandeep Guleria


Dr. Rajender Prashad


Dr. VK Bansal


Dr. Anita Dhar

- ‘Newer Trajectories in Peripheral Arterial Disease,’ ONCOWOUNDCON-2010, New Delhi, 6 March 2010.

Research

Funded Projects


Collaborative Research

- Induction of Therapeutic Angiogenesis in Limb Ischemia by Intra-arterial Delivery of Autologous Bone Marrow Derived Stem Cells. Sajeev Sinha (PI). Funded by Department of Biotechnology (with Department of Cardiac-Radiology & Cardiology).

Departmental Projects

Completed

- A prospective randomized comparison of TAPP vs. TEP repair in patients undergoing laparoscopic inguinal hernia repair.
- A prospective randomized control trial of sutured vs. tacker fixation of mesh in patients undergoing laparoscopic incisional hernia repair.
- Prospective evaluation of laparoscopic skills acquisition in a short term focussed training programme on a phantom model using porcine gall bladder.
- Role of radiofrequency ablation in treatment of symptomatic lower limb varicosities
- Feasibility of fast track discharge in breast cancer patients undergoing definitive surgery and impact on quality of life, (in collaboration with Department of Physical Medicine).
• Designing of methylation target arrays for breast cancer.

• The effect of renal transplantation on coronary artery calcification and carotid intimal-medial thickness in renal recipients.

• Effect of donor kidney weight/recipient body weight mismatch on patients and graft outcome in live donor renal transplantation.

• To study the incidence and assess the risk factors for post-transplant new onset diabetes mellitus.

• Lymphoscintigraphy of upper limb lymphatics in patients undergoing axillary dissection in carcinoma breast.

• Measurement of the depth of the terminal ductal lobular unit from the skin in mastectomy specimen to masses at the optimum thickness of the flap to be raised in the mastectomy for breast cancer.

• Assessment of cosmetic outcome following breast oncoplasty following breast conservative surgery.

**Ongoing**

• Chronic groin pain and quality of life after laparoscopic inguinal hernia repair using heavy weight vs light weight meshes.

• Comparison of long term outcome and quality of life after laparoscopic incisional and ventral hernia repair with suture or tracker mesh fixation.

• Comparison of chronic groin pain and quality of life after laparoscopic inguinal hernia repair – TEP vs TAPP.

• Chronic groin pain, testicular function and quality of life after laparoscopic and open inguinal hernia repair.

• A randomized controlled study of comparison of single stage vs two stage treatment for patients with gall stones and common bile duct stones.

• To evaluate the endovenous laser ablation in the treatment of varicose veins.

• A prospective study on radiological evaluation in patients with vascular malformations of the extremities.

• Comparison of various imaging modalities in the diagnosis and staging of the periampullary tumors and study of various perioperative factors in predicting the outcome of the patients with periampullary tumors.

• Laparoscopic suturing skills acquisition – a comparison between trained and novice surgeons.

• Major trauma outcome study in a level–I trauma centre.

• Study of human breast cancer by magnetic resonance techniques.

• Clinical correlation of ER, PR, HER2 neu expression and BRCA1 gene mutations in Indian breast cancer patients.
• Development and validation of a simple method for measurement of trans-fatty acid intake and to study the association between trans-fatty acids and coronary artery disease.

• Evaluation of cox-2 and lox levels and the role of peptide inhibitors in breast cancer.

• Feasibility of fast track discharge in breast cancer patients (with Departments of Biotechnology & Biopysics).

• Structural and functional abnormalities in lungs in achalasia cardia patients - pre and post treatment evaluation (with Departments of Gastroenterology, Medicine & Radio Diagnosis).

• Pilot study comparing symptomatic outcome of patients undergoing laparoscopic cardiomyotomy with angle of his accentuation v/s laparoscopic cardiomyotomy with anterior dors fundoplication for achalasia cardia (with Departments of Gastroenterology, Radio Diagnosis & Biostatistics).

• Clinical utility of breast ultrasound as an adjunct to mammography in the diagnostic breast imaging (with Department of Radio Diagnosis).

• Comparison of accuracy of image guided v/s palpation guided core needle biopsy in palpable breast masses (with Department Radio Diagnosis).

• A study to assess the marital relationship of women and their psychosocial status after surgical treatment of carcinoma breast.

• Study of outcome of laparoscopic sleeve gastrectomy in morbidly obese patients.

• Evaluation of endovenous laser ablation in the treatment of varicose veins

• Randomized study of outcome of laparoscopic sleeve gastrectomy with and without staple line reinforcement in morbidly obese patients.

• To study the pattern of peripheral arterial disease in tertiary care surgical practice: Indian scenario.

• A randomized trial comparing limited length ductal cone excision with 3 cm ductal cone excision in women presenting with mammary duct discharge.

• Validation of different techniques in physical examination of the breast.

• Comparison of USG elastography, sonography and mammography in breast masses.

• Ascertaining the depth of the terminal ducto-lobular unit from skin by preoperative magnetic resonance scan and post operative histological measurement.

• A detailed ultra structural study of major ducts in women with periductal mastitis/mammary duct ectasia.

• Safety and efficacy of autologous stem cells in prevention of amputation in patients with chronic critical limb ischemia.

• Radical duct excision for nipple discharge (benign breast disease) – its long term follow up.

• Role of cilastozole in treatment of chronic ischemia of the lower limb.
PUBLICATIONS


- Guleria S. Mini-donor nephrectomy: A viable and effective alternative Indian Urol 2010; 26:139-41.


• Sharma A, Jain S, Gupta R, Banerjee KG, Guleria S, Agarwal SK Dinda AK. Ultrastructural alterations in endothelial mitochondria are associated with enhanced nitrotyrosine accumulation and progressive reduction of VEGF expression in sequential protocol renal allograft biopsies with calcineurin inhibitor toxicity. Transpl Int 2009 Nov 13 [Epub ahead of print].


Abstracts


**Significant Events, Awards and Honours**

**Prof. M.C. Misra** continued to serve as the India Chair and Course Director of the ATLS Program; Convener of the Society of Endoscopic and Laparoscopic Surgeons of India; President of Indian Hernia Society; President of the Indian Society of Trauma and Acute Care; Peer reviewer for Surgical Endoscopy and Indian Journal of Surgery, Examiner for MRCS examinations for the Royal College of Surgeons and Physicians of Glasgow and Royal College of Surgeons of Edinburgh; and Key Opinion Leader for the Injury prevention program of WHO, MOH & FW, and ICMR. He was a member of the inspection committee of the Medical Council of India to inspect facilities at Padmashree Dr. D. Y. Patil Medical College, Navi Mumbai and to verify compliance report regarding increase of Postgraduate seats in General Surgery (22 February 2010); for Krishna Institute of Medical Sciences, Karad (29 September 2009) and for Smt. NHL Municipal Medical College, Ahmedabad for starting of MD (Emergency Medicine) course (25 January 2010). He served on the panel to Audit the last decade of work by the Department of Endocrine Surgery, Sanjay Gandhi Postgraduate Institute, Lucknow (12 November 2009); and on the MOH & FW Technical Committee for appraisal of Jawaharlal Nehru Medical College of Aligarh Muslim University for upgradation in the second phase of PMSSY (25 August 2009). He continued to serve as a member of the expert committee of GOI to grant recognition for Kidney transplantation; and served as a member of the Indian Advisory Committee for the Indo-Australian Workshop on Road Traffic Injury (June 2010 in Sydney, Australia & 11 February, 2010 in Hyderabad); the MCI expert group to restructure the Medical Education Curriculum (24 December 2009). He was the Chief Guest for the Inaugural Function of “LAPAROCON – 2010”, 2nd Regional Congress & Live Workshop on Laparoscopic Surgery & Endourology (16 January 2010, Satna, Madhya Pradesh); and of the CME on ‘Hip and Knee Arthroplasty and Advanced Physiotherapeutic Techniques’ organized by the Indian Association of Physiotherapists, Delhi State Chapter, (14 March 2010, New Delhi); and as a Guest of Honour at the Inaugural Function of the Multi-Specialty Conference of Delhi Medical Association (13 December 2009, Delhi). He was the Congress President for the Mid-Term Conference, CME Cum Live Workshop of the Indian Hernia Society (16–18 July 2009, Coimbatore) and he delivered the Presidential Oration on ‘Laparoscopic Incisional and Ventral Hernia Repair – Standards of Care in the Current Millennium.’ He delivered the Dr. Kini Memorial Oration at ASICON - 2009, (28 December 2009, Coimbatore) and the Dr. S.K. Sen Memorial Oration of the Delhi State Chapter of ASI at SURGICON-2009 (22 November 2009, Delhi). He was a panelist at the 3rd Indian MedTech Summit under Stanford– India Biodesign (SIB) (12 December 2009, New Delhi). He was the Convener for the CME (Recent Advances in Trauma care) of the ASICON Research Foundation (26 July 2009, New Delhi); and the ISOT Registry Meeting Liver and Kidney Transplantation (14 February 2010). He was a Co-organizer for the International Conference Cum Live Operative Workshop on Advanced Laparoscopy, jointly organized by SELSI, Societe Internationale d’Urologie (Indian Chapter), and Urological Society of India – North Zone (4–6 June 2009, Srinagar); and the First Training Course on Medical Preparedness for Emergency Medical Response to CBRN
Casualties organized by National Disaster Management Authority (NDMA) and Defense Research and Development Organization (DRDO) (20–22 May 2009, New Delhi). He chaired scientific sessions during the 2nd India Disaster Management Congress organized by National Institute of Disaster Management (4–6 November 2009, New Delhi); 3rd Annual National Conference of Society for Wound Care and Research (4–6 September 2009, New Delhi); the CME (Technology Tutorial for Surgeons) of the Delhi State Chapter of ASI (9 August 2009, New Delhi); CME (Information Technology for Surgeons; session: Power point presentation) (9 August 2009); and CME at IAGES-2010 (session: Solid Organ Surgery) (20 February 2010); and was a Co-Chairperson for the session on “Surgery Track” during Global Health Summit of the Association of American Physicians of India (2-3 January 2010, New Delhi). He was invited to participate at the ATLS International Meeting (10-11 October 2009, Chicago) and he attended the 95th Clinical Congress of American College of Surgeons (12–14 October 2009, Chicago); he was a Guest Speaker at the Shanghai Inguinal and Ventral Hernia Forum (20–22 August 2009, Shanghai. He was also invited as a National Faculty at the Quartasept Centennial (175 Years) Jubilee Celebrations of the Madras Medical College & Hospital and the International Conference of the Society of Endoscopic and Laparoscopic Surgeons of India - South Zone (4–6 September 2009, Chennai). He is an Examiner for the IMRCS examination of the Royal College of Physicians and Surgeons of Glasgow (14-15 September 2009, New Delhi). He continued as a Competent Authority (Chairman, Authorization Committee) for granting final approval in genetically related donor/donee organ transplantations at AIIMS in pursuance of Transplantation of Human Organs Act 1994 (Transplantation of Human Organs Rules Amended 2008).

Dr. Sunil Chumber was awarded the Swami Pranavananda Saraswati Award of the University Grants Commission for (Medical) Education (2007) (award conferred in March 2010).

Dr. Sandeep Guleria continues to be secretary of the Indian Society of Organ Transplantation. He is also the Co-Editor of the Indian Journal of Transplantation. He delivered the Lobo Oration of the Christian Medical College, Ludhiana entitled ‘Kidney Pancreas Transplantation’ (8 January 2010) and was awarded the BL Tiwary Memorial Oration by the Jharkand Surgical Society on ‘Current status of Organ Transplantation.’ He is also a Key Opinion Leader of the Transplantation Society and the Chairman of the Postgraduate Education Committee of the Association of Surgeons of India (2009). He served as a member of the Scientific Committee of the Indian Society of Organ Transplantation; the Expert committee of GOI to grant recognition for liver and Kidney transplantation. He is an Examiner for MRCS examination of the Royal college of Surgeons and Physicians of Glasgow and Royal college of Surgeons of Edinburgh and he helped conduct the MRCS examination of the Royal College of Physicians and Surgeons of Glasgow at Sir Ganga Ram Hospital (15-16 September 2009); and was invited by the CSIR as an expert for the selection of Senior Research Associates. He was the Organising Secretary for the Annual Conference of the Indian Society of Organ Transplantation to be held in Delhi in 2011. He was the Chief Guest for the Annual Day of International Hospital with the theme ‘Public Lecture on Organ Donation’ (30 May 2009, New Delhi). He chaired scientific sessions on obesity at Max Hospital (28 June 2010, New Delhi); ‘trauma’ in ASICON CME on Trauma (26 July 2010, New Delhi); on ‘Power Point Presentation’ in a CME of ASICON Foundation (9 August 2009, Delhi); and ‘Transplant landscape: Past, Present and Future’ (14 March, 2010). He also chaired talks on ‘Simultaneous Kidney Pancreas
Transplantation’ at the ISOT Annual conference (8 October 2009; Varanasi), the JM Patel Oration of the ISOT (9 October 2009; Varanasi), the RVS Yadav Memorial Oration of the ISOT (10 October 2009; Varanasi), the BL Tiwary Oration of the Association of Surgeons of India, Jharkhand Chapter (31 October 2009), talk on ‘Liver Transplant for HCC: how Big is Acceptable’ (7 March 2010, New Delhi). He also took a public lecture on ‘Renal Failure and Transplantation’ (31 July 2009, New Delhi).

**Dr. Rajender Prashad** chaired a session during the 2nd Live Operative Workshop cum CME on Obesity Surgery (13 November 2009, New Delhi).

**Dr. Sandeep Aggarwal** has initiated the Bariatric Surgery Program for Morbid Obesity at AIIMS and a Patient Support Group for Obese patients. He was also nominated as an Executive Member of Obesity & Metabolic Surgery Society of India (OSSI) for a period of two years.

**Dr. Anita Dhar** received the Breast Surgery International Travel Award for ISW 2009.

**Public Services**

**Dr. M C Misra**

- ‘Stone in Gallbladder,’ Doordarshan National Channel (13 February 2010; 4-4:30 PM).
- ‘Healthcare scenario - Achievements and Challenges when India attains 61 years as Republic,’ DD National Channel (25 January 2010; 5:35-6 PM).
- ‘Thyroid disorders,’ Live Phone-in program Healthy India,” Lok Sabha TV (8 August 2009 & 23 January 2010; 6–7 PM).
- ‘Increase in average age of children born after Year 2000 (UN Report),’ Sahara Samay TV (7 January 2010).
- ‘Healthcare Reforms in India,’ Lok Sabha TV (4 January 2010; 7–8 PM).
- ‘Visit to Leh, Ladakh (10-13 September 2009) to attend the serious and chronic patients in a Medical camp, Organized by Ladakh Hill Council and Ashok Mission.
- ‘Dangers of Radiation by the Microwave Antennas installed on the rooftops of several buildings in densely populated areas of Old Delhi and other areas of the capital,’ Live India TV Channel (4 July 2009; 6–7 PM).
- ‘Technique of Plastination of dead body and body organs in context of Michel Jackson’s death,’ Live India TV Channel (28 June 2009; 5-6–PM).
- ‘Cancer,’ Live Phone-in program Healthy India,” Lok Sabha TV (20 May 2009; 4-5 PM).
• ‘Sadak Durghatnayein: Karan evam Bachao,’ FM Gold Channel (Prasar Bharti - All India Radio) (14 April 2009; 9:45–10:00 PM).

• ‘Laparoscopic Surgery – Newer developments,’ “Evening Live Show,” DD National Channel (13 April 2009; 5:00-6:00 PM).


• ‘Prevention of Head Injury in Women by using Helmet,’ Times of India (8th April 2009).

• ‘Ethics and Governance,’ National Seminar organized by the Desh Bandhu College, Delhi; 15-16 February 2010.
EDUCATION

Short term training: The Department provided short term training to the Junior Residents of Pathology and Laboratory Medicine.

During the year, 21 students from various universities/ institutions/ hospitals received 4-6 months training in laboratory techniques for HLA testing and other immunological investigations.

Long term training: One doctor from the Armed Forces Medical College, Pune is undergoing training in Clinical Immunogenetics.

Training to DM students: Several DM students from the Departments of Pathology, Nephrology, Medical Oncology and Hematology were trained in techniques for HLA testing and other immunological investigations.

Continuing Medical Education (CME)

During the year, the faculty and scientists of the department participated and delivered several lectures in national and international conferences. A quality control exercise for DNA typing of HLA genes is in progress at the national level. Training on various cell culture assays (including flow cytometry based assays) has been regularly provided to students and visiting trainees. The Faculty also delivered special lectures in various department of the institute (Biotechnology, Medical Oncology, Hematology, Medicine and Anatomy) as part of the academic curriculum of these departments.

National and International Conferences:

Organized by Department


33rd International Scientific Conference of the Australasian and South East Asian Tissue Typing Association (ASEATTA 2009), 12-15 November 2009 (President: NK Mehra, Organizing Secretary: Gurvinder Kaur)
6th International Summer School on Immunology & Immunogenetics, 16-19 November 2009 (Chair: NK Mehra; Secretary: Gurvinder Kaur)

International Seminar on Complement in Health and Disease, 27 February 2010 (Chair: NK Mehra).

**Lectures delivered (National):**

**Professor NK Mehra**

‘Asian Indian Donor Marrow Registry,’ Planning Meeting of Marrow Donor Registry in India, Mumbai, 11 April 2009.

‘Hematopoietic Stem Cell Transplantation: Opportunities and Challenges,’ Indian Council for Medical Research (ICMR) Fourth Medical Development Congress, New Delhi, 13-14 April 2009.


‘Stem Cell Advances: iPS, gPS and ES cells,’ QIP-STTP Program on Annual Tissue Culture, Chennai, 20 July 2009.

‘Genetics of Type-1 Diabetes: Single Disease, Many Genes,’ Kolkata; 8 August 2009.


‘Brain Storming Session on Nasopharyngeal Carcinoma,’ Guwahati, 18 September 2009.

‘Genetics of Type-1 Diabetes,’ Annual Conference of the Research Society for Study of Diabetes in India (RSSDI), Ahmedabad, 6 November 2009.


‘Bone Marrow Transplantation: Opportunities & Challenges,’ Symposium on Introduction to HLA and Molecular Immunogenetics, Kolkata, 4 January 2010.


‘Immunological Basis of Liver Injury in Hepatitis (HBV, HC) – HIV co-infection – Session Chair,’ 1st Institute of Liver and Biliary Science-National Institute of Health (USA) (ILBS-NIH) Symposium, New Delhi, 6-7 March 2010.

‘A Journey into the World of HLA in Medicine and Biology,’ 3rd Department of Biotechnology (DBT) Sponsored Workshop on HLA, Lucknow, 22 March 2010.

‘Selection of Deceased Donor for Organ Transplantation,’ Workshop on Embalming, Plastination and Organ Donation in Present Day Scenario, New Delhi, 26 March 2010.
‘Evolutionary Significance of Disease associated HLA-DR3 Haplotypes in India,’ 33rd International Conference of the Australasian and South East Asian Tissue Typing Association (ASEATTA 2009), New Delhi, 12-15 November 2009.

‘HLA and Disease Associations,’ 6th International Summer School in Immunology & Immunogenetics, New Delhi; 16-19 November 2009.

**Dr. DK Mitra**

‘Host Immune Response in Human Tuberculosis,’ National CME on Immunology, Indian Immunological Society, Agartala, 5-6 March 2010.


**Dr. Uma Kanga**

‘Tissue Typing Techniques for Indian Marrow Donor Registries,’ Future Plans Meeting of the Marrow Donor Registry India, Mumbai, 11 April 2009.


**Dr. Gurvinder Kaur**


**International:**

‘Innate Immunity Markers in Tuberculosis,’ 9th World Congress of Inflammation, Tokyo, Japan; 6-10 July 2009.


‘Genetic Diversity of HLA in the Indian population,’ Department of Anthropology, University of Geneva, Switzerland; 22-25 November 2009.


Delivered the following invited lectures at Riyadh Military Hospital, Riyadh, Saudi Arabia; 13-23 December 2009.

• Journey into the World of HLA and Medicine
• Comprehensive Antibody Repertoire Screening in LRD Renal Transplantation
• Clinical Relevance of Cytokine Gene Polymorphism on Post Transplant Renal Allograft Survival
• Hematopoietic Stem Cell Transplantation: Recent Developments
• Genetic Diversity of HLA: Population Level and Tribal Group
• Comparative Genomics of Disease associated HLA-DR3 Haplotypes in Type 1 Diabetes: Caucasian vs. Asian Indians
• Strategies in Medicine and Biology : Can Man Live for 150 Years?

Dr. D.K.Mitra

‘Local Immune Response in Chronic Intracellular Infection,’ LAH Symposium on Immunology, Stanford University School of Medicine, California, USA; 7-10 November 2009

Visiting Guest Speaker, School of Medicine, UC Davis School of Medicine, California, USA; November 2009.

Dr. Uma Kanga


Dr. Gurvinder Kaur

‘Host Genetics in HIV-1 Infection,’ 33rd Australasian South East Asian Tissue Typing Association (ASEATTA 2009), New Delhi; 12-15 November 2009

‘Advances in Transplant Molecular Diagnostic Histocompatibility & Immunogenetics,’ Recent Advances in Technologies in HSCT and Organ Transplantation, Riyadh Military Hospital, Saudi Arabia; December 2009.


‘Evolutional Medical Science: Identification of HIV/AIDS related Genes to Develop Therapeutic and Preventive Strategies,’ Tokyo Medical and Dental University, Tokyo, Japan; 3-7 March 2010.
RESEARCH

Funded Projects

Completed:

Studies on T Cell Mediated Suppression of Immunity in Visceral Leishmania Patients. DK Mitra. Funded by Department of Biotechnology (DBT) (completed on February 2010).

ICMR-INSERM Project on Type 1 Diabetes. NK Mehra. Funded by Indian Council of Medical Research (ICMR) for 5 years (2004-2009). Funds: Rs.120.20 lakhs.

Ongoing:

Monitoring T Cell Activation Markers and Cytokine Production following Allogenic Renal Transplantation. NK Mehra. Funded by ICMR for 3 years (2005-08). Funds: Rs. 17 lakhs.

Program Support for Advanced Program in Histocompatibility and Immunogenetics (PS-APHTI) NK Mehra. Funded by DBT for 3 years (2005-08 extended upto March 2010). Funds: Rs.163.43 lakhs.


Type 1 Diabetes Genetics Consortium: An International Effort. NK Mehra. Funded by NIH, USA for 3 years (2005-08 extended upto 2010). Funds: Rs. 12.5 lakhs.

HLA Profile of Raica Community of Rajasthan. NK Mehra. Funded by ICMR for 2 years (2006-2008 extended upto 2009). Funds: Rs.10.08 lakhs.

Genomic Analysis of MHC Region Genes (HLA & Non HLA) in Type 1 Diabetes in the Indian Population. NK Mehra. Funded by ICMR for 3 years (2006-09). Funds: Rs. 27 lakhs.


Genetic Basis for HIV-1 Transmission Resistance and Disease Progression. NK Mehra. Funded by DBT for 3 years (2007-2010). Funds: Rs.60 lakhs.

Hematopoietic Stem Cell Transplantation and Genetics of HIV Infection NK Mehra. Tata Innovation Fellowship funded by DBT for 3 years (2007-2010). Funds: Rs. 22.20 lakhs.

Studies on T Cell Mediated Suppression of Immunity in Visceral Leishmaniasis Patients. NK Mehra. Funded by DBT for 3 years (2006-09). Funds: Rs.79.29 lakhs.

Efficacy of Oral Zinc Administration as an Adjunct Therapy in Category I Pulmonary Tuberculosis along with Assessment of Immunological Parameters (Double-Blind, Randomized, Placebo-Controlled, Multicenter Clinical Trial). DK Mitra. Funded by DBT for 5 years (2007-12). Funds: Rs.30 lakhs.


Role of Fox P3+ Regulatory T Cells in Polarized Immunity among Leprosy Patients. DK Mitra. Funded by ICMR for 3 years (2010-2013). Funds Rs.49.28 lakhs (for AIIMS Component).

PUBLICATIONS

Journals
Andrea SE, Mehra NK. Two HLA class I region SNPs are associated with leprosy susceptibility in Vietnam and India. *Hum Mol Genetics* 2009 (Epub ahead of Print).


Swapan KN, Been L, Deshmukh H, Ralhan SK, Wander GS, Mehra NK, et al. Replication of association between common variants near melanocortin-4 receptor gene and obesity-related traits in a Sikh population from Northern India. *Hum Genetics* 2009.

**Book**


**Chapters in book:**


VISITING SCIENTISTS

- Dr. Eckart Wurzner, Mayor of the City of Heilderberg and team from Germany (2 April, 2009)
- Prof. G Peters from Germany
- Prof. Peter Doherty, Nobel Laureate, Department of Immunology, St. Jude Children’s Research Hospital, Memphis, Tennessee, USA (3 November 2009)
- Dr. Jean-Yves Bonnefoy, Vice President, Research & Development Transgene, France – 10 (December 2009).
- Prof. Kumar Belarni and Dr. Paul R Bohjanen, Minnesota Centre for AIDS Research (CFAR), USA, (22 February 2010).
- An international team consisting of Prof. Moh Daha (Netherlands), Dr. Lenmart Truedsson (Sweden), Prof. Peter Garred (Denmark), Prof. Y. Sommarin (Sweden), Prof. Robert B Sim (United Kingdom), Prof. Francesco Tedesco (Italy), Prof. Tom E Mollness (Norway), and Prof. Reinhard Wurzner (Austria) visited the department in connection with an International Seminar on Complement in Health and Disease (27 February 2010).
- Prof. Ricky Richardson, Great Ormond Street Hospital, London (11 March 2010).
- Prof. Vijay Kuchroo from USA.

PATIENT CARE

Laboratory services

Transplantation

*HLA matching*

<table>
<thead>
<tr>
<th></th>
<th>Recipients</th>
<th>Donors</th>
<th>Total</th>
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<tbody>
<tr>
<td>Renal transplant</td>
<td>253</td>
<td>280</td>
<td>533</td>
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<tr>
<td>Bone marrow transplant</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Leukemia</td>
<td>41</td>
<td>112</td>
<td>153</td>
</tr>
<tr>
<td>Aplastic anemia</td>
<td>50</td>
<td>190</td>
<td>240</td>
</tr>
<tr>
<td>Acute leukemia</td>
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<td>259</td>
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<tr>
<td>Thalassemia</td>
<td>52</td>
<td>150</td>
<td>202</td>
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</tbody>
</table>

AIIMS 2009-2010 / 563
Others

<table>
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<th></th>
<th>20</th>
<th>55</th>
<th>75</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total</strong></td>
<td>228</td>
<td>701</td>
<td>929</td>
</tr>
</tbody>
</table>

*Cadaver donor organ transplantation*

- Cadaver donor: 15
- Kidney recipients: 10
- Heart recipients: 0

*Cross Match Test*

- Serology: 610
- Flowcytometry: 134
- Panel reactive antibody (PRA) screening: 625
- Luminex PRA: 20
- ELISA PRA: 113

*Diagnostics*

- *Spondyloarthropathies*: 1376
- *Other diseases*
  - Chimerism studies in BMT: 50 recipient donor pairs
  - Immunophenotyping of leukemia patients: 81

*Unrelated Donor search for BMT*: 350

During the year, a total of 278 requests for search of unrelated HLA matched donor from the ‘Asian Indian Donor Marrow Registry’ for bone marrow transplantation (BMT) were received. These include 100 from USA, 85 from Europe, 63 from various Asian countries and 30 from India.

**AWARDS AND HONOURS AND SIGNIFICANT EVENTS**

Prof NK Mehra is a member of the Editorial Boards of Indian Journal of Leprosy, Indian Journal of Transplantation, and Journal of Laboratory Physicians. He is a member of the following: Board of Studies in Human Genomics of Punjab University, Chandigarh; Research Advisory Committee of Centre for Liver Research and Diagnosis (CLRD), Hyderabad; DBT Expert Group for Selection of Scientist C & D posts, NARI, Pune; National Apex Committee for Stem Cell Research & Therapy (NAC-SCRT); ICMR Project Research Group on Diabetes; DBT Task Force on Stem Cell and Regenerative Medicine; Scientific Advisory Committee of NICED, Kolkata; Scientific Advisory Committee, Institute of Pathology; DHR Core Advisory Committee on Establishment of Advanced Centres on various aspects of Medicine in different Medical Institutions in the country; and the Ethics Committee of B.L. Kapoor Memorial Hospital. He was an Invited Speaker at the 11th Congress of the Asian Society Of Transplantation (CAST 2009), Beirut, Lebanon. He was a Visiting Professor to the Department of Medical Studies, Riyadh Military Hospital, Riyadh, Saudi Arabia (Dec.18-25, 2009). Member,
Dr. Uma Kanga serves as a Councillor for the ‘Australasian and South East Asian Tissue Typing Association (ASEATTA).

Dr. Prabhat K Sharma received the Dr GP Talwar Young Scientist Award of the Indian Immunology Society-2009.
EDUCATION

The faculty of the department participated in and delivered lectures in continuing medical education programmes, symposia, national and International conferences during the year.

The Department imparted lectures for the undergraduates and nursing students. The department trains 11 postgraduates for the degree of MCh in Urology over a 3 year period.

The department had observers and postgraduate students in Urology from various Indian medical colleges and abroad to observe and learn robotics, endourology, laparoscopy and microsurgery in Urology.

The faculty of the department continues to be examiners for NBE and MCh Urology in various universities and inspectors for the Medical Council of India and National Board for recognition of standard of examination and facilities for Urology postgraduate courses.

CONTINUING MEDICAL EDUCATION

Conducted by the Department

• The department organized an ‘International Symposium, Workshop and Hands-on Training on Diseases of the Prostate Gland’ on 3-4 April 2009 at AIIMS. Over this two day period, a wide variety of surgical procedures for diseases of the prostate were demonstrated. This included robotic radical prostatectomy, bipolar trans-urethral resection of the prostate (TURP) and a number of different lasers used for benign prostatic hypertrophy. The operative workshop was transmitted live to the auditorium with two-way communication with the audience.

• The department organized a ‘Mock Examination’ for postgraduate trainees (MCh and DNB) in Urology for the Urological Society of India from 22-24 March 2010 at AIIMS. Eighty postgraduates were registered for this program and over 15 faculty members from various parts of the country conducted examinations in the standard pattern. A live operative demonstration was also given of common urological procedures.
• The department organized a ‘Monthly Clinical Meeting’ of the Delhi Urological Society on 30 January 2010 at AIIMS

**Participated as invited Faculty in CME Programs**

**Prof NP Gupta**

• Resource person for the Continuing Urology Education (CUE) programme of Urological Society of India, Hyderabad, 13-14 June 2009.


• Resource person for the Joint Course of European School of Urology & Asian School of Urology, Bali, Indonesia; 3-6 December 2009.

• Resource person for the Uro-Laser Workshop, Hyderabad, 22-23 January 2010.


**Prof PN Dogra**

• ‘Role of Medical Vs. Surgical Management of Benign Prostatic Hypertrophy (BPH),’ International Symposium, Workshop and Hands-on Training on Diseases of the Prostate Gland, New Delhi, 3-4 April 2009.

• Demonstrated ‘Urethroplasty’ in Live Operative Workshop on Reconstructive Genitourinary Surgery and Laser Prostatectomy, Delhi; 8-9 August 2009.

• Chairperson for Live Operative Workshop on Reconstructive Genitourinary Surgery and Laser Prostatectomy, Delhi, 8-9 August 2009 & Amritsar, 2 October 2009.

• Chairperson for a debate on ‘There is no evidence for Medical Management of Idiopathic Oligoasthenospermia,’ North Zone Urological Society of India Conference (NZUSICON), Amritsar, 4 October 2009.

• Chairperson for a Symposium on ‘Role of Uprima in Management of Erectile Dysfunction,’ New Delhi, 20 March 2010.

**Dr Amlesh Seth**

• Faculty for USI Mock Examination for postgraduate trainees in Urology, New Delhi, 22-24 March.

• ‘Anatomy of the Prostate,’ International Symposium, Workshop and Hands-on Training on Diseases of the Prostate Gland, AIIMS, New Delhi, 3-4 April, 2009.

• Demonstrated ‘Trans-urethral Resection (TUR) for Multiple Bladder Tumors,’ New Delhi, 3-4 April 2009

• ‘AIIMS Experience of Management of Renal Cell Carcinoma (RCC) with Level III/IV Venous Tumor Thrombus,’ NZUSI CUE programme, UROSURGE 2010, Jhansi, 7 March 2010.
• ‘Surgery is the Standard of Care for Early Carcinoma Prostate,’ Annual Conference of RGCON New Delhi, 28 March, 2010.

Dr Rajeev Kumar

• ‘Premalignant Pathology of the Prostate’ International Symposium, Workshop and Hands-on Training on Diseases of the Prostate Gland, New Delhi, 3-4 April 2009.

• ‘Getting past the Reviewers’ Workshop on Scientific Communication, University College of Medical Sciences (UCMS) and Guru Teg Bahadur (GTB) Hospital, New Delhi, 6 April 2009.


• Resource person for American Urological Association (AUA)/Urological Society of India (USI) Instructional Course and Mock Examination, Mumbai, 28-30 September 2009.


• Demonstrated Percutaneous Nephro Lithotripsy (PCNL) at the USI Mock Examination for postgraduate trainees in Urology, New Delhi, 22-24 March 2010.

NATIONAL AND INTERNATIONAL CONFERENCES

Lectures delivered

Prof NP Gupta


• Resource Person for the 17th Annual Meeting of the Federation of ASEAN Urological Association with 5th Asian Symposium, Ho Chi Min City, Vietnam; 3-6 June 2009.


• ‘Robotic Pyeloplasty,’ 20th Video Urology World Congress, Kuala Lumpur, Malaysia; 23-26 July 2009.

• ‘Robotic Urologic Surgery,’ Annual Conference of Taiwan Urological Association, Taiwan; 29-30 August 2009.

• Resource person for the Societe Internationale d’Urologie Congress, Shanghai, China, 1-5 November 2009.

• Resource Person for the Annual Conference of Urological Society of India, Agra, 3-7 February 2010.
• ‘Robotic Radical Prostatectomy,’ RGCON-2010, New Delhi, 26 March 2010.

Prof PN Dogra
• Video lectures on ‘Robotic Pyeloplasty and Radical Nephrectomy,’ in SELSI South Zone Conference - 2009, Chennai, 4-6 September 2009.
• Resource Person for the Advance-2010 International Robotic Urologic Symposium Las Vegas, USA; 15-17 January 2010.
• Resource person for 8th Evidence Based Management of Urological Cancers, Mumbai, 26-28 February 2010.

Dr Amlesh Seth
• ‘Impact of Vessel Sealing Device on Outcome of Radical Cystectomy,’ (Seth A, Gupta NP), Societe Internationale d’Urologie Congress, Shanghai, 1-5 Nov, 2009.
• ‘Survivin: A Novel Target for Diagnosis of Urothelial Carcinoma of the Bladder,’ (Seth A, Gupta NP), Societe Internationale d’Urologie Congress, Shanghai, 1-5 Nov, 2009.
• ‘Malignant Adrenal Pheochromocytoma with Atriocaval Thrombus,’ (Seth A, Gupta NP), Societe Internationale d’Urologie Congress, Shanghai, 1-5 Nov, 2009.
• ‘Leiomyosarcoma of Inferior Vena Cava involving the Renal Veins: A Surgical Challenge,’ (Seth A, Gupta NP), Societe Internationale d’Urologie Congress, Shanghai, 1-5 Nov, 2009.
• ‘Current Status of Management of Castration-Refractory Carcinoma Prostate,’ Annual Conference of USI, Agra, 3-7 February 2010.
• Expert for the panel discussion on ‘Difficult cases of Castratation Refractory Carcinoma Prostate,’ Annual Conference of USI, Agra, 3-7 February 2010.

Dr Rajeev Kumar
• Moderated a session on ‘Current Controversies in Men’s Health,’ IAUA Annual Meeting, Chicago, USA; 25 April 2009.
• ‘What a Gynaecologist should know about Male Infertility,’ 18th Annual Conference of NARCHI, New Delhi, 5-7 September 2009.
• Participated in a debate ‘There is no evidence for Medical Management of Idiopathic Oligoasthenospermia,’ North Zone Urological Society of India Conference (NZUSICON), Amritsar, 2-4 October 2009.


• ‘Case-based Discussion on Male Infertility in India,’ Andrology Sub-specialty Program, 43rd Annual Conference of the USI, Agra 3-7 February, 2010.

• ‘Unexplained Male Factor Infertility,’ 5th Annual Conference of Indian Fertility Society, New Delhi, 5-6 February, 2010.

RESEARCH
Funded Projects
Ongoing
• Evaluation of Oxidative Stress as a Cause for Idiopathic Male Infertility and the Role of ‘Addyzoa’ in its Treatment: Randomised, Double Blind Placebo Controlled trial. Rajeev Kumar. Funded by: Charak Pharmaceuticals (2009-2011). Funds: Rs. 5.6 lakhs

Completed
• Molecular Analysis of Gene Markers in Urine Cytology and Tissue Histology Specimens of Indian Patients with Superficial and Muscle Invasive Transitional Cell Carcinoma of Urinary Bladder. Amlesh Seth. Funded by Indian Council of Medical research (ICMR) (2009-2010). Rs. 10 lakhs.

Departmental Projects
Ongoing
• A post-marketing surveillance study of intra-vesical BCG vaccine (Serum Institute of India Ltd-ONCO-BCG) in carcinoma-in-situ and in intermediate- and high-risk Ta, Ta1 transitional cell carcinoma of urinary bladder.

• Urethroplasty for anterior and posterior urethral strictures: different techniques.

• Core-through urethrotomy for traumatic obliterative urethral stricture.

• Evaluation of robotic radical prostatectomy.

• Evaluation of robotic pyeloplasty, ureteroneocystostomy and repair of urinary fistula.

• Evaluation of robotic radical cystectomy.

• Discordant clinical and fine needle aspiration cytology (FNAC) findings in suspected obstructed azoospermia: surgical and pathological correlation.

• Causes of negative surgical explorations in men with obstructive azoospermia.

Completed
• Simplified two-layer vasoepididymostomy for vasectomy reversal: evaluation of a new technique.

• Superior calyceal access in pediatric PCNL: safety and efficacy.
Collaborative Projects

Ongoing

- Role of PET CT in carcinoma bladder (with Department of Nuclear Medicine).
- Cholesterol homeostasis and expression of cell cycle proteins (Cyclin E & CDK2) in normal prostate, benign prostatic hyperplasia and carcinoma prostate cases: a pilot study (with Department of Biochemistry).
- Mitochondrial genes and Y chromosome deletions in male infertility (with Department of Anatomy).
- 3-dimensional chemical shift imaging and diffusion weighted imaging using Proton Magnetic Resonance Spectroscopy (MRS) in the diagnosis of carcinoma prostate (with Department of NMR)

PUBLICATIONS

Journals


Hemal AK, Nayyar R, Gupta NP, Dorairajan LN. Experience with robot assisted laparoscopic surgery for upper and lower benign and malignant ureteral pathologies. Urology 2010 Mar 27. [Epub ahead of print]


• Satyam A, Singh P, Badjatia N, Seth A, Sharma A. A disproportion of T(H)1/T(H)2 cytokines with predominance of T(H)2, in urothelial carcinoma of bladder. Urology Oncology 2009 Oct 16. [Epub ahead of print]


• Sobti RC, Thakur H, Gupta L, Janmeja AK, Seth A, Singh SK. Polymorphisms in the HPC/ELAC-2 and alpha 1-antitrypsin genes that correlate with human diseases in a North Indian population. Mol Biol Reports 2010 Feb 2. [Epub ahead of print]


**Book Chapters**


**AWARDS & HONOURS**

**Prof NP Gupta** was conferred an Honorary degree of Doctorate of Science (DSc) by Rani Durgawati Vishwavidyalaya on 24 October 2009. He was also conferred the Ranbaxy Award on clinical research on 4 Nov, 2009

**Prof PN Dogra** delivered the Dr. P.N. Kataria Memorial Oration on NZUSICON – 2009 at Amritsar (2 October). He was also awarded the “Rashtriya Gaurav Award” by India International Friendship Society on 10 October 2009.

**Dr Amlesh Seth** was awarded a WHO fellowship for a short-term training on Epidemiology and Biostatistics at Prince of Songkhla University, Thailand (6 October – 14 November 2009). He served as the organising secretary for the USI Mock Examination for postgraduate trainees in Urology New Delhi, 22-24 March 2010). He is a peer reviewer for a number of journals - Indian Journal of Urology, Indian Journal of Medical Research, Indian Journal of CTVS.

**Dr Rajeev Kumar** was selected to represent India at the Leadership Workshop of the Asian School of Urology at Kyoto, Japan. He was appointed the Editor for the 20th Anniversary Monograph of the Urological Association of Asia. He served as the Convenor of the Scientific Content Committee of the North Zone Chapter of Urological Society of India; as Organizing Secretary of the International Symposium, Workshop and Hands-on Training on Diseases of the Prostate Gland (New Delhi, 3-4 April 2009); and as a Treasurer for the USI Mock Examination for postgraduate trainees in Urology (New Delhi, 22-24 March 2010).

**COMMUNITY SERVICE**

The faculty of department of Urology participated in the following community service:

• Dr NP Gupta delivered a talk on Delhi Doordarshan

• Faculty from the Department of Urology participated in medical camp services in Kargil and Leh in the state of Jammu & Kashmir.
PATIENT CARE

1. Main Hospital OPD
   New Cases 13384
   Old Cases 28817

2. BRAIRCH Uro-malignancy clinic
   New Cases 402
   Old Cases 1198

3. Admissions: 5184

Surgical procedures: 7676

1. Main OT:
   Open procedures: 261
   Endourology: 888
   Lower tract: 561
   Upper tract: 327
   Percutaneous renal surgery: 180
   Ureterorenoscopy: 147
   Microsurgery: 69
   Laparoscopic Surgery: 84
   (40 Laproscopic donor nephrectomies in collaboration with Surgery Unit-II)
   Robotic Surgery: 130
   Radical Prostatectomy: 47
   Pyeloplasty: 62
   Others: 21
   Others: 220

2. Minor OT: 6024
   Cystoscopy: 1946
   Minor Cases: 4078

Extra-corporeal Shock Wave Lithotripsy (ESWL): 864
   New cases 306
   Re-do cases 558
<table>
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<td>Uroflowmetry</td>
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<td>Cystometrogram</td>
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<td><strong>Ultrasound procedures:</strong></td>
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</table>
10.1 Cardiothoracic Sciences Centre

Chief
Balram Airan

Professor A. Sampath Kumar retired on 1st October 2010 as Chief Cardiothoracic Centre. Prof. Balram Airan assumed the charge of Chief Cardiothoracic Centre on 3rd October 2010 with retrospective effect from 1st May 2008.

CARDIOTHORACIC AND VASCULAR SURGERY

Professor and Head
Balram Airan

Additional Professors
U.K. Chowdhury
S.K. Choudhary
A.K. Bisoi

Associate Professors
Milind Hote
Sachin Talwar
V. Devagourou

CARDIOLOGY
Professor and Head
V.K. Bahl

Professors
Anita Saxena
Balram Bhargava
S.S. Kothari
K.C. Goswami

Additional Professors
R. Juneja
R. Narang

Associate Professors
S. Mishra
S. Seth
S. Singh
G. Karthikeyan
Rakesh Yadav
Gautam Sharma

Assistant Professors
Ambuj Roy
S. Ramakrishnan

CARDIAC ANAESTHESIA

Professor and Head
Usha Kiran

Professor
Sandeep Chauhan

Associate Professor
Neeti Makhija
Poonam Malhotra
Minati Choudhury

AIIMS 2009-2010 / 577
Assistant Professor
Shambhu Nath Das
Parag Gharde
Vishwas Malik

BLOOD TRANSFUSION SERVICES
Chief Medical Officer and In-charge
Anjali Hazarika

Senior Technical Officers
Kalpana Misra
Bijay Majhi
Suresh Kumar
Gulshan Mehta
G.S. Chauhan
Avdesh Kr. Tangri
P.S. Rajput
Anita Rani

CARDIAC RADIOLOGY
Professor & Head
Sanjiv Sharma

Associate Professor
Gurpreet Singh Gulati

Assistant Professor
Priya Jagia

NUCLEAR MEDICINE
Associate Professor
Chetan D. Patel

STEM CELL FACILITY
Assistant Professor
Sujata Mohanty

CARDIAC PATHOLOGY
Professor
Ruma Ray

CARDIAC BIOCHEMISTRY
Associate Professor
R Lakshmy

ORGAN RETRIEVAL BANKING ORGANISATION (ORBO)
Associate Professor
Aarti Vij
EDUCATION

CARDIO-THORACIC VASCULAR SURGERY

Training

The following Cardiac Surgeons, Physiotherapist, Cardiac Operation Theatre (Technicians) have undergone Short Term Training at the Department of CTVS.

1. Lt Col (Dr) Sameer Kumar Army Hospital (R&R) Hospital, Delhi Cantt. New Delhi
2. Dr. Hakeem Zuber Ashraf from Jammu & Kashmir, Soura Srinagar.
3. Dr. Zaur Hussain from Jammu & Kashmir, Soura Srinagar
4. Ms. Shivani Sharma from Sector 16, NOIDA U.P
5. Ms. Kanika Bhardwaj from Meerut Road, Ghaziabad (UP)
6. Mr. Sajith K.R. Cardiac Nursing (CT Centre) from Sruthi College of Nursing Gullapailli, Guntur District (AP).
7. Dr. Dhirender Kumar physiotherapist from Safdarjung Hospital.
8. Dr. Sunny physiotherapist from Bansarsi Dass Chandiwala Institute, I.P. University, New Delhi.
9. Dr. Neha Aggarwal physiotherapist from Banarsi Dass Chandiwala Institute, I.P. University, New Delhi.
10. Dr. Minaxi physiotherapist, MPT student Jamia Hamdard, New Delhi.
12. Dr. Pawan physiotherapist MPT student Jamia Hamdard, New Delhi.
13. Dr. Ahad Babu physiotherapist MPT student Jamia Hamdard, New Delhi.
14. Dr. Rahul Yadav physiotherapist CCS University Meerutt.

National and International Conferences

1. Prof. Balram Airan was invited to chair a session on “Percutaneous Valve Implantation” in the ISMICS-09 Annual winter Workshop on 11th December 2009 at Gurgaon,
2. Prof. Balram Airan was invited to attend 11th Annual Conference of Pediatric Cardiac Society of India 23rd-25th October 2009 at PGIMER, Chandigarh.
3. Prof. Balram Airan was invited to deliver a talk on “Fontan Principles of Surgery” during the Cardiac CT CME organized by SMS Medical College & Hospital, Jaipur from 11th to 13th September 2009.
4. Prof. Balram Airan was invited to deliver 18th Dr. K.G. Deshpande Memorial Oration on behalf of the Oration Committee of Cardiological Society of India, Vidharbha Chapter, Nagpur on 13th September 2009.
5. Prof. Balram Airan was invited to deliver a talk during 2nd World Heart Failure Congress 2010 on “Heart Transplantation in India” at PGIMER, Chandigarh 5-7th February 2010.
6. Prof. Balram Airan Participated in STICH Investigator Meeting held at Munich, Germany.

7. Prof. Balram Airan was invited & delivered a talk on “Donor maintenance” during workshop on “Cadaver Donation Process” organized by ORBO held at AIIMS, New Delhi.

8. Prof. Balram Airan was invited & delivered “PROFESSOR K.V. NAIDU MEMORIAL ORATION” during AP CSI 16th Annual Conference at Hyderabad.

9. Prof. Balram Airan was invited & participated as an expert in Health Programme live telecast by Doordarshan News, New Delhi on “Heart Transplant”.

10. Prof. Balram Airan was invited & delivered a guest lecture on “Cardiac Surgical ICU” at SASHCON-2008, AIIMS, New Delhi

11. Dr UK Choudhary, Additional Professor of CTVS was invited to 46th Annual Meeting of the Society of Thoracic Surgeons, January 25-27, 2010, Fort Lauderdale, Florida, USA and presented a paper on Histopathology of Ascending Aorta and the Risk factors related to Histopathological conditions and Aortic Dilatation in Patients with Tetrology of Fallot.

12. Dr Sachin Talwar Associate Professor of CTVS attended the 23rd annual meeting of the European association for cardiothoracic surgery at Vienna, Austria, Oct 17-21, 2009 and presented a paper on “Effect of pre-operative administration of allopurinol in patients undergoing surgery for valvular heart diseases”.

13. Invited to attend the annual Conference of the Endocrine Society of India at Udaipur, 9-10th Oct 2009 and presented a paper on: Effect of Cardio-Pulmonary Bypass on Serum Thyroid Hormone Profile of Children with Congenital Heart Disease”.

14. Invited to the 11th Annual conference of the Pediatric Cardiac Society of India, at Chandigar and delivered an invited lecture on “The Hemi-Fontan operation: where do we stand today?”


17. Delivered an invited lecture on” Cardiac Surgery basics for the budding cardiologist” at the AIIMS Pediatric Cardiology CME, Delhi, March 13-14, 2010.

**CARDIOLOGY**

CME, seminars, workshops Organized

1. **AIIMS Pediatric Cardiology CME 2010** organized by Department of Cardiology on 13 & 14 March 2010 at Ramalingaswami Board Room, AIIMS.

2. **Professor Philip Poole Wilson Heart Failure Research Symposium** Organized jointly by the Department of Cardiology, AIIMS, and Imperial College / Royal Brompton Hospital London on 2nd March, 2010 at Ramalingaswami Board Room, AIIMS.
National & International Conferences

Lectures Delivered

V K Bahl
1. Infective endocarditis – delivered at American College of Cardiology (ACC 2010) held at Atlanta USA.

Anita Saxena
1. 3D Echo in Pediatric cardiology – Annual Conference of Pediatric Cardiac Society of India, Chandigarh, 2009.
3. 16\textsuperscript{th} Annual Conference of “The Indian College of Cardiology”, Lucknow Oct-Nov 2009.
5. Member of expert group on “Is a Group A Streptococcal Vaccine desirable and feasible?”

SS Kothari
Transposition of great arteries – Annual Conference of Pediatric Cardiac Society of India, Chandigarh, 2009.

Balram Bhargava
4. Medical Device Innovation: Moving up the value chain. First National meeting on Medical Devices; Federation of Indian Chambers of Commerce and Industry, New Delhi 2009.
5. Litigation in medicine. Annual Cardiological Society of India (Delhi Branch), New Delhi 2009.
7. Stem Cells In Cardiology: What the Clinician needs to know? Annual Cardiological Society of India (CARDICON), Lucknow, 2010.
8. Review of other DES in widespread use in India. What are the data. India Live. New Delhi 2010

R Juneja
Annual Conference of Pediatric Cardiac Society of India, Chandigarh, 2009

Sandeep Mishra
Hot to do LIMA interventions – at China Intervention Therapeutics 2009
S Ramakrishnan

Imaging in VSD with AR – Annual Conference of Pediatric Cardiac Society of India, Chandigarh, 2009.

CARDIAC ANAESTHESIA

DM Cardiac Anaesthesia

In DM Cardiac Anaesthesia Programme four new candidates were selected including one sponsored. Two DM candidates passed the examination successfully in June 2009 and two in Dec 2009. At present nine are pursuing DM Cardiac-Anaesthesia course. Three of the nine DM students are sponsored candidates, two of them are Lt. Col. from the Armed forces.

P.G. Training

This year 8 postgraduate students from the department of General Anaesthesia, AIIMS were posted for a period of one and a half months each for training in cardiac anaesthesia One DM Candidate from Sree chitra Institute of Medical Sciences was given short term training. One PDCC candidate from Varanasi also completed short term training.

International Short term Surperspeciality Training

One faculty member Dr. Jimmie Kabugi member from Kenya Africa has completed one year of ‘Hands on’ training in cardiac anaesthesia on 21st Feb 2010.

M.Sc. Perfusion Technology

5 new candidates joined MSc. perfusion technology. A total of 9 candidates are undergoing MSc perfusion technology at present.

Lectures delivered

Dr. Usha Kiran

2. Safety in Anaesthesia “Chaired the session during Annual Conference of ISA Delhi branch on 4th April’2009.
3. On Parkinson’s day – 4th April. Parkinson related associated network PRAN” annual Conference Inaugural session” spiritual exercises were narrated At AIIMS. New Delhi.
5. Guest lecture in Shankar Natralaya, Chennai on the topic “Meditation and spirituality for preventing and management of diseases” on 14th May 2009.
6. During The World Congress on preventive and clinical cardiology on 2nd Oct’2009 at Akshar Dham, chaired a session ‘spirituality for preventive aspect of cardiology’.
7. A talk on “Ethical conflicts in Medical Sciences” at Mount Abu on 28th July 2009 during a National Conference on Mind Body Medicine.
10. A talk on “Healing Head and Heart” at Mount Abu, on 27th July’2009 during National Conference on Mind Body Medicine.

11. Invited faculty for a talk on the topic “Art of living and stress management” on 11th July 2009, at National Board of Examination, Dwarka, New Delhi.


15. In the Ist Annual Conference of Indian College of Anaesthesiology chaired a session of “Anaesthesia in patient with Transplanted organs”. On 21st Nov’2009 at New Delhi.


17. Gave a talk on “Anaesthesia Challenges in a child with congenital heart disease”, at Thane, Mumbai, during the Annual Conference of Regional branch of ISA. On 13th Dec’2009.

18. A talk on “whole body hypothermia”. Do we still need it, 50 years later? At Annual Conference of IACTA, Kolkata, on 28th Feb’2010.


21. Gave a talk on “Use of Transesophageal echocardiography in congenital Heart disease” at PGI, Chandigarh on 19th Feb’2010 at 4th TEE and critical care Workshop.

**Dr. Sandeep Chauhan**


2. Guest lecture” Left ventricular systolic function “ at 4th TEE and critical care workshop at PGI Chandigarh 20th Feb’2010.

3. Guest lecture “ Physiology of one lung ventilation” at 57th ISA conference at Chennai 26-29 Dec 2009.


**Dr. Neeti Makhija**

1. Delivered guest lecture on “Acute renal injury in perioperative period. What can be done to minimize it and management of the same “ in the 11th annual national conference of Paediatric Cardiac Society of India, held at PGI, Chandigarh from 23rd-25th October 2009.
2. Delivered lecture on “Newer Anaesthesia Workstations. Do they really improve safety” in the 57th Annual National Conference of Indian Society of Anaesthesia (ISACON) held at Chennai from 26th to 30th December 2009.


4. Was an invited panelist in the panel discussion on “Post infarction ventricular septal rupture” in thirteenth annual national conference of Indian Association of Cardiac and Thoracic Anaesthesia (IACTA), held at Kolkata from 26th to 28th Feb 2010.

Dr. Poonam Malhotra Kapoor


2. Guest lecture on “Video presentation on cardiopulmonary bypass” in Post Graduate Assembly on 7th September 2009 at UCMS and GTB Hospital, New Delhi.

3. Delivered a guest lecture on “Differences in cardiopulmonary bypass in off pump and On Pump CABG” in Post Graduate Assembly on 7th September 2009 at UCMS and GTB Hospital, New Delhi.


5. Guest lecture on “Newer modalities to estimate fluid status in intensive care” at RSACPCON Conference on 9th to 11th October 2009 at Army Medical College, New Delhi.

6. Invited as guest faculty on “Anaesthetics and neuro cognitive performance of patients undergoing CABG” during Scientific Conference on 3rd November 2009 at National Brain Research centre, Gurgaon, NCR.

7. Presented a protocol for project on “Molecular mechanisms underlying ischaemic preconditioning during CABG: A baseline study” during European Union Conference on 4th – 6th November 2009 at Jawaharlal Nehru University, New Delhi.


10. Guest lecture on “Is the PAC Passe: Exposing the data for continued (mis) use: PRO as faculty. ISMICS winter conference on 12th December 2009 at Medanta, The Medicity Gurgaon, NCR.


13. Guest lecture in PRO-CON session on “Diastolic dysfunction measurement has no relevance to actual perioperative management of patients: CON”

Dr. Minati Choudhury

Dr. Sambhunath Das

Dr. Vishwas Malik
3. Panel Discussion on “Milrinone Extended usage in ICU” at Indian Association of Cardiothoracic Anaesthesia Annual Conference from 26th to 28th Feb’2010.

BLOOD TRANSFUSION SERVICES
1. Short term training (3 months) provided to 1 trainee.
2. Three in–house training sessions held in the department on various topics.

CARDIAC RADIOLOGY

Dr. Sanjiv Sharma
1. External Examiner for M.Sc Medical Tech (Radio-diagnosis) part II & viva voce examination to be held on 1st May, 2009 in PGI, Chandigarh.
2. CME on Vascular malformations head to toe and be a trainer on peripheral angioplasty and stenting: Lecture on the Imaging and endovascular management of Pulmonary AVM’s on 13th and 14th June, 2009 at Coimbatore.
3. Attended Annual meeting of Cardiovascular and Interventional Radiological Society of Europe on September 19-23, 2009 and oral presentation on “Imaging appearances and role of magnetic resonance imaging in the diagnosis of restrictive heart disease caused by endomyocardial fibrosis”

4. External Examiner for MD Radiodiagnosis practical examination held on 9th June, 2009 in IG Medical College, Shimla.


6. 5th Reach Monitoring Committee Meeting Of The Prestigious Project I.E. “Tifac-Core In Interventional Radiology Under Mission Reach Programme Of Tifac, Department Of Science And Technology On 24th July, 2009 In Wardha

7. Attended a symposium on “Endovascular Treatment of Aortic Aneurysm & Dissections from 3rd -4th July, 09 and give a talk and case presentation on:Interactive Case Presentation-TAA, Interactive Case Presentation-Type B Dissection and Imaging of Endoleak & Management

8. Faculty and deliver a lecture on “Cardiac MRI in Congenital Heart Disease” in ‘XIth annual meeting of PCSI’ on 23-25th October, 2009 in Chandigarh.

9. Attended the meeting outs in the treatment of Thoracic Aortic Pathologies at Graz, Austria and Annual meeting of European Society of Cardiovascular and Interventional Radiology at Lisbon on 8th September, 2009

10. Lecture on “Chest X-ray in Heart Disease” and “Imaging of Congenital Heart Disease” in IIIrd series of AIIMS-MAMC PGI Imaging Courses on Chest &Cardiovascular-Radiology on 7th November, 2009 at Maulana Azad Medical College, New Delhi.

11. Delhi Endovascular Club Meeting At India Habitat Centre, New Delhi On 18th December, 2009, New Delhi.


**Dr Gurpreet S Gulati**


3. “Practical cardiac MRI” workshop, Amrita Institute of Medical Sciences, Cochin, June 27, 2009. Presented lecture on “MRI for Pericardial disease and cardiac masses”


5. 12th Annual conference of the Indian Society of Vascular and Interventional Radiology, 7-10th October, 2009, Delhi. Presented 2 lectures and 4 papers (2 oral- endovascular aortic pseudoaneurysm and type b dissection; 2 posters: iron oxide and endovenous laser)
6. Annual conference of Pediatric Cardiac Society of India, October 23-25, PGI, Chandigarh. Presented a talk on “MRI in Congenital Heart Disease”.

7. 16th Annual Conference of the Indian College of Cardiology, 30th October-Nov 1, 2009, Lucknow. Presented talk on “MRI in CHD”.


9. AIIMS-MAMC-PGI Imaging Course: Chest and Cardiovascular Imaging, Nov 6-7th 2009, Delhi. Presented 2 lectures (Imaging in Ischemic Heart Disease and Imaging in Cardiac and Paracardiac Masses), and co-conducted the Film Reading Session.


11. Prof Philip Poole Wilson Symposium on Heart Failure, March 2, 2010 at AIIMS. Imaging in Heart Failure. Moderator and Reporteur.

12. AIIMS Paediatric Cardiology CME, March 13-14, 2010 at AIIMS, Delhi. Delivered talk on “CT and MR in CHD”.

Dr Priya Jagia


5. 7th National Conference Indian Society of Pediatric Radiology 2009 held on 12th -13th September, 2009, Hotel Le Meridien, New Delhi, India. Lecture on “Role of MRI in Congenital heart disease”.


CARDIAC NUCLEAR MEDICINE

1. No. of Postgraduate students: 3 (training of post graduates on rotational basis in Nuclear Cardiology)

2. No. of Thesis/research papers completed: 2
3. No. of lectures for postgraduate students: 10
4. Moderator in Journal Club/Seminars: 10
5. No. of lectures for undergraduate/paramedical: 0
6. No. New thesis started: 3

**STEM CELL FACILITY**
1. Undergraduate, post graduate, paramedical:
   i. The department participates in Ph.D programme
2. Short and Long Term training:
   ii. Seven graduate & post-graduate students have received short term training

**CME**

**CONFERENCES, SEMINAR, WORKSHOPS:**
2. Principal and Practice of light microscopy a training course with a focus on Asia, Bangalore on 7th March 2009
3. Brain Storming Meeting on Human Embryonic Stem Cells at NIRRH, Mumbai on 16th Jan, 2010

**Lectures delivered**
1. Fourth Medical Development Congress on “Stem Cell Therapy” ASSOCHEM HOUSE, New Delhi. 13 - 14 April, 2009
2. Christian Medical College, Vellore on 31 July-1 August, 2009
3. Gargi College, University of Delhi. on 6 November, 2009
4. Indian Society of Hematology and Transfusion Medicine, Department of Hematology, AIIMS, New Delhi on 19-22 November, 2009
5. CME- Stem Cell Potentials in retinal Repair and Regeneration- Clinical and Experimental Aspects, AIIMS, New Delhi on 6-7 December, 2009
6. 1st National Mesenchymal Stem Cell Symposium, Eskisehir, Turkey on 4-6 Feb, 2010
7. CGR- “Stem Cells in Neurological disorders” in the Department of Neurology, Feb, 2010

**CARDIAC BIOCHEMISTRY**
1. Two students pursuing PhD in the department
2. Co-guide for Seven MD/DM students
3. Guided 6 short term (6months) trainees
ORGAN RETRIEVAL BANKING ORGANISATION (ORBO)

Guest Lectures / Invited Lecture

1. Co-chairperson in the Session on Operations Research in Hospital Administration in the National Seminar Cum Workshop conducted by Deptt of Hospital Admin in collaboration with World Health Organisation on 7 & 8th August 2009 at New Delhi.

2. Panelist in the session on “How to make required request – a Hospital Policy” in the 24th National Eye Donation Fortnight organized by Dr. RP Centre for Ophthalmic Sciences, AIIMS on 25th August 2009.

3. Invited Lecture on “Awareness on Organ & Body Donation” at India International Centre organized by Deptt of Anatomy, MAMC & Dadhichi Dehdan Samiti and moderated by Senior Officials from Delhi Government on 26th August 2009.


7. Delivered talk on “Legal, Ethical and Administrative issues in Organ Donation – Current Scenario” in the Plenary Session on Scope of Organ Donation at Trauma Centres in the International conference TRAUMA 2009 at JPNATC, New Delhi on 15th November 2009 organised by Indian Society for Trauma dna Acute Care (ISTACR).

8. Guest Lecture on Organ & Tissue Donation & Retrieval” in the two days workshop on “Embalming Plastination & Organ Donation in Present Scenario” organized by Maulana Azad Medical College, New Delhi on 26 & 27th March 2010


Attended Conferences, Seminars, Workshops

1. Attended the 10th ISODP and 16th ETCO Organ Donation Congress from 4-6 October, 2009 at Berlin.

2. Attended 3 days workshop on “National Initiative on Patient Safety (NIPS)” at Habitat Centre organized by Deptt of Hospital Administration, AIIMS on 14-16 September 2009.

3. Attended the National Seminar Cum-Workshop on Operations Research in Hospital Administration” conducted by Deptt of Hospital Admn in collaboration with World Health Organisation on 7 & 8th August 2009 at New Delhi.
4. Attended the 24th National Eye Donation Fortnight organized by Dr. RP Centre for Ophthalmic Sciences, AIIMS on 25th August 2009.

5. Attended the “Awareness on Organ & Body Donation” at India International Centre organized by Deptt of Anatomy, MAMC & Dadhichi Dehdan Samiti and moderated by Senior Officials from Delhi Government on 26th August 2009.


7. Attended the Certificate Course on Transplant Co-ordination by National Deceased Donor Transplantation Network (NDTN) at India International Centre on 22nd September 2009.

8. Attended “Good Health –Good Life” in the Health Exhibition organized by AIIMS on 25th September 2009 at AIIMS


10. Attended the Plenary Session on Scope of Organ Donation at Trauma Centres in the International conference TRAUMA 2009 at JPNATC, New Delhi on 15th November 2009 organised by Indian Society for Trauma dna Acute Care (ISTACR).


RESEARCH

CARDIO-THORACIC VASCULAR SURGERY

Ongoing

1. Prof Balram Airan is the Principal Investigator at AIIMS, India for treatment of congestive cardiac failure (STICH Trial) – An international multicentric trial study.

2. Prof Balram Airan is the Principal investigator Centre of Excellence in Stem Cell research – A DBT funded Project.

3. Prof Balram Airan is the Principal Investigator in DBT Centre of Excellence proposal “Centre for Stem Cell Research Basic and Translational” May 2008.

4. Prof Balram Airan is the Principal Investigator in Use of autologus bone marrow stem cells for myocardium regeneration Sept 2006.

5. Dr UK Chowdhury is co-investigator in ICMR Funded Project Entitled “Myocardial preconditioning against infarction in patients undergoing coronary artery bypass surgery: A comparison of isoflurane and sevoflurane”.

6. Dr UK Chowdhury is co-investigator in ICMR funded project “Role of prognostic markers in complex congenital cardiac surgery”

7. CORONARY trial; a multinational ongoing comparison study between on pump vs off pump CABG surgery.

9. STICH Trial Study

10. Follow up results of different RVOT reconstruction techniques in pulmonary atresia.

11. Results and follow up of Hemitruncus repair


13. Use of autologous bone marrow stem cells in regeneration of damaged myocardium in patients undergoing CABG

14. Long term outcome of patients undergoing the Glenn Shunt with preservation of antegrade flow

15. Role of IABP in selected group of patients of CAD with EF <30% by haemodynamics and cardiac enzyme analysis.

16. Study of Human Mesenchymal Stem Cells with respect to its isolation, characterization and in vitro differentiation to cardiopulmonary and neuronal cell lineage.

17. Bone Tissue Engineering by growing and differentiating Mesenchymal.

18. Stem Cells on Biocomposite scaffold

19. Freedom Trial – An NIH study

20. CABG vs multivessel PTCA: Long term outcome


22. Serial semi-invasive haemodynamic assessment following pericardiectomy for chronic constrictive pericarditis

23. Study of Epidermal Stem Cells (EpISC) with respect to its isolation, characterization and in vitro differentiation

24. Comparison of Pre-operative ECMO support with post-operative ECMO support.

25. Comparison of Leucocytes reduction filter with Pall set filter used for blood priming in ASO cases of cardiopulmonary bypass.

26. Comparison of HES vs Albumin during priming of CPB circuit in patient undergoing CABG.

**Completed**

1. Idiopathic tricuspid regurgitation in pediatric and adult patient. A Retrospective analysis.

2. Comparison of Grahm Nunn’s, single patch & double patch repair in complete AVSD repair: A retrospective study.

3. Role of Nicorandil to prevent radial artery vasopasms in patients undergoing CABG using radial artery.

5. Comparison of neurological outcome after ascending and aortic arch surgery using two technique of cerebral protection, Antegrade selective cerebral perfusion (ASCP) and Retrograde cerebral perfusion (RCP).

6. Comparative study of crystalloid versus colloid as priming solution for cardiopulmonary bypass (CPB) during open heart surgery in adult patients.

7. Comparison of Neurological outcome using Alpha stat of PH. Stat blood gas management in Paediatric patient with cyanotic congenial heart disease (TOF) under going total correction with the use of CPB.

8. Comparison of the effect of combined Ultrafiltration (Pre-BUF+CUF) versus conventional Ultrafiltration in infant cardiac surgery with CPB.

9. Comparison of Blood crystalloid with blood colloid for priming in children with CCHD, undergoing Intra-cardiac repair on CPB.

**CARDIOLOGY**

**Ongoing**

1. CVD Biomarker profiling in Acute coronary events by antibodies and antigen array (Funded by – ICMR)

2. RHEUMATIC study (Funded by – ICMR)

3. Intravascular Ultrasound for severe pulmonary artery hypertension in congenital heart diseases, Department of science and technology

4. Morphology and function of platelets in Idiopathic pulmonary artery hypertension, Department of science and technology

5. Propranolol in children with VSD and Heart Failure (VSD PHF Study)

6. Tissue Doppler imaging in mitral stenosis pre and post PTMC

7. 3D echo study of rheumatic mitral regurgitation

8. 3D echo parameters as a predictor of immediate outcome of PTMC

9. Comparison of 3D echo and MRI parameters in Ebstein’s anomaly

10. Strain and Tissue Doppler Imaging in normal neonates

11. Initial study of safety and Efficacy of Betablockers in Eisenmenger Syndrome

**Completed**

1. Non-invasive detection of sub-clinical disease activity in patients with established rheumatic valvular heart disease. (Funding source – DBT )

2. Acute hemodynamic effects of tobacco chewing

3. Sleep study in Eisenmenger syndrome
4. Brain Natriuretic peptide level (BNP) estimation in Chronic constrictive pericarditis and restrictive Cardiomyopathy
5. 2, 3 DPG PET imaging in Chronic constrictive pericarditis and restrictive Cardiomyopathy
6. Prosthetic heart valve thrombosis in Children – risk factors & outcome of thrombolysis
7. Inflammatory markers in Eisenmenger syndrome
8. Strain and Tissue Doppler Imaging in TGA
9. Tissue Doppler and strain rate imaging in patients with acute hypertensive heart failure

Research

1. SPIRIT V - The SPIRIT Clinical Trial Program consists of six studies evaluating the XIENCE™ V Everolimus Eluting Coronary Stent System for the treatment of coronary artery disease. (Funded by - Abbot Vascular Inc., USA)
2. RED HF study - A double blind randomized placebo-controlled, multicenter study to assess the efficacy and safety of Darbepoetin alfa treatment on mortality and morbidity in Heart failure (HF) subjects with symptomatic left ventricular systolic dysfunction and Anemia. (Funded by - Amgen Technology Pvt. Ltd.)
3. INDICOR Trial (Funded by – B Braun)
4. STITCH (Surgical Treatment of Ischemic Heart Failure) trial (Funded by - NIH, Bethesda, MD, USA )
5. RELEASE T Study
7. Global Registry of Rheumatic Heart Disease International hospital-based registry of chronic rheumatic valvular heart disease which is currently in its pilot phase with participants from several countries in Africa and AIIMS hospital
8. VISION Registry International registry of patients undergoing non-cardiac surgery which is looking at the incidence and predictors of perioperative ischemic cardiac events in the first 30 days after surgery. The registry has participants from over 10 countries around the world.
9. UKIERI Project – A collaboration of Imperial college London and Department of Cardiology AIIMS – Inflammatory and novel biomarkers in untreated heart failure (Funded by UKIERI initiative)

CARDIAC ANAESTHESIA

Ongoing

1. ICMR Funded Project Entitled “’Role of prognostic markers in complex congenital cardiac surgery”
2. Pentoxyfylline in reducing neurocognitive decline and inflammatory response in Patient of CABG under cardiopulmonary bypass. Chief Investigator Dr. Sambhunath Das. AIIMS Research Fund.

4. Efficacy of lactate concentration gradient from right atrium to pulmonary artery in goal-directed haemodynamic management in cardiac surgical patients.

5. Brain natriuretic peptide, stroke volume variation and E/A ratio as non-invasive markers of diastolic dysfunction in patients undergoing pericardiectomy.

6. Comparison of phenoxybenzamine vs papaverine use for radial artery conduit during coronary artery bypass grafting.

7. Flotrac and its use as non-invasive cardiac output monitor in cardiac surgical patients.

8. Comparison of Tranexamic acid and Trasylol in tetrology of Fallot patients.

9. Role of myocardial Lactate and Pyruvate in high risk Cardiac surgical patients.

10. Comparison of clinical and angiographic outcome in patients undergoing on pump CABG with radial artery graft pretreated with phenoxybenzamine Vs. papaverine

11. Comparison of Tranexamic acid and Trasylol in tetrology of Fallot patients

12. Functional tricuspid regurgitation with and without tricuspid valve annuloplasty: serial echocardiographic assessment of tricuspid valve and right ventricular function

13. Role of magnesium in arrhythmia prevention in infants undergoing cardiac surgery.

14. Comparison of Etomidate versus Sevoflurance in patients undergoing CABG.

15. Comparison of thiopentone Etomidate propofol and midazolam in patients undergoing coronary artery bypass grafting (On going).

**Completed**


2. ICMR Funded Project Entitled “Myocardial preconditioning against infarction in patients undergoing coronary artery bypass surgery: A comparison of isoflurane and sevoflurane”. Funding Agency - ICMR.

3. Imbalance between Endothelin – I and Plasma Nitric Oxide products, influences the outcome in children suffering from severe pulmonary hypertension due to congenital heart disease. Chief Investigator Dr.Minati Choudhury


5. A comparative study of acute effects of inhaled Nitroglycerin with intravenous dobutamine on haemodynamics and oxygenation in adult patients with pulmonary arterial hypertension undergoing valve surgery under cardio pulmonary bypass.

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6. Inhaled nitroglycerin versus inhaled milrinone in congenital heart disease children suffering from pulmonary arterial hypertension.

7. Role of coenzyme Q10 and alpha lipoic acid in attenuating the oxidative stress and systemic inflammatory response in patients undergoing coronary artery bypass graft surgery.

8. Validation of Euro Score in Indian population – Completed and submitted in Annals of Cardiac Anaesthesia.

9. Comparison of inhaled nitroglycerin and inhaled milrinone in children suffering from severe pulmonary artery hypertension.


**Collaborative Research**

1. Effect of pulmonary circulation and low tidal volume ventilation on lung function in patients undergoing cardiopulmonary bypass-CTVS (Completed)

2. Normal aortic valve morphology in patients undergoing cardiac surgery for nonrheumatic non-aortic valve disease and normal population in Indian contest by echocardiography-CTVS (Completed)

3. Fast track cardiac surgery (On going)

**BLOOD TRANSFUSION SERVICES**

**Ongoing**

1. Dr. Anjali Hazarika was co-investigator in following project funded by DBT.
   i) Safety & efficacy of autologous stem cell in preventing amputation in patients with chronic critical limb ischaemia. (With dept of Surgery)
   ii) Production and characterization of site selected human monoclonal antibodies against the envelope glycoprotein of HIV-I (clade-C) (with Deptt of biochemistry)
   iii) SDF-1 and DC-SIGNR polymorphism and expression in HIV-I infection (with Depttt. of Biochemistry)

2. Co-guide for thesis on “Immunological characterization of HIV-1 infection in children” – (Department of Biochemistry)

3. Co-guide in dissertation on “costing of a unit of Blood & Blood components at CNC AIIMS” (Dept. of Hospital Admn.)
CARDIAC RADIOLOGY

Ongoing
1. “Induction Of Therapeutic Angiogenesis In Critical Limb Ischemia By Intra-Arterial Delivery Of Autologous Bone-Marrow Derived Stem Cells”. Funded by the Department of Biotechnology, Ministry of Science and Technology, Government of India.
2. “MRI for in vivo-tracking of iron oxide labeled mesenchymal stem cells in a rat model of heart failure”. Funded by the Department of Biotechnology, Ministry of Science and Technology, Govt of India.
4. “Safety and efficacy of endovascular delivery of autologous bone marrow derived stem cells in the management of patients with renal failure”. Ethically cleared, under consideration of financial grant by the Department of Biotechnology, Ministry of Science and Technology, Government of India.
5. “Stem Cell Therapy in Idiopathic Dilated Cardiomyopathy: A Randomized double blind controlled trial”.

Completed
1. DM (Cardiology) Project: Detection of pericardial inflammation by F-18 FDG PET-CT in chronic constrictive pericarditis”
2. MCh (CTVS) Project: “Role of Nicorandil in patients undergoing coronary artery bypass surgery using radial artery”.
3. DM (Cardiology) Project: “Atherogenesis and altered endothelial function in cyanotic congenital heart disease: role of hypoxic preconditioning”.
4. “Correlation of Clinical Disease Activity with Imaging Modalities in Takayasu Arteritis”
5. MD (Radiodiagnosis) Thesis: “Utility of Cardiac MRI in RV function evaluation in health and disease”.
6. DM (Cardiology) Project: “Value of Dual Source Computed Tomography In Assessment Of Chronic Total Occlusion Of Coronary Arteries”.
8. DM (Cardiology) project: “Study of clinical characteristics and MRI features of restrictive cardiomyopathy (RCMP) and to devise MRI criteria for diagnosis of EMF.”
9. DM (Gastroenterology) Project: “Clinical spectrum, etiology and outcomes of percutaneous angioplasty in HVOTO- Cohort prospective follow-up study.”
CARDIAC NUCLEAR MEDICINE

Ongoing


2. ‘Use of autologous bone marrow stem cells for myocardium regeneration’(2006) Funding agency - Department of Biotechnology

3. Labeling of stem cells with Technetium-99m hexamethylene propylene amine oxine (Tc99m HMPAO) and to detect the homing of stem cells in the myocardium after intra- coronary injection. (2007- ongoing) Institute funded.


5. ‘Efficacy of stem cells in improvement of left ventricular function in patients with acute myocardial infarction’ (2008 – ongoing). Funding agency - Department of Biotechnology

Collaborative Research

1. F-18 FDG in detecting ischemia at rest in patients with known coronary artery disease. (Nuclear Medicine & Cardiology)

2. Non invasive detection of Coronary artery disease: Comparison of 64 sections multidetector CT angiography and stress myocardial perfusion imaging in patients with chronic angina (Nuclear Medicine, Cardiology, Cardiac Radiology)

Guide for Thesis

1. Role of PET-CT in initial staging and post therapy assessment in patients of carcinoma ovary – Chief Guide; of Dr. RM Reddy, MD (Nuclear Medicine) submitted Dec. 2009

2. Role of F-18 FDG PET/CT in prognosis and restaging of locally recurrent cancer cervix. Co- Guide; of Dr. Sagar Maharjan, MD (Nuclear Medicine, 2008 – 2010).

3. Role of PET/CT in initial staging of locally advanced breast cancer and comparison with conventional modalities. Co-Guide, of Dr. Sanjay Kumar, MS (Surgery,2008-10).


6. Comparison of Emory, Cedar Sinai, 4D-MSPECT, Myometrix softwares for the assessment of left ventricular ejection fraction using Tc99m Tetrofosmin gated SPECT; Validation with equilibrium radionuclide angiography. Chief Guide of Sanjana Ballal, MSc. (Nuclear Medicine, 2010-12).
7. Myocardial perfusion abnormalities in children with cyanotic congenital heart diseases, more than one year after successful univentricular repair (Fontan operation) and biventricular repair (Total correction of Tetrology of Fallot). Co-Guide of Dr. A Priyadarshini, MD (Pediatrics, 2009-2011).

**STEM CELL FACILITY**

**Ongoing**

1. Isolation and expansion of Mesenchymal Stem Cells (MSC) from human bone marrow/umbilical cord and evaluation of its cardiomyogenic and neurogenic differentiation potential, Sujata Mohanty, ICMR, 3 Years, 20 Lakhs

2. Transplantation of Mesenchymal Stem Cell in animal models of Myocardial Infarction and Parkinson’s disorder, Sujata Mohanty, DBT, 44.45 Lakhs

3. Establishment of Melanocyte culture in a serum free system for transplantation in vitiligo patients, AIIMS (Institute Project).

**Collaborative Research**

1. Use of autologous bone marrow stem cells for myocardium regeneration, PI-Balram Airan, DBT, 3 yrs. Funds: 98.234 lakhs

2. Efficacy of Stem Cell in improvement of left ventricular function in patients with acute myocardial infraction; Balram Bhargava, DBT, 1.5 yrs, 26.397 lakhs

3. DBT Centre of Excellence for Stem Cell Research: Basic and Transplantation (Core Grant), Balram Airan, DBT, 5 yrs, 867.90 lakhs

4. Culture of limbal stem cell for ocular surface reconstruction in stem cell deficiency disorder, Radhika Tandon, DBT, 3 yrs. Funds: 27 lakhs

5. Induction of therapeutic angiogenesis in critical limb ischemia by intra-arterial delivery of autologous bone marrow derived stem cells, Sanjiv Sharma, DBT, 9 months. Funds: 23.097 lakhs

6. Use of Autologous Bone Marrow Derived Stem cells For Rehabilitation of patients with Dry Age Related Macular Degeneration and Retinitis Pigmentosa: A Phase-I Clinical Trial, Atul Kumar, 3 yrs, ICMR, Funds: 20.61 lakhs

7. Intravenous Autologous bone marrow stromal or mononuclear cells for patients with acute ischemic stroke: A Multi Institutional project, Rohit Bhatia, 3 yrs, DBT, Funds: 75 lakhs

8. Safety and Efficacy of Autologous Stem Cell in prevention of amputation in patients with chronic critical limb ischemia; Anita Dhar, 2 yrs, Funds: 50.65 Lakhs

9. To study the role of bone marrow derived pluripotent cells in peripheral nerve repair in adult rats, Vaishali Suri, ICMR, 30 lakhs

10. Effect of bone marrow stromal cells transplantation and magnetic stimulatationory in the secondary motor functional recovery of spinalised rats, Dr.Rashmi Mathur, ICMR, 3 yrs, Funds: 17 lakhs

11. MRI fro in- vivo tracking of iron oxide labeled Mesenchymal stem cells in a rat model of heart failure, Gurpreet Gulati, DBT, 5 yrs, 28.15 lakhs
12. Development of a potential biopolymer to serve as an alternative substrate of human amniotic membrane for ex-vivo expansion of corneal epithelial cell, Radhika Tandon, DBT, 3 yrs, 23.69 lakhs

13. Exploring the role of MHC and co-stimulatory molecules in the immune evasion mechanism of glioma stem cells, S. Vivekanandhan, 3 yrs, 22.15 lakhs

14. To evaluate the potential role of bio-polymer to support the culture of corneal epithelial cells, Namrata Sharma (Institute Project)

15. Molecular Characterization of Fanconi Anemia: a pilot study (Institute project)

**CARDIAC PATHOLOGY**

**Departmental Research**

1. Histopathological and morphometric evaluation of surgically excised specimens of thoracic aortic aneurysms.

**Collaborative Research**

1. Effect of Terminalia arjuna on Cardiac Hypertrophy in Rats (Dept. of Pharmacology).

2. Evaluation of the cardio protective effects of combination of Ramipril and Irbesartan in experimental model of ischemic-reperfusion injury in rat heart (Dept. of Pharmacology).


4. Imaging guided lung biopsy in immunocompromised patients with possible fungal pneumonia and its clinical implications (Dept. of Hematology).

5. An electron microscopic study of left ventricular muscle biopsy in patients with transposition of great arteries (Dept of Cardiothoracic surgery)

**CARDIAC BIOCHEMISTRY**

**Ongoing**

1. Relation of APOA-V gene variants to serial changes in childhood body mass index and coronary artery disease risk factors in young adulthood. Funded by ICMR for 5 yrs (2005-2010) Total funds: 35 lakhs

2. Role of Telomere shortening and Telomerase activity on EPC senescence in premature CAD patients and controls (2008-2010) DBT 28 lakhs


**Completed**

1. Lab coordinator in “Low dose magnesium sulphate regimen for management of eclampsia - a randomized controlled trial” Funded by ICMR for 3 yrs (2007-2010) Total funds: 2.5 lakhs.
2. Serum fatty acid levels and their correlation with other CVD risk factors in Industrial population from Delhi and Trivandrum Funded by ICMR for 3 yrs (2005-2009) Total funds: 14 lakhs

**Collaborative research**

1. Role of Homocysteine in Coronary Artery Disease: Genetic and Epigenetic studies. Collaboration with Cardiology and Institute of Genomics and Integrated Biology.


4. Role of oral coenzyme Q10 in patients undergoing coronary artery bypass graft surgery with Cardiac Collaboration with Cardiac Anesthesia.


8. Nutritional challenges, abdominal adiposity and type 2 diabetes in Indians. Funded by Welcome trust in collaboration with Center for chronic disease control (CCDC)

9. Association of Trans fatty acid and CAD-a case control study. With Cardiology Dept.

**PUBLICATIONS**

**CARDIO-THORACIC VASCULAR SURGERY**


43. Dhananjay P. Malankar, M.S.*, Sandeep Chauhan, M.D.,+ Shambhu Das, M.D., and Akshay Kumar Bisoi, Mc.h.* CONGENITAL HEART DISEASE Surgical Techniques How to Do It: Repair of Anomalous Left Coronary Artery nfrom Pulmonary Artery (ALCAPA)

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CARDIAC ANAESTHESIA


**CARDIAC RADIOLOGY**


**Abstracts**


**Chapters in Books**


**CARDIAC NUCLEAR MEDICINE**

**Abstracts**


Papers/Chapter


STEM CELL FACILITY
Journals


3. Shweta Sharma, Radhika Tandon, Sujata Mohanty, Namrata Sharma, M.Vanathi, Seema Sen, Seema Kashyap, Neeta Singh Culture of Corneal Limbal Epithelial Stem Cells: Experience From Bench top to Bedside in a Tertiary Care Hospital in India. Accepted in “Cornea” 2010


5. Pratibha Sharma, Sujata Mohanty, Lalit Kumar. Mutations in ABL kinase domain are associated with inferior progression-free survival. Leukemia and Lymphoma. Accepted 2010)


Abstracts

1. Shweta Sharma, Sujata Mohanty, Sudip Sen, Ajoy Roychoudhary, Pooja Teotia, Bose Sushmita, Anil Kumar, Balram Airan, Radhika Tandon. Ex vivo expansion of oral mucosal epithelial stem cells (OMESC) and comparison from native oral mucosal epithelial cells. Asia-ARVO meeting on Research in Vision and Ophthalmology, Hyderabad. 2009

2. Sujata Mohanty, Sushmita Bose, Pooja Teotia, Balram Bhargava, Balram Airan Generation of dopaminergic neurons from bone marrow derived adult human mesenchymal stem cells: possible role of Pax-6, International Society for Stem Cell Research, 2009 held at Spain.

CARDIAC PATHOLOGY


**CARDIAC BIOCHEMISTRY**


**Abstract**


**ORGAN RETRIEVAL BANKING ORGANISATION (ORBO)**

1. Poster presentation on “Postmortem Organ Donation : An Experience in the 10th ISODP and 16th ETCO Organ Donation Congress from 4-6th October 2009 at Berlin.

2. Poster presentation on “Initiatives to improve organ donation – Experiences throughout the work” in the 10th ISODP and 16th ETCO Organ Donation Congress from 4-6th October 2009 at Berlin.

3. Published a paper titled “Organ Donation – A Gift of Life” in the Souvenir published by Deptt of Anatomy of Maulana Azad Medical College in the workshop on “Embalming, Plastination and organ donation in present day scenario”

**AWARDS & SIGNIFICANT EVENTS**

**CARDIO-THORACIC VASCULAR SURGERY**

1. Prof. Balram Airan was awarded “Dr. K.G. Deshpande Memorial Oration, at Nagpur in September 2009.
2. Dr Sachin Talwar, Assistant Prof of CTVS completed the prestigious Evart’s A Memorial Graham fellowship” by the American Association of Thoracic Surgery for the year 2008-9 for training in Pediatric Cardiac Surgery and joined back in May 2009.

3. Dr. V.P. Gupta, Supdt Physiotherapist honoured for excellent award for serving 25 years at AIIMS by Hon’ble Chief Minister, Delhi at Annual National Conference Physical Therapy 2010.

4. Dr. V.P. Gupta, Supdt Physiotherapist member of the Organizing (Scientific) Committee and chaired the session presented “Physiotherapeutic management of the pulmonary complications after cardiac surgery”. Annual National Conference Physical Therapy 2010.

5. Dr. M.S. Mehra, Physiotherapist member of the Organizing (Catering) Committee Annual National Conference Physical Therapy 2010.

6. The Perfusionists at CT Centre successfully organized the 10th Annual Conference of Indian Society of Extracorporeal Technology with Mr. Suresh Yadav as organizing Secretary at AIIMS, New Delhi in February 2010.

7. Dr. Gulshan K. Sethi Professor University of Arizona Health Science Centre, Department of Cardiothoracic Surgery, Tuscon, Arizona, USA & delivered guest lecture on “ON –X VALVE”

8. Dr. Tirone E David, Professor & Chief Cardiothoracic Division, Toronto General Hospital, Canada & delivered a lecture on “Pitfalls & Decision making in Valve Sparing Aortic Root Operations”.

VISITING SCIENTISTS
Dr. Gulshan K. Sethi Professor University of Arizona Health Science Centre, Department of Cardiothoracic Surgery, Tuscon, Arizona, USA & delivered guest lecture on “ON –X VALVE”
Dr. Tirone E David, Professor & Chief Cardiothoracic Division, Toronto General Hospital, Canada & delivered a lecture on “Pitfalls & Decision making in Valve Sparing Aortic Root Operations”.

CARDIOLOGY
1. V K Bahl – President of Cardiological Society of India (CSI) 2008 - 09
2. Awarded Fellow of European society of Cardiology (ESC)
3. V K Bahl – Associate Editor of Asian Heart Journal, a publication of BMJ group
4. S S Kothari – Member of editorial board of JACC Imaging & Pediatric Cardiology
5. Balram Bhragva – Awarded FRCP (Edinburgh) in 2009
6. S Mishra – ‘Young Leader Award for Interventional Cardiology’, Cardiovascular revascularization therapeutics (CRT) 2010 USA
7. S Mishra - Elected Member Executive Committee, Cardiological Society of India
8. S Ramakrishnan – Awarded ‘Col K L Chopra award’ for best paper in CAD at Delhi CSI 2009
9. Awarded – ‘Best Case in Intervention cardiology’ during National mid term interventional council meeting held at Hyderabad 2009
CARDIAC ANAESTHESIA

1. Dr. Usha Kiran was awarded IACTA fellowship. She continues to be the Vice President of ‘PRAN’. Parkinson related Awareness Network. Dr. Usha Kiran Co-organized a conference on Rejuvenating Life through Mind body Medicine on 6th & 7th Feb’2010, at Distt Gurgaon. She also co-organized a community programme ‘Secrets of happiness’ on 13th – 14th March, at Harpal School Ground. Dr. Usha Kiran is editorial board Member of International Journal of Biosciences.

2. Dr. Sandeep Chauhan nominated as President of IACTA. Dr. Sandeep Chouhan is review board member of two journals. 1) Annals of Cardiac-Anaesthesia and 2) National Medical Journal.

3. Dr. Neeti Makhija have been reviewing the articles of two Journals 1) Journal of clinical Anaesthesia and Journal of Anaesthesiology and clinical Pharmacology.

4. Dr. Poonam Malhotra Kapoor organized two CME’s on the topic Fluid Therapy in Nov’2009 and Advances in muscle relaxants in July’2009. Dr. Poonam Malhotra Kapoor continues to be the treasurer of IACTA and Secretary of Delhi IACTA. Dr. Poonam Malhotra Kapoor is also editorial Board Member of 1). Annals of Cardiac-Anaesthesia, 2). Journal of Clinical Medical Research (JCMR) and 3). J of clinical Anaesthesia. She has written and edited two Newsletters of IACTA. She was quiz master in three National Conferences.

5. Dr. Minati Choudhury is Review board member of 1) J of clinical Anaesthesia and 2) Annals of Cardiac Anaesthesia

6. Two resident doctors from The Department of Cardiac-Anaesthesia won the quiz, held at Annual Conference of IACTA at Kolkotta, Feb’2010.

7. One Resident Doctor (DM Student who passed in June’2009) received Janak Mehta Award at Annual Conference IACTA Kolkatta.

8. Dr. Jimmie G. Kabugi trainee from Africa received 2nd best poster award at 1st Conference of College of Anaesthesiology, Nov 2009.

BLOOD TRANSFUSION SERVICES

1. Dr. Anjali Hazarika was member of organizing committee for 34th National Conference of ISBTI held at Delhi. She delivered following presentation during the conference (22-24 November).
   b. Management of blood donors.

2. Guest lecture on “Appropriate clinical use of blood” 2nd annual conference of ISTAC by JPNATC (14th November, 2009)

3. Resource person during training programme for medical officer/technician/nursing staff on Blood Safety organized by NACO at PGIMER RML Hospital, Delhi.

4. Attended 4th international conference on thalassaemia (31st October – 1st November) held in Delhi.

6. Ms. Anita Dogra (T.O.) gave a presentation on experience in Blood banking at CNC, AIIMS.

7. Ms. Sarla Khanagwal (Staff Nurse) & Mr. Tinku Verma (Lab. Technician) attended the training on blood safety organized by NACO at PGIMER RML Hospital, Delhi.

CARDIAC RADIOLOGY

1. Dr VP Lakhanpal Gold Medal, the Indian College of Radiology and Imaging, for the Best Academic Contribution. Presented at the 63rd Annual Conference of the IRIA, 23-26th January, 2010 Ahmedabad.


5. Awarded “Commonwealth Scholarship for United Kingdom 2009-10” for a period of 6 months from October 2009 to March 2010 and did “Advanced training in Cardiac CT and MRI” at Royal Brompton and Harefield NHS Hospital Trust in London, UK.

CARDIAC BIOCHEMISTRY

1. Member of Technical advisory committee for fast HPV project conducted by ICPO in collaboration with PATH supported by Milinda and Bill Gates foundation

2. Member of project review committee in the field of (1) metabolic syndrome and obesity and (2) Gastroenterology for division for NCD, ICMR.

3. Reviewed abstracts for UICC (World Cancer Congress 2010).

ORGAN RETRIEVAL BANKING ORGANISATION (ORBO)

10.2 National Drug Dependence Treatment Centre

**Professor and Chief**  
Rajat Ray

**Professors**  
B.M. Tripathi  
Raka Jain  
Rakesh Lal  
(deceased 21st Dec. 2009)  
Meera Vaswani

**Associate Professors**  
Anju Dhawan  
Sonali Jhanjee

**Assistant Professors**  
N. Kaw  
Atul Ambekar

**Scientists**  
Anita Chopra  
Hem Sethi

**Medical Social Service Officers**  
Brahm Prakash  
Deepak Yadav  
Seema Yadav  
Ratnesh Kumar

**Biochemist**  
Rizwana Querashi

**EDUCATION**

**Undergraduate** - During their posting in the Department of Psychiatry, undergraduates are posted for a day in the Centre.

**Postgraduate** - Residents doing MD (Psychiatry) are posted for 6 months during their course.

**Ph.D. & Postgraduate teaching**

- Journal discussion - Weekly
- Seminar - Weekly
- Case Conference - Weekly
- Faculty/Staff presentation - Weekly
- Seminars - Weekly (at NDDTC, Ghaziabad)
- Clinical Combined Round & Clinical Grand Round - two in every semester

**Continuing Medical Education**

**Organised by the Centre**

Annual Day Symposium on ‘Children of Substance Abusing Parents,’ NDDTC, AIIMS; 13 April 2009.
‘Training by Trainers Programme,’ Sher-e-Kashmir Medical College, Srinagar (Coordinated by NDDTC, AIIMS); 27-31 April 2009.

‘Capacity Building of Staff from NGOs Working with Street Children on Issues Related to Substance Abuse,’ AIIMS, New Delhi; 18-19 May 2009.


Training programme on ‘Forensic Toxicology, Narcotic and Psychotropic Substances’ for WHO Fellow from Myanmar, NDDTC Drug Abuse Testing Laboratory, AIIMS; 19 October – 11 December, 2009.

**Lectures delivered**

**Dr. Rajat Ray**

‘Dr. N. N. De Oration,’ Silver Jubilee Annual Conference of the Indian Association for Social Psychiatry, Lucknow, 15 November 2009.


‘Magnitude of Drug Abuse in India and Other Countries,’ National Workshop on Drug Abuse Prevention, LNJN National Institute of Criminology and Forensic Sciences, New Delhi, 13 October 2009.

**Dr. Anju Dhawan**


‘Inhalant Abuse,’ Workshop on Capacity Building of Staff from NGOs, AIIMS, New Delhi, 18-19 April, 2009.


‘Medical History Taking, Record Keeping and Documentation,’ Training Programme on Basics of Drug Abuse Prevention and Treatment for Nurses and Ward Boys, Society for Prevention for Youth & Masses (SYPM), New Delhi, 29 August 2009.


‘Children Affected by Drug Abuse,” Certificated Course on Social Defence, NISD, New Delhi, 11 November 2009.
National Conferences\Workshops\Symposium\Seminars\Training Programmes

Dr. Rajat Ray

‘Pharmaceutical Abuse in India,’ Organized by the United Nations Office on Drugs and Crime (UNODC), Hyderabad, 18 September 2009.

Dr. Raka Jain


‘Neurobiological Basis of Nicotine Addiction: An Update,’ (Jain R, Chatterjee B), XXVII Annual Conference of Indian Academy of Neurosciences, Jaipur, 18-20 December, 2009.

Dr. Rakesh Lal


Dr. Anju Dhawan

‘Children of Substance Abusing Parents - Issues and Concerns,’ Symposium on Children of Substance Abusing Parents, NDDTC, AIIMS, 13 April 2009.

Dr. Sonali Jhanjee


Dr. Atul Ambekar


‘Inhalant Use among Street Children in Delhi: A Rapid Situation Assessment,’ X Biennial Conference of the Indian Association for Child and Adolescent Mental Health, New Delhi, November 2009.

‘Developing Addiction Psychiatry as a Super-speciality In India,’ 62nd Annual National Conference of Indian Psychiatric Society, Jaipur, January 2010.


International Conferences

Dr. Rajat Ray


‘Meeting of Experts on Community Action to Treat Alcohol Abuse and Alcoholism,’ Bangkok, Thailand; 22-23 April 2009.


‘Expert Meeting on a Project on E-health on Substance Abuse,’ Amsterdam, Netherlands; 14-16 October 2009.

‘Meeting of Introduction for Programme on Mandate of International Narcotics Central Board (INCB),’ Vienna, Amsterdam & Geneva; 7-16 December 2009.


Dr. Raka Jain


Dr. Anju Dhawan


Country Profile - India,’ Meeting on TB, HIV and Drug Use by WHO, Kuala Lumpur, Malaysia; 9-11 December 2009.

Dr. Sonali Jhanjee


Anita Chopra

‘Heavy Alcohol Drinking among the Elderly in India,’(Chopra A, Dhawan A, Sethi H, Mohan D), 35th Annual Symposium of the Kettil Bruun Society, Copenhagen, Denmark; June 2009.

RESEARCH

Projects

Ongoing


Completed

Development of Intervention for Out-of-School Adolescents on Inhalant Abuse, Anju Dhawan, Atul Ambekar, Deepak Yadav, Anita Chopra. Funded by WHO (India) (2009). Funds: Rs. 3.87 lakhs.


Departmental Research

Effect of Nitric Oxide Synthase Inhibitor L-NNA on Sensitization to the Operant Decrement Produced by Naloxone in Morphine Treated Rats. (2009-ongoing).

PUBLICATIONS

Journal


**Monographs**


**PATIENT CARE**

**General Information**

1. Total No. of beds : 50
2. General Ward beds : 50
3. Private Ward beds : Nil
4. OPD Attendance (NDDTC, Trilokpuri Community Sundar Nagri Mobile Clinic (New & Old)) : 63663
5. Admission : 957
6. Discharges : 964
7. Average % of Bed Occupancy : 57%

AIIMS 2009-2010 / 622
<table>
<thead>
<tr>
<th>OPD &amp; Specialty Clinics Attendance</th>
<th>New Cases</th>
<th>Old Cases</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>General OPD:</td>
<td>2966</td>
<td>30482</td>
<td>33448</td>
</tr>
<tr>
<td>Specialty Clinics</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a) Tobacco Use Cessation Clinic:</td>
<td>23</td>
<td>768</td>
<td>791</td>
</tr>
<tr>
<td>b) Adolescent Clinic:</td>
<td>33</td>
<td>39</td>
<td>72</td>
</tr>
<tr>
<td>c) Dual Diagnosis Clinic:</td>
<td>23</td>
<td>236</td>
<td>259</td>
</tr>
<tr>
<td>A) Total (OPD):</td>
<td>045</td>
<td>31525</td>
<td>34570</td>
</tr>
<tr>
<td>B) Trilokpuri Community Clinic:</td>
<td>151</td>
<td>20250</td>
<td>20401</td>
</tr>
<tr>
<td>C) Sundar Nagri Mobile Clinic</td>
<td>24</td>
<td>8668</td>
<td>8692</td>
</tr>
<tr>
<td>Grand Total A+B+C</td>
<td>3220</td>
<td>60443</td>
<td>63663</td>
</tr>
</tbody>
</table>

**Laboratory Investigations for Patient Care**

a) Total number of drugs of abuse urine samples screened for: 20733

**Drugs**

- Morphine: 2673
- Codeine: 2398
- Buprenorphine: 2398
- Dextropropoxyphene: 2398
- Pentazocine: 75
- Naltrexone: 64
- Naloxone: 316
- Pheniramine (Avil): 2398
- Nitrazepam: 2508
- Diazepam: 2508
- Chlordiazepoxide: 2508
- Canabinoids: 189
- Cotinine: 300

b) **Biochemical investigations:** 19739
c) **Hematological investigations:** 5109
d) **HIV screening:** 340

**AWARDS AND HONOURS AND SIGNIFICANT EVENTS**

Dr. Rajat Ray was nominated by the World Health Organization as member of the International Narcotics Control Board. He delivered the NN De Oration at the Silver Jubilee Annual Conference
of Indian Association for Social Psychiatry at Lucknow (November, 2009). He also organized a programme entitled ‘Alcohol Use Disorders among Employees’ at Assam Oil Division of the Indian Oil Corporation Limited, Digboi, Assam. He is the member of the Research Advisory Committee of the National Institute of Social Defence, Ministry of Social Justice & Empowerment. He is also the Head and Member of the expert group to finalize the National Policy on Prevention of Alcoholism and Substance Abuse and Rehabilitation for the Ministry of Social Justice and Empowerment.

Dr. Raka Jain is a member of the Technical Advisory Committee for Tobacco Testing Laboratories in India under the Directorate General Health Services. She coordinated an 8-week training course on ‘Forensic Toxicology, Narcotic and Psychotropic Substances’ for a WHO Fellow from Myanmar.

Dr. Rakesh Lal attended a WHO meeting of experts on ‘Community Action to Reduce Harm from Alcohol Use’ held in Bangkok, Thailand (22-23 April, 2009) and the Indo-Swede meeting on ‘Alcohol Policy in India’ at National Institute of Health and Family Welfare, New Delhi, (2 February 2010). He participated in discussion with ‘Human Rights’ group representatives regarding availability of narcotic medicines for patients (February, 2010). He is on the Interview panel of UNODC-ROSA for recruitment. He was a resource person for various training programmes for physicians, nurses and paramedical staff held in various states of the country.

Dr. Anju Dhawan prepared a Report on ‘Alcohol Use among Medical College Students of Kangra Medical College’ on the directive of the Supreme Court. She also represented the NDDTC, AIIMS at the NACEN meeting to finalize the curriculum for a joint training programme on supply and demand reduction on 2nd May 2009. On behalf of the NDDTC, AIIMS, she also participated in a Delphi study for updating the WHO policy guidelines on achieving Balance in National Opioid Control Policies.

Dr. Sonali Jhanjee was a resource person for a ‘3-month Certificate Course on De-addiction Counselling and Rehabilitation’ organized by NISD, New Delhi (8th October, 2009) and a course on ‘Oral Substitution Treatment (OST) in the Prison Setting’ at Tihar Jail, New Delhi (19th November 2009).

Dr. Atul Ambekar is a member of the Technical Support Group on IDU for National AIDS Control Organisation (NACO), and of the Global Reference Group on HIV and IDU. He was a resource person for various training programmes for physicians, held in various states of the country.

The centre has coordinated and carried out many activities under the WHO Biennium Grant (2008-09) as a part of National Drug Abuse Control Programme (R Ray, Late BM Tripathi, R Lal, A Dhawan, A Ambekar, D Yadav). Funded by WHO (India) for 2 years (2008 to 2009). Funds: Rs 27.5 lakh

- Development of Minimum Standards of Care for Drug Users (Rs. 1.3 lakhs)
- Symposium on Alcohol: Revisiting the Current Situation & Planning Ahead (Rs. 3.7 lakhs)
- Training Programme on Agonist Maintenance Programme for Substance Use Disorders (Rs. 4.12 lakhs)
- Agonist Maintenance - Training Workshops – 2 ([RIMS] & AIIMS)
- Managing of Alcohol and drug Dependence in Primary Care Settings - A Demonstration Project (Rs. 5 lakhs)
• Assessment of Substance Abuse in Out-of-School Adolescents (Rs. 0.8 lakhs)
• Development of Intervention in Out-of-School Adolescents (Rs. 3.9 lakhs)
• District Based Drug Abuse Monitoring System
• Training of Trainers on Substance Abuse at RIMS and Sher-e-Kashmir Medical College (Rs. 2.01 lakhs)

The faculty of the centre acted as resource persons in various training programmes:
• For staff from government hospitals on agonist maintenance, Imphal, April 2009 (R. Lal, A. Ambekar).
• For doctors on substance use, Bilaspur, Chattisgarh, October 2009 (R. Lal, A. Ambekar).
• Training Programme for Targeted Intervention (TI) - NGOs (under NACO) in Gujrat & Rajasthan (Vadodra, August 2009), Uttranchal (Dehradun, September 2009), Delhi (October 2009), Kerala (Trivandrum, December 2009) (A. Ambekar).
• For physicians, nursing personnel and paramedical staff under Community Pilot Project for Goa (Moregaon, May, 2009) and Chattisgarh (August 2009) (R. Lal).
• Three months certificate course on ‘De-addiction Counselling and Rehabilitation’ organized by NISD, New Delhi, October, 2009 (Dr. S. Jhanjee).
• Training on oral substitution treatment (OST) in the prison setting, New Delhi, 19 November 2009 (Dr. S. Jhanjee).

Other Significant Events
• Visit by Ms. Cristina Albertin, Representative of UNODC, (ROSA) to NDDTC and Trilok Puri Community Clinic, 8 May 2009.
• Visit by Dr. JS Thakur, National Professional Officer and Cluster Focal Point, Non-Communicable Diseases and Social Determinants and Health, WHO (India), to NDDTC, 14 May 2009.
• Public Programme as a participatory activity in the ‘International Day against Drug Abuse and Illicit Trafficking’ organized by the Government of National Capital Territory, at NDDTC, AIIMS, 26 June 2009.
• Programme to manage “Alcohol Use Disorder among Employees of Assam Oil Division, IOCL”, Digboi, Assam.
EDUCATION

Under Graduate
The Centre conducted the teaching programme of MBBS undergraduate students during their clinical posting.

Post Graduate
The Centre is conducting Postgraduate programmes in four specialties namely, Orthodontics, Prosthodontics, Endodontics cum Conservative Dentistry and Oral and Maxillofacial Surgery.

Short Term Training – Total 45; WHO- 2, BSF- 4

CONTINUING MEDICAL EDUCATION

CME

Organized by the department

1. SAARC Orthodontic Convention’ 09, AIIMS, New Delhi Subsection B: Lectures delivers by departmental faculty, residents and staff (only in CME programmes)

1. Organized a CDE in collaboration with Endo Group on “Revo S rotary file system” Dr. Martine Guigand from France gave a scientific lecture and demonstrated the new rotary system of root canal instrumentation system at CDER on 20th March, 2010

2. Co-hosted a CDE course entitled “Multi-speciality Dentistry – The road ahead” in collaboration with University of Detroit-Mercy, School of Dentistry, USA and SGT Dental College, Gurgaon on 21st March, 2010

3. A CME was organized by the Department of Orthodontics on 25-3-2010 at CDER.

4. Conducted a CME on “Full Mouth Rehabilitation: Enigma Simplified” during 11th National Post Graduate Student Convention of Indian Prosthodontic Society from 26th – 1st March 2009 at New Delhi.

5. Faculty from the Centre conducted three days AO Cranio-maxillofacial (CME) course in Nigeria, May 2009.
National and International Conferences

Lectures delivered

Professor Naseem Shah

- Was an invited speaker at French Endodontic Society’s meeting held at Arcachon, Bourdoux, France in June, 2009. Gave a lecture on “Management of anterior immature, traumatized teeth”

- Presented paper on “Bioseal: A novel, non-obturation technique of Endodontic treatment” at the 2nd meeting of Pan Asian Pacific Federation (PAPE) and the 1st meeting of the International Association of Dental Research (IADR) Asia/Pacific Region (APR) held from 22nd to 24th Sept. 2009 at Wuhan, China.

Professor O.P. Kharbanda

- As a visiting professor gave a lecture on “Interdisciplinary management of Cleft Lip and Palate functional jaw orthopedics, intra-oral molar distilization” at University of Connecticut, USA on 28th and 29th April, 2009

- Gave a lecture on “Functional jaw orthopedics and intraoral molar distilization” at University of Western Australia (Perth) on 4th September, 2009.

- As a visiting professor gave a lecture on “Functional jaw orthopedics and intraoral molar distilization” at the Department of Orthodontics, Faculty of Dentistry, University of Sydney on 7th & 8th September, 2009

- Gave a lecture on “Interdisciplinary treatment of CLP” at University of Western Australia (Perth) on 1-2nd February, 2010

- Invited Keynote Speaker on “Orthodontic Education in India” during 7th International Orthodontic Congress of World Federation of Orthodontists, Sydney from 6th to 9th February, 2010

- Invited Keynote Speaker on “Holistic Approach in the Management of CLP” during 7th International Orthodontic Congress of World Federation of Orthodontists, Sydney from 6th to 9th February, 2010

Dr. Veena Jain

- Presented a paper on “effect of different design preparation on flexural & fracture strength of fixed partial denture” during FDI Annual World Dental Congress in Singapore 2nd -5th September 2009.

Dr. Vijay P. Mathur

- Gave an invited talk on “Update on Primary Preventive Dentistry in India” during FDI- Public Health Section Meeting in Singapore held on 2-5 September 2009

Dr. Ajay Logani

- Presented a paper on “Endodontic Oddities” at 31st Asia Pacific Dental Congress Hong Kong, China 7th-11th May, 2009
National conferences

Prof. Naseem Shah

2. Guest speaker at the symposium on the “Dental Management of Patients with Special Needs” organized on 10th Nov. 2009 at Subharti Dental College, Meerut.

3. Attended and gave a talk on “Treatment of traumatized immature anterior teeth- conventional to regenerative endodontics approach” during 10th FODI & IES post graduate student convention at NEIGRIHMS, Shillong, Meghalaya from 29th to 30th May, 2009.

4. Delivered a lecture on “Controlling Endodontic infections” at the CDE jointly organized by CDER, AIIMS with SGT Dental College, Gurgaon and Detroit-Mercy College, USA on 21st March, 2010 at AIIMS.

5. Presented a paper on “Tissue engineering for Pulp-Dentin regeneration” during International symposium “Stem Cell Potentials in Renal Repairs and Regeneration” on 7th Dec., 2009 at AIIMS.

Prof. O.P. Kharbanda
1. Delivered a guest lecture on “Non Extraction: Intra oral molar distalisation” at Andhra Pradesh Orthodontic Study Group of Indian Orthodontic Society at Hyderabad on 5th April, 2009.

2. Delivered a guest lecture on “Orthodontic miniscrew” at Meerut Orthodontic Study Group of Indian Orthodontic Society at Meerut on 6th April, 2009.

3. Invited as a Chief Guest delivered lecture on “Orthodontic Implants” at Calcutta Orthodontic Study Group of Indian Orthodontic Society at Calcutta on 7th June, 2009.


5. Delivered an invited talk on”Orthodontic miniscrew” at Orthodontic CME of Kanpur Orthodontic Study Group of Indian Orthodontic Society at Kanpur on 5th July, 2009.

6. Invited Moderator to workshop on Oral Health Research Methodology “Research Problems and Writing research questions” “Expanding on the research idea: Literature search and Review of Literature”, Types of Study design Observational (cross-sectional, case control, cohort) interventional”
   i. organized by Indian Council of Medical Research at Maharishi
   ii. Markendshwar University, Ambala from 24th to 25th August, 2009

7. Delivered a guest lecture on “Implant Supported management of severe malocclusions” at symposium of Goa Orthodontic Study Group – “Ortho Fineness” on 1st October, 2009 at Goa

Dr. A. Roychoudhury
1. Gave an invited talk on “Principles of osteosynthesis” and “lateral body and angle fracture of mandible” during AO CMF principles course at Mumbai May 2009.

Dr. Vijay P. Mathur
1. Chaired a Free Paper session during the “63rd Indian Dental Conference” held at Chennai in February 2010
2. Gave an invited talk on “The concept of Indian Dental Association- Tobacco Intervention Initiative” during the Indian Dental Association –
3. National Planning meeting held on 12th December 2009 at Mumbai.
4. Gave an invited talk on “Introduction to Tobacco Intervention Initiative” during the President Secretary Workshop organized by Indian Dental Association Head Office at Mumbai on 27th February 2010.
5. Delivered a Guest lecture on “Oral Health Research in India: Changing Paradigm” during the Indian Society of Pedodontics and Preventive Dentistry PG Convention held in March 2010 at Udaipur Rajasthan
6. Participated as a national coordinator during the Indian Society of Pedodontics and Preventive Dentistry Conference 2009 held at ITS Dental College and Hospital, Murad Nagar on 12-14 November 2009.

Dr. Ajay Logani
2. Presented a paper on “Mineral Trioxide Aggregate – A Wonder material for 21st century Endodontics” at 63rd Indian Dental Congress, Chennai February 2010
3. Presented a paper on management of endodontic infections at CDE on Multi Specialty Dentistry-The Road Ahead. 21st March 2010, CDER, AIIMS

Pruthi G
1. Won best paper award “Different methods to fabricate orbital prosthesis- case report” during 11th National convention of Prosthodontics Post Graduate Students from 26th Feb – 1st March 2009 at New Delhi
2. Won best paper award “A Gonio-reflectometer study to evaluate effect of bleaching on composite restoration” during 36th Indian Prosthodontic Society Conference from 4th – 9th Nov 2008 at Thrissur, Kerala

Arora N
1. Won best paper award.” Hybrid oral and facial prosthesis for a patient with bilateral total maxillectomy and soft tissue defect- A case report” during 36th Indian Prosthodontic Society Conference from 4th – 9th Nov 2008 at Thrissur, Kerala.
Bizenia P
1. **Won best poster award title** “Feeding obturator- boon for infants” during 36th Indian Prosthodontic Society Conference from 4th – 9th Nov 2008 at Thrissur, Kerala

Mankar M
1. “Neuromuscular Adaptations following Twin Block & A phase of Fixed Appliance Therapy” during 14th IOS Post Graduate Students’ Convention, from 21st to 25th January, 2010 at Chennai.

Chaudhary P
1. Poster presentation “Early treatment of Class III malocclusion, is it worth The burden. When to start”? during 14th IOS Post Graduate Students’ Convention, from 21st to 25th January, 2010 at Chennai

Dharmai U
1. “Unexplained pain in endodontics – A diagnostic dilemma” during 10th National FODI & IES postgraduate students’ convention, May 2009, Shillong

Dr. Dharmani Umesh
1. “Can infection of primary teeth lead to formation of dentigerous cyst in permanent teeth? A case report” during the National Conference of Federation of Operative dentistry of India (FODI) & Indian Endodontic Society (IES) November 2009, Cochin, Kerala.

Gupta A

Bhushan S

Mishra N

Jhadav G

Yadav R
Kumar L

Arya S

Rustagi A
1. "Finite element study for reconstruction plate” during Association of Oral and Maxillofacial Surgeons of India conference at Kochi, November 2009.

RESEARCH
1. Detection of apoptosis in human periodontal ligament during orthodontic
   Tooth movement
   Total funding – 2.6 lacs
   Funding agency: ICMR
   Duration – 2 years and 5 months (2007-2009)

2. To develop an indigenous bite force measuring appliance and to test in patients with different clinical conditions
   Investigators: Dr. Veena Jain and Dr. Vijay P Mathur
   Funding Agency – Dept of Biotechnology
   Starting year - 2007
   End year -2009
   Total funding – 7.82 lacs
   Duration – 2 years (2007-2009)

3. Oral health status of drug-addicts attending a de-addiction centre” year 2008
   Investigators: Dr. Naseem Shah and Dr. Vijay P Mathur
   Funding Agency – Intramural (None)
   Duration – 1 year (2008-2009)

4. To frame policy guidelines for Oral Health Promotion and Interventions for Handicapped Population
   Investigators: Dr. Naseem Shah, Dr. Vijay P Mathur and Dr. Ajay Logani
   Funding Agency – GOI- WHO Collaborative Programme
   Total Funding 2.05 lacs
   Duration – 1 year (2008-2009)
Ongoing

1. Finite element study to analyze the stress distribution in human mandible following twin block therapy
   Investigators: Dr. Ritu Duggal, Dr. Raju Sharma (Dept. of Radiology)
   Funding agency; ICMR
   Duration: 2 years

2. “Micro implant generated stress on maxilla: Effect of design and placement protocols”
   Principle Investigator- Dr. O.P. Kharbanda
   Funding Agency - ICMR
   Total funding - 6,74,006 INR (1st year)
   Duration - Two years (2009-2011)

3. “Development of indigenous software for cephalometric tracing”
   Principle Investigator- Dr. O.P. Kharbanda
   Funding Agency - ICMR
   Total funding - 3, 56,000 INR
   Duration - One year (2009-2010)

4. Assessment of Safety Profile for Dental Procedures in India
   Investigators: Dr. Ritu Duggal and Dr. Vijay P Mathur
   Funding Agency – Ministry of Health and Family Welfare, GOI
   Total funding – 65.23 lacs
   Duration – 2 years (extended by 8 months) (2008-2010)

5. Age estimation in living adults based on aspartic acid racemization from tooth biopsy specimen.
   Principal Investigator: Dr. Ajay Logani
   Co-investigators: Prof. Naseem Shah, Dr. Veena Jain
   DBT funded project
   Total funding – 18.8 lacs
   Duration – 2 years

6. The prevalence and severity of non carious cervical lesions (NCCLs) and its relationship with potential risk factors in urban India: A community based study
   Guide: Dr. Ajay Logani
   Co Guide: Prof Naseem Shah, Dr. Baridalyne Nongkynrih, Dr. Anil Goswami
   ICMR Funded Project
   Total funding – 2.4 lacs
   Duration – one year
Departmental Research

1. Equivalence randomized controlled trial of bioresorbable plates and titanium plates in The osteosynthesis of mandibular fracture: A pilot study


3. An in- vitro pilot study to evaluate the effect of incorporation of sapphire (Ceramic) whiskers and silver fillers on the thermal and mechanical properties of Denture base resins


5. Lamotrigine Vs Pregabalin in the management of trigeminal neuralgia refractory to Carbamazepine: an open label, randomized active-comparator controlled crossover Trial

6. Organization and functioning of Centre for Dental Education and Research at AIIMS. (In collaboration with Department of Hospital Administration - MHA student from IIHMR, Jaipur)

Ongoing

1. Speech analysis in maxillectomy patients with full bulb and reduce bulb height of hollow bulb obturator.

2. Effect of the stability and crestal bone level in early loaded implants with different occlusal schemes – A pilot study.

3. A comparative study to measure the condylar guidance by the radiographic and clinical methods.

4. Effectiveness of mandibular advancement appliance in patients with obstructive sleep apnoea and associated changes in oropharyngeal structures – A pilot study

5. Facial nerve morbidity in the management of mandibular condyle neck and subcondylar fracture through retromandibular transparotid approach: a prospective clinical study

6. Effect of distraction osteogenesis in the blood oxygen saturation level in retrogenia patient.


8. Study of efficacy of bioresorbable plates in the osteosynthesis of mandibular fractures without postoperative maxillomandibular fixation: a prospective study

9. Epidemiology study in the pathway of maxillofacial fracture seen at tertiary care hospital in north India.

PUBLICATIONS


**Books**


2. Rahmatulla M and Shah N. (Ed) “Research priorities for meeting oral health goals in developing countries” Indian Society for Dental Research(ISDR) International Association for Dental Research (IADR) (Indian Section) Indian Academy for Advanced Dental Education.2009


**AWARDS AND HONOURS**

1. Prof. Naseem Shah was invited by French Endodontic society to deliver a Guest lecture at their Annual Conference at Arcachon, France on 26-27th June, 2009. She chaired a scientific session at Pan-Asia Pacific Federation of International Association of Dental research at Wuhan, China on 22-24th September, 2009. She was also an invited speaker at International symposium “Stem Cell Potentials in Renal Repairs and Regeneration” on 7th Dec. 2009 at AIIMS, 22nd National Conference of ISDR held on 5th & 6th Dec. 2009 at Ahmedabad, at Subharti Dental College, Meerut in a symposium on “Dental Management of Patients with Special Needs” on 10th Nov. 2009 and at 10th FODI & IES post graduate students’ convention at NEIGRIHMS, Shillong, Meghalaya from 29th to 30th May, 2009.

2. Prof. Kharbanda was invited as “Visiting Professor” to give lectures and research discussion at the Department of Orthodontics, Dental School Connecticut, Connecticut, USA from 28th to 29th April, 2009. He was Keynote Speaker at 7th International Orthodontic Congress of World Federation of Orthodontists, Sydney from 6th to 9th February, 2010. He visited Perth (Australia) as “Visiting Professor” to deliver lectures to the Postgraduates on 1st & 2nd February, 2010. He chaired a scientific sessions and was invited Guest Speaker to 1st AEEDC International Orthodontic meeting held at Dubai on 7th - 8th March, 2010. He completed tenure as President of the Indian Orthodontic Society Nov, 2009 and took over as President of the Indian Society for Cleft Lip Palate and Craniofacial Anomalies in Feb. 2009. He continues to be on the International Editorial Board of the American Journal of Orthodontics and Dentofacial Orthopedics, British Journal of Orthodontics and Australian Orthodontic Journal besides Co-Editor of the J of Clinical Paediatric Dentistry, and on board J of Indian Orthodontic Society and J Pierre Fauchard Academy. He was honored
with fellowship of International College of continuing Education of Asian Pacific Dental Federation. He was the Chairman of Scientific Committee of the 44th Indian Orthodontic Conference held at New Delhi from 5th to 8th November, 2009.

3. **Dr. Ritu Duggal** was appointed as the Dental Council Inspector for approval of M.D.S courses at various Dental colleges by DCI. She was active organizer in the SAARC Orthodontic Conference (3rd to 4th August 2009) New Delhi.

4. **Dr. Ajoy Roychoudhury** was appointed as an international faculty for AO CMF course held in Nigeria, May, 2009. Was invited faculty at Asia Pacific AO Faculty board meeting held on Aug, 2009 at Ho-chi Minh city, Vietman. He was appointed as Dental Council Inspector for approval of M.D.S courses at 10 various dental colleges in the country by DCI. Is member of technical committee for Pradhan Mantri Swasthya Yogna (Dental Surgeon)  

5. **Dr. Veena Jain** was appointed as an expert to conduct the interview for the post of Assistant professor in the specialty of Prosthodontics at Pandit Bhagwat Dayal Sharma University of Health Sciences Rohtak on 10.08.09. She was member of the selection board for selection of Senior residents (Dental) at Maulana Azad Institute of Dental Sciences on 25.6. 09. She was appointed as honorary member of the PG board of studies in dental sciences at MGPGIDSc. Govt of Puducherry, for three years i.e. till 30.06. 2012.  

6. **Dr. Vijay P. Mathur** was awarded travel grant from Department of Science and Technology, Govt of India for attending FDI World Dental Congress at Singapore on 2-5 September 2009. He is elected as executive member of Indian Dental Association- Delhi State Branch and South Delhi Branch for year 2009-10.

**SIGNIFICANT EVENTS**

1. **Prof. Naseem Shah** participated in the Pan-Asia Pacific Federation of International Association of Dental research at was appointed as member of the postgraduate board of studies in Operative Dentistry and Endodontic, Maharishi Dayanand University, Rothak, Haryana and member of expert group meeting on “Tobacco Cessation” at Vallabhabhai Patel Chest Institute, University of Delhi, Oct. 22nd -23rd Oct. 2009. She was expert member of Technical Standard Committee on Dental, Ministry of Health & Family Welfare, Govt. of India and of Selection Committee to conduct interview for the post of Professor/Assist. Professor/ Lecturer at MGP GI, Puducherry. She is appointed as technical expert for evaluation of Extra-mural projects, ICMR. She was external examiner in Conservative Dentistry & Endodontics, May 2009 at Govt. Dental College, Maharishi Dayanand University, Rothak. She was appointed as expert member in the Dentistry for the selection of candidate for the award of Common wealth scholar ship/Fellowship 2010 offered by the Government of United Kingdom-Dec. 2009. She gave an interview on “stem cell technique” on Parasar Bharati Broadcasting corporation of India, National Channel: All India Radio on 30th Dec. 2009 and on “Stem Cell Treatment in Dentistry” on 21st Dec. 2009 on Sahara & Aaj Tak TV. She gave an interview on “stem cell in dental regeneration” which was published in “Bio-spectrum - Asia” in December, 2009. She was invited by the Jammu & Kashmir Public Service Commission to conduct the interview for the posts of Lectures/B-Grade Specialists in Dentistry on 29th Dec. 09 at Jammu.
2. **Prof. Kharbanda** was invited as an expert to review and finalize the Handbook and Facilitator’s Guide on Medical Ethics, Dhaka, Bangladesh from 27th to 30th October, 2009 at Dhaka (Bangladesh). He was invited by ICMR to attend the meeting of Manpower Development Division – Scientific Advisory Committee meeting held on 17th November 2009 and meeting of “Task Force on Bioengineering” on 23rd November, 2009 at DBT, New Delhi. He was also invited to attend the meeting of Board of Studies in Dental Surgery at Dr. H.S. Judge Institute of Dental Science & Hospital, P.U., Chandigarh on 30th November, 2009. He was nominated as a Member-Expert of the Selection Committee meeting of Commonwealth Scholarship/Fellowship Plan, 2010 in the subject field of Dentistry held on 17th December, 2009. He was invited to serve as an Expert member of the Selection Committee meeting to interview for the post of Sr. Lecturers in Orthodontics in the office of Vice Chancellor, Punjab University, Chandigarh on 15th January, 2010 and also invited as a member of the Selection Committee to interview for the post of Professor in Orthodontics in the office of Vice Chancellor, Punjab University, Chandigarh. He gave a invited talk on “Advance Technology of Dental Care” at Doordarshan Bhawan, Mandi House, New Delhi on 8-1-2010. He was appointed as a member of the Inspection Committee to consider the request of Maulana Azad Institute of Dental Sciences for affiliation with the Delhi University on 25th February, 2010 at MAIDS, MAMC Complex, New Delhi. He has been invited as a Visiting Professor at the Department of Orthodontics, Dental School, University of Connecticut, Connecticut USA. He is first Indian to have been conferred with the honour to serve Co-Chair Scientific committee of the 7th International Orthodontic Conference organised by the World Federation of Orthodontists to be held in Sydney 2010 where he has also been invited as a Key Note speaker. He served as an Executive Committee Member of the Asian Pacific Orthodontic Society and represented India to whereby he was instrumental successfully confirming Asian Pacific Conference at Delhi to be held in 2012. He was invited by ICMR as subject expert to review the research projects in the field of Oral Health and Advisory Committee to the research grant to the postgraduates. He served Department of Biotechnology as an expert in the field of Biomedical Engineering.

3. **Dr. Ritu Duggal** conducted 9 Training Workshops for senior and junior dental investigators for unified methods of data collection under the project entitled “Assessment of Safety Profile for Dental Procedures in India” and coordinated data collection in more than 800 districts across the country.

4. **Dr. Ajoy Roychoudhury** gave a T.V talk on Healthy India on Dental Health at Lok Sabha T.V. September 2009.

5. **Dr. Vijay P Mathur** attended a training programme in “Introduction to Ethics of Human Subjects Research” and “Introduction to Biostatistics” conducted jointly by Johns Hopkins University and SGPGI, Lucknow. Organized 9 Training Workshops for Senior and Junior Dental Investigators for unified methods of data collection under the project entitled “Assessment of Safety Profile for Dental Procedures in India” and coordinated data collection in more than 800 districts across the country.
VISITING SCIENTISTS

Dr. Ravi Nanda Head Craniofacial Sciences, Dental School University of Connecticut CT, USA.
Delegation from SAARC countries
Delegation from University of Sydney, Australia
Dr. Celia Porter from USA
Dr. Martine Guigand from Faculty of Dentistry, University of Reims, France
## 10.4 Dr. B.R. Ambedkar Institute Rotary Cancer Hospital

**Professor and Chief**  
G.K. Rath (Radiation Oncology)

**Professors**  
P.K. Julka (Radiation Oncology)  
N.K. Shukla (Surgical Oncology)  
Rajive Kumar (Laboratory Oncology)  
Lalit Kumar (Medical Oncology)  
Subhash Chander (Radiation Oncology)  
Vinod Raina (Medical Oncology)  
B.K. Mohanti (Radiation Oncology)  
Professors

**Additional Professor**  
Sidhartha Satpathy (Hospital Administration)

**Associate Professors**  
S.V.S. Deo (Surgical Oncology)  
Sanjay Thulkar (Radiodiagnosis)  
Sushma Bhatnagar (Anaesthesiology)  
Atul Sharma (Medical Oncology)  
Sameer Bakhshi (Medical Oncology)  
Pratik Kumar (Medical Physics)  
Seema Mishra (Anaesthesiology)  
Suman Bhaskar (Radiation Oncology)  
D. N. Sharma (Radiation Oncology)  
Sushmita Pathy (Radiation Oncology)  
Ritu Gupta (Lab. Oncology)

### EDUCATION

#### Anaesthesiology

The following activities are conducted:

- **IRCH Seminar** - Every Monday and Thursday at 8.15 AM
- **Unit Seminar** - Every Monday at 2.30 PM
- **Unit Journal Club** - Every Saturday at 10:00 AM
- **Unit Radio Conference** - Every Saturday at 9:00 AM

#### Lab. Oncology

- Department provides training to students of MD Pathology and DM Hematology and DM Medical Oncology
- Combined clinic-pathological discussions are held with the department of Pediatrics.
**Medical Oncology**

**Undergraduate**
- Involved in undergraduate teaching (Seminars-4, Lectures-1).

**Postgraduate**
- Collaboration and Co-guides for MD Thesis in the department of Obst. & Gynaecology, Nuclear Medicine and Ophthalmology
- **DM Programme**
  - Medical Oncology is running a DM program under which there are 13 regular and one sponsored students
- **Ph.D training**
  - One Ph.D. student submitted her work and one was awarded Ph.D. in this year. Four Ph.D. students are pursuing their work in various aspects of Medical Oncology.

**Others**
- Dr. Kunjahari Medhi, Senior Research Associate (Pool Officer), C.S.I.R left in October 2009 after a stint of two years.
- 10 Research Officers on various projects.

  Progress of Department: The department is fully functional and all the space and staff allotted to it is being fully utilized. The Day care is working very well and approximately 80 patients are treated every day. Almost 10 high dose chemotherapy and blood stem cell transplants are being carried out every month. Lung cancer clinic is also fully functional and over 300 patients have been registered in the last 18 months.

  Limitations: there is severe limitation of staff and space; this is holding back the progress of the dept to a great extent.

**Medical Physics Unit**

**Under Graduate and Post graduate training:**
- The Medical Physics unit has actively participated in imparting education in the field of radiation protection, radiation physics and quality in radiological imaging to the students doing MD Radiology, MBBS, B.Sc. (Hons.) Nursing, B.Sc. (Hons.) Radiography.
- Medical Physics Unit gave training to two WHO trainees – Dr Kavita Vani, Radiologist, Safdarjung Hospital and Dr Ritu Nair Mishra, Radiologists, RML Hospital for 2 months in Radiation Safety and Quality in Diagnostic Medical Physics course.
- In addition, the unit has 2 Ph.D students undergoing training.
- The faculty and staff participated in Unit’s and Dr.BRA IRCH Seminars.

**Radiation Oncology**
- The department is involved in Undergraduate, Post graduate, B.Sc. Nursing and PhD teaching programs.
• Dr GK Rath established the telemedicine link between DRBRAIRCH and GCRI, Ahmedabad, Sri Ramachandra Medical College, Chennai and SGPGI, Lucknow.

• Dr GK Rath was invited to attend the UNOOSA (United Nation Organization for Outer Space Affairs) sponsored workshop in Thimpu, Bhutan on “Application of tele-health” from 27th to 30th July 2009. He imparted expertise on technology transfer in tele-health application in cancer and also delivered a lecture on “Collaborative Framework for Cancer Research, Education and Care in South Asian Region”

• Dr PK Julka conducted two telemedicine sessions with the doctors: one with Jammu Medical College on brain Tumors and another with Amritsar on Lung cancers.

• Dr PK Julka published a book “Becoming a Successful Clinical Trial Investigator. First and Second. Gurgaon: DNA Press; 2009” first of its kind on clinical research in India

• Dr BK Mohanti conducted 2 Tele-medicine teaching sessions with the faculty and post-graduate residents of SKIMS, Srinagar.

• Dr BK Mohanti as co-chairman of Medical Publication Committee of AIIMS coordinated the organization of AIIMS book stall at World Book Fair, Delhi, 30 Jan-07 Feb 2010.

**Short term training was given to:**

• 6 Doctors from India, 3 Specialist doctors from North Korea, 5 Medical Physicists from India and 5 Radiotherapy Technicians from India.

**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 12 surgical oncology senior residents, DM medical oncology residents and MD radiotherapy junior residents by giving didactic lectures, moderating seminars, journal clubs etc. & clinical teaching during ward rounds and in special cancer clinics of IRCH. Dr. Shukla acted as Co-guide and Co-supervisors in DM medical oncology thesis, MD radiation oncology thesis & PhD students from different dept. of BRA IRCH & AIIMS.

• Para clinical teaching/training: The faculty was involved in the teaching of the B.Sc nursing students.

**Delhi Cancer Registry**

• The registry has an active teaching & training programme being imparted to the Medical Social Service Officers (MSSO’s) and other staff of the cancer Registry by Dr. B.B.Tyagi and Mr. N. Manoharan regarding the working of cancer registry, technical guidance in interviewing the cancer patients from various departments viz. radiotherapy, pathology and medical records of all collaborating hospitals.

• Field staffs are also trained in cancer registration methodology, diagnostic and treatment methods available for cancer, cancer epidemiology and coding of cancer patients data as per International
Classification of Diseases for Oncology (ICD.O) third edition and International Classification of Diseases (ICD.10) tenth revision.

**Continuing Medical Education (CME)**

**Anaesthesiology**
- Organized 8th Foundation Course on Palliative Care on 30-31st Jan 2010 for Medical Practitioners and Nursing Staff treating Cancer patients in & around Delhi.
- Nodal center for IAPC certificate course in Palliative Care at Dr BRA, IRCH.

**Medical Physics**

The faculty and staff of Medical Physics Unit delivered guest lectures for imaging personnel in workshops and CME organized for Radiologists, Radiographers and Physicists.

**Radiodiagnosis**

**Lectures delivered**
- ‘Imaging in Gynecological Malignancies’ at 3rd AIIMS-MAMC-PGI imaging course series on Genitourinary Radiology at PGIMER, Chandigarh, April 3-4, 2009.
- ‘Radiology and PET Scan in Cancer Ovary’ at Seminar on Cancer Ovary held at SRM Medical College, Kattankulathur, Chennai. August 9, 2009.
- ‘Imaging in lung and esophageal cancers’ at 7th ICRO-AROI teaching course organized by Indian College of Radiation Oncology (ICRO) and Association of Radiation Oncologists of India (AROI) at All India Institute of Medical Sciences, New Delhi September 12-13, 2009.
- ‘Basics of ultrasound in pain management’ at RSACPCON-2009, a CME workshop organized by Research Society of Anaesthesiology Clinical Pharmacology at Army Hospital (research & Referral), Delhi Cantt on October 9-12, 2009.
- ‘Conventional Imaging in Oncology’ at Oncology Congress 2010 organized by Dharamshila Hospital and research centre at India Habitat Centre, New Delhi on January 17, 2010.

**Radiotherapy**

**Department organised following CME programmes**
- Dr GK Rath, Dr PK Julka and Dr DN Sharma organized the CME and teaching course for the ICRO (Indian College of Radiation Oncology), the academic wing of AROI (Association of Radiation Oncologists of India) at the AIIMS from 12-13 September, 2009. 52 postgraduate (MD and DNB) students from all over the country from institutions where radiotherapy postgraduate courses are available participated.
- Dr BK Mohanti organized the CME ‘Head and Neck Cancer-Larynx and Hypopharynx’ at AIIMS on 31 Oct-02 Nov 2009, and presented i. lecture ‘Radiotherapy perspective in organ
preservation’, ii. instructional course on IMRT/IGRT in head and neck cancer, iii. tumor board on cancer of hypopharynx.

**Surgical Oncology**

**Department took part in following CME programmes**

- Dr. NK Shukla participated in a CME program organized by Rajkot cancer society at Rajkot on 13.12.2009. He gave a talk along with video presentation on the following topics.
  - (i) Sentinel lymph node biopsy in breast cancer.
  - (ii) Breast oncoplasty
  - (iii) Harmonic scalpel mastectomy

- Dr. S.V.S. Deo delivered a guest lecture on “Breast Reconstruction- Current status”, CME on breast cancer, Pushpanjali Hospital & Galaxy cancer centre, 30th Jan, 2010.

**NATIONAL AND INTERNATIONAL CONFERENCE**

**Anaesthesiology**

**Lectures delivered**

- A Comparative Efficacy of Amitriptyline, Gabapentin and Pregabalin in Neuropathic Cancer Pain at ASA 2009, 18-21st Oct, New Orleans, USA = by Dr. Seema Mishra
- Pediatric Cancer Pain Management Following WHO Analgesic Ladder at a Regional Cancer Center. ASA 2009, 18-21st Oct, New Orleans, USA =by Dr. Shiv Pratap Singh Rana (Senior Resident Anaesthesia )
- Care of Elderly “IAPC certificate course at Jaipur 2010 by Dr. Sushma Bhatnagar.
- “Cancer Pain management”–by Dr. Sushma Bhatnagar at Dr. B.R.A, IRCH, AIIMS in IAPC certificate course 13th June 2009
- Emergencies in Palliative Care–by Dr.Seema Mishra at Dr. BRA, IRCH, AIIMS in IAPC certificate course on 14th June 2009.
- “Neuropathic Pain Management – by Dr. Seema Mishra in IAPC certificate Course on 4-6th Jan 2010 at Kolkatta Medical College, Kolkatta.
- “Ethical Issues in Palliative care” by Dr. Seema Mishra in IAPC certificate Course on 4-6th Jan 2010 at Kolkatta Medical College, Kolkatta.
- “Care of Elderly” by Dr. Seema Mishra in IAPC certificate Course on 4-6th Jan 2010 at Kolkatta Medical College, Kolkatta.
- “Cancer pain Mangement “by Dr. Seema Mishra at Nursing Update on 23rd Nov. 2009, AIIMS, New Delhi.
- “Opioids for Non Malignant Pain” by Dr. Seema Mishra on 21st Nov. 2009 in ICA Con 2009, Delhi.
Lab. Oncology

Lectures delivered

Dr. Rajive Kumar

• Gave talk on “Minimal Residual Disease in Acute Lymphoblastic Leukemia” in Indian Society of Hematology and Transfusion Medicine conference 2009, New Delhi

Dr. Ritu Gupta

• Invited talk on ‘Role of flow cytometry in plasma cell proliferative disorders’, at the special symposium on Advancement of Cytometry Society (20-21st June 2009) at Matsue, Japan.
• Gave talk on ‘Flow Cytometry in lymphoma diagnosis’, and chaired on session on “Diagnostic approach to chronic lymphoproliferative disorders”, in Nagpur Lymphoma Conference (November 2009) at Nagpur, India.
• Served on faculty in Advanced TCS Flow Cytometry Workshop on Hematological Malignancies (March 2010) at Delhi-NCR, India.

Delhi Cancer Registry

Training Programme/ Meetings Attended

• Dr. B.B.Tyagi & N. Manoharan attended a meeting to finalize the Computer Programme for Delhi PBCR data for the year 2006 at coordinating unit of National Cancer Registry Programme, Bangalore from 29th June 2009 to 3rd July 2009.

Medical Oncology

Lectures delivered

Prof. V. Raina

• Gave a talk on Breast cancer in South East Asia in NCCN meeting held in Beijing on 28-29 March 2009.
• Attended NCCN Meting in Abu Dhabi VAD as the chairman of palliative care guidelines in South East Asia on 23-26 April 2009.
• Gave a talk on Defining the role Taxans in Breast Cancer chemotherapy in National Cancer Institute at Kolkata on 23 May 2009.
• Attended INDOX meeting in Hyderabad on 26-27 June 2009.
• Attended Velcade Investigator Meeting in Mumbai on 5-6 September 2009.
• Chaired panel discussion on advances in Breast Cancer in King George Medical College in Lucknow on 25 September 2009.
• Attended Investigator on A phase 3, Randomized, Open-Label, Two-Arm Study of Neratinib Plus Paclitaxel Versus Trastuzumab Plus Paclitaxel as First Line Treatment for ErB-2-Positive Locally Recurrent or Metastatic Breast Cancer on 28-29 November in Mumbai.
• Chaired a CME session on Breast Cancer in 8th Asia Pacific Oncology Summit in Tokyo, Japan organized by Japanese Society of Medical Oncology on 20-21 March 2010.

• Chaired a session on NHL in Annual Conference on Evidence Based Management of Cancers in India organized by Tata Memorial Centre, Mumbai held on 27th February 2010.

Prof. Lalit Kumar

• Invited to give a talk on “Multiple Myeloma : autologous stem cell transplantation: AIIMS experience” during the meeting on “New Frontiers in Hematolog Oncology” at Netaji Subhash Chandra Bose Cancer Research Institute, Kolkata on 10th April 09.

• Invited to participate. in the meeting on “Marrow Donor Registries to facilitate Unrelated Donor Stem Cell Transplantation in India” on 11th April, 2009 at Mumbai.

• Invited at Tata Memorial Hospital, Mumbai, to give a talk on “Where does autologous transplant fit in era of novel targeted therapies in multiple myeloma?” on 12th April, 2009.

• Invited to participate and give a talk on “Multiple Myeloma: impact of Biology” during the “Third International Symposium on Translational Research: Cancer Cell Signaling and Therapy at Bhubneshawar (Orissa)” from December 18-21, 2009.

• Participated as a panelist in the Robert Ozols symposium at the Fox Chase Cancer Centre, Philadelphia on 24-25th Sept., 2009.

• Presented Grand Round on “Multiple Myeloma: Current Management “at the Wyckoff”s Medical Centre, Brooklyn, New York on 29th September, 2009.

• Delivered a Seminar at the National Cancer Institute, Bethesda Title: Role of neoadjuvant chemotherapy in the management of advanced Ovarian Cancer, on 2nd October, 2009.

• Delivered a Grand Round on Perspectives in Cancer Care in India at the Regional Cancer Center, Johnson City Medical Center, Tennessee (ETSU) on 30th October 2009.

• Presentation given at the MD Anderson Cancer Center - In the department of Experimental Therapeutics on 25th October, 2009.

• Invited talk on “Perspectives in Cancer Care in India” among a group of Physicians at Utica, NY. USA, on 6th November, 2009.

• Presentation given “Perspectives in Cancer Care in India” at the MD Anderson Cancer Center in the department of Lymphoma, on 10th November, 2009.

• Research Seminar on is there a place for Neoadjuvant Chemotherapy in the management of advanced Ovarian Cancer” at the John Wayne Cancer Institute, Santa Monika, CA. California., on 18th November, 2009.

• Invited to give a talk on “Targeted therapy in Haematological malignancies” during the Association of Physicians of India Conference – APICON 2010 CME at Jaipur, on 7the January, 2010.

• Invited to give a talk on “Molecular biology to targeted Therapy “during the Oncology Congress– 2010 at Dharamshila Hospital & Research Centre, New Delhi on 16th & 17th January, 2010.

• Invited by Army Hospital (R & R), Delhi Cantt, New Delhi, to chair a session on “Multiple Myeloma” during the “Essence of ASH” on 17th January, 2010.
• Invited to give a talk on Fungal Infections in Haematological Malignancies during the “8th National Conference of Society for Indian Human and Animal Mycology AIIMS, New Delhi held from 4th – 6th March, 2010.

• Invited to participate and give a talk on “Autologous Stem Cell Transplantation” during Hematologic Malignancies: Bridging the Gap – 2010 meeting to be held at Singapore on 5th February, 2010.

Dr. Atul Sharma

• Chaired a session on Oncology during annual meeting of IMA Karol Bagh on 3rd May 2009 in Delhi.


• Participated as Faculty at Best of ASCO 2009 at Bangalore, organized by ISMPO. 8th August 2009.

• Delivered a guest lecture organized by IMA Aligarh. 25th July 2009.

• Delivered a guest lecture organized by IMA, Karnal. 1st August 2009.

• Delivered a lecture at “Larynx and Hypopharynx 2009” organized at AIIMS 31 October-2 November 2009.

• Chaired a session on CML during Golden Jubilee Conference of ISHBT at AIIMS 19-22 November 2009.

• Delivered a guest lecture organized by Cancer Society Rajkot on 13 December 2009 on “Locally Advanced Breast cancer”.

• Delivered guest lectures organized by Jodhpur branch of API on 20 December 2009.

• Participated as panelist in panel discussion at TMH during annual “evidence based medicine” meeting held on 26-28 February 2010.

Dr. Sameer Bakhshi

• Lecture on “Role of autologous stem cell transplantation in pediatric malignancies” in “Celebrating 25 years of BMT” at Tata Memorial Center, Mumbai on 12th April 2009.

• Expert Panelist in DD News for “Childhood Leukemias” on 28th June 2009.

• Faculty for National Clinical Research Training Course organized by Department of Pharmacology and Department of Biotechnology-Clinical Research Training Center at AIIMS from 24th-28th August, 2009.

  - Lecture on “Cancer clinical trials”
  - Expert panelist for “Pharmacovigilance and safety monitoring”

• Faculty for Expert Group Meeting on National Essential Medicine List organized by Department of Pharmacology, AIIMS and Central Drugs Standards Control Organization at AIIMS on 16th September, 2009.
• Faculty for the 21st ICON-Indian Co-operative Oncology Network meeting at Tata Memorial Hospital, Mumbai 19th- 20th September, 2009.
  - Lecture on “Current approach to Osteogenic sarcoma”

• Lecture on “Chemotherapy in Retinoblastoma: When and What” in XIIIth Annual Conference of the Paediatric Haematology-Oncology Chapter of IAP at PGIMER, Chandigarh on 14th-16th November, 2009.

• Faculty for “Golden Jubilee Conference of Indian Society of Hematology and Transfusion Medicine 2009” organized by Department of Hematology, at All India Institute of Medical Sciences, New Delhi, India from 19th-22nd November 2009.

• Lecture on “Role of stem cells in pediatric malignancy” in Workshop cum CME on Stem Cell potentials in renal repair & regeneration clinical and experimental aspects at All India Institute of Medical Sciences on 7th December, 2009.

• Organized India Pediatric Oncology Initiative 2nd Annual Meeting at All India Institute of Medical Sciences, New Delhi from 4th-5th February, 2010.

• Lecture on Osteosarcoma: “Current Management and Future Directions’ in International Update on Cancer and Blood Diseases in Children and Adolescents at Apollo Hospital, Delhi from 6th-7th Feb, 2010.

• Panelist in 1st Indian Childhood Cancer Survivor Conference at All India Institute of Medical Sciences, New Delhi on 6th Feb, 2010.

• Panelist in show Healthy India (weekly show aimed at promoting nutrition, healthy living and home remedies) at Lok Sabha Television Studio, Parliament House on 13th Feb. 2010.

• Expert in show Total Health episode “childhood Cancer” at CPC Doordarshan Asiad Village, New Delhi 90 14th Feb, 2010.

• Expert panelist for “Sticky issues in the current management of T-Non Hodgkin’s: Lymphoma” in Eighth Annual Conference on Evidence Based Management of Cancers in India organized by Tata Memorial Centre at Mumbai from 26th -28th February 2010

• Lecture on “Role of Chemotherapy in Limb preservation in bone and soft tissue sarcomas” in 9th Annual International Conference RGCON-2010 organized by Rajiv Gandhi Cancer Institute & Research Centre at India Habitat Centre, New Delhi from 26th -28th March, 2010.

Medical Physics Unit

Lectures delivered

Dr. Pratik Kumar


• Basics of radiation biology as relevant to interaction of radiation with cells. XXXVth Annual conference of environmental mutagen society of India & International symposium on mutagen and genetic diversity for health and agriculture. University Institute of Pharmaceutical Sciences, Punjab University, 12-14 March 2010.

• Chaired a session “NM and Radiobiology” at 30th Annual Conference of Association of Medical Physicists of India, Nov. 22-25, 2009, Hyderabad.

Radiodiagnosis
Lectures delivered
1. ‘Advances in Interventional Pain Management’ at 12th Annual Conference of Indian Society of Vascular & Interventional Radiologists (ISVIR) held at All India Institute of Medical Sciences, New Delhi on October 7-10, 2009.

2. ‘Patient safety and radiological imaging’ at National Patient Safety Conference held at All India Institute of Medical Sciences, New Delhi on October 12-13, 2009.

Radiation Oncology
Lectures delivered
Dr. G.K. Rath
• Chaired and Delivered a guest lecture on “Posterior fossa tumors” at the National Conference of Neuro Oncology Society of India (NOSICON – 09) in, India Habitat centre, New Delhi on 3rd April 2009.

• Invited talk on “Pre operative radiotherapy and surgery for esophageal cancer: Does this improve outcome?” at the 3rd International Surgical CME at Sohar, Sultanate of Oman on 16th April 2009.

• Delivered a guest lecture on “Extra cranial radio surgery – the Indian experience” at the “Oncology 2009 international conference on multidisciplinary management of common cancers” at Kumarakom, Kerala on 24th April 2009.

• Participated in the “Expert consensus conference –Road map to cervical cancer control in India” at AOGIN, organized by Chittaranjan National Cancer Institute (CNCl), Kolkata on 26th April 2009.

• Delivered a guest lecture on “Recent advances in the management of head and neck cancer” at Government Medical College & Hospital, Chandigarh on 2nd May 2009.

• Delivered a guest lecture on “IPSA and Inverse planning in Brachytherapy” at the ICRO teaching course conducted at SGPGI, Lucknow on 3rd May 2009.

• Delivered a guest lecture on “Combined modality management in multimodality oncology clinics of carcinoma cervix and lungs- the AIIMS experience” at the Kolkata Medical College, Kolkata on 23rd May 2009.

• Delivered a guest lecture at the CME on “Latest developments of cancer management” at the cancer hospital, Cooch Behar, West Bengal on 11th and 12th June 2009.

• Chaired a scientific session at the “best of ASCO 2009” organized by ISMPO at Bangalore on 8th August 2009.
• Delivered a guest lecture on “Recent developments in Radiotherapy” in a seminar at Medical College, Kolkata on 17th August 2009.

• Delivered a guest lecture on “Recent developments in the management of breast cancer” at Bhubaneswar in the joint meeting organized by the Indian college of nuclear medicine and Utkal institute of medical sciences on 23rd August 2009.

• Delivered two guest lectures on (i) “Treatment planning of EBRT in ca cervix-Basics and Recent advances” and (ii) “Inverse planning image guided brachytherapy” at ONCON 2009 organized by SSKM hospital and PG Institute at Kolkata on 1st September 2009.

• Delivered a guest lecture on “Role of Radiotherapy in Non Hodgkin’s Lymphoma” at the International update on NHL organized by the Indian society of Hematology and transfusion medicine (Orissa chapter) at Cuttack on 5th September 2009.

• Invited talk at the DAE / IAEA conference on Peaceful Uses of Atom to commemorate Dr Homi Bhabha’s Birth Centenary, delivered lecture on “Radiation Oncology Services in India: The Emerging Scenario” at New Delhi on 1st October 2009.

• Panelist at the discussion titled: “Indigenous Development in Radiation Oncology and Nuclear Medicine” at New Delhi on 1st October 2009.

• Delivered an invited lecture on “Has conformal radiation made an impact on treatment outcome and Quality of life?” at the North Zone AROI conference organized by Max Health care, New Delhi on 3rd October 2009.

• Delivered an invited lecture on “Intraoperative brachytherapy and Intraoperative electron therapy” at the “National workshop on brachytherapy update” at Ahmedabad organized by the IBS (Indian Brachytherapy Society) on 10th October 2009.

• Invited lecture on “Patient Safety in Radiotherapy” at the National patient safety conference at AIIMS from 12 -13 October 2009.

• Delivered a guest lecture on “Image based brachytherapy in cervical cancers” at the Kasturba Medical college, Manipal on 25th October 2009.

• Chaired a session at the “Larynx and Hypopharynx 2009- head and neck cancer update” at AIIMS, New Delhi, 30th October 2009.

• Delivered a guest lecture on “Current indications for RT in Breast conservation and Post mastectomy” at the AROICON 2009 (Annual conference of the association of radiation oncologists of India) at Hyderabad on 27th November 2009.

• Panelist in the “Panel discussion on NCCN guidelines” at the AROICON 2009 at Hyderabad on 27th November 2009.

• Chairperson for “ASTRO 09 highlights” at the AROICON 2009 at Hyderabad on 29th November 2009.

• Delivered a guest lecture on “Recent advances in radiation techniques in carcinoma breast” in the “seminar on breast cancer” at Rajkot on 13th December 2009.
• Delivered an invited talk on “Cancer control activities at DRBRAIRCH” at the review meeting of all the 27 regional cancer centers entitled “National cancer control program - present status and future prospects” held at GCRI (Gujarat Cancer and Research Institute) Ahmedabad on 31st January 2010.

• Delivered the “Golden Jubilee celebration lecture” on “Recent trends in cancer management in India” on the eve of World cancer day at BHU, Varanasi on 2nd February 2010.

• Delivered a guest lecture on “Maximizing local control to improve survival” at the 2nd ABCC (Asian Breast Cancer Congress) at Bangalore on 6th and 7th February 2010.

• Participated in the meeting of “National cancer control program: the role of organ preservation: at New Delhi along with officials of WHO, UICC, Directorate General of Health Services, Govt. of India and delivered a talk on “What role organ preservation can play in the NCCP” on 25 March 2010.

Dr. P.K. Julka

• Participated in Pfizer Advisory Board Meeting on Metastatic Renal Cell Carcinoma- Role of Sutent, Singapore, 2nd April 2009.


• Guest Lecture on “Target Determination in Brain Tumors”, ICRO CME, SGPGI, Lucknow, 2nd May 2009.

• Participated in IMPACT Breast Cancer Conference, Brussels, 7th May to 9th May 2009.

• Participated in American Society of Clinical Oncology (ASCO) Meeting at Orlando, 29th May to 2nd June 2009.

• Participated in a Meeting on “Revision of Standards of Hospitals with 30-100 Beds”, Nirman Bhawan, New Delhi, 30th June 2009.

• Participated in Advisory Board Meeting on Head and Neck Cancers, Mumbai, 5th July 2009.

• Participated in Avastin Meeting, New Delhi, 13th July 2009.

• Guest Lecture on “Chemotherapy in Cervix Cancer”, Kolkata, 1st September 2009.


• Guest Lecture on “Chemotherapy and Targeted Therapy in Ovarian Cancer”, 2nd September 2009.

• Guest Lecture on “Biological Therapy in Head and Neck Cancer”, Asia Pacific Meeting, Singapore, 9th September 2009.
• Guest Lecture on “Recent Advances in Management of Small Cell Lung Cancer”, ICRO Course, 12th September 2009.
• Participated in ECCO-ESMO Meeting at Berlin, 20th-24th September 2009.
• Guest Lecture on “Recent Advances in Management of NSCLC”, 30th September 2009.
• Chairperson for Rapid Arc Workshop, Hyderabad, 3rd October 2010.
• Moderator, “Head and Neck Cancer Management”, AROI, New Delhi, 4th October 2009.
• Chairperson for Afinitor Symposium, New Delhi, 10th October 2009.
• Chairperson for Scientific Session “Recent Advances in Breast Cancer-Her 2 Positive”, 29th October Participated in ICMR Task Force Meeting on Breast Cancer and Brain Tumors, New Delhi, 14th October 2009.
• Guest Lecture on “Role of Biological Agents in Head and Neck Cancers”, AIIMS, New Delhi, 31st October 2009.
• Participated in ASTRO Meeting, Chicago, 1st-4th November 2009.
• Chairperson for Symposium on Breast Cancer, 22nd November 2009.
• Participated in AROI-ICRO Meeting, Hyderabad, 26th November 2009.
• Key Note Address on “Role of Biological Modifiers of Radiotherapy”, AROI, Hyderabad, 27th November 2009.
• Panelist in Panel Discussion on Head and Neck Cancer, AROI, Hyderabad, 27th November 2009.
• Panelist in Panel Discussion on “Metastatic Colorectal Cancer”, New Delhi, 5th January 2010.
• Guest Lecture on “What is New in Oncology”, MAMC, New Delhi, 10th January 2010.
• PG Lecture on “Biological Modifiers of Radiotherapy”, AIIMS, New Delhi, 12th January 2010.
• Guest Lecture on “Molecular Modifiers in Radiotherapy”, Indo-German Workshop (ICMR), Manipal, 17th January 2010.
• Guest Lecture on “Role of Tarceva in NSCLC”, New Delhi, 21st January 2010.
• Participated in International Breast Cancer Conference (IBCC), Paris, 30th January to 1st February 2010.
• Key Note Address on “Cancer Prevention” at Steel Authority of India (SAIL), Ranchi, 5th February 2010.
• Guest Lecture on “Role of Histology in Management of NSCLC”, New Delhi, 10th March 2010.
• Guest Lecture on “Recent Advances in Lung Cancer”, New Delhi, 11th March 2010.
• Panelist in panel Discussion on “Ixabepilone in Breast Cancer”, New Delhi, 13th March 2010.
• Guest Lecture on “Management of Clinical Trials” at Training Workshop of Scientists Organized by National Institute of Medical Statistics (ICMR), New Delhi, 17th March 2010.

Dr. B.K. Mohanti
• Invited as international faculty and delivered lecture ‘Current status of Head and neck cancer care in India’ at DEGRO Congress, annual conference of German Society of Radiation Oncology, at Bremen, Germany, 12-14 June 2009.
• Delivered a lecture “Ethics in Palliative Care” at 9th Foundation Course in Palliative Care under Can Support-IRCH at New Delhi on 23-24 January 2010.
• Delivered invited lecture “Achieving Progress in Neuro-Oncology in India” at CME under Neuro-Oncology Society of India, organized by Hemalata Cancer Hospital, at Bhubaneswar, on 31 January 2010.
• Invited as a Panelist “Cancer care in Childhood cancers-key issues to address”, organized by Can-Kids Foundation and Pediatric Dept, AIIMS, New Delhi on 6th February 2010.
• Invited as Faculty and delivered lecture “Barriers in accessing care for older people” at XVIIth International Conference of Indian Association of Palliative Care (IAPC), Tiruchirapalli, 11-14 February, 2010.

Dr. D.N. Sharma
• “Role of brachytherapy in carcinoma of lung and esophagus”, CME held at AIIMS, New Delhi, Oct 2009.
• “Radiofrequency ablation vs CT scan guided interstitial brachytherapy in malignant lung lesions”. RSNA 2009, Chicago, USA, Nov 2009.

Surgical Oncology
Dr. S.V.S. Deo
• Delivered a guest lecture on “Update on Thyroid cancer Management” during Saudi Surgical Society meeting held on Damman, Saudi Arabia May 5-7, 2009.
• Guest lecture on “Surgical management of breast cancer- An update, Rajasthan State chapter ASI conference, Udaipur, Jan 9-10, 2010.

• Guest lecture on “Recent advances in Breast cancer”. Rajasthan State chapter ASI conference, Udaipur, Jan 9-10, 2010.

• Guest lecture on “Recent advances in Breast cancer surgery- Breast Oncoplasty”. Oncowoundcom, 2010, Delhi ASI, Safdarjung Hospital, 5-7 march 2010.

Dr. M. Singh

• A paper on “Combined modality management of locally advanced sebaceous cell carcinoma of eyelid” was presented in RGCON 2010 international conference held on 26th to 28th March 2010 by Dr. M Singh Senior Resident in the department.

RESEARCH

Funded Projects

Anaesthesiology

Completed

1. Evaluating the correlation of serum levels of morphine and its metabolites on pain in cancer patients. PI: Dr. Sushma Bhatnagar, Co-Investigators: Dr. Seema Mishra, Dr. V. Pandey Funding: AIIMS Research Grant (One Lac)

2. Efficacy of The Anterior Ultrasound-Guided Superior Hypogastric Plexus Neurolysis in intractable pelvic cancer pain in gynaecological cancer patients and assessment of Quality of life before the neurolysis and after neurolysis. PI: Dr. Seema Mishra, Co-investigators: Dr. Sushma Bhatnagar Dr. Sanjay Thulkar, Funding: AIIMS Research Grant (One Lac)

3. A prospective Evaluation of the Incidence and Characteristics of Breakthrough Cancer pain episodes (BTCP) in Head and Neck Cancer Patients. PI: Dr. Sushma Bhatnagar, Funding: Nil

4. Psychosocial Concerns In advanced cancer Patients: An Observational Study at Dr. BRA, IRCH, AIIMS. PI:Dr. Seema Mishra, Co-investigators:Dr. Sushma Bhatnagar, Funding Nil

Ongoing

1. An Open-Label Study Investigating Long-Term Safety and tolerability of Nasalfent (Fentanyl Citrate Nasal Spray) in the treatment of Breakthrough Cancer Pain (BTCP) in Subjects taking Regular Opioids Therapy. PI: Dr. Sushma Bhatnagar Funding: Company sponsored trial

2. Evaluation of the effect of rhythmic breathing process-Sudarshan Kriya and Pranayam (SKP) on pain perception among advance stage cancer patients having pain. PI:Dr. Sushma Bhatnagar, Funding : Center Council for Research in Yoga & Naturopathy (Deptt. of Ayush)

3. Role of Radiofrequency of mandibular in Head and Neck cancer pain patients. PI: Dr. Sushma Bhatnagar, Co-Investigators : Dr. Seema Mishra, Funding : Nil

4. Comparison of Epidural Triamcinolone and Betamethasone for lumbosacral radicular pain: a prospective randomized study. Principal investigator Dr. Seema Mishra, Co-investigators: Dr. Sushma Bhatnagar
5. Prospective, randomized placebo controlled, Double blind study of tranexamic acid in patients undergoing head and Neck Cancer surgery. Principal investigator: Dr. Seema Mishra, Funding: Nil

6. Pre-emptive analgesia and response to laryngoscopy with Gabapentin, Pregabalin in patients undergoing MRM under General Anaesthesia: A Prospective Randomized Double Blind Placebo controlled Study. Principal investigator Dr. Seema Mishra, Funding: Nil

7. To Compare The Effect Of Radiotherapy And Vertebroplasty On Pain Relief And Quality Of Life In Cancer Patients With Vertebral Collapse Caused By Spinal Metastases. Principal investigator-Dr. Gaurav Nirwani Goyal, Funding : Nil

**Laboratory Oncology**

**Completed**

1. Immunophenotypic characterization of plasma cells by flow cytometry in health & disease with particular reference to plasma cell myeloma. PI-Ritu Gupta. Funded by DST for 3 years.

**Ongoing**

1. Reference diagnostic range for serum free light chains in Indian subjects: comparison with multiple myeloma. PI. Rajive Kumar. Funding: ICMR

2. Detection of minimal residual disease in B-cell lineage acute lymphoblastic leukemia at the end of induction by flow cytometry. Co-PI Rajive Kumar. ICMR

3. Assessment of multi-drug resistance pattern in acute myeloid leukemia and response to therapy. PI-Ritu Gupta. Funded by AIIMS for 2 years Funds: PI-1,90,000

4. Regulatory T-cell repertoire in plasma cell myeloma. PI-Ritu Gupta. Funded by DBT for 3 years. Funds: 14,82,000

5. Molecular and immunological basis of biological heterogeneity in chronic Lymphocytic Leukemia. PI-Ritu Gupta. Funded by DBT for 3 years. Funds: 19,46,400


7. To study the molecular biology of multiple myeloma. Co-investigator-Ritu Gupta. Funded by DBT for 3 years. Funds: 33,00,000

**Medical Oncology**

**Completed**

1. Adjuvant Tamoxifen Long Against Short (ATLAS) Trial. Dr. Vinod Raina, Oxford University, Approx 30 lakhs, Completed in September, 2006

2. A SU011248 Expanded Access Protocol for Systemic Therapy of Patients with Metastatic Renal Cell Carcinoma Who are Ineligible for Participation in Other SU011248 Protocols but May Derive Benefit from the Treatment with SU011248. Dr. Vinod Raina, Pfizer, Rs. 15 Lakhs Approx. 15.01.2007 to 14.01.2009, P
3. An Open Label Multicenter Phase I/II Study to evaluate Safety and Efficacy of P276-00 in Patients with relapsed and/or Relapsed/Refractory Multiple Myeloma. Dr. Vinod Raina, Nicholas, Rs. 6 Lakhs Approx. 12.05.2008 to 11.05.2009

4. An Open-Label Randomized Comparative Multicentric Study To Assess Safety And Efficacy of Biomab-EGFRTM (Nimutuzumab) In Combination With Chemotherapy Versus Chemotherapy Alone In The Treatment of Patients With Stage IIIb / IV Non Small Cell Lung Cancer (NSCLC). Dr. Vinod Raina, Clinigene (Biocon), Rs. 12 Lakhs Approx., 01.12.2008 to 30.11.2009,

5. A Randomized, open label, Multicenter, Phase 2/3 Study To Evaluate the Safety and Efficacy of Lumiliximab in Combination with Fludarabine, Cyclophosphamide, and Rituximab Versus Fludarabine, Cyclophosphamide, and Rituximab Alone in Subjects with Relapsed Chronic Lymphocytic Leukemia. Dr. Vinod Raina, Biogen, Idec, Rs. 15 Lakhs Approx., April 2009 to May 2010

6. In vitro expansion and establishment of human fetal liver hematopoietic stem cell line. Dr. Lalit Kumar DBT, New Delhi. 67.00,2006-2009

7. A combination of p53, EGFR status, and tumor grading in determining the outcome of early epithelial ovarian cancers, Dr. Lalit Kumar, DBT, New Delhi. 1.5, 2007 – 2008

8. Expansion of adult human bone marrow and cord blood stem cells for reconstituting marrow and for reprogramming into hepatocytes, Dr. Lalit Kumar, ICMR, 27.00, 2005-2007

9. A Randomized Double Blind Phase III Study of Efficacy of lactobacillus brevis CD 2 Lozenges in Preventing Radiation and Chemotherapy Induced Mucositis in Head and Neck Cancer Patients, Dr. Atul Sharma, C D Pharma India Private Limited, 5,42,000.00, 2006 –2009

10. Molecular Remission With Arsenic Trioxide in Acute Promyelocytic Leukemia (Indian APML Study Group- IASG), Dr. Atul Sharma, DBT (drug support) 2005-2009

11. A Phase III Study Of Erbb2 Positive Advanced Or Metastatic Gastric Or Esophageal Or Gastroesophageal Junction Adenocarcinoma Treated With Capecitabine Plus Oxaliplatin With Or Without Lapatinib.” Dr. Atul Sharma, GlaxoSmithKline Pharmaceuticals Limited, 434398.00, 2009-2012.

Ongoing

1. A Treatment Protocol for Patients with Gastrointestinal Stromal Tumor who are Ineligible for Participation in other SU011248 Protocols and are Refractory to or intolerant of imatinib mesylate, Dr. Vinod Raina, Pfizer, Rs. 15 Lakhs Approx. 15.01.2007 to 14.01.2011

2. A Double-Blind, Randomized Phase 2b Study Evaluating the Efficacy and Safety of Sorafenib Compared to Placebo when Administered in Combination with Paclitaxel in Patients with Locally Recurrent or Metastatic Breast Cancer. Dr. Vinod Raina, Reliance, Rs. 25 Lakhs Approx., 01.05.2008 to 30.04.2011

3. A Randomized, Double-blind Multicenter, Placebo controlled Study of Adjuvant Lapatinib in Women with Early-stage ErB2 Overexpressing Breast Cancer, Dr. Vinod Raina, GlaxoSmithKline, Rs. 30 Lakhs Approx.10.06.2007 to 09.06.2010
4. A randomized, multi-centre, open-label, phase III study of adjuvant lapatinib, trastuzumab, their sequence and their combination in patients with HER2/ErbB2 positive primary breast cancer. Dr. Vinod Raina, GlaxoSmithkline, Rs. 30 Lakhs Approx. 23.05.2008 to 22.09.2011

5. Axitinib (AG-013736) as second Line Therapy for Metastatic Renal cell Cancer: Axis Trial. Dr. Vinod Raina, Pfizer, Rs. 25 Lakhs Approx., April 2009 to May 2011

6. Single Arm Open Label Multicenter Phase II Study to evaluate the Efficacy and Safety of P276-00 in subjects with Relapsed and/or Refractory Mantle Cell Lymphoma, Dr. Vinod Raina, Piramal Life Sciences, Rs. 15 Lakhs, 22.01.2010 to 21.07.2011


8. Dr. Vinod Raina, Wyeth Pharmaceuticals Limited, New Project 18.03.2010 To 17.09.2011


10. Indox Cancer Trials Network Center Dr. Vinod Raina, Oxford University, Rs. 40 Lakhs Approx. 12.05.2006 to 11.04.2011

11. To study the molecular biology of Multiple myeloma. Dr. Lalit Kumar DBT, New Dehi. 33.07 2007-2010

12. Endothelial progenitor cells as biomarker of disease activity in multiple myeloma. Dr. Lalit Kumar, DBT, New Delhi. 17.00 2007-2010

13. Phase II, Multicenteric, Open label Randomized study of Mapatumumab (TRM-1), a fully human monoclonal antibody to TRAIL-1 in combination Bortezomib (Velcade), and Bortezomib (Velcade) alone in subject with relapsed or refractory multiple myeloma. Dr. Atul Sharma Parexel International on behalf of HGS, USA 8.8 Lacs 2007-continue

14. Randomized, Phase III-b, Multi-centre, Open-label, Parallel study of Enoxaparin (low molecular weight heparin) given concomitantly with chemotherapy Vs chemotherapy alone in patients with inoperable gastric and gastro-oesophageal cancer. Dr. Atul Sharma, Criterium, Pune, 7,60,000.00 2008-continue

15. Treatment and Characterization of Acute Lymphoblastic Leukemia in Children, Adolescents and Young Adults Dr. Sameer Bakhshi Network of Cancer Treatment and Research & Sir Ratan Tata Trust. Rs. 4.5 lacs/year for Clinical Management Ongoing (2005 onwards)

16. To study chromosomal abnormalities and FLT3 Internal Tandem Duplication (ITD) mutations in acute myeloid leukemia Dr. Sameer Bakhshi, Source of Funding: AIIMS Research Grant, Rs. 3 lacs over 3 years Ongoing since Oct 2007

17. Evaluation of Prognostic Value of FDG-PET after Two Cycles of Chemotherapy in Pediatric and Adolescent High Grade Lymphomas.Dr. Sameer Bakhshi DBT for 3 years 19.45 lacs Ongoing since March 2008
18. Pharmacokinetic and Toxicity profile of High Dose Methotrexate: relationship with Serum Creatinine and MTHFR Polymorphisms in Indian Children. Dr. Sameer Bakhshi JIV DAYA Foundation 7.9 lacs for 2 years

**Medical Physics**

**Ongoing**


**Radiotherapy**

**Completed**

1. A phase 2 study of Sequential Neoadjuvant Gemcitabine plus Doxorubicin and Gemcitabine plus Cisplatin in large T$_2$ (≥ 3cm) and Locally Advanced (T$_3$, T$_4$ or N$_1$) operable Breast Cancer. Dr PK Julka, Dr G K Rath, Dr Rajinder Parshad, Dr. Ramesh Dawar, Dr Omana Nair, Dr Renita Bhamrah Sponsor : Eli Lilly. Start year: 2003. Funds: Rs.472000

2. An open label randomized multi-centre phase III study of Trastuzumab in combination with a fluoropyrimidine and Cisplatin versus chemotherapy alone as first-line therapy in patients with HER2 positive advanced gastric cancer. Dr PK Julka, Dr G K Rath, Dr N R Dash, Dr Omana Nair, Dr Tarun Puri, Dr Renita Bhamrah, Dr Gursimran Kaur Dr Amit Bahl, Dr Pushpa Lata Sponsor : Siro. Start year: 2007. Funds: Rs.150000

3. A randomized Phase 3 Study of Pemetrexed in Combination with Cisplatin Versus Cisplatin Monotherapy in Patients with Recurrent or Metastatic Head & Neck Cancer. Carcinoma Dr PK Julka, Dr G K Rath, Dr Alok Thakar, Dr Sudhir Bahadur, Dr Omana Nair, Dr Tarun Puri, Dr Renita Bhamrah Sponsor : Eli Lilly. Start year: 2007. Funds: Rs 1,32,000

4. A randomized phase 3 study of Enzastaurin versus Lomustine in the treatment of recurrent, Intracranial GBM. Dr PK Julka, Dr G K Rath, Dr Chitra Sarkar, Dr Omana Nair, Dr Tarun Puri, Dr Renita Bhamrah Sponsor : Eli Lilly. Start year: 2006. Funds: Rs 186000

5. Protocol 1839IL/0706: A Phase II Randomized, Double Blind, Placebo Controlled, Multicentre Comparative Study of ZD1839 250 mg or 500 mg (Iressa™) given either continuously or concomitantly with Cisplatin plus Radiotherapy for the treatment of patients with previously untreated unresected Late Stage III/IV Non-metastatic Head & Neck Squamous Cell Carcinoma. Dr PK Julka, Dr GK Rath, Dr DN Sharma, Dr. Sudhir Bahadur, Dr Omana Nair, Dr Tarun Puri, Dr R Prabhakar. Funding Quintiles. Start year: 2004. Funds: Rs 1315781

6. A study to assess economic costs of cancer care in Indian patients receiving radiotherapy with or without chemotherapy/surgery at a Regional Cancer Centre (Collaborative study between IRCH, AIIMS and Indian Statistical Institute, Delhi. PI: Dr. Sanghamitra Das (ISI), Dr. B.K.Mohanti. Grant from Indian Statistical Institute, Delhi. Start year 2007: Funds: Rs2.2 Lakhs per year.
**Ongoing**

- **BCIRG 006** - A Multicentric Phase III randomized trial comparing doxorubicin and Cyclophosphamide followed by Docetaxel (AC\textsuperscript{t}t) with Doxorubicin and Cyclophosphamide followed by Docetaxel and Trastuzumab (Herceptin) (AC\textsuperscript{t}TH) and with Docetaxel, Carboplatin and Trastuzumab (TCH) in the Adjuvant treatment of node positive and high risk node negative patients with operable Breast cancer containing the HER2 alteration. Dr PK Julka, Dr G K Rath, Dr Rajinder Parshad, Dr Omana Nair, Dr Simran Sponsor: Aventis. Start year: 2004. Funds: Rs.162313.

- A Randomized, Double-Blind, Parallel-group, Multicentre, Phase-III study comparing the Efficacy and Tolerability of Fulvestrant (FASLODEX \textsuperscript{TM}) 500 mg with Fulvestrant (FASLODEX \textsuperscript{TM}) 250 mg in Postmenopausal Women with Estrogen Receptor Positive Advanced Breast Cancer Progressing or Relapsing after Previous Endocrine Therapy. Dr PK Julka, Dr G K Rath, Dr Rajinder Parshad, Dr Omana Nair, Dr Gursimran Kaur Sponsor: Quintiles. Start year: 2006. Funds: Rs.245700

- A Phase 1/2, Modified Dose Escalation, Open Label Trial to Determine the Therapeutic Effect and Safety of INCB007839 Combined with Trastuzumab in Patients with Previously Untreated HER2 Positive Metastatic Breast Cancer. Dr PK Julka, Dr G K Rath, Dr Tarun Puri, Dr Gursimran Kaur, Dr Pushpa Lata. Sponsor: Siro. Start year: 2008. Funds: Rs 4,27,710.

- An open label Prospective Multicentric study to evaluate the safety and efficacy of BIOMAB-EGFR (Nimotuzumab) as induction and maintenance therapy in combination with radiotherapy plus temozolomide (concomitant and adjuvant) in Indian patients with Glioblastoma multiforme. Dr. P. K. Julka, Dr. G. K. Rath, Dr DN Sharma, Dr. O. Nair, Dr C Sarkar, Dr BS Sharma, Dr T Puri, Dr R Bamrah, Dr KP Haresh. Funding – Clingene. Start year: 2008. Funds: Rs 3,26,800.

- Patterns of Care and Survival studies in Cancers of Head and Neck, Breast and Cervix at Dr BRAIRCH, AIIMS (as part of National Cancer Registry Programme by ICMR) I-508 PI: Dr B K Mohanti. CI: Dr. B.B. Tyagi, Grant from National Cancer Registry Programme, ICMR. Start year 2007: Funds:Rs3.6 Lakhs per year

- A Randomized, Double – Blind, Placebo- controlled, Multi-centre Phase 3 Study of Denosumab on Prolonging Bone Metastasis-Free survival in Men with Hormone-Refractory prostate Cancer. Dr PK Julka, Dr Amlesh Seth, Dr Omana Nair, Dr Gursimran Kaur, Dr Renita Bhamrah. Funding: Quintiles. Start year: 2007. Funds: Rs 3,17,405.

- Clinical Impact of PET scan in patients with pelvic recurrence from cervical cancer following radiation therapy Investigator: Dr. DN Sharma. Funding: AIIMS.

**Departmental Research**

**Medical Oncology**

**Completed**

- Analysis of efficacy of chemotherapy ( irinotecan & oxaliplatin based) in advanced colorectal cancer- Under Dr Atul Sharma. No grant 2007-2009

• Oral voriconazole versus intravenous amphotericin B as antifungal prophylaxis in pediatric acute leukemia induction therapy: a randomized controlled study. Under Dr. Sameer Bakhshi

• Quantitative detection of broad range of aspergillus and candida species by RQ-PCR in pediatric acute leukemia induction. All India Institute of Medical Sciences, New Delhi, Under Dr. Sameer Bakhshi

**Ongoing**

• Analysis of patients of triple negative breast cancer
• Analysis of T cell lymphomas
• Analysis of neutropenic fever in Leukemia and lymphomas.
• Presentation and analysis of lung cancer at IRCH

**Medical Physics**

**Completed**

1. Development of Microsoft Acess based image reporting module

**Ongoing**

1. Development of protocol for quality assurance of medical image laser printer
2. Characterization of atherosclerotic plaque using CT scan
3. Continued maintenance of Microsoft Acess based image reporting module.
4. Patients’ dose determination in fluoroscopy guided RF ablation procedures.
5. Application of 4D imaging for modeling internal motion and deformation of lung.
6. Development of quick daily quality assurance check of mammography machine
7. Optimisation of chest imaging in digital fluoroscopy.

**Radiodiagnosis**

**Ongoing**

1. Ultrasound and CT evaluation of the neck for assessment of lymph node metastases in clinically N0 patients with squamous cell carcinomas of the upper aerodigestive tract.
2. Role of CT in management of patient with carcinoma of cervix.

**Radiotherapy**

**Completed**

1. The correlation of VEGF and TGF Beta expression to clinicopathological response, ER, PR and Her 2 Neu status in locally advanced breast cancer- A pilot study. Investigators : Dr Nikhil Joshi, Dr P K Julka, Dr G K Rath, Dr DN Sharma, Dr O. Nair, Dr Anurag Srivasthava, Dr Siddharth datta Gupta, Dr SN Dwivedi Funding - Nil
2. Comparison of two different schedule of HDR-ICRT in Carcinoma of Cervix of 7Gy vs. 9Gy at Point A in 3 & 2 weekly fractions respectively: A Prospective Randomized cohort study. Dr Vinay Kumar, Dr G K Rath, Dr P K Julka, Dr DN Sharma. Funding - Nil

3. PET CT in predicting response to chemo radiotherapy in carcinoma cervix Dr Jagdeeshan, Dr DN Sharma, Dr GK Rath, Dr Rakesh Kumar, Dr Sunesh Kumar, Dr A Malhotra. Funding – Nil

**Ongoing**

1. Comparative Study of Radiation therapy dose, volume evaluation for 3-D conformal radiotherapy (3-D CRT) Vs. Image guided radiotherapy (IGRT) and analysis of early response in Head and Neck squamous cell carcinoma. Dr BK Mohanti, Dr. Sujith Kumar M, (Junior Resident thesis)

2. Ultrasound and CT evaluation of the neck for the assessment of lymph node metastases in clinically No patients with squamous cell carcinoma of the upper aero-metastases in clinically No patients with squamous cell carcinoma of the upper aero-digestive tract (Dr. Abhishek Man Bajracharya, Junior Resident, Dept of Radio-diagnosis, MD Thesis).

3. Pilot Study to evaluate neoadjuvant chemotherapy in stage 3 retinoblastoma as per the international retinoblastoma staging system. (Dr. Venkatraman R, Dept of Medical Oncology, IRCH, DM Clinical thesis).

4. Study of Angiogenesis, Proliferative Activity and DNA Ploidy in Oral Verrucous Carcinoma: Comparision with Normal Mucosa, Verrucous Hyperplasia and Squamous Cell Carcinoma (Dr. Saumyaranjan Mallick, Junior Resident, Dept of Pathology, MD Thesis).

5. Prospective comparative analysis of 3D-CT based treatment planning with 2D radiography based treatment planning for ICRT of Ca cervix. Dr Renu Madan, Dr Sushmita Pathy, Dr BK Mohanti, Dr Sanjay Thulkar, Dr. V Subramani, Dr Vatsala, Dr Lalit Kumar. Funding – Nil

6. A comparative assessment of quality of life of head and neck cancer patients treated with surgery and postoperative radiotherapy versus chemoradiotherapy. Dr Subhash, Dr Suman Bhasker, Dr BK Mohanti, Dr Atul Sharma, Dr Alok Thakkar. Funding – Nil

7. Clinical correlation of ER, PR and Her 2 neu expression and BRCA-I gene mutations in Indian Breast Cancer patients. Investigators: Dr. Gursimran Kaur, Dr P K Julka, Dr G K Rath, Dr S Datta Gupta, Dr R Parshad, Dr SN Das, Dr M Kabra. Funding – Nil.

**Surgical Oncology**

**Ongoing**


4. Assessment of Skin involvement in Breast cancer patients with T4b lesions.

5. Prophylactic antibiotics in surgical oncology patients.

Delhi Cancer Registry

Ongoing

1. Hospital Based Cancer Registry at Dr. BRAIRCH.

Collaborative research

1. Patient radiation dose determination in RF ablation procedure for tachycardia (Medical Physics Unit, Deptt. of Cardiology & Deptt. of Cardiac-radiology AIIMS).

2. Tumor burden estimation by FDG PET-CT using phantom and its application in pediatric lymphoma for treatment response evaluation (Medical Physics Unit, IRCH and Nuclear Medicine, AIIMS)

3. Promoter hyper methylation in tumor suppressing genes p16 & FHIT and their relationship with ER & PR status in female breast cancer patients of Northern India (Deptt of Surgical Oncology & Deptt. of Biosciences Jamia Milia Islamia).

4. Aberrant DNA methylation has been recognized in human breast carcinogenesis as a common molecular alteration associated with loss of expression of a number of key regulatory genes. This study was undertaken to determine whether methylation and expression of p16 and FHIT gene would correlate with ER & PR status in breast cancer patients. In 351 pairs of breast cancer tumor and normal breast tissue, there was no significance difference in tumor related gene methylation pattern and ER & PR status of breast tumors.

5. Studies on p-13 kinase in oral cancer (Deptt. of Biotechnology, Biochemistry, Surgical Oncology):
The study was performed in 52 oral cancer patients & 30 normal subjects. p-13 kinase expressed in serum of both oral cancer patients & healthy controls as observed by ELISA. The serum levels of oral cancer patients were significantly higher (p=.001) as compared to healthy controls & it has direct correlation with increasing clinical stage of disease.

6. To study the maximum handling capacity of patients at surgical Oncology OPD, Dr. BRAIRCH, AIIMS( Deptt. hospital administration & surgical Oncology):
The maximum number of patients which could be examined and handled by the surgical Oncology department of BRA IRCH is 71/day. Total patients which could be effectively seen is 12703 per year. Actual number of patients seen by Surgical Oncologist is much more than the maximum capacity of the department. This may be possible if doctors are sitting for longer time or possibly compromising quality of work. This problem can be resolved by restricting the number of patients and increasing the number of consultants & senior residents.

7. Clinical and structural proteomics of human saliva in patients of squamous cell carcinoma of oro pharynx (Department of Biophysics & Surgical Oncology):
50 patients of squamous cell carcinoma of oral cavity were studied along with 50 normal controls who have not consumed tobacco in any form. Unstimulated saliva (about 5 ml) was collected from control group as well as study group and was analysed for proteomic study. Three differentially expressed proteins were found to be present in oral cancer patients viz. cytoskeletal associated protein -2 (CKAP-2), Cytokeratin -1 and a hypothetical protein.

8. Adjuvant tamoxifen long against short (ATLAS)- Multi center International Trial, Oxford, UK. (Department of Medical oncology & Surgical Oncology).
9. Cell cycle regulatory proteins WAF-e and p 16 in human esophageal cancer. (Department of Biochemistry, Surgical oncology, Pathology).

10. Multicentric National Program on Evaluation and validation of molecular markers in oral cancer: A cross sectional study. (Department of Biochemistry and Surgical Oncology).

11. To evaluated microsatellite instabilities in different chromosomes in Indian female breast cancer patients. (Department of Surgical Oncology and Department of Biosciences, Jamila Milia Islamia, New Delhi).

12. Role of CT scan and MRI in the evaluation of locally advanced Oral cancer. (Department of Radio Diagnosis & Surgical Oncology).

13. Molecular Evaluation of p 21 WAF -1 gene in Indian Female Breast Cancer Patients (Department of Surgical Oncology and Department of Bio Sciences, Jamia Milia Islamia).

14. Molecular basis of tobacco associated oral carcinogenesis. (Department of Biochemistry & Surgical Oncology).

15. “A randomized, double-blind, placebo-controlled, multi-center phase III study to evaluate the efficacy and safety of pazopanib (GW786034) compared to placebo in patients with locally advanced and/or metastatic renal cell carcinoma” VEG105192(Department of Medical Oncology & Surgical Oncology).

16. “An open label, non randomized phase II trial of oxaliplatin, docetaxel and capecitabine in advanced esophageal and gastric adenocarcinoma” Protocol 0701(Dept. of Medical Oncology, Surgical Oncology, and Radiation Oncology).

17. “A randomized, double-blind, multicenter, placebo controlled study of adjuvant lapatinib in women with early stage ErbB2 over expressing breast cancer”(Department of Medical Oncology & Surgical Oncology).

18. “A randomized, open label multicenter study of single agent Larotaxel (XRP9881) at 90 MG/M2 every 3 weeks compared to continuous administrative of 5-FU for the treatment of patients with advanced pancreatic cancer previously treated with a gemcitabine-containing regimen”(Department of Medical Oncology & Surgical Oncology).

19. Molecular Analysis of Genetic variation in Cytokinin in Female Breast Cancer patients in India (Department of Surgical Oncology& Department of Biosciences, Jamia Milia Islamia).

20. “Clinical significance of TC21/R-Ras2 over expression in Oral Cancer”(Department of Biochemistry & Surgical Oncology).

21. “A Pivotal trial to determine the efficacy and safety of AP23573 when administered as maintenance therapy to patients with Metastatic soft tissue or bone sarcomas. (deptt. of Medical Oncology & Surgical Oncology).

22. An asia pacific non randomized , open – label phase II study evaluating the safety and efficacy of FOLFIRI plus cetuximab (Erbitux) or FOLFOX plus cetuximabin in patients with KRAS wild type metastatic colorectal cancer (APEC study). (Department of Medical Oncology & Surgical Oncology).
23. Role of computed tomography in the staging & management of carcinoma cervix (Department of Radio Therapy, Radio Diagnosis & Surgical Oncology).

24. Molecular analysis of p21 gene in Indian female breast cancer patients. (Department of Surgical Oncology, Department of Biosciences, Jamia milia Islamia)

25. EGFR & Basal cytokeratin expression in Triple negative & non triple negative breast cancer.(Department of Medical Oncology, Department of Surgical Oncology)

26. Functional & phenotypic characteristic of Natural killer T cell and dendritice cells in oral cancer. (Department of biotechnology, Department of Surgical Oncology)

27. Studies on Beclin-1, mTOR Signaling and Autophagy in Oral Cancer (Vaishali Kapoor, MSc Student, Dept of Biotechnology & Dept of Radiation Oncology).

28. Adjuvant Tamoxifen long against short (ATLAS) - Multi center international trial, Oxford, UK. (Surgical Oncology, Medical oncology & Radiation Oncology). Funding:- ATLAS

29. Randomized study of Preoperative short course radiotherapy (25 Gy) vs. preoperative Concurrent radiotherapy (45 Gy) and chemotherapy followed by Surgery in rectal cancer. (Radiation Oncology, Surgical Oncology, Medical Oncology, Pathology, Radiodiagnosis).

30. National Retinoblastoma Registry-Delhi site, a collaborative study under ICMR, New Delhi, India. (collaborating departments of IRCH-radiation oncology, ICMR, New Delhi)

31. Evaluation of Curcumin in the management of advanced cancer cervix. (Collaborating departments - Departments of Radiotherapy, Gynecology, Biochemistry and Pathology)

32. Incremental role of F-18 FDG PET-CT in evaluating response to primary treatment in advanced epithelial ovarian cancer patients (Nuclear Medicine and Radiodiagnosis)

33. Hodgkin’s lymphoma: Analysis of treatment outcomes and prognostic factors (Medical Oncology and Radiodiagnosis)

34. Oral Voriconazole vs intravenous low dose Amphotericin B for Primary Antifungal Prophylaxis in Pediatric Acute Leukemia Induction: A Prospective, Randomized, clinical trial (Medical Oncology and Radiodiagnosis).

35. Prothrombotic factors in patients with newly diagnosed multiple myeloma: an observational study (Medical Oncology and Radiodiagnosis)

36. Randomized study comparing up front surgery followed by chemotherapy versus upfront chemotherapy followed by interval debulking surgery in previously untreated epithelial ovarian cancer stage 3C and stage 4 (pleural effusion only). (Dept. of Medical Oncology and gynecology and Radiodiagnosis).

37. Validation of gel dosimetry as 3D verification tool in highly conformal radiotherapy techniques (Neurobiochemistry and Radiotherapy and Radiodiagnosis).

38. Comparison of CT, MRI and PET CT in evaluation of focal pancreatic masses and its correlation with the histopathology (Nuclear Medicine and Radiodiagnosis).

39. A study of angiogenesis, proliferative activity and DNA ploidy in squamous cell carcinoma of larynx and their correlation with lymph node metastasis (Pathology and Radiodiagnosis)
40. Comparative study of radiation therapy dose, volume evaluation for 3D conformal radiotherapy (3D CRT) Vs. Image guided radiotherapy (IGRT) and analysis of early response in head and neck squamous cell carcinoma (Radiotherapy and Radiodiagnosis)

41. Prospective comparative evaluation of 3D CT based treatment planning and 2D radiography based treatment planning for intracavitatory brachitherapy in carcinoma cervix (Radiotherapy and Radiodiagnosis)

42. Prevalence of vitamin D deficiency and rickets in patients of congenital icthyosis and keratinizing disorders in age group less than 21 years (Dermatology and Radiodiagnosis)

43. Validation of gel dosimetry as 3D verification tool in highly conformal radiotherapy techniques (Neurobiochemistry and Radiodiagnosis)

44. Role of magnetic resonance imaging and spectroscopic methods in evaluation of prostate cancer (NMR and Radiodiagnosis)

45. Assessment of therapeutic response of radiolabeled anti CD20 antibodies $^{131}$Iodine Rituximab and /or $^{90}$Yttrium Rituximab in diffuse large B cell non Hodgkin lymphoma (Nuclear Medicine and Radiodiagnosis)

46. Characterization and dosimetric evaluation of thermoluminescent phosphors (Medical Physics and Radiodiagnosis)

47. Role of Minimally invasive guided therapy in treatment of focal liver Neoplasms- (Anaesthesiology and Department of Radiodiagnosis)

48. Role of Minimally invasive guided therapy in treatment of lung metastasis. (Anaesthesiology and Department of general surgery)

49. Role of Minimally invasive guided therapy in treatment of focal bone Neoplasms- Anaesthesiology and Department of orthopaedics

50. Prothrombotic Factors in Patients with Newly Diagnosed Multiple Myeloma- an Observational Study- Under Dr Atul Sharma. AIIMS extra mural grant 2008- 2009. (Medical Oncology and department of Haematology)

51. Evaluation of percentage purity of anti cancer and anti microbial compounds using HPLC. Under Dr. Atul Sharma- No funding. (Medical Oncology and department of Ocular Pharmacology)

52. To evaluate the role of $^{99m}$Tc-DMSA(V) and $^{18}$F-FDG-PET-CT in the management of patients with osteosarcoma. All India Institute of Medical Sciences, New Delhi- Under Dr. Sameer Bakhshi. (Medical Oncology and Department of Nuclear Medicine)

53. Tumor burden estimation by $^{18}$F-FDG PET/CT using phantom and its application in pediatric lymphoma for treatment response evaluation. All India Institute of Medical Sciences, New Delhi- Under Dr. Sameer Bakhshi. (Medical Oncology and Department of Nuclear Medicine)

54. Assessment of cisplatin ototoxicity in children treated for solid tumors. All India Institute of Medical Sciences, New Delhi- Under Dr. Sameer Bakhshi. (Medical Oncology and Department of Pediatric Surgery)
55. “An Open label, Non Randomized Phase II Trial of Oxaliplatin, Docetaxel, and Capecitabine in advanced esophageal and gastric adenocarcinoma “ Protocol 0601 Under Dr. Atul Sharma. (Medical Oncology and department of Surgical Oncology, Radiation Oncology)

56. T cell repertoire in plasma cell myeloma. Funding agency- DBT.13.0 lacs, 2007-continue under Dr. Atul Sharma. (Medical Oncology and laboratory oncology unit)

57. Endothelial progenitor cells as a biomarker of disease in multiple myeloma. Funding agency- DBT.17.0 lacs, 2007-continue-under Dr. Atul Sharma. (Medical Oncology and laboratory oncology unit)

58. Assessment of multi drug resistance pattern in AML and response to therapy. Funding 1.9 Lac-AIIMS- extra mural grant. Duration 2006- continue- Dr. Atul Sharma. (Medical Oncology and laboratory oncology unit)

59. Expression of ZAP 70 and CD 38 in patients of CLL. Duration 2008- continue-Under Atul Sharma. (Medical Oncology and laboratory oncology unit)

60. Role of PET-CT in staging and evaluation of early response to chemotherapy in patients of neuroblastoma and rhabdomyosarcoma. Under Dr. Sameer Bakhshi. (Medical Oncology and Nuclear Medicine and Pediatric Surgery)

61. Randomized trial comparing carboplatin 560mg/m² with 750mg/m² for ocular salvage in groups C and D intraocular retinoblastoma. Under Dr. Sameer Bakhshi. (Medical Oncology and ophthalmology)

62. Prognostic factors in the management of osteosarcoma: A clinical study. All India Institute of Medical Sciences, New Delhi, under Dr. Sameer Bakhshi. (Medical Oncology and Orthopedic)

63. Evaluation of tumor angiogenesis in locally advanced retinoblastoma. Under Dr. Sameer Bakhshi. (Medical Oncology and Ocular Pathology)

64. Pilot study to evaluate neoadjuvant chemotherapy in stage retinoblastoma as per the international retinoblastoma staging system. Under Dr. Sameer Bakhshi. (Medical Oncology and Ophthalmology, Nuclear Medicine, Ocular Pathology and Radiology)

PUBLICATIONS

Journal


15. Sharma DN, Rath GK, Thulkar S, Kumar S, Subramani V, Julka PK. Use of TRUS for interstitial brachytherapy for cervical carcinoma. J Gynecol Oncol 2010; 21(1); 12-17.


77. Das SC, Chauhan H, Gupta D, Mishra S, Bhatnagar S. Peaceful surrender to death without futile


Abstracts


Chapters in Books/Monographs/Reports

PATIENT CARE

1. **TOTAL BED STRENGTH**
   a. Medical Oncology (Regular/Short-Day care) = 78
   b. Radiation Oncology = 37
   c. Surgical Oncology = 61
   d. Palliative Care Unit = 06

2. **TOTAL OPD ATTENDANCE**
   a. New Patient’s = 8,504
   b. Revisits = 65,576

3. **DESCRIPTION OF VARIOUS OPD/CLINICS AT DR. BRAIRCH**

   Description of various OPD Clinics at DR. BRAIRCH YEAR-2009-2010

<table>
<thead>
<tr>
<th>No.</th>
<th>Name of the OPD/Clinic</th>
<th>New Registration</th>
<th>Revisits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Male</td>
<td>Female</td>
</tr>
<tr>
<td>1.</td>
<td>Adult Medical Oncology Clinic (AMOC)</td>
<td>555</td>
<td>380</td>
</tr>
<tr>
<td>2.</td>
<td>Adult Lymphoma Leukemia Clinic (ADLL)</td>
<td>125</td>
<td>69</td>
</tr>
<tr>
<td>3.</td>
<td>AML/HL Clinic</td>
<td>36</td>
<td>27</td>
</tr>
<tr>
<td>4.</td>
<td>ALL/CML Clinic</td>
<td>71</td>
<td>33</td>
</tr>
<tr>
<td>5.</td>
<td>Breast Cancer Clinic</td>
<td>54</td>
<td>427</td>
</tr>
<tr>
<td>6.</td>
<td>Bone &amp; Soft Tissue Clinic</td>
<td>151</td>
<td>96</td>
</tr>
<tr>
<td>7.</td>
<td>Gastro-Intestinal Clinic</td>
<td>341</td>
<td>261</td>
</tr>
<tr>
<td>8.</td>
<td>Gynaecology Clinic-‘A’</td>
<td>-</td>
<td>216</td>
</tr>
<tr>
<td>9.</td>
<td>Gynaecology Clinic-‘B’</td>
<td>-</td>
<td>630</td>
</tr>
<tr>
<td>10.</td>
<td>Head &amp; Neck (Surgery)-‘A’</td>
<td>183</td>
<td>42</td>
</tr>
<tr>
<td>11.</td>
<td>Head &amp; Neck (ENT)-‘B’</td>
<td>777</td>
<td>130</td>
</tr>
<tr>
<td>12.</td>
<td>Lung Cancer Clinic</td>
<td>97</td>
<td>16</td>
</tr>
<tr>
<td>13.</td>
<td>NHL/MM/CLL</td>
<td>109</td>
<td>58</td>
</tr>
<tr>
<td>14.</td>
<td>Ophthalmic Tumour Clinic</td>
<td>35</td>
<td>17</td>
</tr>
<tr>
<td>15.</td>
<td>Paediatric Medical Oncology Clinic (PDMOC)</td>
<td>206</td>
<td>73</td>
</tr>
<tr>
<td>16.</td>
<td>Paediatric Lymphoma Clinic (PDLL)</td>
<td>113</td>
<td>47</td>
</tr>
<tr>
<td></td>
<td>Paediatric Surgery Clinic</td>
<td>Pain Relief Clinic</td>
<td>Pain and Palliative Care Clinic (RT-II)</td>
</tr>
<tr>
<td>---</td>
<td>--------------------------</td>
<td>-------------------</td>
<td>----------------------------------------</td>
</tr>
<tr>
<td>17</td>
<td>83</td>
<td>43</td>
<td>126</td>
</tr>
<tr>
<td>18</td>
<td>216</td>
<td>188</td>
<td>404</td>
</tr>
<tr>
<td>19</td>
<td>01</td>
<td>03</td>
<td>04</td>
</tr>
<tr>
<td>20</td>
<td>1,233</td>
<td>1,113</td>
<td>2,346</td>
</tr>
<tr>
<td>21</td>
<td>103</td>
<td>90</td>
<td>193</td>
</tr>
<tr>
<td>22</td>
<td>20</td>
<td>07</td>
<td>27</td>
</tr>
<tr>
<td>23</td>
<td>220</td>
<td>18</td>
<td>238</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td><strong>3,885</strong></td>
<td><strong>8,504</strong></td>
</tr>
</tbody>
</table>

4. GEOGRAPHICAL DISTRIBUTION ACCORDING TO THEIR RESIDENCE YEAR 2009-2010 (Total = 8,504)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ASSAM 22</td>
</tr>
<tr>
<td>2</td>
<td>ARUNACHAL PRADESH 02</td>
</tr>
<tr>
<td>3</td>
<td>ANDHRA PRADESH 02</td>
</tr>
<tr>
<td>4</td>
<td>ANDAMAN AND NICOBAR ISLAND 01</td>
</tr>
<tr>
<td>5</td>
<td>AFGHANISTAN 01</td>
</tr>
<tr>
<td>6</td>
<td>BIHAR 966</td>
</tr>
<tr>
<td>7</td>
<td>BURMA 01</td>
</tr>
<tr>
<td>8</td>
<td>BANGLADESH 03</td>
</tr>
<tr>
<td>9</td>
<td>CHATTISGARH 10</td>
</tr>
<tr>
<td>10</td>
<td>CHANDIGARH 05</td>
</tr>
<tr>
<td>11</td>
<td>DELHI 2,936</td>
</tr>
<tr>
<td>12</td>
<td>DADAR AND NAGAR HAVELI 02</td>
</tr>
<tr>
<td>13</td>
<td>DAMAN AND DIU 01</td>
</tr>
<tr>
<td>14</td>
<td>HARYANA 984</td>
</tr>
<tr>
<td>15</td>
<td>HIMACHAL PRADESH 35</td>
</tr>
<tr>
<td>16</td>
<td>IRAQ 02</td>
</tr>
<tr>
<td>17</td>
<td>JAMMU AND KASHMIR 84</td>
</tr>
<tr>
<td>18</td>
<td>JHARKHAND 97</td>
</tr>
<tr>
<td>19</td>
<td>KERALA 12</td>
</tr>
<tr>
<td>20</td>
<td>KARNATAKA 04</td>
</tr>
<tr>
<td>21</td>
<td>MADHYA PRADESH 95</td>
</tr>
<tr>
<td>22</td>
<td>MEGHALAYA 06</td>
</tr>
<tr>
<td>23</td>
<td>MANIPUR 17</td>
</tr>
<tr>
<td>24</td>
<td>MIZORAM 01</td>
</tr>
<tr>
<td>25</td>
<td>MAHARASHTRA 06</td>
</tr>
<tr>
<td>26</td>
<td>NAGALAND 07</td>
</tr>
<tr>
<td>27</td>
<td>NIGERIA 02</td>
</tr>
<tr>
<td>28</td>
<td>NEPAL 40</td>
</tr>
<tr>
<td>29</td>
<td>ORISSA 76</td>
</tr>
</tbody>
</table>
30. PUNJAB &nbsp;&nbsp;&nbsp;66  
31. RAJASTHAN &nbsp;&nbsp;&nbsp;199  
32. SIKKIM &nbsp;&nbsp;&nbsp;28  
33. TRIPURA &nbsp;&nbsp;&nbsp;09  
34. TAMIL NADU &nbsp;&nbsp;&nbsp;03  
35. TAJIKISTAN &nbsp;&nbsp;&nbsp;01  
36. UTTAR PRADESH &nbsp;&nbsp;&nbsp;2,400  
37. UTTARAKHAND &nbsp;&nbsp;&nbsp;316  
38. WEST BENGAL &nbsp;&nbsp;&nbsp;62  
**TOTAL** &nbsp;&nbsp;&nbsp;8,504

5. **GEOGRAPHICAL DISTRIBUTION (OTHER COUNTRIES) FOR THE YEAR 2009-2010 (Total =50)**

<table>
<thead>
<tr>
<th>Country</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>AFGHANISTAN</td>
<td>01</td>
</tr>
<tr>
<td>BURMA</td>
<td>01</td>
</tr>
<tr>
<td>BANGLADESH</td>
<td>03</td>
</tr>
<tr>
<td>IRAQ</td>
<td>02</td>
</tr>
<tr>
<td>NIGERIA</td>
<td>02</td>
</tr>
<tr>
<td>NEPAL</td>
<td>40</td>
</tr>
<tr>
<td>TAJIKISTAN</td>
<td>01</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>50</td>
</tr>
</tbody>
</table>

6. **TOTAL ADMISSIONS** = 26,002  
   a. Regular = 4,918  
   b. Short/Day-Care = 21,084  

7. **TOTAL DEATHS** = 259

8. **TOTAL DISCHARGE** = 25,765  
   a. Regular = 4,831  
   b. Short/Day-Care = 20,934

9. **OPERATION THEATRE SERVICES** = 6,177  
   a. Major = 648  
   b. Minor = 5,529

10. **ELECTRO CARDIOGRAM (ECG)** = 2,057
11. ANAESTHESIOLOGY

1. ICU facilities for post operative patients.
2. PAC and Pain & Palliative Care Clinic is run Four times in a week in addition to the anaesthesiology related work.
3. Home support to patients with advanced malignancies by NGOs and keeping monthly meeting with them to know follow up reports
4. Providing critical care to patients of Radio therapy, Medical Oncology, and Surgical Oncology.
5. Facility for Pediatric Radiotherapy.
6. Anaesthesia for minor pediatric oncology procedures like Bone marrow biopsy, Central line insertion, Bone marrow Harvesting and others
7. Facility for Pediatric radiological procedures under anaesthesia, Radio frequency ablation for liver, lung, and breast carcinoma.

12. LABORATORY ONCOLOGY SERVICES FOR THE YEAR 2009-2010 (TOTAL = 68,051)

<table>
<thead>
<tr>
<th>Service</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. HEMOGRAM (HB, TLC, PLATELETS)</td>
<td>47,380</td>
</tr>
<tr>
<td>2. PERIPHERAL BLOOD SMEAR (PBS)</td>
<td>4,616</td>
</tr>
<tr>
<td>3. BONE MARROW ASPIRATION AND TOUCH PREPARATION (BM)</td>
<td>2,678</td>
</tr>
<tr>
<td>3. CYTO-CHEMISTRY</td>
<td>674</td>
</tr>
<tr>
<td>4. SERUM PROTEIN ELECTROPHORESIS (SPE)</td>
<td>1,863</td>
</tr>
<tr>
<td>5. IMMUNOFIXATION (IFX)</td>
<td>76</td>
</tr>
<tr>
<td>6. URINE ELECTROPHORESIS (UE)</td>
<td>191</td>
</tr>
<tr>
<td>7. FLOW</td>
<td>8,651</td>
</tr>
<tr>
<td>8. FNAC (LYMPH NODE)</td>
<td>81</td>
</tr>
<tr>
<td>9. ESR</td>
<td>1,593</td>
</tr>
<tr>
<td>10. APAAP</td>
<td>114</td>
</tr>
<tr>
<td>11. CYTO-SPIN</td>
<td>134</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>68,051</strong></td>
</tr>
</tbody>
</table>

13. MEDICAL ONCOLOGY LABORATORY SERVICES 2009-2010 (TOTAL= 1,838)

<table>
<thead>
<tr>
<th>Service</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. CYTOGENETIC</td>
<td>373</td>
</tr>
<tr>
<td>2. RT-PCR</td>
<td>203</td>
</tr>
<tr>
<td>3. CD-34</td>
<td>111</td>
</tr>
<tr>
<td>4. MNC</td>
<td>111</td>
</tr>
<tr>
<td>5. PBSC-80°C</td>
<td>34</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>6.</td>
<td>PBSC-4°C</td>
</tr>
<tr>
<td>7.</td>
<td>BMT ALLOGENIC</td>
</tr>
<tr>
<td>8.</td>
<td>INFUSION</td>
</tr>
<tr>
<td>9.</td>
<td>VIABILITY</td>
</tr>
<tr>
<td>10.</td>
<td>G.M. ELISA</td>
</tr>
<tr>
<td>11.</td>
<td>CYTOGENETICS FOR CHEMERISM</td>
</tr>
<tr>
<td>12.</td>
<td>CD-3 COUNTS BY FLOW CYTOMETRY</td>
</tr>
<tr>
<td>13.</td>
<td>IMMUNO PHENOTYPING FOR LEUKEMIA</td>
</tr>
<tr>
<td>14.</td>
<td>RQ-PCR</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
</tr>
</tbody>
</table>

**14. APHERESIS-2009-2010 (TOTAL= 13,810)**

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>SINGLE DONOR PLATELETS (SDP)</td>
<td>1,376</td>
</tr>
<tr>
<td>2.</td>
<td>HARVEST PERIPHERAL BLOOD STEM CELL (PBSC)</td>
<td>100</td>
</tr>
<tr>
<td>3.</td>
<td>HEMOGRAM</td>
<td>12,334</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>13,810</strong></td>
</tr>
</tbody>
</table>

Other than these routine tests being performed in the Medical Oncology lab, the lab is also involved in the PhD program. At present we have 5 PhD students enrolled with various faculty of Medical Oncology and these PhD students are using MO Lab facility for their thesis work. One PhD student has defended her thesis in January 2010 and one of the students has submitted the thesis in March 2010. One new student was registered for PhD program in January 2010.

**15. MEDICAL PHYSICS-UNIT 2009-2010 (TOTAL = 6,249)**

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>NO. OF BLOOD BAGS IRRADIATED</td>
<td>2,712</td>
</tr>
<tr>
<td>2.</td>
<td>QUALITY ASSURANCE TEST DONE ON X-RAY MACHINES</td>
<td>1,727</td>
</tr>
<tr>
<td>3.</td>
<td>QUALITY ASSURANCE TEST DONE AT FILM PROCESSOR AT ROOM NO. 10 (X-RAY)</td>
<td>479</td>
</tr>
<tr>
<td>4.</td>
<td>QUALITY ASSURANCE TEST DONE AT ROOM NO. 46 (X-RAY)</td>
<td>114</td>
</tr>
<tr>
<td>5.</td>
<td>RADIATION OUTPUT MEASUREMENTS IN X-RAY UNITS</td>
<td>200</td>
</tr>
<tr>
<td>6.</td>
<td>QUALITY ASSURANCE TEST DONE ON FILM PROCESSOR AT ROOM NO. 77 (RADIOLOGY, AIIMS)</td>
<td>241</td>
</tr>
<tr>
<td>7.</td>
<td>RADIATION PROTECTION SURVEY MEASUREMENTS</td>
<td>05</td>
</tr>
<tr>
<td>8.</td>
<td>QUALITY TEST DONE ON FILM PROCESSOR AT ROOM NO.73 (RADIOLOGY, AIIMS)</td>
<td>18</td>
</tr>
<tr>
<td>9.</td>
<td>DOSE MEASUREMENT BY GAFEHROMIC FILM</td>
<td>01</td>
</tr>
<tr>
<td>10.</td>
<td>QUALITY TEST DONE ON FILM PROCESSOR IN ROOM NO. CASUALTY (RADIOLOGY, AIIMS)</td>
<td>12</td>
</tr>
<tr>
<td>11.</td>
<td>ADVISE IN INADVERTENT EXPOSURE TO PREGNANCY</td>
<td>10</td>
</tr>
</tbody>
</table>
12. QUALITY TEST DONE ON FILM PROCESSOR IN ROOM NO. 80 (RADIOLOGY, AIIMS) | 14
13. RADIATION OUTPUT CONSISTENCY IN MAMMOGRAPHY | 547
14. QUALITY TEST DONE ON FILM PROCESSOR IN ROOM NO. 84, AIIMS | 20
15. QUALITY TEST DONE ON FILM PROCESSOR IN RADIOLOGY, NEW PRIVATE | 62
16. QUALITY TEST DONE ON FILM PRINTER IN DR. BRAIRCH, CT. ROOM NO. 43 | 36
17. QUALITY TEST DONE ON FILM PRINTER IN RADIOLOGY, (CT ROOM NO. 8) | 51

**TOTAL** | 6,249

16. **RADIO DIAGNOSIS SERVICES 2009-2010 (TOTAL = 21,546)**

<table>
<thead>
<tr>
<th>Service</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>CT SCAN</td>
<td>4,953</td>
</tr>
<tr>
<td>INTERVENTIONS</td>
<td>776</td>
</tr>
<tr>
<td>MAMMOGRAPHY</td>
<td>760</td>
</tr>
<tr>
<td>SPECIAL INVESTIGATIONS</td>
<td>83</td>
</tr>
<tr>
<td>ULTRA SOUND</td>
<td>4,507</td>
</tr>
<tr>
<td>X-RAY (OPD+WARD+PORTABLES)</td>
<td>10,469</td>
</tr>
<tr>
<td>DOPPLER</td>
<td>204</td>
</tr>
<tr>
<td>INTERVENTION (Ma)</td>
<td>02</td>
</tr>
</tbody>
</table>

**TOTAL** | 21,546

17. **RADIO THERAPY SERVICES 2009-2010 (TOTAL = 1,62,736)**

<table>
<thead>
<tr>
<th>Service</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>CASES ON RADIO THERAPY</td>
<td>73,190</td>
</tr>
<tr>
<td>TOTAL FIELD ON RADIO THERAPY</td>
<td>18,9452</td>
</tr>
<tr>
<td>CASES ON BRACHETHERAPY</td>
<td>1,041</td>
</tr>
<tr>
<td>TREATMENT PLANNING AND SIMULATION</td>
<td>5261</td>
</tr>
<tr>
<td>2D AND 3D DISTRIBUTIONS</td>
<td>987</td>
</tr>
<tr>
<td>COMPENSATORS</td>
<td>460</td>
</tr>
<tr>
<td>SHIELDING BLOCKS, IMMOBILIZATION DEVICES AND ORIFITS</td>
<td>1,820</td>
</tr>
<tr>
<td>RADIATION REVIEW CLINIC</td>
<td>5,894</td>
</tr>
<tr>
<td>NUMBER OF CASES OF CHEMOTHERAPY</td>
<td>7,707</td>
</tr>
<tr>
<td>NUMBER OF INJECTIONS</td>
<td>42,694</td>
</tr>
</tbody>
</table>

**TOTAL** | 328,506
18. (a.) OPD PROCEDURES TREATMENT ROOM NO. 15 (TOTAL = 3,839)
(b.) OPD PROCEDURES TREATMENT ROOM NO. 15 (TOTAL = 740)

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Count</th>
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<tbody>
<tr>
<td>DRESSING</td>
<td>642</td>
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<tr>
<td>SUTURE REMOVAL</td>
<td>97</td>
</tr>
<tr>
<td>NG TUBE REMOVAL</td>
<td>01</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>740</strong></td>
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</table>

(c.) CHEMOTHERAPY SERVICES (OPD) (TOTAL = 13,247)

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
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</thead>
<tbody>
<tr>
<td>MALE CT</td>
<td>9,273</td>
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<tr>
<td>FEMALE CT</td>
<td>3,620</td>
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<tr>
<td>MALE CHILD CT</td>
<td>238</td>
</tr>
<tr>
<td>FEMALE CHILD CT</td>
<td>116</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>13,247</strong></td>
</tr>
</tbody>
</table>

19. DELHI CANCER REGISTRY

- The Delhi Cancer Registry is a Population Based Cancer Registry covers an urban area of 891.09 Square kilometers of Delhi Municipal Corporation, New Delhi Municipal Committee and Delhi Cantonment and 29 census town with an estimated population of 16154387 (Males : 8889315, Females :7265072) persons in year 2006.
- The crude cancer incidence in Delhi during the year 2006 among males and females are 76.6 and 84.2 per 100,000 persons respectively.
- The first five most common sites of cancer in Delhi among males during 2006 as per World Age adjusted incidence rates per 100,000 persons are lung (14.2), prostate (11.5, tongue (8.6)), larynx (8.0) and bladder (6.3).
- The five leading sites of cancer in females during 2006 are breast (32.1), cervix uteri (18.1), ovary (8.6), gall bladder (8.5) and corpus uteri (4.2).

Community Service

Prof. G.K. Rath

- Delivered a talk on “Cancer in women” in Loksabha TV on 20th May 2009
- Delivered a talk on “Cancer scenario in India on National cancer control programme” on Delhi Doordarshan on 7th July 2009
- “National Cancer Registry” in Tribune News Service, New Delhi, on March 25, 2010
- “HPV vaccination” in Indian Express on 27th March, 2010
- “Cancer cervix screening” in DNA on 4th April 2009

Prof. P.K. Julka

- AIR Phone-in Program on Head and Neck Cancers, 22nd July 2009.
- Participated in Cancer Awareness Camp organized by BSNL Heart Care Foundation of India, New Delhi, 6th September 2009.
• AIR Phone-in Program, 7th September 2009.
• Television Program on Breast Cancer, Total Health Live Show, Delhi Doordarshan News, 18th October 2009.
• Television Program on Recent Advances in Cancer Management, Total Health Live Show, Delhi Doordarshan News, 24th January 2010.
• Television Program on Cancer Awareness on World Cancer Day, Total Health Live Show, Delhi Doordarshan News, 4th February 2010.
• AIR Live Program on Head and Neck Cancer, 3rd March 2010.

Prof. N.K. Shukla
• Dr. N.K. Shukla participated in the free cancer detection and treatment camp organized by Ujjain Charitable Trust Hospital & Research Centre and Sattya Sai Society Ujjain on 4th & 5th July 2009 at Ujjain.
• Dr. N.K. Shukla was involved in care and advice to the ostomates (patients of colostomy, ileostomy and Urostomy).

Prof. B.K. Mohanti
• Conducted 3 Telemedicine patient care consultations with doctors of SKIMS, Srinagar.

AWARDS AND HONOURS

Dr. G. K. Rath
• Elected as the Fellow of National Academy of Sciences, India.
• Chief Guest and inaugurated the CME on Head and neck malignancies” at the Government Medical College & Hospital, Chandigarh on 2nd May 2009.
• Award of Honour of the Banaras Hindu University on the occasion of golden jubilee celebration of Institute of medical sciences (1960-2010).
• Chief Guest at the “Foundation day Oration” of the Institute of Cytology and Preventive Oncology and delivered a lecture on “Prevention and Early detection of Breast Cancer: Indian Scenario” on 11th January 2010.
• Delivered the “Dr. Raman Chadha Oration” on “Role of modern radiation oncological approaches for organ structure & function preservation in cancer management” at New Delhi on 27th March, 2010.
• Keynote Address “Cancer Control Program in India” at the 14th Annual Conference of Northern Chapter of Association of Radiation Oncologists of India organized by SKIMS at Srinagar on 11th April, 2009.

Dr. G. K. Rath is the Chairman of
• Expert group of Govt. of Gujarat to prepare “A road map for the statewide cancer screening program” organized by the GCRI, Ahmedabad
• PRSG (Project Review and Steering Group) of the project entitled “Development of Oncology Management system for RCC, Thiruvananthapuram being implemented by the Centre for
Development of Advanced Computing (C-DAC), of the Ministry of Communications and Information Technology, Government of India.

• PRSG of the Ministry of Committee and Information and Technology, Govt. of India on “Design and development of Electronic portal imaging device for radiation therapy” being carried out by CSIO (Central Scientific and Industrial Organization), Chandigarh and TSG integration, New Delhi.

• ICMR Task force Project on Breast Cancer and Malignant Brain Tumors.

• Curriculum committee for MD (Radiotherapy) of Medical Council of India.

• Steering Committee of NCRP (National Cancer Registry Program), ICMR.

• ICMR task force on Cancer Management Guidelines.

• Ethics Committee, Institute of Cytology and Preventive Oncology (ICPO), ICMR.

• Technical bid evaluation committee for the procurement of the high energy linear accelerator at CNCI, Kolkata.

**Dr. G. K. Rath is a member of expert Committees/ Bodies of the following:**

• Search Committee for selecting the Director for the Regional cancer centre, Thiruvananthapuram.

• Governing Bodies of four Regional Cancer Centers (Acharya Tulsi Regional Cancer Center, Bikaner, Kamla Nehru Memorial cancer center, Allahabad, Acharya Harihara Regional Cancer Center, Cuttack and Regional Cancer Center, Agartala).

• Standing Committee on Radiotherapy Development Program, DteGHS, Ministry of Health and Family Welfare, Govt. of India.

• Safety Review Committee for Application of Radiation (SARCAR), Atomic Energy Regulatory Board (AERB), Anushakti Nagar, Mumbai, Govt. of India.

• Technical committee chaired by the honorable minister of health and family welfare, Govt. of Orissa on “Blue print for autonomy for the VSS Medical college, Burla and other medical colleges of the Orissa State”.

• Academic Senate of the Manipal University.

• Committee of experts of the DteGHS, MOHFW for the revision of Standards of hospitals with 30 and 100 beds indoor facility.

• SAG (Scientific Advisory Group), ICMR.

• Indo American Cancer Association.

• Governing Body of Delhi State Cancer Institute, New Delhi.

• Governing Body of the Bhagwan Mahavir Cancer Center, Patna.

• Cancer Research Foundation of India.

• Forum for Breast Protection.

• Anti Cancer trust.
• Indian Cancer Winner’s Association.

• Technical evaluation committee meeting for the procurement of linear accelerator at the regional cancer center, SKIMS, Srinagar.

• Technical expert for assisting the selection committee for the recruitment of various levels of posts for faculty in radiation oncology and in medical physics at Delhi State Cancer Institute, New Delhi.

• External examiner for MD (Radiotherapy) of PGIMER, Chandigarh; IGIMS, Shimla and MGM Medical College, Indore

• Appraiser for DNB Radiotherapy for Batra Hospital New Delhi and Dharamshila cancer hospital, New Delhi.

• Technical specification committee meeting for the procurement of linear accelerator at the AHRCC, Cuttack.

• Technical committee for purchase of CT simulator and low energy linear accelerator for GMC, Srinagar and GMC, Jammu respectively.

• Advisory committee of the national conference on Accelerator & Low Level Radiation safety at IUAC (Inter University Accelerator Center), New Delhi.

• Advisory Committee, DRBRAIRCH, AIIMS.

• Technical advisory committee (TAC) and Purchase Management Committee (PMC) of Delhi State Cancer Institute (DSCI), Govt. of NCT, Delhi.

• The sub group of Ministry of Information and Technology, Govt. of India to review the progress of the Jai Vigyan project, Ministry of Communication and Information Technology, Govt. of India on development & deployment of 6 MV Medical Linear Accelerator.

• Task force subcommittee on review of guidelines for the management of stomach cancer, Indian Council of Medical Research, New Delhi.

• Technical Advisory Group (TAG) for the demo project on Screening technologies to advanced rapid testing (START) project on a new HPV testing (Fast HPV or Care HPV) for the screening of cervical cancer in a rural community at Noida of ICPO.

• Cancer foundation, Delhi

• Project Review Committee on Working Group of Medical Electronics, Ministry of Information Technology, Govt. of India.

• Project Review Committee, Oncology, Indian Council of Medical Research, New Delhi.

• Project Review Committee (North East), ICMR, New Delhi.

• Scientific Advisory Committee of three Institutes (a) Gujarat Cancer and Research Institute, Ahmedabad, (b) Institute of Pathology, ICMR and (c) Institute of Cytology and Preventive Oncology, ICMR.

• Committee chaired by health secretary, Govt of NCT, Delhi for prevention and early diagnosis of cancer in Delhi.
Dr. G. K. Rath is
Advisory Editor of
- Journal Academy of Hospital Administration

Member of Editorial Board of
- Member of Editorial Board of
- Indian Journal of Chest Disease and Allied Sciences
- Indian Journal of Cancer
- International Journal of Biosciences and Technology
- Journal of Contemporary Brachytherapy

Consulting Editor
- Journal of Cancer Research and Therapeutics

Reviewer for
- Clinical Oncology
- International Journal of Biosciences and Technology
- Eastern Journal of Medicine
- Projects submitted to ICMR on Oncology

Prof. P. K. Julka is member/ awardee
- Indian Medical Association (IMA) Best Orator of the Year Award, 2009.
- Chairperson, ICRO (Indian College of Radiation Oncology), 2008-2009
- MCI Inspection for MD (RT) at MLN Medical College, Allahabad, 25th April 2009.
- MCI Inspection, Vaidehi Medical College, Bangalore, 12th October 2009.
- Expert for Purchase of CT Simulator, LNJP Hospital, New Delhi, 26th October 2009.

Prof. N.K. Shukla
- Felicitated by the chief minister of Madhya Pradesh and awarded a momento by him for his selfless services in cancer camps on 5th July 2009.
- Dr. N.K. Shukla was appointed as local appraiser by the National Board of Examination to assess the training infrastructure for the DNB candidates and to assess the quality of training by Dharamshila Hospital and research Centre, Delhi.

Prof. B. K Mohanti is a member/ awardee
- Dr BK Mohanti has been appointed as an external Expert by the European Commission (EC), Brussels, Belgium, for Framework-Health under EC-FP7-Health-Cancer area activities of 27 EC countries, 2010.
- Nominated as National Faculty for the Institute of Palliative Medicine, Calicut, by Indian Association of Palliative Care and as Steering Committee member of ‘Care of Older people in India’.
• Reviewer of manuscripts for National Medical Journal of India, Indian Journal of Palliative Care and Supportive Care Cancer

• Appointed as External Examiner for MD (Radiotherapy) by Nizam’s Institute of Medical Sciences (NIMS), Hyderabad, A. P. for year 2009-2010.

• External Examiner for IAPC certificate course examination conducted at Choithram Hospital, Indore on 9th Aug 2009 and at PGIMER, Chandigarh on 10th January 2010.

Dr. S.V.S. Deo

• Dr. SVS Deo was selected as a member of American society of breast diseases.

• Dr. SVS Deo was invited as a life member of European society of Surgical Oncology.

• Dr. SVS Deo was appointed as a scientific reviewer for Health Information Research Unit, McMaster University, UK.

• Dr. SVS Deo was nominated as a reviewer of cancer related research projects for funding for International union against cancer (UICC), Geneva, Switzerland.

Dr. Shushma Bhatnagar

• Dr. Sushma Bhatnagar is selected as Chair Person of Scientific Committee in 18th International Conference on Indian association of Palliative Care 10th -13th Feb 2011 to be held at SGPGI, Lucknow.

• Dr. Sushma Bhatnagar was selected as an Editor of Indian Journal of Palliative Care.

• Invited as Chair Person in Poster session in XVII International Conference of Indian Association of Palliative Care held from 11th to 14th February 2010 at Trichirappalli, Tamilnadu.

• Dr. Sushma Bhatnagar was called as an external examiner for IAPC certificate Course on 2nd Jan 2010 at Bhagavan Mahavir Cancer Hospital and Research Center, Jaipur.

Dr. Pratik Kumar

• Dr. Pratik Kumar was invited as Visiting Faculty, Department of Radiodiagnosis, B.P. Koirala Institute of Health Sciences, Dharan, Nepal.

• Dr Pratik Kumar was nominated Member, Technical Evaluation Committee, National Informatics Centre Service Inc. (NICSI: A Govt. of India Enterprise under NIC) for the empanelment of agencies for setting-up and running telemedicine centers of Onconet India.

• He was invited as Examiner, Rajasthan university of Health Sciences, Jaipur for B.Sc. Radiation Technology; Member, Selection Committee, Sri Venkateswara College, University of Delhi for the appointment of Research Associate and Referee for Oman Medical Journal.

• Dr Pratik Kumar continued to be the Editor, Medical Physics Chronicle; member of the Editorial Board of Journal of Medical Physics; Member of Electro-medical Equipment Sectional Committee, BIS, New Delhi; Member, Executive Committee, Association of Medical Physicists of India (AMPI), Referee for Journal of Medical Physics, Examiner for Annamalai University, Chidambaram, Tamilnadu, Question setter for Homi Bhabha National University, Mumbai and Examiner for Sher-I- Kashmir Institute of Medical Sciences, Srinagar.
Dr. Seema Mishra
• Dr. Seema Mishra was selected as a Member of Editorial Reviewer Board of *American Journal of Hospice and Palliative Medicine*.
• Dr. Seema Mishra was selected as a Member of Editorial Board of Indian Journal of Palliative Care.
• “Interventional Pain Fellowship” at Pain Management Center at Mount Sinai Medical Center at New York, USA by Dr. Seema Mishra from 23rd Oct -6th Nov 2009.

Dr. Ritu Gupta

Dr. M Singh
• Dr. M Singh Senior Resident surgical Oncology was awarded 2nd prize in best oncology resident category for presentation of a paper “Combined entitled modality management of locally advanced sebaceous cell carcinoma of eyelid” in RGCON 2010 international oncology conference.

Dr. Shiv Pratap Singh Rana
• Dr. Shiv Pratap Singh Rana (Senior Resident Anaesthesia) received a Travel grant from CSIR, 2009 for attending the conference ASA 2009, 18-21st Oct, New Orleans, USA and for Observer ship (22nd Oct -3rd Nov. 2009) at Detroit Medical Center, Detroit, USA

SIGNIFICANT EVENTS
The department of anaesthesiology organized a CME on “Pain Management “on 4th Oct.2009 at Dr. BRA, IRCH, and AIIMS.

VISITING SCIENTISTS
• Dr. Bonnefoy from France, who was invited by the ICMR, visited the department of Radiotherapy on 10th December 2009.

ADMINISTRATION
Chief : Professor G.K. Rath
Office Supdt. : Sh. Karam Chand
Total No. of Staff of Dr. BRAIRCH including Faculty:

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<td>Grp. A &amp; B</td>
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AIIMS 2009-2010 / 689
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**DELIHI CANCER REGISTRY**

Scientist VI: Dr. B.B. Tyagi  

**FINANCE**

Accounts Officer: Sh. D.P. Gangal  

**STORES**

Asst. Store Officer: Sh. T.R. Mahajan
### 10.5 Neurosciences Centre

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<thead>
<tr>
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<tr>
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<td>Hari Hara Dash</td>
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<tr>
<td><strong>NEUROANAESTHESIOLOGY</strong></td>
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<tr>
<td>Professor and Head</td>
<td>Hari Hara Dash</td>
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<tr>
<td>Professor</td>
<td>Parmod K. Bithal</td>
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<tr>
<td>Additional Professor</td>
<td>Arvind Chaturvedi</td>
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<td>Rajendra Singh Chouhan</td>
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<td>Mihir Prakash Pandia</td>
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<td>Girija Prasad Rath</td>
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<td>Hemanshu Prabhakar</td>
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<td><strong>NEUROLOGY</strong></td>
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<td>Professor and Head</td>
<td>Madhuri Behari</td>
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<td>Professors</td>
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<td>Associate Professors</td>
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<td>Sumit Singh*</td>
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<td>Garima Shukla</td>
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<td>Rohit Bhatia</td>
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<td>Mamta Bhushan Singh</td>
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*Dr Sumit Singh resigned from his post of Associate Professor in October 2009.*

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<td>Professor and Head</td>
<td>A.K. Mahapatra</td>
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<tr>
<td>Professor</td>
<td>B.S. Sharma (on deputation)</td>
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<td>Associate Professors</td>
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<td>Sarat P Chandra</td>
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<td>Manmohan Singh</td>
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</table>
NEUROANAESTHESIOLOGY

Other Staffs

Eleven (11) DM – Neuroanaesthesiology students and 18 Non–academic Senior Residents (including 10 in Trauma centre) were part of the department.

EDUCATION

Postgraduate Teaching

1. Eight (8) MD-Anaesthesiology students (1.5 months each) from Anaesthesiology department, AIIMS, and 03 PG students (from Lady Hardinge Medical College New Delhi-Two weeks each) received neuroanaesthesiology training in the department.

2. Twelve (12) Senior Residents (08 from Department of Anaesthesiology, AIIMS & 04 from Unit of Anesthesiology, BRAIRCH received training in Neuro-anaesthesiology for variable periods as a part of interdepartmental rotation policy on mutual exchange basis.

3. Three DNB students from Tata Main Hospital, Jamshedpur (05.01.2009 TO 19.01.2009) received training in Neuroanaesthesiology.
4. Once a week (Saturdays) Seminars, Journal club and case presentations as a part of departmental teaching programme were organized for 2½ hours at a time.

**Short-Term Training**

1. Dr. Riyadh Firdaus, from Indonesia (From 17.07.2009 to 16.09.2009)
2. Dr. Tanuja Anand, from SAIL hospital Bhilai (From 17.07.2009 to 26.08.2009)

**CME**

Nil

**Lectures Delivered**

**Prof. H. H. Dash**

- ‘Management of status epilepticus’, CME on Recent advances in Anaesthesia at Burla, Orissa, 21\(^{st}\) - 23\(^{rd}\) June 2009.
- ‘Perioperative neuroprotection’, 1\(^{st}\) Annual Conference of Indian College of Anaesthesiologists (ICACON2009), New Delhi, 21\(^{st}\) - 22\(^{nd}\) Nov 2009.
- ‘Drugs in Neuroanesthesia: role of inhalational agents’, 2\(^{nd}\) International Anesthesia Symposium held at Guangzhou, China from 8\(^{th}\) - 10\(^{th}\) Jan 2010
- ‘\(N_2O\) vs. compressed air in Neuroanaesthesia’, 7\(^{th}\) Obstetrics Society of Asia Oceania & 7\(^{th}\) International Meeting of Indonesian Society of Obstetric Anesthesia & Indonesian Society of Regional Anaesthesia & Pain Medicine held at Jakarta, Indonesia from 17\(^{th}\) - 20\(^{th}\) Feb 2010.
- ‘Trigeminal Neuralgia’, JN Medical College Hospital, Aligarh, India on 27\(^{th}\) Mar 2009
- Anaesthetic considerations in neurosurgical patients’, Postgraduate Assembly 2010, Sir Gangaram Hospital, New Delhi, 16\(^{th}\) Feb 2010.
- Prof. P. K. Bithal delivered a lecture on ‘Quality management in hospital services’ in the CME organized by Department of Hospital Administration, AIIMS, New Delhi

**Prof. P. K. Bithal**

- ‘Controversies in management of neurotrauma’, TRAUMA 2009 at JPNATC, AIIMS, New Delhi
- ‘Role of intracranial pressure monitoring’, in TRAUMA 2009 at JPNATC, AIIMS, New Delhi
- ‘Anaesthetic management in neurosurgical patients undergoing non-neurosurgical procedures’, RSACPCON 2009, Base Hospital, New Delhi
- ‘Brain Death’, ‘Cerebral resuscitation’, and ‘Airway devices’, workshop for DNB students, at Telemedicine facility of IGNOU, Delhi
- ‘Anaesthetic management in posterior fossa surgery’, (*Radio talk*) at Telemedicine facility of IGNOU, Delhi
Dr. G. P. Rath

• ‘Neuroanaesthetic considerations in the management of severe traumatic brain injury’, TRAUMA 2009 at JPNATC, AIIMS, New Delhi
• ‘Awake Craniotomy’, workshop for DNB students, at Telemedicine facility of IGNOU, Delhi

Dr. H. Prabhakar

• ‘Fluid and electrolyte management in neurocritical care patient’ TRAUMA 2009 at JPNATC, AIIMS, New Delhi
• ‘Sedation protocol in neuroimaging in paediatrics’, ISNACC 2010, 29th – 1st Feb 2010, Kolkata
• ‘Anaesthetic management during posterior fossa surgery’, workshop for DNB students, at Telemedicine facility of IGNOU, Delhi

National & International Conferences

The department faculty and residents attended 10 conferences (07 National and 03 international), 01 international symposium, two CME and one workshop. Fourteen lectures (11 in national conferences and 03 in international conferences) were delivered by faculty members and 12 (07 international + 05 national) research papers were presented by faculty members and senior residents in the conferences.

RESEARCH

Funded Research

Avoidance of nitrous oxide during anaesthesia in patients undergoing craniotomy for supratentorial tumors

Departmental Projects

Completed

1. Comparative evaluation of percutaneous retrogasserian glycerol rhizolysis and radiofrequency thermocoagulation techniques in the management of trigeminal neuralgia – a retrospective analysis
2. Comparative study of thiopentone and propofol for brain protection during temporary clipping in intracranial aneurysm surgery
3. A comparative study of early and delayed extubation following transoral odontoidectomy and posterior fixation
4. Postoperative pulmonary complications after transoral odontoidectomy and posterior fixation
5. A retrospective analysis of perioperative complications in neuroendoscopic procedures- our institutional experience

Ongoing

1. Effect of pregabalin premedication on preoperative anxiety and postoperative pain in lumbar laminectomy and discectomy
2. Complications following elective craniotomy- a prospective observational study


5. Coagulation effects of mannitol alone and in combination with hydroxy-ethyl starch in patients undergoing craniotomy as evaluated by rotational thromboelastography.

6. Coagulation abnormalities following aneurysmal subarachnoid haemorrhage during perioperative period as detected by ROTEM thromboelastography (TEG).

7. To compare the effect of different anesthetic agents on electrocorticography in patients undergoing epilepsy surgery – A BIS guided study

8. Laryngeal morbidity associated with fibreoptic tracheal intubation performed Under General anaesthesia without or with use of muscle relaxant

9. Perioperative management in children with encephalocele

10. The causes, risk factors and rate of postoperative ventilation in patients undergoing elective craniotomy

11. Effect of intraoperative brain protection with propofol on postoperative cognition in patients undergoing temporary clipping during intracranial aneurysm surgery

PUBLICATIONS


PATIENT CARE

Peri-operative Anaesthetic Care
1. Neurosurgical operations (Total–2278) = Elective (1588) + Emergency (690)
2. Neuroradiological procedures (Total–368) = Diagnostic (201) + Therapeutic (167)
3. MRI procedures (Total-149) = Under Sedation (34) + Under Anaesthesia (115)

Neuro - Intensive Care Unit

Intensive care management of 1966 patients (1831 neurosurgical and 135 neurological patients) was performed.

Pain-Clinic

A total of 962 patients (226 New and 736 Old) were seen in the O.P.D. 131 of them were treated with nerve blocks in the operation theater.

AWARDS, HONOURS & SIGNIFICANT EVENTS

•  Professor H. H. Dash continues to be Chief of Neurosciences Centre, AIIMS; continues to be one of the Editors of Journal of Neurosurgical Anesthesiology; awarded Dr. V. A. Ponoose Oration at Annual conference of ISA, Delhi state branch; invited speaker in 7th Obstetrics Society of Asia Oceania & 7th International Meeting of Indonesian Society of Obstetric Anesthesia & Indonesian Society of Regional Anaesthesia & Pain Medicine held at Jakarta, Indonesia from
17\textsuperscript{th}-20\textsuperscript{th} Feb 2010; invited speaker in 2\textsuperscript{nd} International Anesthesia Symposium held at Guangzhou, China from 8\textsuperscript{th}-10\textsuperscript{th} Jan 2010.

**Professor H. H. Dash** is the Superintendent of Hostels in AIIMS

**NEUROLOGY**

**EDUCATION**

The faculty members of the department have been actively involved in all teaching programs of the department of Neurology and the institute, training undergraduate and post-graduate and post doctoral (DM) students. This includes guidance for preparation and presentation of seminars, journal clubs and clinical combined rounds of the department.

**CME**

**Organized by the department**

1. Annual World Parkinson’s Day was organized on 5\textsuperscript{th} April 2009
2. Biannual Workshops on “Epilepsy and EEG” at CMET, AIIMS, 13\textsuperscript{th}-14\textsuperscript{th} June 2009 and January 16-17 2010.
3. Epilepsy Day, Awareness: 17\textsuperscript{th} Nov-2009, at Jawaharlal Nehru auditorium, AIIMS, New Delhi.
4. A workshop on epilepsy surgery “Evaluation, Surgical Procedures and Rehabilitation” on 7\textsuperscript{th} -8\textsuperscript{th} Nov 2009 at AIIMS, chairperson in “Timing and candidates for surgery”
5. Workshop on “Spasticity and Evidence Based Care for Stroke” at AIIMS, New Delhi on 12\textsuperscript{th} March 2010.
6. Workshop on “Neurointerventions” at AIIMS, New Delhi on 15\textsuperscript{th} March 2010.

**Lectures delivered**

- **Prof. M.Behari** has been invited as a clinical expert to a meeting on Management of Solitary Cysticercus Granulomas (SCG)”. a CME on Tropical Neurology at PGIMER, Chandigarh.
- Speaker to CME by Armed Forces Medical Research Committee (AFMRC) under the Defense Research and Development Council, Ministry of Defense, Pune, 25\textsuperscript{th} & 26\textsuperscript{th} July, 2009.
- Course Director of Work shop on Botulinum toxin in spasticity after stroke at the Vth National Congress of the Indian Stroke Association held on 12\textsuperscript{th} – 14\textsuperscript{th} March 2010, New Delhi.
- Chairperson on epilepsy surgery workshop organized in collaboration with ASEPA (Asian Epilepsy Academy) and ILAE (International league against epilepsy), 7-8th Nov, 2009 New Delhi.
- Invited to chair session in National Medicine Update -2009 held at Pune on 25\textsuperscript{th}–26\textsuperscript{th} July, 2009.
• Invited as a speaker at Indo-US Bilateral Conference on Translational Neuroscience: New Trends in Mental & Neurodegenerative Disorders Research, held in Chicago, October 15th – 16th, 2009 as an External Expert

• Invited as an expert in Expert Group Meeting on National Essential Medicine List, September 16, 2009 organized by Department of Pharmacology, funded by World Health Organization

• Invited as invited faculty for the APICON 2010 CME held at Jaipur on 7th Jan, 2010

• Invited as invited speaker at Neuro Update 2010 organized by Calcutta Medical College & Indian Institute of Chemical Biology, CSIR, Kolkata held on Feb 13th – Feb 15th 2010

• Attended the 9th Meeting of the Project Assessment Committee, DST in SCTIMS Trivandrum, Kerala, 26th & 27th Nov, 2009

• Invited as moderator in a session on NeuCon (Controversies in Neurology) at New Delhi on 27th–28th Feb, 2010

• Mentor to help organize an Education course of Asian Oceanian Sub-Section of Movement Disorders Society of Movement Disorders at Dayanand Medical College, Ludhiana on 30th – 31st Jan, 2010 and delivered a lecture.

• Prof. K. Prasad “Management of intracerebral hemorrhage” in the CME on Stroke: Recent advances in Medical Management and Rehabilitation held at Christian Medical College, Ludhiana, 3rd April 2009.

• Delivered an Oration in the name of “Endowment lecture in Neurosciences” and a talk on “Stem Cell Therapy” at CME and Oration of Andhra Medical College, Vishakhapatnam, 29-30 August 2009.


• “Tuberculous Meningitis in India: Lessons from evidence based medicine” in TROPICON 2010 held at JIPMER, Pondicherry on 27th March 2010.

• Attended a “Restorative therapy in stroke: Role of stem cells”. 5th National Congress of Indian Stroke Association by the Department of Neurology at AIIMS, New Delhi from 13-15 March 2010.

• Attended a “Role of antiplatelets for primary prevention of stroke”. 5th National Congress of Indian Stroke Association by the Department of Neurology at AIIMS, New Delhi from 13-15 March 2010.

• Attended a “Experience Based Medicine has unique place in practice of Medicine” Neucon held in New Delhi, February 2010.

• Attended a “Antiplatelet Therapy for Primary & Secondary Prevention of Stroke” in the Annual Conference of Delhi Neurological Association held at New Delhi, February 2010.

• Resource Faculty in the ICMR workshop on Research Methodology at Agartala, Tripura, 18-20 February 2010 and delivered lectures on:
  • Data management and basic summary measures used in above four designs
  • Formulation of research quest, hypothesis generation

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• Cross sectional studies
• Cohort
• Characteristics of a good proposal

• “Stem cell therapy: Role in stroke” in Conference on Stroke held at Medanta – The Medicity, Gurgaon on 17 January 2010.

• “Evidence Based Clinical Neurology” in the Annual Conference of the Neurological Society of India from 17-19 December 2009 at SGPGI, Lucknow.

• “Managing Quality In Clinical Services” in the Workshop on Quality Assurance organized by Department of Hospital Administration, AIIMS, New Delhi, November 2009.

• Resource Faculty in the ICMR workshop on Research Methodology, at Guwahati, Assam, 3rd – 5th September 2009 and delivered talks on :
  • Cross Sectional Studies
  • Cohort Studies
  • Case Control Studies

• “Operational Research” in the National Seminar cum Workshop on Operations Research in Hospital Administration Organised by Department of Hospital Administration (AIIMS New Delhi) in Collaboration with World Health Organization, 7-8 August 2009.

• Conducted workshop on “Clinical Research Methodology” at the Clinical Epidemiology Unit on 25th - 26th April 2009 and delivered lectures on:
  • Study designs
  • Bias
  • Designing a treatment study (clinical trial)
  • Sample size calculation for diagnostic test study and RCT
  • Sample size calculation for cohort and case control study

• Conducted workshop on “Analysis and Interpretation of Data” at the Clinical Epidemiology Unit on 19th - 20th September 2009 and delivered lectures on:
  • Introduction & Data entry
  • Basic principles, Data types/Scales
  • Analysis of RCT/Cohort
  • Analysis of a diagnostic test study

• Conducted workshop on “Designing Clinical Research” at the Clinical Epidemiology Unit on 23rd - 24th January 2010 and delivered lectures on:
  • Study designs and Hypothesis formulation
  • Sample size for diagnostic test study and RCT
  • Simple formula to keep in mind.

• Conducted workshop on “Evidence Based Medicine” at the Clinical Epidemiology Unit on 16th - 17th March 2010 and delivered lectures on:
  • EBM, What, Why and How?
  • Critical appraisal of a meta-analysis paper
  • Group work presentation on meta analysis paper, QA, Discussion
• “Assessing Severity of Tuberculous Meningitis : Beyond MRC” in the International Workshop on the Pathogenesis, Diagnosis & Management of TB meningitis held in University of Cape Town, South Africa on 8-10 May 2009.

• Faculty and conducted a workshop “How to Teach Evidence-Based Clinical Practice” held at McMaster University, Canada from 31 May 2009 to 5th June 2009.

• Resource Person in the 15th Oxford Workshop on Teaching Evidence Based Practice held at University of Oxford from 7 – 11 September 2009.

• Faculty in the 8th Asia Pacific Evidence Based Medicine & Nursing workshop and conference organized by National University Health Systems, Singapore at Penang, Malaysia from 2 – 5 February 2010.

• Conducted a workshop on “How to do Cochrane Systematic Review” at Riyadh, Saudi Arabia, 18-23 May 2009 and delivered following lectures:
  • Systematic review and meta-analysis: An introduction.
  • Format for protocol and Cochrane review
  • Assessing methodologic quality of studies for review
  • Meta-analysis: statistical issues
  • Assessing publication bias in a meta-analysis

• Invited speaker for The International Stroke Update, held in Trivandrum, in Jan, 2009.

**Dr. M.V. Padma**

• Invited speaker for the VTE Symposium, held in New Delhi, in March, 2009.

• Invited speaker for the CME program arranged by the East Delhi Branch of DMA held in March, 2009.

• Invited speaker and Convener for the Third Indo-American FOS Program held in New Delhi, INSA, in Jan, 2009 on Infection and Cognition.

• Invited speaker and faculty for the APICON, 2009, held in Noida, in Jan, 2009.

• Invited speaker and faculty for the combat session on treatment of neurocysticercosis in DNACON, held in Feb, 2009.

• Invited speaker, and chairperson for the 4th National Stroke Congress, held in March, 2009.

• Invited speaker for the topic on stroke and thrombolysis, held in the CME program in Ludhiana, in April, 2009.

• Invited core member for formulating National Guidelines for SCGs in India – TROPICON – April, 2009, Chandigarh.

• Invited faculty for speaking on Hyperacute thrombolysis in AIS at the CME by the RAJAPICON, held in Jaipur, May, 2009.

• Invited speaker for the Recent advances in stroke symposium held by max Neurosciences Institute, in June, 2009.

• Invited speaker for the World Stroke Day celebrations at IHC, organized by Apollo hospital Delhi in June 2009.
• Invited speaker for the National Stroke Update held at AFMC, Pune in June, 2009.
• Attended the FIST meeting in Delhi in July, 2009.
• Attended the PMC meeting of SBIRI, in Ahmedabad, in July 2009.
• Attended the panel discussion on stroke by the Delhi chapter of API in November, 2009.
• Invited speaker and member for the national guidelines for stroke management at various levels of health care delivery under the National Program for prevention and control of diabetes, CVD and stroke. Held in November, 2009 in Chandigarh.
• Invited speaker for the CME of the APICON held in Jaipur in Jan, 2010.
• Invited speaker for the 27th Annual conference of Indian Academy of Neurosciences held in Jaipur, in December, 2009.
• Invited speaker for the Critical Care Symposium in Neurosciences held in Fortis Noida Hospital on 20th of March, 2010.
• Invited speaker for the Controversies in Neurology Symposium held in New Delhi in Feb, 2010.
• Invited speaker for the DNA annual conference held in New Delhi in Feb, 2010.
• Invited speaker for the CME on Brain Rescue held in Gurgaon in Jan, 2010.

**Dr. M. Tripathi** has attended SLEEPCON 2009 “International Conference on Sleep Disorders, at Chennai, 4th-5th April, 2009, “Parasomnias: Walking, Talking, Screaming, Eating & more!”
• Attended 10th Annual Conference of MP Association of Neuro Sciences (MP NEUROCON) in Gwalior 11th-12th April, 2009, Topic of guest Lecture”, EEG, Epilepsy Classification.
• Attended Expert on Expert group Solitary cysticercal granuloma - National conference on Tropical Neurology (TROPICON 2009) on 19th April 2009 –
• Intractable Epilepsy, Epilepsy Update, Patna 10th May 2009 under aegis of Indian Epilepsy Association (Bihar Chapter) & Department of Neurology, Indira Gandhi Institute of Medical Science, Patna.
• Attended a meeting on Seizure Semiology - “Neuro-update Kashmir 2009 CME Programme” on 8th July 2009 at Govt. Medical College (Neurology Division), Shrinagar-Kashmir.
• Attended the invited faculty talk on activity-based electrocorticography “WONOEP Satellite Meeting of the ILAE Conference”, 24th-27th June at Pecs, Hungary 2009.
• Invited speaker - Extratemporal epilepsies, Clinical EEG workshop on 17th & 18th July 2009 at Hyderabad.
• Attended the CME at Jalandhar on “New options in Idiopathic Generalized Epilepsy”, 1st August 2009.
• Attended an invited lecture on “Epilepsy-thereapeutic strategies”, 9th August 2009, Kanpur, IMA (UP).
• Invited - “Interactive case discussion” - Case presentation and discussion Pre-Conference workshop on VEEG at IAN, Cochin on 10th Sept 2009.

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• “Interactive case discussion” -Case presentation and discussion Pre-Conference workshop on PSG at IAN, Cochin on 10th Sept 2009.
• Newer therapies for dementia. 15th Annual conference of the Alzheimer and Related Disorders Society of India (ARDSI) at Kolkata on 4th-6th Dec 2009.
• “Sleep Disorder- Sleep and Epilepsy” ISSR annual meeting, IHC, New Delhi. On 12th – 13th December 2009.
• Scientific committee of the APICON 2010 at Jaipur (7-10 Jan) Invited Speaker Memory Disturbances.
• Semiology in Epilepsy and sleep disorders –Ujjain, Medical University on 8/2/10
• Faints, Fits, Falls in Elderly- are they seizures in Annual meeting for “ECON 2010”, 5-7th Feb 2010, Indore (M.P.)
• Chaired the session “Issues in management of Epilepsy”- “International workshop on Epilepsy” held at G.B.Pant Hospital, New Delhi. (19-21 Feb, 2010)
• Invited speaker on Neucon 2010 Old AEDs – Old is Gold
• Dr V. Goyal “Issues pertaining to declaration of Brain Death” Trauma 2009, International congress, CME cum live demistration workshop & 2nd Annual conference of ISTAC, Trauma center, AIIMS, New Delhi. 12-15th Nov, 2009
• “New Prospective in management of Migraine” in Regional CME 2909, by IMA branch of Kashipur, Uttranchal. CME is on 13th Dec 2009
• “DNA Neurocon” DNA Neurocon 2010, 12th Annual conference of Delhi Neurological Association, IHC, New Delhi. 6-7th Feb 2010
• Chaired session “False localizing seizures and Catastrophic Epilepsies”, in International workshop on epilepsy, GB Pant Hospital, New Delhi. 19-21 February, 2010
• Emergencies in movement disorders” “Neucon: Neurology, controversies to consensus” New Delhi. 27-28th Feb 2010
• “Management of Migraine”, 3rd Medicine update 2010, Department of Neurology, Gwalior Medical College, Kota. 17th Apr, 2010
• Dr. G. Shukla CME organized by the The Physicians Forum, Jalandhar in association with Chest Physicians Association on 29th of Nov 2009 in Jalandhar, Punjab.
• MEDICON 2009 organized by the IMA Saharanpur on 20th December 2009, at Saharanpur, UP.
• CME program organized for the Diamond Jubilee Alumni Meet of the Baroda Medical College, Vadodara, Gujarat, on 26th December 2009.

• EEG workshop organized by the Dept. of Neurology, AIIMS and the Indian Epilepsy Society, at AIIMS, New Delhi, on 15th Jan 2010.

• CME organized by the Brain & Spine Foundation, on 28th February at the Mata Channan Devi Hospital, New Delhi.

• NEUCON- North 2010, held at New Delhi, on 28th February 2010.

• Dr. R. Bhatia Public lecture on Multiple Sclerosis Jan 2009 at AIIMS, New Delhi.

• Dr. M. B. Singh CME on Management of Epilepsy with newer antiepileptic drugs. Gurgaon 25/09/09.

• Post-traumatic Epilepsy pre-NSI CME at Lucknow Dec 2009

• Epilepsy: Basics of Diagnosis and Treatment of Epilepsy. CME for Physicians Sasaram 14/02/10

• Sleep Disorders: Recognition, Relevance & Remedies: Neurology Update at MCDH 28/02/2010

National and International Conferences
Organized by department
• Organized the 5th National Congress of Indian Stroke Association by the Department of Neurology at AIIMS, New Delhi from 13-14 March 2010.

Lectures delivered
• A Workshop on epilepsy surgery’ “Evaluation, Surgical Procedures and Rehabilitation” on 7th-8th Nov 2009 at AIIMS, spoke on Electrocorticography”.

RESEARCH
Funded Research
Completed
1. A Randomized, Double-Blind, Placebo-Controlled, Dose Escalation Study of Single Dose Administration of BIIB014 in Subjects with Relapsing and remitting multiple sclerosis as PI, funded by Biogen Idec; (amount 10.00); For 1yr (2008-2009) Prof. Behari

2. “A Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Trial, with Placebo Run-In, and an Open-Label Treatment Period, to Evaluate the performance of the Cogstate Computerized neuropsychological Battery and the ADAS-Cog in Generally Cholinesterase-native AD Patients Randomized to Either Donepezil or Placebo”, “Principal Investigator of Quintile “, Principal Investigator /in Deptt. Of Neurology, AIIMS. Dr.M.Tripathi

Ongoing
Prof. M. Behari
1. A Phase III, double – blind placebo controlled study to determine the efficacy and safety of a low (50-100 mg/day) and high (150-200 mg/day) dose range of safinamide as add-on therapy,
in patients with idiopathic Parkinson’s disease with motor fluctuations, treated with a stable dose of levodopa as PI funded by CliniRx India Ltd. (Rs 10.00 lakh); for 1 ½ yrs (2009 – 2010)

2. A Phase III, double – blind placebo controlled, 12-month extension study to investigate the long term efficacy and safety of a low (50-100mg/day) and high (150-200mg/day) dose range of Safinamide, as add-on therapy, in patients with advanced idiopathic parkinson’s disease with motor fluctuations, treated with a stable dose of Levodopa as PI, funded by Clinirx India Ltd. (Rs 20.00 lakh); for 1 ½ yrs (2007-2009)

3. A randomized, multicenter, double-blind, placebo-controlled, Dose – comparison study to determine the efficacy and safety of BG00012 in subjects with relapsing- remitting multiple sclerosis as PI, funded by Biogen Idec; (amount Rs 16.5lakh); 2yrs (2008-2010)

4. Study of safety and efficacy of R-HSC-001 in patients with Advanced Parkinson’s disease; as PI, funded by Reliance Life Sciences; (Rs 16.5 lakh); 2yrs (2008-2010)

5. Identification of novel gene(s) for familial PD as CO-I, funded by DBT; (amount Rs 95.0 lakh); for 3yrs (2007-2010)

6. Clinical Correlation of Ach-R-Abs and MuSK-Abs in myasthenia gravis patients in context with phenotype and genotype variation as PI, funded by ICMR; (amount Rs 28.0 lakh); for 3yrs (2007-2010)

7. Implantation of human retinal pigment epithelial (hRPE) cells in 6-OHDA lesioned rat model of Parkinson’s disease as PI, funded by DST; (amount Rs 43.0 lakh); for 3yrs (2007-2010)

Prof. K. Prasad

1. Intravenous autologous bone marrow derived stem cell therapy for patients with acute ischemicstroke: A multi-institutional project.
   Funded by : Department of Biotechnology, Govt. of India.

2. Central Database Management Facility Funded by: Department of Biotechnology, Govt. of India.

3. Capacity Building on Stroke Biology
   Funded by: Department of Biotechnology, Govt. of India.

   Funded by : Department of Biotechnology, Govt. of India.

   Funded by : ICMR, Govt. of India.

6. Comparison of effects of administration of bone marrow mononuclear cells (BMMNCs) in combination with melatonin versus BMNCs alone in middle cerebral artery occlusion model of stroke in rats.
   Funded by : Department of Biotechnology, Govt. of India.
Prof. M.V. Padma
1. Autologous Intra-arterial Infusion of Bone Marrow Mono Nuclear Cells for Static Encephalopathy with special reference to Cerebral Palsy. – Approved for DST funding – Rs. 23 Lakhs.
3. Minocycline in acute ischemic stroke – ICMR – Rs. 10 lakhs

Dr. Manjari Tripathi
1. “Correlation of Electrophysiological States and Hemodynamic changes during simultaneous EEG-fMRI in Intractable Epilepsy”, DBT/26.310000
2. “Cognitive Activation Studies of Language and Memory as a Preoperative Evaluation in Patients with Intractable Epilepsy-A Novel Non-invasive method of investigation”, DST/AIIMS. 25,00000/3years
3. “To Assess whether saliva and serum free anti-epileptic drugs levels are equivalent”, ICMR /3years/ 190000
4. Safety, tolerability and effectiveness evaluation of the ISS in the treatment of vascular dementia-A Pilot Study”, BRAIN GATES/3YAERS/

Dr. Vinay Goyal
1. Evaluation of therapeutic effect of Repetitive Transcranial magnetic stimulation (rTMS) in Writers cramp, Migraine, Drug resistant Depression and Obsessive Compulsive Disorders. Funded by ICMR, Budget: 14.2 Lacs, Duration: 2 years

Dr. Garima Shukla
1. Prevalence of the restless legs syndrome in women and its relationship with iron deficiency – a prospective case-controlled study from North India. Funding agency: All India Institute of Medical Sciences, Total funding: Rs. 44,000. Duration: 2 years
2. Generating knowledge for assessment of emerging technologies - The effects of Continuous positive airway pressure therapy for prevention of new vascular events in patients with sleep disordered breathing and stroke: A randomized controlled study. Funding agency: Department of Science and Technology, Ministry of Science & Technology, Government of India. Total funding: 69 lacs Duration: 3 years

Departmental Research

Prof. M. Behari
1. Predictors of seizures in intractable epilepsy patients undergoing long term video EEG recording
2. Neuropsychiatric problems in patients with Parkinson’s disease
3. Care giver burden among caregivers of Parkinson’s disease patients
4. Long term prognosis and factors affecting prognosis in tubercular meningitis
5. Sleep disorders in intractable and controlled epilepsy patients
6. Result of Mitoxantron therapy in multiple sclerosis
7. Ocular movements in young onset Parkinson’s disease
8. Comparison VATS thymectomy vs. Open thoracotomy thymectomy in Myasthenia Gravis
9. Non motor symptoms in Parkinson’s disease
10. Validation of Hindi version of PDQ-39 in Indian Parkinson’s disease patients
11. Natural history of Parkinson’s disease
12. Inflammatory response in SSPE

Prof. K. Prasad
1. Fever is associated with doubling of odds of death in patients with stroke: a meta-analysis study.

Dr. Manjari Tripathi
1. “Study of cognition and Quality of life in Chronic Intractable Epilepsy using Functional Magnetic Resonance Imaging” (fmri)
2. “A Randomized Controlled Trial (RCT) of Early verses Late Surgery in childhood intractable Epilepsy”

Dr. Garima Shukla
1. Psychiatric co-morbidity in patients of medically refractory epilepsy – pre and post epilepsy surgery.
2. Prevalence of Sleep disordered breathing in Stroke patients
3. Lower prevalence of Sleep disturbances in familial Parkinson’s disease: a prospective case control study

Collaborative Research
Completed

Prof. M.V. Padma
- “Sensitivity and specificity of PCR in the detection of TBM versus other Neuroinfective diseases’
- “Study of Immune response of Immuno competent cells derived from Tuberculosis patients and healthy individuals”
- “Serological and molecular methods for detection of Cryptococcall Neoformans from clinical samples”.
- “Proteonomics in the detection of hereditary ataxias”.
- High-throughput proteomics and protein marker discovery in tuberculous meningitis. – with Department of Biotechnology. PI – H.K.Prasad.

Dr. Manjari Tripathi
- Adverse Effects of Antiepileptics: Effect of Phytomedicines”.
• A study of quantitative EEG changes, cognitive function and stress in mild cognitive impairment and Alzheimer’s disease”.
• “Hippocampal neuronal cell loss and age”
• “Evaluation of antiepileptic property of selected Indian plants and their mechanism of action.”
• “Randomization clinical trail on determining the efficacy of Reflexology and usual drug treatment in the management of west syndrome (infertile spasms)
• “Pilot Study determining the efficacy of Reflexology and usual drug treatment in the management of Lannoux-Gastaut Syndrome and screening on possible genetic mutation in GPR56 gene in Indian population
• “A study to evaluate the impact of health education on self care medication compliance in patients with epilepsy”
• “Surgery for intractable post-traumatic epilepsy: Resection on encephalomalacias using intraoperative electrography” -2009
• “Co-Registration of MRI, PET and Electrocorticographic Data for Neocortical resections in intractable epilepsy to improve the localization of
• A Retrospective analysis of epidermoid and dermoid tumors: A study of 171 cases”, 2009.

Dr Vinay Goyal

• “Effect of acute deep brain stimulation of subthalamic nucleus on selective attention in Parkinson’s disease” Department of Physiology, AIIMS, New Delhi, India.

Ongoing

Prof. K. Prasad

• Thrombolysis with intravenous rt-PA for acute ischaemic stroke: the third International Stroke Trial. (IST-3). (Funded by: Medical Research Council, UK) ENOS : Efficacy of Nitric Oxide in Stroke - A prospective, international, multicentre, randomised, parallel-group, blinded, controlled, collaborative, factorial trial to investigate the safety and efficacy of treatment with transdermal glyceryl trinitrate, a nitric oxide donor, and of stopping or continuing prior antihypertensive therapy, in patients with acute stroke. (Funded by: Medical Research Council, UK)
• Genetic basis of ischaemic stroke in an Indian population. (Funded by: UK-India Education Research Initiative, British Council, UK.)

For “Departmental Research and “Collaborative Research” only the title of the research project and the name of the collaborative department.

PUBLICATIONS

• Behari M. What is the cause of Parkinson’s Disease. 7th Asia Pacific Parkinson’s Association Program 2009.


• Agrawal Vikas, Dihana M, Sajeesh SR, Sachin s, Shukla S, Goyal V, Singh S, Behari M. Comparison of clinical profiles of patients with young onset parkinson’s disease and late onset parkinson’s disease in India. 2nd Asian and Oceanian parkinson’s disease and movement disorders congress. p 56;2009.


• Singh Hariom, Goyal V, Singh S, Shukla G, Srivastava AK, Behari M. Botulinum toxin therapy in hemifacail spasm: Study of Indian Patients. 2nd Asian and Oceanian parkinson’s disease and movement disorders congress. p 69;2009.

• Kumar M, Rai NK, Desai SD, Singh S, Goyal V, Shukla G, Behari M. Two cases of symptomatic hemifical spasm- unusual cause. 2nd Asian and Oceanian parkinson’s disease and movement disorders congress. p 69;2009.


• Karlupia N, Prasad M, Prasad K. “Genetically modified mesenchymal stem cells (MSCs) are more effective than unmodified MSCs in reducing infarct volume in rodent MCAo models of stroke: a meta-analysis of pre-clinical studies.” Abstract, Journal of Cerebral Blood flow and Metabolism (2009) 29, S553-S564 (935).


• K Prasad , P.R.Srijithesh , M.V.Padma ,M.Tripathi ,Neurology ,AIIMS ,New Delhi ,S194(2009)PO09 – MO-09 “Retrospective audit underestimates the degree of adherence to standards of quality stroke care”.


• Amit Thapa, Sarat P. Chandra, Sumit Sinha, V. Sreenivas, Bhawani S. Sharma and Manjari Tripathi Post-traumatic seizures—A prospective study from a tertiary level trauma center in a developing country Seizure: European Journal of Epilepsy 3-MAR-2010.


• Manjari Tripathi, Hariom Singh, “Epilepsy in elderly”, Epilepsy Update, Edited by Dr. Ashok Kumar, Dept. of Neurology, IGIMS, Patna, page no. 183-190(23), 2009.

• P. Sarat Chandra, Manjari Tripathi, Guidelines for Epilepsy surgery, Dept. of Neurology, IGIMS, Patna, page no. 153-165 (18), 2009.


• Bijoy K Menon, Muneer Eesa, Rohit Bhatia, Michael D Hill, Andrew M Demchuk, Mayank Goyal. Does Concurrent Treatment With IV tPA Increase Recanalization Rate for Endovascular Management of Acute Ischemic Stroke? Stroke. published online Feb 22, 2010 (abstract).


• M Singh, M Aggarwal, V Singh, A Srivastava. What factors determine compliance among epilepsy patients seen at a tertiary care centre in New Delhi, India? Epilepsia 50(Suppl 10) 1-182; 2009


• Mamta Bhushan Singh Post-traumatic epilepsy Progress in Clinical Neurosciences Vol 24; 57-62.

PATIENT CARE

In the patient care/ supportive activities include information regarding:

(a) Facilities available in the department (including, special clinical and or special laboratory facilities

Indoor : Data will be provided by MRD section
Outdoor : Data provided by the record section till March’2010

Total Old and New Patients : 90879

PROCEDURES DONE IN EMG/EEG Lab :

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Count</th>
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<tbody>
<tr>
<td>EP</td>
<td>333</td>
</tr>
<tr>
<td>EPS</td>
<td>3414</td>
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<tr>
<td>STVEEG</td>
<td>64</td>
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<tr>
<td>LTVEEG</td>
<td>217</td>
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<tr>
<td>SLEEP</td>
<td>173</td>
</tr>
<tr>
<td>PAPER DIGITAL EEG</td>
<td>3486</td>
</tr>
<tr>
<td>ECG</td>
<td>982</td>
</tr>
</tbody>
</table>
(b) Community services/camps etc.

1. Organized World Parkinson’s Disease Day for patients on 5th April’2009
2. Organized camp for Parkinson’s Disease patients at Om Shanti Retreat Centre, Manesar, Gurgaon on 22 – 23 August, 2009
3. Organised “Epilepsy Rural Camp”, 16 August 2009 UP.
5. Dr MV Padma. Given a talk in the TV Channel (Ayur Living India) on 30th Sept,09
8. Doordarshan (DD News) “Health Show”: “Sleep Disorders” public awareness program on DD News, 4.00, 27th Mar 2010

AWARDS AND HONOURS

- Prof. M. Behari has been invited to be the member of the AFMRC
- Prof. M. Behari was the Past President of India Academy of Neurology,
- Prof. M. Behari has been appointed as a member on the Faculty of Medicine, IMS, BHU, Varanasi for a period of three years with effect from 30/8/09.
- Prof. M. Behari has been invited as a Chairman of a Review Committee by the University Grants Commission to review the functioning of NIMHANS, Bangalore.
- Prof. M. Behari has been the expert, selection committee for selection of faculty at Maulana Azad Medical College, Govt. of NCT, Delhi, December, 2009
- Prof. M. Behari has been the member of Institutional Research Review Board and Ethics committee, JNU.
- Prof. M. Behari has Membership of Advocacy Subsection, Indian Academy of Neurology
- Prof. M. Behari has been the member of the expert committee of Human Resource Development Group, CSIR
- Prof. M. Behari has been the member Executive committee, Asean Oceanian Section of International Movement Disorders Society
- Prof. M. Behari has been the member Education committee, Asean Oceanian Section of International Movement Disorders Society
- Prof. M. Behari has been the member PR Committee, International Movement Disorders Society
• Prof. M. Behari has been the member Education committee, Movement Disorders Group, World Federation of Neurology
• Prof. M. Behari has been appointed as Inspector to Inspect various colleges by Medical Council of India for starting DM course in Neurology.
• NRI Medical College, Guntur for starting of DM (Neurology) course under Dr.
• NTR University of Health Sciences
• Narayana Medical College, Nellore under Dr. NTR University of Health Sciences
• PSG Institute of Medical Sciences and Research, Coimbatore under the Tamil Nadu Dr. MGR Medical University
• Prof. K. Prasad has been invited to participate in the Cochrane Stroke Group Editors’ Meeting held on 14 January 2010 at Edinburgh, UK.
• Prof. K. Prasad has been invited to participate as a Key Member of IndiaCLEN in the Workshop on “IndiaCLEN Strategic Plan” held at New Delhi, 2-4 August 2009.
• Prof. K. Prasad has been invited as a Visiting Professor in Saudi Arabia from 18 – 23 May 2009.
• Prof. M. V. Padma has been invited as a visiting professor to UMASS, Boston in November 2009.
• Prof. M. V. Padma has been invited as a visiting professor to Foothills Hospital, University of Calgary, Canada, in September, 2009.
• Prof. M. V. Padma has been invited as a Visiting Professor for SMS Medical College, Jaipur, May, 2009.
• Prof. M. V. Padma has been appointed as external examiner for the DM examinations for NIMS, and SCTIMS, Trivandrum.
• Prof. M. V. Padma has been appointed as the expert committee member for the FIST program of DST, Govt. of India.
• Prof. M. V. Padma has been appointed as Board member for the SIBRI, under aegis of DBT, Government of India.
• Dr. M. Tripathi has been a Member of AIIMS Research committee to consider the New Research proposals for the year 2010-2011.
• Dr. M. Tripathi has been a Member of AIIMS sub-committee to consider the Research proposals for the year 2010- 2011 (FOR CLINICAL SUBJETS)
• Dr. M. Tripathi has been a Member of national Advisory Board-2010, Journal of the Indian Academy of Geriatrics,
• Dr. M. Tripathi has been a Treasurer -Indian Epilepsy Association Feb/2010
• Dr. M. Tripathi has been a Secretary TROPICON
• Dr. G. Shukla has been selected to receive the Young Investigator bursary award for paper submitted for presentation at the 28th International Epilepsy Congress to be held at Budapest, Hungary in June 2009.

VISITING SCIENTISTS

1. Dr. Sudhansu Chokroverty, Co-Director of Neurology (Clinical Neurophysiology and Sleep Medicine) at the New Jersey Neuroscience Institute, JFK Medical Center, Edison, New Jersey, delivered a lecture on “The Rhythms and Rituals of the Sleeping Brain” at 4 pm on 20th February 2009.

2. Dr. Suhail Rasool, Project Scientist, Department of Neurology, University and Medical School of California, Irvine, USA – 92697, Collaboration with UCLA – USA delivered a lecture on “Vaccination for Alzheimer’s disease: A reality?” on 22nd Sept, 2009 at 4 – 5 pm

NEUROSURGERY

EDUCATION

• MCh program: Post MS- 3 years, Post MBBS- 6 years
• PhD Student: presently 1 student under Dr P Sarat Chandra
• Visiting Fellows: During the period 2009-2009, eight fellows attended the Department of Neurosurgery, for observership from India and Abroad.
• Experimental Lab: Fully functional for microneurosurgery and neuroendoscopic training.

CME

Conferences and workshops organized at AIIMS

• Medronic hands on cadaver workshop, (Medtronic) October 2009 at AIIMS; Chairman: Prof AK Mahapatra
• XIIth Annual Microneurosurgery and Spine workshop. Feb 19-21 2010 Chairman: Prof AK Mahapatra, Organizing Secretary: Dr P Sarat Chandra
• International Workshop on Epilepsy Surgery (Asian Epilepsy Academy and International League Against Epilepsy). 7-8th November, 2009. Chairman: Prof AK Mahapatra, Organizing Secretary: Dr P Sarat Chandra
• Ist Live surgery and Hands-On cadaveric workshop on Minimally Invasive Spinal Surgery, at JPNA Trauma Center, 23rd-25th July 2009 Chairman: Prof BS Sharma, Organizing Secretary: Dr Sumit Sinha

Conferences and workshops organized by faculty outside AIIMS

• Annual conference of NSI 2009, Dec. 17-20th, Lucknow. Chairman: Prof AK Mahapatra
• Advanced course for spinal trauma, AO spine, 21,22nd November, 2009, Gurgaon. Chairman: Dr P Sarat Chandra
• Annual World congress for International Brain Mapping and Intraoperative Surgical Planning, Harvard School of Medicine, Boston; September 2009, Co-organizer and Board of Director; Dr P Sarat Chandra
Lectures delivered


### RESEARCH

<table>
<thead>
<tr>
<th>Project</th>
<th>Funding agency</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRASH-2 (A large randomized placebo controlled trial among trauma patients with or at risk of significant haemorrhage, of the effect of antifibrinolytic treatment on death and transfusion requirement)</td>
<td>Extramural, UK</td>
<td>Completed, 2009</td>
</tr>
<tr>
<td>A multi-national, multi-label, active controlled, randomized parallel-group dose finding study to evaluate the efficacy and safety and two doses of AP 12009-G004 in adult patients with recurrent high grade glioma, administered intratumorally as continuous high-flow microperfusion over a 7 day period every other week.</td>
<td>Extramural, Antisense pharma</td>
<td>Completed 2009</td>
</tr>
<tr>
<td>Project Description</td>
<td>Sponsorship</td>
<td>Status</td>
</tr>
<tr>
<td>---------------------</td>
<td>-------------</td>
<td>--------</td>
</tr>
<tr>
<td>Vessel size imaging by perfusion MRI in cerebral gliomas. A DST funded project</td>
<td>Extramural, DST</td>
<td>Ongoing</td>
</tr>
<tr>
<td>Cervical spondylotic myelopathy international trial. AO spine funded project</td>
<td>Extramural, AO Spine</td>
<td>Ongoing</td>
</tr>
<tr>
<td>Randomised Evaluation of Surgery with Craniectomy for Uncontrollable Elevation of Intra-Cranial Pressure (RescueICP study)- international, multicentre, prospective, randomised, controlled trial on the role of decompressive craniectomy in management of severe traumatic brain injury</td>
<td>Extramural, MRC, UK</td>
<td>Ongoing</td>
</tr>
<tr>
<td>Phase II multicentre, open label dose confirmation study of interstitial I^{131}-chTNT 1bMoAb (COTARA) for the treatment of glioblastoma multiforme (at first relapse) by Peregrine Pharmaceuticals, Texas, USA</td>
<td>Extramural</td>
<td>Ongoing</td>
</tr>
<tr>
<td>International Infantile hydrocephalus study: A Multi-Center, Prospective, Randomized Study under the Aegis of International Infantile Hydrocephalus Extramural, International Neuroendoscopy (ISGNE) and International Society for Pediatric Neurosurgery (ISPN).</td>
<td>Extramural, International Neuroendoscopy (ISGNE) and International Society for Pediatric Neurosurgery (ISPN).</td>
<td>Ongoing</td>
</tr>
<tr>
<td>Study of the role of bone marrow derived mononuclear cells in peripheral nerve repair of adult rats. DST-FIST Program (project code no D-221)</td>
<td>Extramural, ICMR</td>
<td>Completed, 2010</td>
</tr>
<tr>
<td>Collaborative Indo-German Program for Bilateral Training Microsurgical and Endoscopic Techniques in Neurosurgery;</td>
<td>Extramural, DBT</td>
<td>Ongoing</td>
</tr>
<tr>
<td>A Prospective, Multi-centre, double-blind, randomized, placebo-controlled parallel-group study to assess the efficacy and safety of clazosentan in</td>
<td>Extramural,</td>
<td>Ongoing</td>
</tr>
</tbody>
</table>
Reducing vasospasm-related morbidity and all-cause mortality in adult patients with aneurysmal subarachnoid hemorrhage treated by surgical clipping.

<table>
<thead>
<tr>
<th>Study</th>
<th>Sponsor/Location</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>STICH II trial</td>
<td>Extramural, MRC, UK</td>
<td>Ongoing</td>
</tr>
<tr>
<td>Fibrillin gene in developmental cranio vertebral anomalies</td>
<td>Extramural, DBT</td>
<td>Ongoing</td>
</tr>
<tr>
<td>ISS implantation in vascular dementias</td>
<td>Extramural, Brainsgate</td>
<td>Completed, 2009</td>
</tr>
<tr>
<td>ETV vs VP shunt in infantile hydrocephalus (IIHS) study.</td>
<td>Extramural, multicentric</td>
<td>Completed, 2009</td>
</tr>
<tr>
<td>Study of Double Cortin in Glioma – Conducted at SPGPI</td>
<td>Extramural</td>
<td>Completed</td>
</tr>
</tbody>
</table>

**AWARDS AND HONOURS**


4. **Dr Deepak Aggarwal:** Editor and initiator of JPN Apex Trauma Centre newsletter

5. **Dr Deepak Gupta:** [1] Executive committee member of National Neurotrauma society, India [2] Executive committee member for Delhi Neurological Association, India

AIIMS 2009-2010 / 721
PATIENT CARE

The dept has 2 units with a general neurosurgical ward under each unit [35 x 2 beds]. There are 2 ICU’s [ICU-C/B] with 23 beds. There are now 4 elective ‘state of art’ operating theatres available on the 7th floor of the CN tower. Two exclusive operating theatres are available for trauma in the trauma centre. The ‘brain suite’; intraoperative MRI with neuronavigaiton, is the process of installation in the first floor of the CN center after which 3 more elective operating rooms will be made available. Facilities for world class neurosurgery are offered to include all specialities: Vascular surgery, epilepsy surgery, minimally invasive cranial and spinal neurosurgery, pediatric neurosurgery, functional neurosurgery, tumor surgeries, skull base surgeries and complex spine surgeries. All operating rooms are optimally equipped with equipment to include operating microscopes, high speed pneumatic drills, CUSA, cell saver, neuronavigation, neuroendoscopes, electrophysiology and EEG monitoring.

VISITING SCIENTISTS

- **Prof Madjid Samii**, Sarveshwari Memorial Oration and faculty AIIMS microneurosurgery workshop, President, International NeuroSciences Institute, Germany.
- **Prof Daniel Rsoenthal**, Faculty AIIMS microneurosurgery workshop, Munich, Germany,
- **Prof Cosgrove, G. Rees**: Professor and Director, Harvard University, Boston. Topic: Epilepsy Surgery
- **Dr Yogi Pattisapu**, USA
- **Dr Ravi Ramamurthi**, Head, VHS Medical hospital, Chennai
- **Dr Suresh Nair**, Prof and Head, SCTIMST, Tiruvanthapuram

PUBLICATIONS


Books
1. Neurosurgery review, Jaypee publications, Raj Kumar, Udit Singhal, AK Mahapatra, 2009

NEURORADIOLOGY

Education

Undergraduate Teaching: faculty of the department is part of undergraduate teaching

DM Neuroradiology course started in July 2001. Three candidates are registered for this course presently.

Short Term Training: 4 DM students and 1 consultant from ESI had short term training in this department. Residents from Neurology, Neurosurgery, Radiology have training on rotation in this department. B.Sc. (Radiography) students from Dept. of Radio-diagnosis also had training on rotation in this department.

National & International Conferences

Lectures delivered

Dr. N.K. Mishra

1. ‘Complications in endovascular neuro-intervention’ during the 12th Annual conference of Indian Society of Vascular and Interventional Radiology held at AIIMS, New Delhi, 7-10 October, 2009.

2. Moderated and chaired the guest lecture session on neuro-intervention by visiting faculty, Dr. Rene Chapot, Essen, Germany, at the Sri Ramachandra Medical College, Porur, Chennai on 12th Nov. 2009.
3. Moderated and chaired the session on neurodegenerative disorders at the Sri Ramachandra Medical College, Porur, Chennai on 14th Nov. 2009.

4. Chaired the guest lecture on “Advances in neuroscientific knowledge base and understanding of brain functions seen through the eyes of Neuroimaging and Neurointervention” by Prof. Anton Valavanis from Univeristy Hospital, Zurich, Switzerland as the 1st annual Pierre Lasjaunias lectureship series, organized by Stroke & Neurointervention Foundation on 16th Feb. 2010 at Max Instt. Of Neurosciences, New Delhi.

5. Participated and contributed to the scientific proceedings of the live workshop on ‘flow diverters’ at Thane, Mumbai, 3-4 March 2010.


Dr S.B. Gaikwad


2. “Annual meeting of Indian Neuro-Intervention Foundation on Complications in Neurointerventions” held in Goa, at Park Hyatt, 13-16th August 2009. During this meeting presented 3 cases of complications encountered during treatment by endovascular approach, and participated in the interactive sessions during the meeting.

3. “Spinal Cord Tumor Mimics-In a symposium called “Learn from other’s mistakes - My blunders-from experts” during the 12th Annual Conference of Indian Society of Neuroradiology held in Chennai from 12th to 15th November 2009

4. “Carotid angioplasty and stenting is equally good and not inferior” during a debate on Carotid Revascularization procedures organized by NEUCON 2010 at New Delhi.

5. “Onyx embolization of cerebral AVMs” during 6th National Conference of the Indian Radiological & Imaging Association (IRIA), 24-26th January 2010, Ahmedabad


Organization of Scientific Congress

Dr S.B.Gaikwad organized the 12th Annual conference of Indian Society of Vascular and Interventional Radiology held in AIIMS, 7-10 October, 2009 as the organizing secretary.

Dr Ajay Garg

1. “Imaging of Brain Tumors” during Imaging Update 2010 (Annual Congress of Delhi State Chapter of IRIA) at Safdarjung Hospital, New Delhi between February 27-28, 2010


RESEARCH

Funded Research

<table>
<thead>
<tr>
<th>Sl No.</th>
<th>Title of Project</th>
<th>Funding Agency</th>
<th>Date of sanction and Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Phase imaging and Diffusion tensor imaging - Novel MR Contrasts in the evaluation of cryptogenic focal epilepsy-</td>
<td>DST</td>
<td>March 2007, three years duration</td>
</tr>
<tr>
<td>2</td>
<td>Quantitative Vessel size imaging (VSI) in cerebral gliomas and correlation with histopathological grading and vascular endothelial growth factor expression</td>
<td>DBT</td>
<td>Oct 2007, three years duration</td>
</tr>
</tbody>
</table>

Departmental Research

1. Venous drainage pattern in patients with perimesencephalic and non-perimesencephalic angionegative sub-arachnoid haemorrhage

2. Diffusion tensor imaging and fibre tracking in spinal arteriovenous fistulae [SAVF] and feasibility study of holo cord DTI & tractography.

3. Diffusion tensor imaging in the evaluation of intractable partial seizures

4. 3D Rotational angiography in follow up of treated intracranial aneurysms

PUBLICATIONS

Journals


5. Sharma Sandeep, Subhash Kumar, Mishra NK, Gaikwad SB. Cerebral Miliary micro aneurysms in Poly Arteritis Nodosa - Report of 2 patients. Accepted in Neurology India.

6. Basal Venous Pattern in the different exhaustive categories of Angionegative Subarachnoid Hemorrhage. – sent for publication to AJNR

Abstracts


AWARDS AND HONOURS


2. Dr. N.K. Mishra worked as a member of the Task Force on ‘Basic Research in Modern Biology’, Dept. of Biotechnology, Govt. of India.

3. Dr Shailesh B Gaikwad was invited as Visiting Professor, Neuroradiology section, department of Radiology, Brigham and Womens Hospital, Harvard Medical School, Boston, USA (February-July 2009). Delivered series of lectures for the PG medical students at Radiology department, Brigham and Womens’ Hospital, Boston.

4. Dr Shailesh B Gaikwad attended hands on training on 1. Advanced Vascular Reconstructive devices (VRD) & 2. Advanced TRUFILL n-BCA Liquid Embolization Training at University of Massachusetts Medical School (UMASS), New England Centre for Stroke Research, Department of Radiology, Course faculty, Prof Ajay Wakhloo, Prof Christopher M Putman, 11-12 June 2009, Worcester, MA, USA. Had a hands-on training on new interventional devices such as Penumbra, Merci, and flow diverters.

5. Dr Shailesh B Gaikwad presented neurointerventional cases and participated in the interactive sessions during the monthly endovascular Boston club meeting during the period mentioned above.

PATIENT CARE APRIL 2009-MARCH 2010

<table>
<thead>
<tr>
<th>Procedures</th>
<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital Subtraction Angiography</td>
<td>630</td>
</tr>
<tr>
<td>Interventional procedures</td>
<td>93</td>
</tr>
<tr>
<td>MRI</td>
<td>1915</td>
</tr>
<tr>
<td>CT Head</td>
<td>14199</td>
</tr>
<tr>
<td>Procedure</td>
<td>Volume</td>
</tr>
<tr>
<td>--------------------------------------</td>
<td>--------</td>
</tr>
<tr>
<td>Chest</td>
<td>231</td>
</tr>
<tr>
<td>Abdomen</td>
<td>147</td>
</tr>
<tr>
<td>Spine</td>
<td>563</td>
</tr>
<tr>
<td>Image guided/CT guided study</td>
<td>102</td>
</tr>
<tr>
<td>Emergency CT</td>
<td>7231</td>
</tr>
<tr>
<td>Ultrasound</td>
<td>1483</td>
</tr>
<tr>
<td>Plain X-rays OPD/indoor</td>
<td>19895</td>
</tr>
<tr>
<td>Pvt. Case reporting</td>
<td>3337</td>
</tr>
<tr>
<td>Total</td>
<td>49826</td>
</tr>
</tbody>
</table>

**NEUROPATHOLOGY LABORATORY**

**EDUCATION**

- Undergraduate: - No change
- Postgraduate: - No change
- Paramedical: - Nil
- Short & long term training: - Nil

**CME**

**Lectures delivered**


**NATIONAL & INTERNATIONAL CONFERENCES**

**Lectures delivered**

**International Conferences**


4. Sarkar C. Pathological Substrate in Epilepsy: Is it important for outcome prediction? Asian Epilepsy Academy (ASEPA), Commission on Asian and Oceanian Affairs International League against Epilepsy, Course on epilepsy surgery: evaluation, surgical procedures and rehabilitation, November 7-8, 2009, AIIMS, New Delhi.

**National Conferences**

1. Sarkar C. In quest of markers for better prognostication and therapeutics of CNS tumors. In Annual Conference of the National Academy of Medical Sciences at Chhatrapati Shahuji Maharaj Medical University, Lucknow, 31st October 2009.


7. Suri V. Effect of bone marrow derived mononuclear cells on nerve regeneration in rat sciatic nerve transection model” XXIVth Annual Conference-Delhi Chapter-IAPM UCMS and GTB Hospital, Delhi, 2009.

**RESEARCH**

**Funded Research**

**Completed**

<table>
<thead>
<tr>
<th>Title of the project</th>
<th>Name of the investigator</th>
<th>Funding agency</th>
<th>Total funding</th>
<th>Duration of project</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute thalamic involvement in severe head injury-An autopsy study with histopathological correlation.</td>
<td>Dr. Chitra Sarkar (Co-PI)</td>
<td>AIIMS</td>
<td>Rs.2.2 lacs (approx)</td>
<td>2006-2009</td>
</tr>
<tr>
<td>Role of Sonic Hedgehog signaling in Human Cerebellum Development</td>
<td>Dr. Chitra Sarkar (Co-PI)</td>
<td>NBRC, DBT</td>
<td>Rs.15 lacs (approx)</td>
<td>2007-2009</td>
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### Ongoing

<table>
<thead>
<tr>
<th>Title of the project</th>
<th>Name of the investigator</th>
<th>Funding agency</th>
<th>Total funding</th>
<th>Duration of project</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glial tumors: a correlative clinicopathological study of chromosomes 1p/19q status, epidermal growth factor receptor (EGFR) amplification and p53 expression</td>
<td>Dr. Chitra Sarkar (PI)</td>
<td>ICMR</td>
<td>Rs.16.5 lacs (approx)</td>
<td>2007-2010</td>
</tr>
<tr>
<td>Study of the role of bone marrow derived mononuclear cells in peripheral nerve repair of adult rats.</td>
<td>Dr. Vaishali Suri (PI)</td>
<td>AIIMS</td>
<td>Rs.18 lacs (approx)</td>
<td>2006-2010</td>
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<tr>
<td>Efficacy and safety of AP 12009 in adult patients with recurrence or refractory anaplastic astrocytoma (WHO grade III) as compared to standard treatment with temozolomide or BCNU: A randomized actively controlled, open label clinical phase III study</td>
<td>Dr. Chitra Sarkar (Co-PI)</td>
<td>Antisense Pharma, Germany</td>
<td>Rs.25 lacs (approx)</td>
<td>2007-2010</td>
</tr>
<tr>
<td>Angiogenesis in astrocytic tumors of the brain: A clinicopathological study with special reference to expression of vascular endothelial growth factor (VEGF), and hypoxia inducible factor (HIF) – 1 alpha and correlation with vascular morphometric parameters and tumor infiltrating inflammatory cells.</td>
<td>Dr. Chitra Sarkar (PI)</td>
<td>ICMR</td>
<td>Rs.21 lacs (approx)</td>
<td>2009-2012</td>
</tr>
<tr>
<td>Glioblastomas in children: A study with special reference to molecular pathways and MGMT methylation status</td>
<td>Dr. Vaishali Suri (PI)</td>
<td>ICMR</td>
<td>Rs.24 Lacs (approx)</td>
<td>2010-2013</td>
</tr>
</tbody>
</table>

### DEPARTMENTAL RESEARCH

### Completed

**Ongoing**

1. Study of gliomagenesis: Possible involvement of CNS developmental pathway
2. Study of Limb Girdle Muscular Dystrophy (LGMD) Patients in Indian Population Using Calpain-3, Dysferlin and Sarcoglycan Protein Analysis.
4. Study of PTEN and CDKN2 gene alterations in GBMs.
5. Study of WNT pathway in ependymomas.

**COLLABORATIVE RESEARCH**

**Completed**

1. Characterization of the properties of an amplified region of DNA in primary meningeal tumors – Dept of Biochemistry, AIIMS.
2. Analysis of FAT gene in glial tumors – Dept of Biochemistry, AIIMS.
3. Pilocytic astrocytomas: correlation of clinical features and outcome with proliferation index and angiogenesis – Dept of Neurosurgery, AIIMS.
4. Altered DNA sequences in gliomas: characterization of changes and context sequences with reference to tumor type – Dept of Biochemistry, AIIMS.

**Ongoing**

1. Analysis of immunomodulation property of IFN-g on classical, nonclassical MHC 1 and TGF-b expression in astrocytic tumors and their relevance in immunotherapy – Neurobiochemistry, AIIMS.
2. Study of HIC-1 in tumorigenesis and cell response – Dept of Biochemistry, AIIMS.
3. Effects of administration of human umbilical cord blood cells (HUCBG) in combination with melatonin versus HUCBG alone in rat with stroke – Dept of Neurology, AIIMS.

**PUBLICATIONS**


PATIENT CARE
1. Neuropathology Surgical Specimens - 2254
2. Frozen Sections - 308
3. Muscle biopsies:
   - Total number received - 378
   - Muscle enzyme histochemistry - 1195
4. Immunohistochemistry - 7580
5. Myelin stain - 141
6. Diagnostic Fluorescent in situ hybridization - 80
7. Electron Microscopy - 320

AWARDS AND HONOURS
1. Dr Chitra Sarkar was awarded the Sir Shriram Memorial Oration by the National Academy of Medical Sciences, New Delhi.

2. Dr Chitra Sarkar was elected as Fellow of the National Academy of Medical Sciences (NAMS).

3. Dr. NC Nayak Talented young Pathologist Award for year 2009 won by Dr. Vaishali Suri in XXIVth Annual Conference-Delhi Chapter-IAPM UCMS and GTB Hospital, Delhi.

4. First Prize for poster entitled “Molecular profile of oligodendrogliomas in the young” won by Dr. Shipra Agarwal at the XIIth annual conference of DNA (DNACON- 2009)), 6th and 7th Feb 2010, Sir Ganga Ram Hospital, New Delhi.

5. First Prize for oral paper entitled “MGMT gene promoter methylation in gliomas” won by Ms. Prerana Jha at the XIIth annual conference of DNA (DNACON- 2009)), 6th and 7th Feb 2010, Sir Ganga Ram Hospital, New Delhi.

6. Third Prize for poster entitled” Limb girdle muscular dystrophy Type 2a in India: a study based on semi-quantitative protein analysis with clinical and histopathological correlation” won by Mr Pathak Pankaj at the XIIth annual conference of DNA (DNACON- 2009)), 6th and 7th Feb 2010, Sir Ganga Ram Hospital, New Delhi.
SIGNIFICANT EVENTS

Dr. Chitra Sarkar

1. Member of committee for reviewing the functioning status of deemed to be university of NBRC.
2. Nominated as Member of the Scientific Advisory Committee of Institute of Pathology, New Delhi.
3. Nominated as Member of the Chronic Disease Biology – Neurology group, DBT, New Delhi.

VISITING SCIENTISTS

Dr Sadhan Majumder, Professor, Department of Genetics, Department of Neuro-Oncology, University of Texas MD Anderson Cancer Center, USA visited the Neuropathology lab and delivered a lecture on “Flexibility of stem/progenitor cells regulates normal development and cancer” on 23rd February 2010.

CLINICAL PSYCHOLOGY

EDUCATION

National and International Conferences

• Chairperson of ‘Presurgical evaluation: Non-Invasive: I’ session at A workshop on epilepsy Surgery, evaluation, surgical procedures and rehabilitation, sponsored by Asian Epilepsy Academy (ASEPA) Commission On Asian And Oceanian Affairs (CAOA) International League Against Epilepsy (ILAE), Indian Epilepsy Sociey; at All India Institute of Medical Sciences, New Delhi, India 7th to 8th November, 2009.

RESEARCH

Funded Research

• Generating knowledge for assessment of emerging technologies - The effects of Continuous positive airway pressure therapy for prevention of new vascular events in patients with sleep disordered breathing and stroke: A randomized controlled study.Funding agency: Department of Science and Technology, Ministry of Science & Technology, Government of India. Total funding: 69 lacs, Duration: 3 years

Departmental Research

• Collection of normative data of:
  • Memory scale. (ongoing)
  • Adapted Minnesota test for differential diagnosis of aphasia. (ongoing)
  • Adapting scales for neuroscience centre. (ongoing)

Collaborative Research


• Member doctoral committee of PhD Student of Neurobiochemistry, NS Centre, AIIMS, New Delhi. “Pharmacogenetics of schizophrenia drug therapeutics”. Since March, 2010.

• Thesis for the degree of M.D (Radiodiagnosis) March 2010 Co-guide, Junior Resident Radiodiagnosis, AIIMS, New Delhi.

PUBLICATIONS


PATIENT CARE

Neuropsychological assessment, interpretation and therapy of various Neurosurgical and Neurological patients. It included patients of Head injury, SAH, Stroke, Parkinson’s, Dementia, Epilepsy, Referrals for Psychiatry Ward/OPD. Work also included practical neuropsychological assessment / evaluation including clinical diagnosis, comprehensive interview; behavioral observations, assessment with series of neuropsychological tests, interpretation, report writing neuropsychological formulation including cerebral impairment, severity of injury and disability; 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. OPD work of 4-5hours /day. There were 4 OPD/week. Teaching of MBBS and Nursing Students. Guiding thesis/theses and research. First step towards planning of research work to be done was formulated. Started a disability board for the long standing patients of Neuroscience centre as per Government of India guidelines.

AWARDS AND HONOURS

• Associate Member: American Academy of Neurology. Since Jan, 2010.


SIGNIFICANT EVENTS

• 1st International workshop on Neuro Rehabilitation after Traumatic Brain Injuries (TBI), organized by Indian Head Injury Foundation with Indraprastha Apollo Hospitals, Delhi from 10th to 11th Aug, 2009, Apollo Hospital, New Delhi, India.
A Workshop On Epilepsy Surgery, Evaluation, Surgical Procedures And Rehabilitation, sponsored by Asian Epilepsy Academy (ASEPA) Commission On Asian And Oceanian Affairs (CAOA) International League Against Epilepsy (ILAE), Indian Epilepsy Society; at All India Institute of Medical Sciences, New Delhi, India 7th to 8th November, 2009.

10.6 Dr. Rajendra Prasad Centre for Ophthalmic Sciences

**Chief & Professor**
Supriyo Ghose

**Professor**
Raj Vardhan Azad
Sat Pal Garg
Atul Kumar
Gita Satpathy
(Ocular Microbiology)

Rasik Behari Vajpayee
Anita Panda
Pradeep Sharma
Jeewan Singh Titiyal
Sudarshan Khokhar

Vimla Menon
Yog Raj Sharma
Ramanjit Sihota
Radhika Tandon

**Medical Superintendent**
Shakti Kumar Gupta

**Additional Professors**
Mahesh Chandra
(Dilip R. Shende)
(Ocular Anaesthesiology)

Mandeep Singh Bajaj
Rajpal

G.V. Satyanarayana Murthy
(Community Ophthalmology)
VRS on 31.12.09
Niranjan Nayak
(Ocular Microbiology)

**Associate Professors**
Seema Sen
(Ocular Pathology)

Sanjay Sharma
(Ocular Radiology)

(Namrata Sharma)
Pradeep Venkatesh
Neelam Pushker

(Tanuj Dada)
T. Velpandian
Praveen Vashist
(Viney Gupta)
(Community Ophthalmology)
Rohit Saxena

(Jasbir Kaur)
(Ocular Pharmacology)

**Assistant Professors**
Tushar Agarwal
(Ocular Biochemistry)

M. Vanathi
Medha R.
(Resigned on 15.2.10)
Rajesh Sinha

Bhavna Chawla
(Ocular Biochemistry)

Renu Sinha
(Community Ophthalmology)

Parijat Chandra

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**EDUCATION**
Undergraduates  Post graduates  Paraclinical Scientists/Pool Officers/
Sr. Res. Assoc.

AIIMS 2009-2010 / 740
Short and long term training

20 Ophthalmologists from various parts of the country and 23 in training of trainers programme (ECCE/IOL) were trained in different fields of specialization.

CME

During the year the Centre organized following Conferences/ Seminars/ Workshops on:
- CME on Invasive Mycoses: The Challenges Ahead 17/04/2009
- National Workshop on Cornea, Cataract & Refractive Surgery 29/04/09 to 30/04/09
- Oculoplasty, Orbit & Pediatric Ophthalmology 21/11/2009
- Advanced Bio-Analytical Techniques in PK studies – from Method Development to Data Interpretation 3/2/10 to 5/2/10
- National Conference of SIHAM 2010 4/3/10 to 6/3/10

The faculty of the Centre participated in various scientific forums, delivering lectures including key note addresses, chaired scientific sessions.

RESEARCH

Funded Research:

Completed

1. LX211-01-UV: A double-masked, placebo-controlled, parallel-group, multi-center, dose-ranging study to assess the efficacy and safety of LX211 as therapy in subjects with active sight threatening, noninfectious intermediate-, anterior and intermediate-, posterior- or pan-uveitis, 2007; LX211-02-UV: A double-masked, placebo-controlled, multi-center, parallel-group, dose-ranging study to assess the efficacy and safety of LX211 as therapy in subjects with clinically quiescent sight threatening, non-infectious intermediate, anterior and intermediate, posterior- or pan-uveitis, 2007. LX211-03-UV: A double-masked, placebo-controlled, parallel-group, multi-center, dose-ranging study to assess the efficacy and safety of LX211 as therapy in subjects with active sight threatening, noninfectious intermediate-, anterior uveitis, 2007. (Name of the Principal Investigator: Prof. Rajvardhan Azad (Lx211-01, 02, 03-UV); Funding Agency: Lux Biosciences; Total Fund: Rs.12,00,000/-; Duration: 2007-2009).

2. Study on the prevalence, therapeutic options and outcome measures of Amblyopia. (Name of the Principal Investigator: Dr. Rohit Saxena; Funding Agency: DST; Total Fund: Rs. 23,30,000/; Duration: 2005 - 2009).
3. Evaluation of the bio-disposition of xanthophylls in Indian donor eyes and detection of their content in commonly available fruits and vegetables. (Name of the Principal Investigator: Dr. T. Velpandian; Funding Agency: DST; Total fund: Rs. 8,00,000/-; Duration: 2006 - 2009).

**Ongoing**

1. DEGAS STUDY: A Phase II prospective, randomized, multi-centre, diabetic macular edema dose ranging, comparative study evaluating the efficacy and safety of PF-523655 versus laser therapy (DEGAS). (Name of the Principal Investigator: Prof. Rajvardhan Azad; Funding Agency: Pfizer; Total Fund: Rs.16,50,000/-; Duration: May 2009 - April 2012).

2. SHIELD STUDY: A 24 week multicentre, randomized, double-masked, placebo controlled study to assess the difference in the rate of recurrent exacerbations in Behcet’s patients with posterior or panuveitis treated with AIN 457 vs placebo adjunctive to standard-of-care immunosuppressive therapy. (Name of the Principal Investigator: Prof. Rajvardhan Azad; Funding Agency: NOVARTIS; Total Fund: Rs.1,80,000/-; Duration: 2010 - 2010).

3. National retinoblastoma registry. (Name of the Principal Investigator: Prof. Rajvardhan Azad; Funding Agency: ICMR; Total Fund: Rs.11,54,428/- per year; Duration: 2009 - 2012).

4. A pilot study to assess the adjunctive role of Pegaptanib sodium (Macugen) for treatment of Severe, aggressive and Posterior Retinopathy of Prematurity (ROP) (IIR). (Name of the Principal Investigator: Prof. Rajvardhan Azad; Funding Agency: Pfizer; Total Fund: Rs.4,40,000/-; Duration: 2009 - 2010).

5. A Phase 2/3 randomized, controlled, double-masked, multi-centre, comparative trial, in parallel groups, to compare the safety and efficacy of intravitreous injections of 0.3 mg Pegaptanib Sodium (Macugen®), given as often as every 6 weeks for 2 years, to Sham Injections, in subjects with diabetic macular edema (DME) Involving the Center of the Macula.” Protocol No.A5751013, 2006. (Name of the Principal Investigator: Prof. Rajvardhan Azad; Funding Agency: Pfizer Limited; Total Fund: Rs.33,00,000/-; Duration: 2007- 2011).

6. A 12-month randomized, pilot study to compare the efficacy and safety of Verteporfin (Visudyne) photodynamic therapy (Standard Fluence) plus intravitreal Ranibizumab (Lucentis) versus Verteporfin (Visudyne) photodynamic therapy (Reduced Fluence) plus intravitreal Ranibizumab (Lucentis) in patients with subfoveal or juxtapfoveal choroidal neovascularization secondary to age-related macular degeneration”. Protocol No. CBPD952AIN03T, 2007. (Name of the Principal Investigator: Prof. Rajvardhan Azad; Funding Agency: NOVARTIS; Total Fund: Rs.3,62,730/-; Duration: 2007- 2010).

7. Phase – II multicenter, prospective, randomized, age related macular degeneration, comparator controlled, dose ranging study evaluating PF-04523655 versus Ranibizumab in the treatment of subjects with Choroidal Neovascularization (Monet Study). (Name of the Principal Investigator: Prof. Yog Raj Sharma; Funding Agency: Pfizer; Total Fund: Rs.60,000/- (Per Month); Duration: 2009 - 2010).

8. Development of small interfering RNAs (siRNAs) for inhibition of Enterovirus70 and CoxsackievirusA24 viruses causing acute hemorrhagic conjunctivitis. (Name of the Principal Investigator: Prof. Gita Satpathy; Funding Agency: DBT; Total fund: Rs.49,00,000/-; Duration: 2008-2011).
9. Evaluation of polymerase chain reaction assay for Herpes Simplex Virus 1 (HSV1) detection in tear specimen of suspected viral keratitis, particularly stromal and atypical epithelial keratitis. (Name of the Principal Investigator: Prof. Gita Satpathy; Funding Agency: ICMR; Total Fund: Rs 16,00,000/-; Duration: 2007-2010).

10. Phenotypic molecular and ultrastructural study of coagulase negative staphylococci and their biofilms in device related infections. (Name of the Principal Investigator: Dr. Niranjan Nayak; Funding Agency: ICMR; Total fund: Rs. 10,110,48./-; Duration: 2009 - 2012)

11. Human pharmacology and toxicology profiling of INMAS biomedical products. (Name of the Principal Investigator: Dr. T. Velpandian; Funding Agency: DRDO; Total fund: Rs. 9,75,000/-; Duration: 2008 - 2011).

12. Dispensing characterization and pharmaceutical profiling of INMAS biomedical products. (Name of the Principal Investigator: Dr. T. Velpandian; Funding Agency: DRDO; Total fund: Rs.9,60,000/--; Duration: 2008 - 2011).

13. Detection of HPV genome in malignant ocular lesions. (Name of the Principal Investigator: Dr. Seema Sen; Funding Agency: ICMR; Total fund: Rs.14,70,000/-; Duration: 2008-2010).

14. Phenotypic characterization of limbal epithelial cells cultured on Amniotic Membrane. (Name of the Principal Investigator: Dr. Radhika Tandon; Funding Agency: ICMR; Total fund: Rs.7,22,400/-; Duration: 2008 - 2011).

15. Assessment of safety and efficacy of Relinethra CAu (an autologous bioengineered conjunctiva) in conjunctival disorder. (Name of the Principal Investigator: Dr. Radhika Tandon; Funding Agency: Reliance Life Sciences, Mumbai; Total fund: Rs. 2,00,000/-; Duration: 2008 - 2009).

16. Development of a potential biopolymer to serve as an alternative substrate of Human amniotic membrane for ex-vivo expansion of corneal epithelial stem cells. (Name of the Principal Investigator: Dr. Radhika Tandon; Funding Agency: DBT; Total fund: Rs.23,69,000/-; Duration: 2008 - 2011)

17. Evaluation of incidence and determinants of recurrence of amblyopia following cessation amblyopia therapy (Name of the Principal Investigator: Dr. Rohit Saxena; Funding Agency: ICMR; Total fund: Rs.4,42,224/-; Duration: 2009 - 2012).

18. Assessment of magnitude and progression of myopia in school going children in Delhi (Name of the Principal Investigator: Dr. Rohit Saxena; Funding Agency: DST; Total fund: Rs.34,81,000/; Duration: 2009 - 2012).

**Departmental Research**

**Completed**

1. Evaluation of the efficacy of probing in nasolacrimal duct obstruction with adjunctive Mitomycin in adults.

2. Role of Multidetector CT- DCG in patients with epiphora.

3. Development of microdialysis technique to study intraocular kinetics of drugs.
4. Evaluation of Cassette dosing technique for the transcorneal penetration of drugs.
5. The role of multidetector computed tomographic dacryocystography in patients with epiphora.
6. Development of a quantitative structure property relationship using molecular dynamics for congeneric compounds for their in vivo intraocular penetration.
7. Evaluation of polyherbal formulation for allergic conjunctivitis.

Ongoing
1. Immunohistochemical and molecular studies of Wnt/Beta Catenin signaling in Sebaceous cell carcinoma of the eyelid.
2. Regulation of apoptosis in human retinoblastoma.
3. Identification and characterization of differentially expressed genes in human retinoblastoma.
4. Molecular genetics of glaucoma
9. Comparative study of 25 gauge Vs 20 gauge system for pars plana vitrectomy in the management of rhegmatogenous retinal detachment.
10. Predictors of type 1 retinopathy of prematurity in preterm babies.
12. Results of vitreoretinal surgery at tertiary eye care centre.
13. Use of autologous bone marrow derived stem cells for rehabilitation of patients of retinitis pigmentosa and allied heredo-retinal dystrophies.
15. Role of impression cytology in graft vs host disease patients.
17. Development of animal models for postmenopausal dry eye.
18. Evaluation of cassette dosing for the intraocular penetration of drugs.
19. Modulation of transporters for the intraocular penetration of drugs.
20. Isolation and evaluation of bioactive compounds from marine origin.
21. Prediction of ocular toxicity using OMR paradigms in gold fish

22. Indian Solar UltraViolet Radiation Assessment – Project ISUVRA.

23. Evaluation of calcium dobesilate topical eye drops for ocular pathological conditions.

24. Evaluation of polyherbal formulation for ocular neovascular conditions.


26. Study of visual functions and fundus findings in orbital tumors and their alterations after surgery.

27. Lateral eyelid rotation flap for reconstruction of full thickness eyelid defects.


29. Evaluation of transrectal ultrasound, elastography and contrast enhanced sonography for detection of prostate cancer.

30. Role of MRI in characterization of sonographically indeterminate adnexal masses.

31. Radiofrequency ablation of lower limb symptomatic varicosities.

32. Role of computed tomography in staging and management of carcinoma cervix.

33. Evaluation of tear film lipidomics in selected ocular surface disorders.

34. Expression of cell cycle regulatory proteins in ocular surface squamous neoplasia.

35. Serial ultrasonic evaluation and its clinico-pathological correlation in retinoblastoma patients undergoing chemoreduction and local treatment or enucleation.

36. Randomized control trial using carboplatin 750mg/m2 and 560 mg/m2 for ocular salvage in group C & D retinoblastoma.

37. Malignant tumours of the eye and orbit in children: The varied clinical profile and role of tumour markers in management.

38. Evaluation of expression of P-glycoprotein in retinoblastoma.


40. Photoreceptor changes in aging human retina and their possible link with oxidative stress.

41. Ocular surface reconstruction with autografts of non-ocular origin.

42. Evaluation of tear-fluid constituents in various ocular pathological conditions using tandem mass spectrometry.

**Collaborative Research:**

**Completed**

1. Determination of purity of anticancer drugs used IRCH (with Deptt. of Medical Oncology IRCH).

2. Development of new LC-MS/MS method for the determination of homocysteine and homocysteine thiolactone from plasma samples (with Deptt. of Sankara Nethralaya, Chennai).
3. Genetic polymorphisms of vascular endothelial growth factor and risk of ’Threshold’ retinopathy of prematurity (with Deptt. of Neonatology AIIMS).

Ongoing
1. Outcome of optical penetrating keratoplasty in bilaterally blind patients (with Deptt. of Psychiatry).
2. Implantation of retinal pigment epithelial cells in the 6-ODHA lesioned rat model of Parkinson’s disease (with Deptt. of Neurology).
3. Determination of plasma levels of morphine and its metabolites and correlation with its pharmacodynamics (with Deptt. of Anesthesia, IRCH, AIIMS).
4. Evaluation of vitreous humor as a marker fluid in the autopsy drug level analysis (with Forensic Science Laboratory, New Delhi).
5. Evaluating the correlation of serum levels of morphine and its metabolites on pain in cancer patients (with Deptt. of Anesthesia, IRCH).
6. Estimation of levels of salbutamol and other drugs in human plasma samples (with INMAS, DRDO).
7. Quantification of plasma antitubercular drug levels in pediatric population (with Deptt. of Pediatrics).
9. Determination of cyanocobalamin and folic acid from plasma samples (as a part of clinical and etiopathological spectrum of pancytopenia in adults) (with Deptt. of Medicine, MAMC, New Delhi).
10. Evaluation of different phototherapy devices used in the management of neonatal hyperbilirubinemia (with Deptt. of Pediatrics, AIIMS).
11. Evaluation of the quality of anticancer drugs in marketed formulations (with IRCH).
12. Development of the method for the quantification of Betaendorphin from brain microdialysate in rats (with Deptt. of Physiology, AIIMS).
13. Evaluation of extemporaneously prepared voriconazole stability and their topical penetration kinetics in patients undergoing cataract surgery (with Arvind Medical Research Foundation, Maduari)
14. Evaluation of bioactive components from algae (with Bharathidasan University, Trichy).
15. Isolation of active principles from various herbs for leishmaniasis. (with Deptt. of Lab Medicine).

PUBLICATIONS

Journals


**Chapters in Books and Monographs**


**Books and Monographs**


**PATIENT CARE**

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<thead>
<tr>
<th>Specialty</th>
<th>New Cases</th>
<th>Old Cases</th>
<th>Total</th>
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<tbody>
<tr>
<td>General OPD</td>
<td>112937</td>
<td>82338</td>
<td>195275</td>
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<tr>
<td>Emergency</td>
<td>30926</td>
<td>-</td>
<td>30926</td>
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<tr>
<td><strong>Total Cases</strong></td>
<td><strong>143863</strong></td>
<td><strong>82338</strong></td>
<td><strong>226201</strong></td>
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**SPECIALITY CLINICS**

1. Cornea Clinic 5523 14573 20096
2. Lens Clinic 915 911 1826
3. Uvea Clinic 904 2447 3351
4. Contact Lens Clinic 1168 3878 5046
5. Glaucoma Clinic 2637 6332 8969
6. Ophthalmoplasty Clinic 3058 1568 4626
7. Paediatric Ophthalmology Clinic 804 353 1157
8. Trauma Clinic 927 858 1785
9. Retina Clinic 2621 3045 5666
10. Neuro-Ophthalmology Clinic 1771 1267 3038
11. Medical Ophthalmology Clinic 1161 1256 2417
12. Vitreo Retinal Clinic 1586 793 2379
13. Ocular Surface Disorder Clinic 75 59 134
14. Retinoblastoma Clinic 384 336 720
15. a) Orthoptic Clinic 4864 25142 30006
   b) Squint Clinic 7863 28851 36714
16. Refraction - 24063 24063
| **Total Cases** | **36261** | **115732** | **151993** |
| **Grand Total of Cases** | **180124** | **198070** | **378194** |
INDOOR

1. General Admissions 15214
2. Casualty Admissions 2083
3. Private Admissions 1198
4. Short Admissions 4989
5. Day Care Admissions 6881

Total 30365

OPERATIONS

1. Major 16155
2. Day Care 6361
   Total Major 22516
3. Minor 7018

Grand Total 29534

Death One

YEARLY OTHER FIGURES

1. Average Bed Occupancy Ratio 86%
2. Average length of stay 5.0 day
3. Average OPD Attendance per working day 1282
4. Average No. of Indoor Admission per day 83
5. Average No. of Surgeries per day 81

Investigative Laboratories

- Fluorescein Angiography + ICG 5,918
- Ultrasonography 17,376
- EUA 192
- E.C.G. 2,092
- Applanation Tonometry 17,232
- Indirect Ophthalmoscopy 4,315
- Goldmann Perimetry 2,599
- Automated Perimetry 4,908
- E.R.G. 646
- VER 6,156
- E.O.G. 69
- ENG 19
- Focimetry 4,578
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<tr>
<td>Colour Vision</td>
<td>3,817</td>
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<td>L.I.</td>
<td>4,268</td>
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<tr>
<td>Ultrasonic Pachymetry</td>
<td>1,658</td>
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<td>Non Contact Tonometry</td>
<td>18,705</td>
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<td>Refraction</td>
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<td>Auto Refraction</td>
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<td>Axial Length</td>
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<td>Keratometry</td>
<td>17,562</td>
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<td>OCT</td>
<td>8,867</td>
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<td>Contact Lenses (Old + New)</td>
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<td>Artificial Eye</td>
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<td>Low Vision Aid</td>
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<td>PRP</td>
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<td>Nd-Yag Laser</td>
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<td>Fundus Photography</td>
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<tr>
<td>Excimer Workup (Lasik)</td>
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<tr>
<td>P.D.T.</td>
<td>129</td>
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<tr>
<td>Inj Lucentis</td>
<td>30</td>
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<tr>
<td>Inj Macugen</td>
<td>340</td>
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<tr>
<td>Retinal Camera Ret. CAM</td>
<td>489</td>
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<tr>
<td>Cornea Service Lab (total no of inv.)</td>
<td>19,437</td>
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<tr>
<td>Cornea Research Lab (total no of inv.)</td>
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<tr>
<td>Glaucoma Research Lab (total no of inv.)</td>
<td>43,798</td>
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**Ocular Radiology**

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<tbody>
<tr>
<td>Total number of X Rays</td>
<td>14538</td>
</tr>
<tr>
<td>Total number of RPC CTs</td>
<td>128</td>
</tr>
<tr>
<td>Total number of patients</td>
<td>8633</td>
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</tbody>
</table>

**Ocular Microbiology**

<table>
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<tbody>
<tr>
<td>Grand total</td>
<td>12661</td>
</tr>
<tr>
<td>Bacterial culture &amp; sensitivity</td>
<td>9622</td>
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<tr>
<td>fungal culture</td>
<td>2165</td>
</tr>
<tr>
<td>Specimens processed for cytology</td>
<td>250</td>
</tr>
<tr>
<td>Specimens processed for viral Ag detection</td>
<td>83</td>
</tr>
<tr>
<td>Specimens processed for chlamydia Ag detection</td>
<td>238</td>
</tr>
</tbody>
</table>

**Total number of patients**: 8633
Specimens processed for PCR HSV 115
Specimens processed for conjunctivitis (PCR) 14
Specimens processed for chlamydia tissue culture 28
Specimens processed for chlamydia serology 10
Specimens processed for conjunctivitis (Ag detection) 14
Specimens processed for conjunctivitis (tissue culture) 14
Culture for acanthamoeba 108

**Ocular Pathology**

Total number of Investigations : 57,387
i) Blood: TLC, DLC, PBS, ESR, BT / CT : 32,488
ii) Urine : 8,962
iii) Histopathology, Cytopathology & Research : 15,937

**Ocular Biochemistry (Clinical Chemistry)**

Total number of samples (apart from research) : 10805
Indoor : 9507
Outdoor : 1298

**Ocular Pharmacology and Pharmacy**

Free drugs (Vials) supplied through Ocular Pharmacy : 84050
MK Media : 480

**Eye Bank**

Total Eyes : 719
Surgery Performed : 470
Unsuitable for clinical : 93
Preserved in Glycerine : 71
Histopathology/Stem cell : 75
Culture

Registration for Keratoplasty from April 2009 – March 2010
Total : 724
Called for Admission : 1208
Balance Remaining : 282
No. of pledges in 2009 : 807
AWARDS & HONORS

**Prof. Rajvardhan Azad:** Awarded Prof. Alim Memorial Oration by Ophthalmological Society of Bangladesh in Dhaka, 2009; awarded A.D. Grover Oration by Chandigarh Ophthalmological Society, Chandigarh, 2009; President, All India Ophthalmological Society, 2010; awarded K.R. Dutta Memorial award by AIOS, 2010; Principal Investigator, Retinoblastoma Registry Group (ICMR) – Delhi Site; Chairman & Principal Investigator, ICMR Task Force on Retinitis Pigmentosa; Member Reviewers Committee, Indian Council of Medical Research (ICMR); Reviewer: Bio Med Central Ophthalmology, London; Ophthalmic Surgery Laser & Imaging; Indian Journal of Ophthalmology; Journal of American Association Pediatric Ophthalmology & Strabismus; Clinical and Experimental Ophthalmology; British Medical Journal Ophthalmology; Indian Journal of Peditrics; Acta Ophthalmologica; Advisor, Editorial Board, Delhi Journal of Ophthalmology; Section Editor, Retina – Indian Journal of Ophthalmology; Chief Executive Editor, Ophthalmology World Report; Member, ESI Medical Board for Associate Professor and Professor Selection Committee; Member, Selection Committee for Professor, Sanjay Gandhi PGI, Lucknow; Continued to be: i) Expert Standing Selection Committee, PGI, Chandigarh ii) Secretary, SAARC Academy of Ophthalmology, 2006 iii) Regional Secretary of Asia Pacific Academy of Ophthalmology (APAO), 2005-2009, 2009-2013.


**Prof. Radhika Tandon:** Member, Task force in the priority areas of the Blindness programme in All India Ophthalmological Society; Nominated as International Health Professional of the year by International Biographical Centre, Cambridge, England; appointed member of expert committee to examine documents to be released as Medical Standards for Eye Banking in India by Directorate General of Health Services, MOHFW (Ophthalmology Section); invited by Prova Eye Bank, B. C. Memorial Eye Foundation and Disha Eye Hospital and Research Centre, Barrackpore to provide technical guidance and assistance for helping the local ophthalmic surgeons start a keratoprosthesis service at their hospital. Continued to be: Member, Core group for introduction of OSCE style examination by the National Board of Examination; Joint Secretary, Eye Bank Association of India; on the panel of examiners in Ophthalmology of Royal College of Surgeons, Edinburgh. (Since 2000 ongoing); adjunct faculty member, CMET, AIIMS;


**Prof. Ramanjit Sihota:** Reviewer: Indian J Ophthalmology; Archieves of Ophthalmology; British Journal of Ophthalmology; Eye; Ophthalmic Epidemiology; Ophthalmic and Physiological Optics; Acta Ophthalmologica; Member of the Glaucoma Research Society.

**Dr. Shakti Kumar Gupta:** Fellow, National Academy of Medical Sciences; Fellow, Academy of Hospital Administration; President, Academy of Hospital Administration; Distinguished Fellow of Institute of Hospital Engineers, Chandigarh.

**Dr. Sanjay Sharma:** Dr. BD Handa Award of merit ‘First Prize’ conferred for the scientific paper entitled “Endovascular management of pediatric budd chiari syndrome: A promising therapeutic option?”, 7th National Conference, Indian Society of Paediatric Radiology, 13th Sept., 2009; Elected Joint Secretary of Indian Society of Vascular & Interventional Radiologists, 2009-10; Manuscript reviewer for peer reviewed international indexed journals i) Catheterization and Cardiovascular Interventions ii) Journal of Vascular and Interventional Radiology.

**Dr. Parijat Chandra:** Reviewer: Journal of Postgraduate Medicine; Indian Journal of Ophthalmology; Eye. Member, Editorial Board, Delhi Journal of Ophthalmology; Certified for Fundus Photography and Fluorescein angiography by University of Wisconsin, USA; Certified for Fundus Photography and Fluorescein angiography by Duke University, USA.

**Dr. T. Velpandian:** Continued to be: General Secretary, Indian Pharmacological Society (Delhi Branch); Executive Secretary, Indian Hospital Pharmacist’s Association (IHPA).

**Dr. Rohit Saxena:** Elected Editor, Delhi Journal of Ophthalmology, 2009.

**SIGNIFICANT EVENTS**

Dr. R.P. Centre continues to be the initial member of INTERSUN (WHO’s International Sun Monitoring Project). The Chief of the Centre is the Director of this WHO Collaborating Centre for Prevention of Blindness.

Project ISURVA initiated and in due course it is expected to give the data of UV radiation in Delhi region through the website.

Efforts are underway to secure and upgraded and integrated four years programme for Bachelor of Optometry and Visual Sciences at RPC along with a one year internship, and also fellowships for both these course as well as in the specialities of clinical Ophthalmology, etc.

Patient care services have been further upgraded at this Centre. Specialized procedures as complex oculoplasties and orbitotomies, advances and innovative refractive surgical and corneal procedures as
splitting the same donor cornea and utilizing them for up to 3 recipients, osteo-odontokeratoprosthesis, stem cell transplantsations and sutureless keratoplasties, \textit{ex vivo} expanded mucous membrane transplantsations, and distribution outside RPC of MK Media, glycerin preserved corneas and amniotic membranes for grafting, etc. are being carried out, along with newer vitreoretinal and macular procedures including intravitreal drugs especially for ARMD and DR, and newer investigations and techniques in glaucoma, squint, and neuro-ophthalmic disorders being undertaken with gratifying results.

Further upgradation of patient care services, newer facilities have been initiated in Ocular Microbiology, Ocular Biochemistry, Ocular Pathology and Ocular Pharmacology. Department of Ocular Pharmacology is supplying corneal storage media to eye bank.

Dr. R.P. Centre is in constant collaboration with ORBIS International and major INGOS especially with regard to childhood blindness activities, and the National Forum of Vision 2020: The Right to Sight – India. The Chief RPC continues as the active Vice President of Vision 2020: India. The Centre has taken significant steps in improving the quality of services delivered to all its patients despite several constraints. All our Investigative and Clinical Service Labs. are being constantly upgraded as far as practicable.

OPD patient screening services are under way, with computerization of medical records (especially older one), along with patient data computerization of our OPD, eye casualty, and wards are all in the pipeline.

Central AC & modernization with replacement of all 5-6 lifts at RPC are being expedited as best possible.

National Eye Donation Fortnight: 25th August – 8th September 2009. Awareness drive for eye donation was launched and charts and pamphlets distributed. During this period 30 corneas were received and 12 pledges were made for eye donation.

Various strategies were made to promote eye donation and spread throughout the country. Recording of Eye donation programme on 25.8.09 was done which was telecasted at DDI on 26.8.09 at 5 pm and 27.9.09 at 6 pm. Certificates and momentos were distributed to the donor families. Awareness generated among the mortuary staff about eye donation counseling. Eye Donation & Transplant” one hour live programme telecasted on 23.8.09 in the show entitled “Total Health” from 8.30 am onwards on DD News. Public lecture on cornea donation and transplantation on 26th August 09 at LVPEI Hyderabad. Eye Donation related program to be held on 13th Sept 2009 on religious function of “Kshamawani Parv” at FICCI auditorium, New Delhi. Eye Donation related program was done by All India Radio on 31.8.09 at National Channel. Eye Donation related program held on 12th Sept 2009 at Punjab National Bank, 7 Bhikaji Cama Palace, HQ, New Delhi from 11 am onwards.

\textbf{VISITING SCIENTISTS}

Prof. Shalesh Kaushal - Chairman, University of Massachusetts.

Prof. Michael Trese - Vitreo-Retinal Surgeon at Royal Oak Hospital, Detroit, Michigan, USA.

Dr. Angayarkanni Narayanaswami, Reader, from the Ocular Biochemistry Division of Shankara Nethralaya, Chennai.
10.7 Jai Prakash Narayan Apex Trauma Centre

**Chief**
M.C. Misra

**Faculty In-charge (Hospital Administration)**
Associate Professor
Kamran Farooque (Orthopedics)

**Assistant Professors**

<table>
<thead>
<tr>
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<tr>
<td>Babita Gupta</td>
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<tr>
<td>Chhavi Shawney</td>
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<tr>
<td>Sanjeev Bhoi</td>
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<tr>
<td>Shefali K Sharma</td>
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<td>John R Bera</td>
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**EDUCATION**

**SHORT TERM TRAINING**

1. Dr. Tsewang Namgial w.e.f. 06.11.09 to 05.02.10 (3 months)

Academic activities of undergraduate and postgraduate students and paramedical staff are being conducted by faculty in JPNATC.
CONTINUING MEDICAL EDUCATION (CME)

Prof. M.C. Misra

1. Course Director for

• Training Course in Operative Laparoscopic- Suturing Skills from 13th to 15th April 2009 at Minimally Invasive Surgery Training Centre, AIIMS, New Delhi.

• Training course in Operative Laparoscopic- Basic and Advanced from 4th – 8th May 2009 at Minimally Invasive Surgery Training Centre, AIIMS, New Delhi.

• Training course in Laparoscopic Hernia Surgery from 12th -14th May 2009 at Minimally Invasive Surgery Training Centre, AIIMS, New Delhi

• Training course in Operative Laparoscopic- Basic and Advanced from 20th -24th July 2009 at Minimally Invasive Surgery Training Centre, AIIMS, New Delhi.

• Training course in Laparoscopic Colorectal Surgery from 27th – 29th July 2009 at Minimally Invasive Surgery Training Centre, AIIMS, New Delhi.

• Training course in Operative Laparoscopic- Basic and Advanced from 17th - 21st August 2009 at Minimally Invasive Surgery Training Centre, AIIMS, New Delhi.

• Training course in Laparoscopic Hernia Surgery from 8th -10th September 2009 at Minimally Invasive Surgery Training Centre, AIIMS, New Delhi

• Training course in Operative Laparoscopic- Basic and Advanced from 5th – 9th October 2009 at Minimally Invasive Surgery Training Centre, AIIMS, New Delhi.

• Training Course in Operative Laparoscopic- Suturing Skills from 2nd – 4th November 2009 at Minimally Invasive Surgery Training Centre, AIIMS, New Delhi.

• Training course in Laparoscopic Hernia Surgery from 24th – 26th November 2009 at Minimally Invasive Surgery Training Centre, AIIMS, New Delhi

• Training course in Operative Laparoscopic- Basic and Advanced from 7th -11th December 2009 at Minimally Invasive Surgery Training Centre, AIIMS, New Delhi.

• Training course in Operative Laparoscopic- Basic and Advanced from 4th – 8th January 2010 at Minimally Invasive Surgery Training Centre, AIIMS, New Delhi

• ATLS – India Program Promulgation, Inaugural ATLS Provider and Instructor Course, 16th – 18th April, 2009, at JPN Apex Trauma Centre, All India Institute of Medical Sciences in Collaboration with American College of Surgeons.
• ATLS – India Program Promulgation, ATLS Provider Course, 22nd to 24th April 2009, at J P N Apex Trauma center, AIIMS New Delhi in Collaboration with American College of Surgeons.*

• ATLS – India Program Promulgation, ATLS Provider Course, 7th to 9th May 2009, at J P N Apex Trauma center, AIIMS New Delhi in Collaboration with American College of Surgeons

• ATLS – India Program Promulgation, ATLS Provider Course, 28th – 30th May, 2009, at J P N Apex Trauma center, AIIMS New Delhi in Collaboration with American College of Surgeons.


• ATLS – India Program Promulgation, ATLS Provider Course, 29th to 31st August 2009, at J P N Apex Trauma center, AIIMS New Delhi in Collaboration with American College of Surgeons.

• ATLS – India Program Promulgation, ATLS Provider Course, 17th – 19th September, 2009, at J P N Apex Trauma center, AIIMS New Delhi in Collaboration with American College of Surgeons.


• ATLS – India Program Promulgation, 15th ATLS Provider Course, 18th – 20th February, 2010, at J P N Apex Trauma center, AIIMS New Delhi in Collaboration with American College of Surgeons.

2. Organizing Chairman, of Fourth AIIMS Surgical Week International Minimal Access Surgery Conference, CME cum Live Workshop, Endosurg 2010 from 26th to 28th March 2010 at All India Institute of Medical Sciences.

3. Organizing Chairman, 2nd Live Operative Workshop and CME on Morbid Obesity on 13th November 2009 held at Dr. Ramalingaswami Board Room, All India Institute of Medical Sciences, New Delhi.
4. Organizing Chairman, 2nd International Conference, CME cum Live Workshop in Association with Indian Society for Trauma and Acute Care (ISTAC) held from **12th–15th November 2009** at the JPN Apex trauma Center and All India Institute of Medical Sciences, New Delhi, with the theme of the conference “Safe Emergency Care in Disasters”.

**Guest Faculty & Invited Lectures**

1. India Chair, Course Director for the promulgation of Advanced Trauma Life Support (ATLS) Course in India, April 2009.

2. Invited to participate as an expert in Total Health Programme by Doordarshan News, New Delhi on 19.04.09 at 7.45 AM.

3. Invited to participate and deliver a guest/demonstrate operations during the Surgical Meet on Surgical/Urology and a Workshop on Minimal Invasive Surgery from 25th to 26th April, 2009 at BPKIHS, Dharan, Nepal.

4. Nominated as a member of the Committee for monitoring of construction of the Advanced Trauma Centre at PGIMER, Chandigarh.


6. Invited as a Guest Faculty in the forthcoming First North East Zonal Continuing Medical Educational Programme in Guwahati from 30 to 31st May 2009.

7. Co-organizer and National Faculty, International Conference Cum Live Operative Workshop on Advanced Laparoscopy, Jointly organized under Society of Endoscopic and Laparoscopic Surgeons of India (SELSI) and Societe Internationale d’Urologie (Indian Chapter), North Zone – Urological Society of India, 4 – 6 June 2009 at Srinagar, J & K, India.

8. Invited to deliver Welcome Address at a function Organized by the Association of Surgeons of India, on the occasion of Official launch of ASI Website and the Release of Patient Safety Manual, at the Dr. Ramalingaswami Board Room, All India Institute of Medical Sciences, New Delhi on 11th July 2009.

9. Congress President, Mid-Term Conference, CME Cum Live Workshop, Indian Hernia Society, 17 – 18 July 2009, held at Auditorium, Coimbatore Medical College, Avinashi Road, Coimbatore, Tamil Nadu. Delivered Presidential Oration on “Laparoscopic Incisional/Ventral Hernia Repair – Standard of Care in the Current Millennium”.

10. Invited to deliver a talk on Hospital Contingency Disaster Planning during Course for Hospital Administration held at National Institute of Health and Family Welfare, Munirka, New Delhi on 20th July 2009 from 2 – 5 PM.

11. Invited by the National Institute of Health and Family Welfare to participate in the Panel discussion on “Quality of Care in Hospitals” during the 11th Professional Development Course in Management,
Public Health and Health Sector Reforms for District Medical Officers, on 4th August 2009 from 2 – 5 PM.

12. Participated as an Invited International Faculty and Guest Speaker at the “SHANGHAI INGUINAL and VENTRAL HERNIA FORUM” Organized at the 6th People’s Hospital in Shanghai, China on 20 – 22 August 2009.

13. Invited by the Ministry of Health & Family Welfare to visit of Technical Committee for Appraisal of Jawaharlal Nehru Medical College of Aligarh Muslim University, Aligarh for upgradation in the Second phase of PMSSY on 25th August 2009.


15. Invited as a National Faculty at the Quarterscept Centennial (175 Years) Jubilee Celebrations of the Madras Medical College (MMC), Hospital and Society of Endoscopic and Laparoscopic Surgeons of India, South Zone International Conference, Organized by the Department of Endocrine Surgery, MMC, Chennai, 4 – 6 September 2009.

16. Invited to Chair a Scientific Session during 3rd Annual National Conference of Society for Wound Care and Research, 4 – 6th September 2009, Organized by the Department of Burns, Plastic and Maxillofacial Surgery, VMMC and Safdarjung Hospital, New Delhi, held at India Habitat centre, New Delhi.

17. Invited as Operating Faculty and Chair of the “Minimal Access Congress” from 4 – 6th September 2009, Organized by Madras Medical College, Chennai.

18. Visit to Ladakh from 10th to 13th September 2009 to attend the serious and chronic patients.

19. IMRCS Part 3 Examinations from 14th to 18th September 2009 at New Delhi.

20. Invited as a National Faculty to deliver a guest lecture in a workshop on TEACH VIP Manual for health Administrators in Northern region of India from 06th - 08th October 2009 at Chandigarh.

21. Visit to Karad on 29th September 2009 to inspect the physical and other teaching faculties available at Krishna Institute of Medical Sciences.


24. Invited as a Guest Faculty at the ICSIS-GOLDEN CON-2009 Pre-Conference Live Workshop at International College of Surgeons on 29th October 2009 at Amritsar.

25. Invited to Chair a Scientific Session on 5th November 09 during 2nd India Disaster Management Congress organized by National Institute of Disaster Management 4 – 6 November 2009 at Vigyan Bhawan, New Delhi.
26. Invited as a Guest National Faculty as a resource person during Pre-conference Live Operative Workshop and 35th Annual Conference of UP Chapter of Association of Surgeons of India, 6 – 8 November 09. Performed Live Surgery on a Bilateral Groin Hernia (Totally Extraperitoneal repair) on 6th November 09 and delivered a Guest lecture on “Trans-vaginal Cholecystectomy on 7th November 09.

27. Invited as an External Expert and Resource person to Audit the last decade of work by the Department of Endocrine Surgery, Sanjay Gandhi Postgraduate Institute, Lucknow on 12th November 2009.


30. Invited to participate in Live Operative workshop on Advanced Minimal Invasive Surgery including liver surgery and transplantation on the occasion of National Liver Day from 2nd to 6th December 2009 at Tripoli, Libya.


33. Invited as a National Guest Faculty to perform Live Demonstration of TEP Repair of Groin Hernia and Laparoscopic Cholecystectomy during Laparocon 2009 Organized by the Department of Surgery, Rama Medical College, Kanpur on 20th December 2009. Delivered a Guest Lecture on “Laparoscopic colo-rectal surgery”.

34. Invited to deliver prestigious “Dr. Kini Memorial Oration” at ASICON 2009, 69th Annual Conference of Association of Surgeons of India held in Coimbatore from 27 – 30 December 09. Oration delivered on 28th December 09 at 12 – 12:45 PM, the Topic was “Challenges in Management of Polytrauma: Capacity Building Of Trained Human Resource To Improve Trauma Care In India: A Huge Challenge ATLS India Program-Journey so far.

35. Invited as Co-Chairperson “Surgery Track” during Global Health Summit on 2nd and 3rd January 2010, Organized by Association of American Physicians of India (AAPI), held at Hotel Maurya Sheraton, New Delhi.

36. Invited to participate the training programme on Management of Serial Bomb Blast and also share the expertise and knowledge during the panel discussion on “Integrated approach on Management of Serial Bomb Blast-Key Issues” on 15th January 2010 at PGI/MER, Chandigarh.


40. Invited as a Guest Technical Expert for a discussion during Live Telecast on “Thyroid disorders” on Lok Sabha TV on 23rd January 2010 from 6 – 7 PM.

41. Appointed Inspector by the Medical Council of India to inspect facilities at Smt. NHL Municipal Medical College, Ahmedabad for starting of MD (Emergency Medicine) course. Inspection was carried out on 25th January 2010.

42. Invited as a Member of Indian Advisory Committee for the Indo-Australian Workshop on Road Traffic Injury (June 2010 in Sydney, Australia) by the Indian Council of Medical Research (ICMR), held on 11th February, 2010 at 10.30 A.M. in Taj Deccan, Hyderabad.

43. Invited as an Expert “to participate in Health Show on Stone in Gallbladder” by Doordarshan Kendra, Mandi House, New Delhi on 5th February 2010. 30 minute Program recorded for telecast on 13 February 2010 at 4:00 PM.

44. Invited to deliver “Key-Note address” and a Guest Lecture during a CME on “Emerging trends in medicine” on 13-14 Feb 2010 organized by Military Hospital, Jodhpur and Rajasthan. Topic of Key – note address – Emerging trends in Surgery – Big Surgeons – Big Incisions to Scar less surgery.

45. Invited to speak on “Accident and Emergency Services & Role of Hospitals in Disaster Management” and” during 83rd Training course in Hospital Administration for Senior Hospital Administrators, organized by the National Institute of Health and Family Welfare, Munirka, New Delhi, on 18th February 2010.

46. Appointed Inspector by the Medical Council of India to inspect facilities at Padmashree Dr. D. Y. Patil Medical College, Navi Mumbai to verify compliance report regarding increase of Postgraduate seats in General Surgery. Inspection was carried out on 22nd February 2010.

47. Course Instructor, India Chair, ATLS – India Program Promulgation, 1st ATLS Provider Course, 24th – 27th February, 2010, at Indian Institute of Emergency Medical Services, Cochin, Kerala in Collaboration with American College of Surgeons.

48. Invited to attend the CME on “Trauma Management in Armed Forces” from 5th to 6th March 2010 at Bagdogra.
49. Invited to attend the Annual Conference Northern Chapter of Association of Surgeons of India from 5th to 7th March 2010 at PGIMER, Chandigarh.

Dr. Amit Gupta


5. Organizing Secretary: ASICON CME organized by ASICON Education Foundation, ASI Delhi Chapter at JPN Apex Trauma Center, AIIMS on 26th July 2009.

Dr. Biplab Mishra


Dr. Maneesh Singhal


Dr. Subodh Kumar

1. Organising Secretary - ASICON CME organized by ASICON Education Foundation, ASI Delhi Chapter at JPN Apex Trauma Center, AIIMS on 26th July 2009.


Dr. Sushma Sagar


National and International Conferences

Dr. Amit Gupta

Lectures Delivered

International


National


3. Management Strategies in Abdominal Trauma – Responders in ASICON CME organized by ASICON Education Foundation, ASI Delhi Chapter at JPN Apex Trauma Center, AIIMS on 26th July 2009.

4. Designing and running an Emergency Department in 82nd Training Course on Hospital Administration Organized by National Institute of Health and Family Welfare, Govt. of India. 6-24 July 2009.


6. An Insight into the functioning of an Apex Trauma Center, delivered at the Department of Hospital Administration, All India Institute of Medical Sciences, New Delhi, India on May 1st 2009.

7. Abdominal Trauma, in 2nd, 3rd, 4th, 5th and 6th ATLS Courses held at Apex Trauma Center, AIIMS. ATLS ® India Program. Advanced Trauma Life Support Course of the American College of Surgeons – Committee on Trauma (ACS-COT), USA. (April to August 2010)

8. Initial Assessment and Management of a Multiply Injured Patient, as Course Director Candidate in 7th ATLS Course held at Apex Trauma Center, AIIMS. ATLS ® India Program. Advanced
9. Geriatric Trauma. In 8th ATLS Course held at Apex Trauma Center, AIIMS. ATLS ® India Program. Advanced Trauma Life Support Course of the American College of Surgeons – Committee on Trauma (ACS-COT), USA. (September 2010)

10. Pediatric Trauma. In 9th and 10th ATLS Course held at Apex Trauma Center, AIIMS. ATLS ® India Program. Advanced Trauma Life Support Course of the American College of Surgeons – Committee on Trauma (ACS-COT), USA. (October - December 2010)

11. Thoracic Injuries. In ATLS Courses held at Apex Trauma Center, AIIMS and Dr. RML Hospital. ATLS ® India Program. Advanced Trauma Life Support Course of the American College of Surgeons – Committee on Trauma (ACS-COT), USA. (January – February 2010)

12. Trauma Shock. In The Inaugural ATLS Course held at IIEMS, Cochin. ATLS ® India Program. Advanced Trauma Life Support Course of the American College of Surgeons – Committee on Trauma (ACS-COT), USA. (February 2010)

13. ATLS Course Overview and Transfer to Definitive Care. As Course Director of 2nd ATLS Course held at IIEMS, Cochin. ATLS ® India Program. Advanced Trauma Life Support Course of the American College of Surgeons – Committee on Trauma (ACS-COT), USA. (April 2010)

Dr. Biplab Mishra


5. FAST (Focused Assessment Sonography in Trauma, skill station): Comprehensive Trauma Life Support workshop, CME on ‘Emergencies in Everyday Practice’, 7 Airforce Hospital, Kanpur, 13-14/3/10.


10. ‘Evaluation and management of fresh wounds’- CME on Advances in Wound Care, AIIMS, 6/9/09.


12. Successful management of a case of polytrauma with pelvic fracture leading to nonresponsive hemorrhagic shock: ‘Advances in Trauma Care’, ASICON CME, ASI Delhi Chapter, 26/7/09.


Dr. Maneesh Singhal

1. Thermal Injuries. In Inaugural Advanced Trauma Life Support (ATLS) provider course organized in association with American College of Surgeons – Committee on Trauma, USA, 16th – 18th April 2009 at Apex trauma center AIIMS, New Delhi.

2. Shock. In 2nd Advanced Trauma Life Support (ATLS) provider course organized in association with American College of Surgeons – Committee on Trauma, USA, 22nd – 24th April 2009 at Apex trauma center AIIMS, New Delhi.

3. Shock. In 3rd Advanced Trauma Life Support (ATLS) provider course organized in association with American College of Surgeons – Committee on Trauma, USA, 7th – 9th May 2009 at Apex trauma center AIIMS, New Delhi.

4. Shock. In 4th Advanced Trauma Life Support (ATLS) provider course organized in association with American College of Surgeons – Committee on Trauma, USA, 28th – 30th May 2009 at Apex trauma center AIIMS, New Delhi.

5. Shock. In 5th Advanced Trauma Life Support (ATLS) provider course organized in association with American College of Surgeons – Committee on Trauma, USA, 23rd – 25th July 2009 at Apex trauma center AIIMS, New Delhi.


7. Thermal Injuries. In 7th Advanced Trauma Life Support (ATLS) provider course organized in association with American College of Surgeons – Committee on Trauma, USA, 17th – 19th September 2009 at Apex trauma center AIIMS, New Delhi.

8. Shock. In 9th Advanced Trauma Life Support (ATLS) provider course organized in association with American College of Surgeons – Committee on Trauma, USA, 19th – 21st November 2009 at Apex trauma center AIIMS, New Delhi.

9. Shock. In 1st Advanced Trauma Life Support (ATLS) provider course organized in association with American College of Surgeons – Committee on Trauma, USA, 23rd – 25th November 2009 at Dr. Ram Manohar Lohia Trauma Care Center, New Delhi.
10. Initial assessment and Management. In 10th Advanced Trauma Life Support (ATLS) provider course organized in association with American College of Surgeons – Committee on Trauma, USA, 7th – 9th December 2009 at Apex trauma center AIIMS, New Delhi.

11. Shock. In 3rd Advanced Trauma Life Support (ATLS) provider course organized in association with American College of Surgeons – Committee on Trauma, USA, 28th – 30th January 2010 at Dr. Ram Manohar Lohia Trauma Care Center, New Delhi.

12. Thermal Injuries. In 13th Advanced Trauma Life Support (ATLS) provider course organized in association with American College of Surgeons – Committee on Trauma, USA, 11th – 13th March 2010 at Apex trauma center AIIMS, New Delhi.

Dr. Subodh Kumar

1. Thoracic Trauma. In Inaugural Advanced Trauma Life Support (ATLS) provider course organized in association with American College of Surgeons – Committee on Trauma, USA, 16th – 18th April 2009 at Apex trauma center AIIMS, New Delhi.

2. Thoracic Trauma. In 2nd Advanced Trauma Life Support (ATLS) provider course organized in association with American College of Surgeons – Committee on Trauma, USA, 22nd – 24th April 2009 at Apex trauma center AIIMS, New Delhi.

3. Thoracic Trauma. In 3rd Advanced Trauma Life Support (ATLS) provider course organized in association with American College of Surgeons – Committee on Trauma, USA, 7th – 9th May 2009 at Apex trauma center AIIMS, New Delhi.


5. Thoracic Trauma. In 4th Advanced Trauma Life Support (ATLS) provider course organized in association with American College of Surgeons – Committee on Trauma, USA, 28th – 30th May 2009 at Apex trauma center AIIMS, New Delhi.

6. Has the anatomy of groin hernia changed in the last decade? In HERNIACON 2009 from 17th – 18th July, 2009 at Coimbatore, Tamil Nadu.

7. Thoracic Trauma. In 5th Advanced Trauma Life Support (ATLS) provider course organized in association with American College of Surgeons – Committee on Trauma, USA, 23rd – 25th July 2009 at Apex trauma center AIIMS, New Delhi.

8. Sternotomy/ Thoracotomy in Bleeding into chest In ASICON CME organized by ASICON Education Foundation, ASI Delhi Chapter at JPN Apex Trauma Center, AIIMS on 26th July 2009.

10. Initial Assessment and Management. In 6th Advanced Trauma Life Support (ATLS) provider course organized in association with American College of Surgeons – Committee on Trauma, USA, 29th – 31st August 2009 at Apex trauma center AIIMS, New Delhi.


13. Thoracic Trauma. In 7th Advanced Trauma Life Support (ATLS) provider course organized in association with American College of Surgeons – Committee on Trauma, USA, 17th – 19th September 2009 at Apex trauma center AIIMS, New Delhi.


15. Thoracic Trauma. In 8th Advanced Trauma Life Support (ATLS) provider course organized in association with American College of Surgeons – Committee on Trauma, USA, 29th – 31st October 2009 at Apex trauma center AIIMS, New Delhi.


19. Thoracic Trauma. In 9th Advanced Trauma Life Support (ATLS) provider course organized in association with American College of Surgeons – Committee on Trauma, USA, 19th – 21st November 2009 at Apex trauma center AIIMS, New Delhi.

20. Thoracic Trauma. In 1st Advanced Trauma Life Support (ATLS) provider course organized in association with American College of Surgeons – Committee on Trauma, USA, 23rd – 25th November 2009 at Dr. Ram Manohar Lohia Trauma Care Center, New Delhi.


22. Thoracic Trauma. In 10th Advanced Trauma Life Support (ATLS) provider course organized in association with American College of Surgeons – Committee on Trauma, USA, 7th – 9th December 2009 at Apex trauma center AIIMS, New Delhi.
23. Shock. In 2\textsuperscript{nd} Advanced Trauma Life Support (ATLS) provider course organized in association with American College of Surgeons – Committee on Trauma, USA, 4\textsuperscript{th} – 6\textsuperscript{th} January 2010 at Dr. Ram Manohar Lohia Trauma Care Center, New Delhi.

24. Laparoscopic Anatomy of Groin Hernia. In Training course in Laparoscopic Hernia Surgery from 12\textsuperscript{th} -14\textsuperscript{th} January 2010 at Minimally Invasive Surgery Training Centre, AIIMS, New Delhi.

25. Thoracic Trauma. In 11\textsuperscript{th} Advanced Trauma Life Support (ATLS) provider course organized in association with American College of Surgeons – Committee on Trauma, USA, 21\textsuperscript{st} – 23\textsuperscript{rd} January 2010 at Apex trauma center AIIMS, New Delhi.

26. Shock. In 12\textsuperscript{th} Advanced Trauma Life Support (ATLS) provider course organized in association with American College of Surgeons – Committee on Trauma, USA, 18\textsuperscript{th} – 20\textsuperscript{th} February 2010 at Apex trauma center AIIMS, New Delhi.

27. Thoracic Trauma. In 1\textsuperscript{st} Advanced Trauma Life Support (ATLS) provider course organized in association with American College of Surgeons – Committee on Trauma, USA, 25\textsuperscript{th} – 27\textsuperscript{th} February 2010 at Indian Institute of Emergency Medical Services, Cochin, Kerala.

28. Initial Assessment of Trauma. In 1\textsuperscript{st} CME of Academic Council on 10\textsuperscript{th} March, 2010 at Max Hospital, New Delhi.

29. Thoracic Trauma. In 13\textsuperscript{th} Advanced Trauma Life Support (ATLS) provider course organized in association with American College of Surgeons – Committee on Trauma, USA, 11\textsuperscript{th} – 13\textsuperscript{th} March 2010 at Apex trauma center AIIMS, New Delhi.

**Dr. Sushma Sagar**

1. Integrated approach on Management of Serial bomb blast-medical management. Training programme for bomb blast management at National Institute of Disaster Management (NIDM); 30\textsuperscript{th} March 2010, Delhi.

2. First aid to trauma and road accident victims; - Training programme at National Institute of Disaster Management (NIDM); 15\textsuperscript{th} March 2010, Delhi.

3. Musculoskeletal Trauma in 13\textsuperscript{th} Advanced Trauma Life Support (ATLS) provider Course 11\textsuperscript{th}-13\textsuperscript{th} March 2010 at Apex trauma center AIIMS, New Delhi.

4. Injury due to Burns and Cold in 12\textsuperscript{th} Advanced Trauma Life Support (ATLS) provider Course 18\textsuperscript{th}-20\textsuperscript{rd} February 2010 at Apex trauma center AIIMS, New Delhi.

5. Injury due to Burns and Cold in 11\textsuperscript{th} Advanced Trauma Life Support (ATLS) provider Course 21\textsuperscript{st}-23\textsuperscript{rd} January 2010 at Apex trauma center AIIMS, New Delhi.

6. Injury due to Burns and Cold in 9\textsuperscript{th} Advanced Trauma Life Support (ATLS) provider Course 19\textsuperscript{th}-21\textsuperscript{st} November 2009 at Apex trauma center AIIMS, New Delhi.

7. An approach to maxillofacial trauma in the Maxillofacial Workshop organized during Trauma 2009, 12-15\textsuperscript{th} November 2009 JPNATC, AIIMS.

8. Injury due to Burns and Cold In 8\textsuperscript{th} Advanced Trauma Life Support (ATLS) provider Course 29\textsuperscript{th}-31\textsuperscript{st} October 2009 at Apex trauma center AIIMS, New Delhi.
9. Disaster Health Management - Key issues. Training programme at National Institute of Disaster Management (NIDM); 29th September 2009, Delhi.


14. Advances in Trauma Care -“Golden hour vs silver hour” ASICON CME, ASI Delhi Chapter, 26th July 2009, JPNATC, AIIMS.

15. Injury due to Burns and Cold in 5th Advanced Trauma Life Support (ATLS) provider Course 23rd – 25th July 2009 at Apex trauma center AIIMS, New Delhi.


Dr. S. Arulselvi
1. Taken following lectures for DNB students through teleconferencing sessions (using infrastructure of IGNOU): Point of care coagulation testing.

2. Appraiser (examiner) duty for DNB (pathology) exams in Apollo hospital on 22.10.09

Dr. Shivanand Gamanagatti

2. Percutaneous Vertebroplasty Vs Percutaneous Kyphoplasty at annual registry meet cum complication meeting combined with CME on “Advances in interventional Radiology Lessons from Trials and Registries” held at AIIMS, New Delhi on April 25 and 26, 2009.

3. MDCT techniques and Anatomy of thorax. AIIMS-MAMC-PGI imaging course series: Chest and Cardiovascular Imaging 2009 (CME) held at MAMC, New Delhi, on November 6-7, 2009.

4. Embolisation of giant SMA aneurysm an Unusual Case at 11th annual conference of ISVIR held in AIIMS, Delhi from October 7 to 10, 2009

International Conferences

2. Embolisation techniques in trauma; Live Video demonstration at Radiology Work shop, International Conference Trauma , Held in JPNATC, AIIMS, New Delhi , November 12-15, 2009
3. Plain X Ray in Major Trauma: International Conference Trauma, Held in JPNATC, AIIMS, New Delhi, November 12-15, 2009

**Dr. Atin Kumar**


**Dr. Adarsh Kumar**

1. Guest Speaker CME, FORENSIC MEDICON-2010 during 31st Annual Conference of Indian Academy of Forensic Medicine held in Bhopal on 6-8 Feb 2010 on the topic “Legal Aspect of Medical Practice in Present Scenario” and delivered a talk on RTI Directives vis-a-vis MIC Guidelines- issues thereof.


3. Invited Speaker in National Seminar on Emerging Scenario in Forensic Science held at Institute of Forensic Science and Criminology, Bundelkhand University Jhansi on 23rd-24th October 2009, on the topic “Emerging issues in medicolegal functioning with special reference to Forensic Engineering”.

4. Invited Speaker in Plenary Session on “Medicolegal Aspects of Medical Documents” during the 2nd Annual Conference of National Foundation of Clinical Forensic Medicine held at KMC, Manglore on 18-20 Sep. 2009.


6. Invited to attend 21st International Conference of International Academy of Legal Medicine at Lisbon, Portugal (26-30 May 2009). Presented the paper “Profile of Natural Deaths in Medicolegal cases during 2001-08: 8- years retrospective study in South Delhi region of India’. Attended pre-congress Advance course on ‘The forensic investigation of human remains from armed conflicts’. Also Co-chaired the session on Forensic Anthropology.
7. Delivered to Police Officers from India as well as abroad during Advance Course on Scientific Investigation through Central Detective Training School, Chandigarh on 12th -13th Aug. 2009.


12. “Guest Lecture” on “Medicolegal Cases & Postmortem Examination-Know how?” during Workshop for the doctors, pharmacists & police inspectors of the District G.B. Nagar at Sector -6, NOIDA on 16th March, 2010

13. “Guest Lecture” on “Legal Aspects of Medical Care & Acts relevant to hospitals” during Training Course on Hospital Administration for Chief Medical Superintendents of the State of Uttar Pradesh at NIHFW, New Delhi on 18th March, 2010


Dr. Deepak Kumar Gupta

1. Chiari Malformations : study of clinical prognosticator factors at Central Military hospital, Prague, Czech Republic 29th January 2010

2. Conducted Comprehensive trauma life support CME at Air force Hospital, Kanpur, UP on 13-14th March 2010. Delivered lecture on Head injury management, Spine injury management and Demonstrated and taught Clinical skills for emergency resuscitate care to Air force Doctors.

3. ATLS faculty: conducted advanced trauma workshops at JPN apex trauma centre as a faculty and gave guest lectures and demonstrative clinical skills to ATLS participants /students.


Dr. Purva Mathur

1. Hospital Infection Control workshop, organized by the Department of Laboratory at the Trauma 2010, congress.
Dr. Vijay Sharma
1. Miniopen rotator cuff tear our experience Hainan island China 2009.
5. Management of compound fractures Woundcon 2009 AIIMS.
8. Low Backache Community Lecture Indian Habitat Centre New Delhi 2010.
9. Applied anatomy, muscular forces displacing the fractured fragments and Arterial blood supply of the proximal humerus. DOACON 2010 AIIMS New Delhi.
10. Approaches for the fixation of the pelvic fractures Trauma Symposium Amritsar March 2010.

Dr. Babita Gupta
1. Fat Embolism Syndrome: The Masquerader presented in Trauma 2009 held in New Delhi (First Prize).
2. A novel technique of managing airway in failed Percutaneous tracheostomy presented in Trauma 2009 held in New Delhi (Second Prize).
5. Participated in debate Supraglottic airway devices versus fiberoptic intubation in Trauma 2009 Conference held in November 2009.
7. Course Director of ABCDE workshop concentrating on management of trauma victims was conducted in “Trauma 2009” conference held in New Delhi in Nov 2009.
8. Successfully completed FCCS Provider and Instructor Course in January 2010.
Dr. Vivek Trikha

Lectures Delivered


2. “Acetabular Fracture Fixation in Young Adults” Guest Lecture in VIth Middle East Ortho Conference in Arab Health Congress at Dubai, UAE on 25th January, 2010.


RESEARCH

Prof. M.C.Misra

Funded Research

Title: Cost Effectiveness Analysis and Comparison of Single Stage Vs Two Stage management of Patients with concomitant Gall Stone Disease and Common Bile duct Stones – A Randomized Controlled Trial.
Collaborative Research

Completed

1. A prospective randomized comparison of TAPP vs. TEP repair in patients undergoing laparoscopic inguinal hernia repair.

2. A prospective randomized control trail of sutured vs. tacker fixation of mesh in patients undergoing laparoscopic Incisional Hernia repair.

3. Prospective Evaluation of laparoscopic Skills Acquisition in a Short Term Focussed Training Programme on a Phantom Model using Porcine Gall Bladder.

Ongoing

1. Chronic groin pain and quality of life after laparoscopic inguinal hernia repair using heavy weight vs. light weight meshes.

2. Comparison of long term outcome and quality of life after laparoscopic incisional and ventral hernia repair with suture or tracker mesh fixation.

3. Comparison of chronic groin pain and quality of life after laparoscopic inguinal hernia repair – TEP vs TAPP

4. Chronic groin pain, testicular function and quality of life after laparoscopic and open inguinal hernia repair.

5. A randomized controlled study of comparison of single stage vs two stage treatment for patients with gall stones and common bile duct stones.

6. To evaluate the endovenous laser ablation in the treatment of varicose veins.


8. Comparison of various imaging modalities in the diagnosis and staging of the periampullary tumors and study of various perioperative factors in predicting the outcome of the patients with periampullary tumors.

9. Laparoscopic suturing skills acquisition – a comparison between trained and novice surgeons.

10. Major Trauma Outcome Study in a level – I Trauma Centre.

Dr. Babita Gupta

Ongoing Projects

1. A prospective controlled double blind study on the efficacy of tranexamic acis versus aprotinin to reduce blood loss in traumatic spine surgeries. (Ongoing Project).

2. Department of Microbiology, JPNATC in collaboration with Department of Anesthesia conducting a study titled “Evaluation of serum Procalcitonin levels for diagnosis of sepsis in trauma patients admitted in ICU.”
3. Randomised, prospective, controlled trial to study the role of parenteral Glutamine (Gln) and Omega3 fatty acid supplemented total parenteral nutrition (TPN) or enteral nutrition in the clinical outcome in critically ill trauma patients in the ICU”.


5. Prospective versus intravenous two drug analgesia in thoracic trauma”, randomised comparison of efficacy and safety of thoracic epidural analgesia with bupivacaine and opioid in two different concentrations (AIIMS funded Project).

Dr. Amit Gupta

Completed

1. Comparison of Sustained silver ion releasing foam based dressing with conventional paraffin gauze dressing in donor area.

2. Ultrasonic debridement of post traumatic wounds.

Ongoing

• Prospective Randomized Control trial of early versus late Tracheostomy in critically ill Trauma Patients, Funded by all India Institute of Medical Sciences, New Delhi.

• Immunological changes in patients of shock due to Trauma. Sponsored by Indian council of Medical Research, New Delhi, India.

• Study on the use of Tranexamic acid in patients Undergoing Surgery: Safety and effectiveness, Funded by all India Institute of Medical Sciences, New Delhi.

• Prospective, Randomised comparison of efficacy and Safety of thoracic epidural analgesia with bupivacaine and opioid in two different concentrations versus intravenous two drug analgesia in thoracic trauma.

• A randomised, prospective, controlled trial to study the role of parenteral Glutamine (Gln) and Omega3 fatty acid supplemented total parenteral nutrition (TPN) or enteral nutrition in the clinical outcome in critically ill trauma patients in the ICU.

• A study of the causes and pathologic features of traumatic deaths.

• To study the role of virtopsy (Postmortem CT scan)in predicting the cause of death in trauma patients by comparing the findings of postmortem CT scan and conventional autopsy

• To study of the feasibility of management of occult pneumothoraces without intercostal drainage tube.

Dr. Biplab Mishra

Completed


2. Percutaneous management of malignant biliary obstruction.
3. Comparison of Sustained silver ion releasing foam based dressing with conventional paraffin gauze dressing in donor area.

4. Ultrasonic debridement of post traumatic wounds.

**Ongoing**

- The causes and pathologic features of traumatic deaths.
- The role of virtopsy (Postmortem CT scan) in predicting the cause of death in trauma patients by comparing the findings of postmortem CT scan and conventional autopsy.
- The feasibility of management of occult pneumothoaces without intercostal drainage tube.
- Role of CECT and splenic artery embolization in management of blunt splenic injury.

**Dr. Maneesh Singhal**

**Completed**

1. Comparison of Sustained silver ion releasing foam based dressing with conventional paraffin gauze dressing in donor area.

2. Ultrasonic debridement of post traumatic wounds.

**Ongoing**

- Epidemiological study in the pathway of Maxillofacial Fractures seen at a tertiary care hospital of North India.
- To study Epidemiology and Trauma scoring in patients presenting in level 1 Trauma center.
- Cosmetic outcome following Breast oncoplasty.
- A Randomised Controlled Trial of Early versus Late Tracheostomy in Critically ill Trauma Patients.
- To study of the feasibility of management of occult pneumothoraces without intercostal drainage tube.
- A study of the causes and pathologic features of traumatic deaths.
- To study the role of virtopsy (Postmortem CT scan) in predicting the cause of death in trauma patients by comparing the findings of postmortem CT scan and conventional autopsy.
- Prospective, randomised comparison of efficacy and safety of thoracic epidural analgesia with bupivacaine and opioid in two different concentrations versus intravenous two drug analgesia in thoracic trauma.
- A randomised, prospective, controlled trial to study the role of parenteral Glutamine (Gln) and Omega3 fatty acid supplemented total parenteral nutrition (TPN) or enteral nutrition in the clinical outcome in critically ill trauma patients in the ICU.
- Safety and efficacy of Transemic Acid in patients undergoing surgery post trauma.
Dr. Subodh Kumar

**Completed**

1. A prospective randomized comparison of TAPP vs TEP repair in patients undergoing laparoscopic inguinal hernia repair.
3. Comparison of Sustained silver ion releasing foam based dressing with conventional paraffin gauze dressing in donor area.
4. Ultrasonic debridement of post traumatic wounds.

**Ongoing**

- Role of computed tomography and splenic artery embolisation in blunt splenic trauma.
- Major Trauma Outcome Study in a level – I Trauma Centre.
- To study Epidemiology and Trauma scoring in patients presenting in level 1 Trauma center
- Comparison of chronic groin pain, testicular functions and quality of life after open and laparoscopic inguinal hernia repair- a prospective randomized control trial.
- Comparison of various imaging modalities in the diagnosis and staging of the periamputary tumors and study of various perioperative factors in predicting the outcome of the patients with periamputary tumors.
- Chronic groin pain and quality of life after laparoscopic inguinal hernia repair using heavy weight vs light weight meshes.
- Comparison of chronic groin pain and quality of life after laparoscopic inguinal hernia repair- TEP vs TAPP
- Comparison of long term outcome and quality of life after laparoscopic incisional and ventral hernia repair with suture or tacker mesh fixation
- Molecular and immunohistochemical study of aberrant crypt foci and colorectal carcinomas.
- Prospective, randomised comparison of efficacy and safety of thoracic epidural analgesia with bupivacaine and opioid in two different concentrations versus intravenous two drug analgesia in thoracic trauma.
- A randomised, prospective, controlled trial to study the role of parenteral Glutamine (Gln) and Omega3 fatty acid supplemented total parenteral nutrition (TPN) or enteral nutrition in the clinical outcome in critically ill trauma patients in the ICU.
- A Randomised Controlled Trail of Early versus Late Tracheostomy in Critically ill Trauma Patients.
- The role of virtopsy (Postmortem CT scan) in predicting the cause of death in trauma patients by comparing the findings of postmortem CT scan and conventional autopsy.
• The feasibility of management of occult pneumothoraces without intercostal drainage tube.
• Safety and efficacy of Transxemic acid in patients undergoing surgery post trauma.
• A study of the causes and pathologic features of traumatic deaths.

Dr. Sushma Sagar

Completed

1. Comparison of Sustained silver ion releasing foam based dressing with conventional paraffin gauze dressing in donor area.
2. Ultrasonic debridement of post traumatic wounds.

Ongoing

• Major Trauma Outcome Study in a level – I Trauma Centre.
• Epidemiological study in the pathway of Maxillofacial Fractures seen at a tertiary care hospital of North India
• To study Epidemiology and Trauma scoring in patients presenting in level 1 Trauma center
• Cosmetic outcome following Breast oncoplasty
• A Randomised Controlled Trial of Early versus Late Tracheostomy in Critically ill Trauma Patients
• To study of the feasibility of management of occult pneumothoraces without intercostal drainage tube.
• A study of the causes and pathologic features of traumatic deaths.
• To study the role of virtopsy (Postmortem CT scan) in predicting the cause of death in trauma patients by comparing the findings of postmortem CT scan and conventional autopsy.
• Prospective, randomised comparison of efficacy and safety of thoracic epidural analgesia with bupivacaine and opioid in two different concentrations versus intravenous two drug analgesia in thoracic trauma.
• A randomised, prospective, controlled trial to study the role of parenteral Glutamine (Gln) and Omega3 fatty acid supplemented total parenteral nutrition (TPN) or enteral nutrition in the clinical outcome in critically ill trauma patients in the ICU.
• Safety and efficacy of Transemic Acid in patients undergoing surgery post trauma.

Dr. Atin and Dr. Shivanand

Completed

• Differentiating recurrent gliomas from post radiotherapy changes: Utility of advanced MRI techniques and their correlation with 99m tc-glucoheptonic acid (GHA) brain SPECT
• Role of MDCT in staging of laryngeal carcinoma with limited MRI correlation
• Comparison of MDCT, Endoscopic Ultrasound, MRI & PET-CT in evaluation of pancreatic malignancy
• MRI in evaluation of chronic wrist pain
• Percutaneous management of patients with malignant biliary obstruction
• The Role of Multidetector Computed Tomographic Dacryocystography In Patients with Epiphora

**Ongoing**

• Comparison of CT & MRI including diffusion weighted MRI in renal mass lesions.
• Cysts, tumors and tumor like lesions of the jaw: Evaluation by panoramic radiographs and MDCT with limited MRI correlation
• A prospective study on radiological evaluation in patients with vascular malformations of extremities
• Role of computed tomography and splenic artery embolisation in patients with blunt splenic injury
• MRI evaluation of internal derangement of the knee
• Radiofrequency ablation of lower limb symptomatic varicosities.
• Percutaneous radiofrequency ablation of painful benign bone tumors and metastasis
• Comparison of accuracy of image guided and palpation guided core needle biopsy in palpable breast masses.
• Clinical utility of breast ultrasound as an adjunct to mammography in diagnostic breast imaging.

**COLLABORATIVE RESEARCH**

**Completed**

• To study the clinical and neurodevelopmental profile in children with tuberous sclerosis (with department of pediatric neurology)
• Comparison of minimally invasive techniques and conservative treatment in vertebral collapse (with orthopedics)
• Clinico-radiological evaluation of total knee arthroplasty short term retrospective-prospective study (with orthopedics)

**Ongoing**

• Study of non alcoholic fatty liver disease and atherosclerosis in asian Indians (with department of Medicine)
• Evaluation of testicular blood flow and volume in patients undergoing laparoscopic inguinal hernia repair (with department of surgery).
• Evaluation of pancreatic tumors (with department of surgery).
• Abdominal fat estimation in patients of obstructive sleep apnoea (with department of medicine).
• Effect of continuous positive airway pressure on cardiovascular biomarkers in patients with obstructive sleep apnoea (with department of medicine).
• To study the effect of cricoids split with or without rib grafting in cases of subglottic stenosis for laryngotracheal stenosis (with department of otorhinolaryngology)

• Oxidative stress, carotid intimal media thickness & endothelial dysfunction in renal transplant recipients and effect of therapy with N acetyl cysteine (with department of nephrology)

• Effect of N-Acetylcysteine on Oxidative stress, endothelial dysfunction & carotid intimal media thickness in chronic peritoneal dialysis patients – An open labeled randomized trial (with department of nephrology)

• Study of non alcoholic fatty liver disease and atherosclerosis in Asian Indians (with medicine)

• Arthroscopic and MR evaluation of elbow in patients with rheumatoid arthritis (with orthopedics)

• Intralesional autologous bone marrow stem cell injection in avascular necrosis of femoral head: Follow up with bone scan, PET scan and MRI (with orthopedics)

• Plain radiograph and MR imaging of patients with tennis elbow (with orthopedics)

• MDCT evaluation of spinal trauma: preoperative an post operative evaluation (with orthopedics)

• Randomized controlled trial of Radiofrequency ablation versus Percutaneous acetic therapy for the treatment of small hepatocellular carcinoma (with gastroenterology)

• Randomized control trial of Transarterial chemoembolisation (TACE) versus TACE plus oral chemotherapy in the treatment of Unresectable Hepatocellular carcinoma. (with gastroenterology)

• Randomized control trial of Transarterial chemotherapy (TAC) versus Oral chemotherapy in the treatment of Unresectable Hepatocellular carcinoma. (with gastroenterology)

• Randomized Control Trial of N-Acetylcysteine in Prevention of Renal Failure in Hepatocellular Carcinoma patients undergoing Transarterial Chemotherapy and Transarterial Chemoembolisation. (with gastroenterology)

• Randomized control trial of Oral chemotherapy versus supportive therapy in the treatment of Unresectable Hepatocellular carcinoma. (with gastroenterology)

• Liver stiffness estimation by transient elastography in cirrhosis and non-cirrhotic portal hypertension (with gastroenterology)

• MRI based protocol for the management of infected pancreatic necrosis (with gastroenterology)

• Pattern of peripheral arterial diseases in tertiary care surgical practice (Indian scenario) (with surgery)

• Safety and efficacy of autologous stem cells in prevention of amputation in patients with chronic critical limb ischemia (with surgery)

• A comparative Evaluation of changes in ultrasonographic dimensions of masseter muscle with EMG activity prior and subsequent to twin block therapy (with dental surgery)

• USG evaluation of Intimal-medial thickness of carotid artery in patients with SLE (with medicine)

• Estimation of standard liver volume in the Indian population (with GI surgery)
• Role of intraoperative ultrasound in GI malignancies: comparison with conventional imaging techniques (with GI surgery)

• Ultrasound doppler evaluation of EHPVO patients follow up (with GI surgery)

• Ultrasound evaluation cervical lymph nodes in patients with carcinoma of esophagus (with GI surgery)

Dr. Deepak Kumar Gupta

• Principal investigator: Intratumoral radioimmunotherapy using Cotara compound in recurrent high grade gliomas (ongoing study).

• Chief co investigator : RESCUEicp study in refractory intracranial hypertension (MRC, UK Cambridge)

• Chief co investigar: AP12009 intratumoral immunotherapy in anaplastic astrocytomas (Antisense study)

PUBLICATIONS


ABSTRACTS


2. Sushma Sagar, Singhal M, Mahesh C Misra, Subodh Kumar, Amit Gupta; Need for Standardized training for doctors and Nurses in Trauma care –A perspective from a developing nation .16th World Congress on Disaster and Emergency Medicine 12th-15th May 2009, Victoria BC ,Canada. Abstracted in Pre Hospital and Disaster Medicine, Vol.24, No.2 Mar-April 2009.

3. S Kumar , A Gupta, B Mishra, S Sagar, M Singhal, G Saurabh; Our experience of Thoracic trauma at Level -1 Trauma Center .16th World Congress on Disaster and Emergency Medicine 12th-15th May 2009, Victoria BC ,Canada. Abstracted in Pre Hospital and Disaster Medicine, Vol.24, No.2 Mar-April 2009.
4. Neeraj Gupta, Subodh Kumar, Biplab Mishra, Amit Gupta, Maneesh Singhal, Sushma Sagar; Cardiac injury- Our experience at level 1 trauma center 12th-15th November, Trauma 2009, JPN Apex trauma center, AIIMS.

5. Neeraj Gupta, Subodh Kumar, Biplab Mishra, Amit Gupta, Maneesh Singhal, Sushma Sagar – Obstructing duodenal hematoma following blunt trauma Abdomen- case series 12th-15th November, Trauma 2009, JPN Apex trauma center, AIIMS.


8. Satyavrat A, Sushma S, Maneesh S Biplab M, Subodh K, Amit G; Burden of Maxillofacial trauma at level 1 trauma center 12th-15th November, Trauma 2009, JPN Apex trauma center, AIIMS.


ARTICLES


4. Chhavi Sawhney, Nita D’Souza, Biplab Mishra, Babita Gupta, Subir Das


CHAPTERS IN BOOKS


AWARDS & HONOURS

Dr. Adarsh Kumar
1. Awarded Honorary Diploma in Forensic Medicine by International Academy of Legal Medicine at Portugal on 30th May 2009.
4. Elected General Secretary of Indian Academy of Forensic Medicine during 31st Annual Conference of Indian Academy of Forensic Medicine at Bhopal held on 6-8, Feb. 2010.

Dr. Deepak Agrawal
1. Received best poster award for study titled ‘Outcome in Head Injured patients: Indian Experience’ at the annual NSI conference held at Jaipur in December 2009.
2. Received best paper award for co-authoring the study titled ‘Changes in ICP following response checking and suctioning in neurosurgical intensive care unit’ at ‘Trauma 2009’ International congress & second annual conference of ISTAC, JPN Apex trauma centre, AIIMS, New Delhi 12-15 November, 2009
3. Received second best paper award for co-authoring the study titled ‘Does PEEP effect central venous pressure in mechanically ventilated patients?’ at ‘Trauma 2009’ International congress & second annual conference of ISTAC, JPN Apex trauma centre, AIIMS, New Delhi 12-15 November, 2009
4. Received third best paper award for co-authoring the study titled ‘To assess the effect of camera surveillance in improving compliance with hand washing practices in the ICU setting’ at ‘Trauma
Received third best paper award for co-authoring the study titled ‘Foley’s catheter or external condom catheter—which is better in bed-ridden head injured male patients’ at ‘Trauma 2009’ International congress & second annual conference of ISTAC, JPN Apex trauma centre, AIIMS, New Delhi 12-15 November, 2009.

Received best paper award for co-authoring the study titled ‘Effect of PEEP on CVP in ventilated patients’ at DNACON, AIIMS, New Delhi 7-8 February, 2009.

Awarded the AANS travelling fellowship to attend the annual CNS meeting in New Orleans 23-29 October 2009 and present the study titled ‘Computerization in developing countries’.

Successfully completed ATLS provider and instructor course held in JPN Apex trauma Centre in April 2009.

Editor and initiator of JPN Apex Trauma Centre newsletter.

**Dr. Deepak Gupta**

1. Top ten best paper award for paper award (neurooncology) entitled Intratumoral radioimmunotherapy in recurrent high grade gliomas: Congress of neurological surgeons annual meeting, New Orleans, USA 24-29th October 2009.
2. WFNS international traveling fellowship for World federation of neurological surgeons conference, Boston (August 2009).
3. European skull base surgeons travelling fellowship for ESBS congress, Rotterdam, April 2009.
4. Congress of neurological surgeons travelling fellowship, New Orleans, USA (October 2010).

**Dr. Vivek Trikha**

1. AO Trauma Fellowship at Innsbruck, Austria in Sep-Oct 2009.
2. North Zone IOA Fellowship for the year 2009-10.

**Dr. Shivanand Gamanagatti**

2. Editorial member of Journal of Thoracic Diseases.
3. Selected as Member of National Academy of Medical Sciences.

**Dr. Atin Kumar**

1. Selected as Member of National Academy of Medical Sciences.

**Dr. Amit Gupta**

1. Qualified as Course Director, ATLS ® India Program. Advanced Trauma Life Support Course of the American College of Surgeons – Committee on Trauma (ACS-COT), USA.
2. Qualified as Course Faculty, ATLS ® India Program. Advanced Trauma Life Support Course of the American College of Surgeons – Committee on Trauma (ACS-COT), USA.
3. External Examiner ship: External Examiner for M.B.B.S. Final Professional Surgery Practical Examination at the C.S.M.M. University (Erstwhile King George’s Medical University), Lucknow, India 2009 – 2010

4. Appointed as Course Faculty: Course on Preparedness for Emergency Response to CBRN Casualties – Developed by DRDE, Gwalior and National Disaster Management Authority, Govt. of India.

5. Member, Committee to review Post – Doctoral Course in Trauma Surgery, under chairmanship of Addl. DGHS, Directorate General of Health Services, Govt. of India. 2009


7. Member, Global Advisory Board, Journal of Emergency Trauma and Shock (JETS), Medknow Publications.

8. Chairman, Technical committee to review and grade Emergency Services of Delhi Hospitals, under the Emergency Medical Council, Govt. of NCT Delhi. 2009

9. Member Committee to draft the EMS Legislation for Govt. of NCT Delhi. Under the Emergency Medical Council, Govt. of NCT Delhi. 2009


11. Member of CBRN co-ordination committee of National Disaster Management Authority, Govt. of India.

12. Awarded membership of World Association for Disaster and Emergency Medicine (WADEM), USA.2009-10

Dr. Biplab Mishra

1. Faculty for Advanced Trauma Life Support(ATLS) course, India certified by the American College of Surgeons- Committee on Trauma

2. 1st prize for Oral paper presentation by Neeraj Gupta, Subodh Kumar, Biplab Mishra, Amit Gupta, Maneesh Singhal, Sushma Sagar titled Cardiac injury- Our experience at level 1 trauma center in Trauma 2009, 12th-15th November JPN Apex trauma center, AIIMS

Dr. Maneesh Singhal

1. 1st prize for Oral paper presentation by Neeraj Gupta, Subodh Kumar, Biplab Mishra, Amit Gupta, Maneesh Singhal, Sushma Sagar titled Cardiac injury- Our experience at level 1 trauma center in Trauma 2009, 12th-15th November JPN Apex Trauma Center, AIIMS.

2. Faculty for Advanced Trauma Life Support (ATLS) course, India certified by the American College of Surgeons- Committee on Trauma

3. Identified as International Course Director for Advanced Trauma Life Support (ATLS) courses by the American College of Surgeons- Committee on Trauma, USA
Dr. Subodh Kumar
1. National Program Coordinator for Advanced Trauma Life Support (ATLS) – India program in association the American College of Surgeons- Committee on Trauma, USA
2. Identified as International Course Director for Advanced Trauma Life Support (ATLS) courses by the American College of Surgeons- Committee on Trauma, USA
3. Awarded membership of World Association for Disaster and Emergency Medicine (WADEM), USA.
4. First prize for Oral paper presented by Neeraj Gupta, Subodh Kumar, Biplab Mishra, Amit Gupta, Maneesh Singhal, Sushma Sagar entitled “Cardiac injury- Our experience at level 1 trauma center” at Trauma 2009, JPN Apex trauma center, AIIMS.
5. Appointed as Course Faculty: Course on Preparedness for Emergency Response to CBRN Casualties – Developed by DRDE, Gwalior and National Disaster Management Authority, Govt. of India
6. Member of CBRN co-ordination committee of National Disaster Management Authority, Govt. of India.
7. Member Editorial Board- Journal of Society for Wound Care and Research (JWSCR)
8. Reviewer- of Tropical Gastroenterology, a peer review journal indexed in Pubmed.

Dr. Sushma Sagar
2. Associate Editor Journal of Society for Wound Care and Research (JWSCR)
3. Awarded membership of World Association for Disaster and Emergency Medicine (WADEM).
4. Awarded membership of European Society for Trauma and Emergency Surgery (ESTES).
5. Faculty for Advanced Trauma Life Support(ATLS) course, India certified by the American College of Surgeons- Committee on Trauma
6. Prize in Debate competition for Staff and Faculty members organized by Hindi section AIIMS during Rajbhasha Hindi Protsahan Saptah
7. 1st prize for Oral paper presentation by Neeraj Gupta,Subodh Kumar,Biplab Mishra,Amit Gupta,Maneesh Singhal,Sushma Sagar titled Cardiac injury- Our experience at level 1 trauma center in Trauma 2009, 12th-15th November JPN Apex trauma center, AIIMS.Prize in Debate competition for Staff and Faculty members organized by Hindi section AIIMS during Rajbhasha Hindi Protsahan Saptah
8. 1st prize for Oral paper presentation by Neeraj Gupta,Subodh Kumar,Biplab Mishra,Amit Gupta,Maneesh Singhal,Sushma Sagar titled Cardiac injury- Our experience at level 1 trauma center in Trauma 2009, 12th-15th November JPN Apex trauma center, AIIMS.
9. Co-ordinator from Trauma center for Health exhibition on AIIMS Institute Day the 25th -27th September 2009
10. Faculty member: Save Life Foundation (NGO) for training of Police personnel & bystanders to provide First Aid to trauma victims

11. Faculty for Advanced Trauma Life Support (ATLS) course, India certified by the American College of Surgeons- Committee on Trauma

12. Prize in Debate competition for Staff and Faculty members organized by Hindi section AIIMS during Rajbhasha Hindi Protsahan Saptah

Dr. S. Arulselvi

1. Received best paper award in the study titled Clinical Course and Outcome in Acutely Injured Patients with Thrombocytopenia at ‘Trauma 2009’ International congress & second annual conference of ISTAC, JPN Apex trauma centre, AIIMS, New Delhi 12-15 November, 2009


3. Received best paper award for co authoring the study titled ‘Fresh frozen plasma – audit of its use and correlation to mortality in trauma patients” at ‘Trauma 2009’ International congress & second annual conference of ISTAC, JPN Apex trauma centre, AIIMS, New Delhi 12-15 November, 2009

4. Received best poster award for the study (co authored) titled “Challenges of Blood Transfusion Services in a Level 1 Trauma Centre” setting at ‘Trauma 2009’ International congress & second annual conference of ISTAC, JPN Apex trauma centre, AIIMS, New Delhi 12-15 November, 2009

5. Initiated new Pathology Laboratory, as an extension of Lab Medicine in JPNATC. Fully Functional from 22 2 10

6. Asst Editor to Journal of Laboratory Physicians.

SIGNIFICANT EVENTS

Dr. Deepak Gupta

1. Selected as executive committee member of National Neurotrauma society, India

2. Executive committee member for Delhi Neurological Association, India

Dr. Vijay Sharma

1. Table instructor AO Pelvis Course 16-19 April 2009, New Delhi

2. Successfully cleared provider and instructor ATLS Course 22-28 April 2009 New Delhi. Now became faculty of ATLS and teaching in ATLS courses.


4. Executive member for the year 2009-10 Indian Federation of Sports Medicine (IFSM)

5. Faculty ATLS American college of Surgeons.
PATIENT CARE

DEPARTMENT OF SURGERY

1. TOTAL PATIENTS ATTENDED : 44,456
   (5-6 Patients /hr)

2. TOTAL SURGICAL PATIENTS ATTENDED ED : 33,420

3. TOTAL SURGICAL CASES ADMITTED (>24hrs) : 1273

4. OPERATIVE PROCEDURES DONE UNDER ANESTHESIA : 1354

5. MORTALITY RATE: : 132 / 1273
   (10.36%)

6. FOLLOW UP OPD ATTENDANCE : 10,450

DEPARTMENT OF RADIOLOGY

Details of Investigations for the period 1st April 2009 to 31st March 2010

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Investigation</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Plain X ray (including emergency)</td>
<td>53618</td>
</tr>
<tr>
<td>2</td>
<td>Portable X ray</td>
<td>15063</td>
</tr>
<tr>
<td>3</td>
<td>CT</td>
<td>18010</td>
</tr>
<tr>
<td>4</td>
<td>Ultrasound including Doppler and guided interventions</td>
<td>6499</td>
</tr>
<tr>
<td>5</td>
<td>Digital Subtraction Angiography including interventional procedures</td>
<td>121</td>
</tr>
<tr>
<td>6</td>
<td>MRI</td>
<td>1575</td>
</tr>
<tr>
<td></td>
<td>TOTAL</td>
<td>94886</td>
</tr>
</tbody>
</table>

DEPARTMENT OF MEDICAL RECORD SECTION

Faculty In-Charge
Dr. Adarsh Kumar

Jr. M R O
Mr. Raju Yohunna

M R T
Mr. Saurabh & Mr. Aditya

Receptionists
Mr. Shailendra Jaiswal & Ms. Kakujyoti Borha

M R A
Mr. Rajender Singh & Mr. Tasvir Singh

Beside abovementioned regular staff few D E O & Sulabh workers are also helping in day-to-day management of various functions of medical record section. With a view to streamline the functioning of various activities in existing manpower; the areas were further distributed to Mr. Raju Yohunna (Medical Records Division), Mr. Shailendra Jaiswal (Central Registration Counter) & Ms. Kaku Jyoti (Follow-up OPD).
The complete statistical data for the period is as under.

I. Total Bed Strength of facility: 186
   - Ward beds: 120
   - ICU beds 2nd floor: 16
   - ICU beds 3rd floor: 20
   - Triage: 30

II Statistics at a Glance
   - Total No. of Casualty Attendance: 44,161
     Average per day: 121 patients
   - Total No. of Admissions: 5,046
     Average per day: 14 patients
   - Average Length of Stay (ALS): 10.7 (Per patient per days)
   - Total No. of Follow-up OPD Cases: 23,998

III Total No. of Casualty Cases: 44,161
   - Male Cases: 33,702
   - Female Cases: 10,459

IV Total No. of Follow-up OPD Cases: 23,998
   - New: 9,146
   - Old (Re-visit): 14,852

V Total No. of Admissions: 5,046
   - Specialty-wise break-up
     Orthopedics: 1,504
     Surgery: 1,491
     Neuro-Surgery: 2,048
     Em. Medicine: 3

VI Total No. of Operations performed: 4,307
   - Major: 3,608
   - Minor: 699
   - Specialty-wise break-up
     Orthopedics: 1,733
     Surgery: 1,378
     Neuro-Surgery: 1,196

VII Total Deaths: 990
   - Deaths Under 48 Hours: 490
   - Deaths Over 48 Hours: 500
   - Gross Death Rate: 2.2%
   - Net Death Rate: 10.9%

Key changes, Initiatives, up-gradation and improvements undertaken during period under reporting by MRS through its various subsections i.e. Emergency Reception, Casualty registration, Follow-up OPD Registration & Main Medical Records division are as follows:

Emergency Reception

By virtue of its location, the CRC (MRS) initiated and undertook the function of Emergency Reception of JPNATC. Approximately 400-500 enquiries are attended daily at first hand and about 80% of
these are sorted out at this level. It is providing information regarding patient care; follow up, trauma centre function, staff schedule, organizational structure, hospital administration and related services to Patients, Relatives/Attendants, Police, Media, AIIMS staff and General Public. The result of successful disposal of most of the enquiries at this level is that other departments are spared of facing these enquiries directly thus saving their precious manpower, man hour and disruption of work. As a result they can concentrate more on their own functions instead of replying to enquiries. Satisfaction of a majority of visitors query at the entrance itself reduces the rush and crowd inside Trauma centre thus helping in better management of all existing facilities.

**Casualty Registration Counter (CRC)**

1. Introduction of Newly designed Patient Registration Form.
2. Introduction of fully- computerized Casualty Registration Card.
5. Introduction of standby re-designed manual Registration Card for Casualty patients.
6. Introduction of re-designed Medical Certificates.
7. Introduction of re-designed Fitness Certificates.
8. Introduction of newly designed Annexure to Essentiality Certificates.
9. Introduction of Form ‘C’ (Rule 14) and forwarding of compiled information of Foreigner Patients to FRRO, R.K. Puram
10. Receipt of Midnight Census and further compilation.

**Follow-up OPD Registration Counter**

1. Introduction of ‘Queue Management System’ with computerized Token No. issued to patients as per Specialty, Consultant and Room No. with large display screens installed in waiting areas and Doctor’s room for all concerned.
2. Introduction of Bar Code stickers on OPD Cards as well as Files for easy detection by bar code scanners at Consultant’s table for computerized records.

**Main Medical Records Division**

In addition to above, **Medical Record Section (MRS) of JPNATC is the FIRST Govt. Hospital who had started Online Registration of Deaths at NDMC since last year is running successfully & also coordinating the amendments pertaining to deceased after due legal procedure. MRS is regularly disposing of summons from various Hon’ble Courts in Delhi as well as other neighboring states. Total 166 such summons were handled during this period. MRS is also handling various Insurance Policy matters of patients who attended JPNATC in both case whether alive or dead. Total 62 cases were disposed off during this period. During the preceding year MRS has entertained police requests for issuing X-rays; & coordinating for collection of X-rays from Radio-diagnosis unit & handing over**
to police. The MRS is furthermore involved in issuing information (for assistance/ compensation etc.) to Delhi State/ Central Govt. 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 on a frequent basis. MRS has provided the basic framework as well as continuous inputs to computer facility; so as to computerize whole registration process in a phased manner. Steel Compactors have been installed for safe custody of medico-legal & postmortem registers as well as complete treatment records of patients/deceased at JPNATC.


TIMINGS AND MEMBERSHIP

The library is open round the clock on all days of the week including Sundays and holidays, w.e.f. 1 August 2003. It has 2325 regular members on its roll and an average of 400 readers visit the library every day.

Services

The library continued to extend the following services to the users. These services are not only modernized and updated but also further strengthened.

1. **Book alert service**
   
   This is a monthly service, listing new books, monographs and pamphlets added to the library in a particular month.

2. **Periodical alert service**
   
   This is a fortnightly service, listing new periodicals received in the library during the previous fortnight.

3. **Interlibrary loan services**
   
   Interlibrary loan services with several local libraries are being maintained to help users procure documents that are not available in the library.

4. **Reprographic services**
   
   The library has five machines to meet the demands of the readers, viz. one 5834, one Duplex Digital Copier Model WCPRO-35, two WC5638 and one WC 7242 Color of Xerox India Ltd. During the year 73,728 pages were photocopied, on payment basis, as a service to the readers.

5. **CD-ROM printout services**
   
   During the year 8,760 computer printout pages containing articles and other useful literature were made available to the readers on payment basis.

**Book bank**

The Book Bank continues to serve the undergraduates and interns. The total membership of the Book Bank is 101. The Book Bank has more than 2,735 books, which are issued on a long-term basis to the students.
Audiovisual section

The library has four colour television sets and four video cassette recorders. The number of video cassettes available in the library is 308. This section also has four audio cassette playback decks and 109 audio cassettes.

CD-based services

The library has a collection of 945 CD ROMs of different digital books/journals. It can be used by the readers within the library. Different encyclopedias and dictionaries have also been available on CD-ROMs.

Library automation

The library has centralized server with 16 terminals, 10 laser printers, one network line printer. The various housekeeping operations (viz. acquisition, cataloguing, series control and circulation) have been automated. The library is using a commercially available software package named LS-Premia.

Computerized thesis search

About 5,311 theses received so far in the library can be retrieved through a computer search. Information about each thesis such as author, title, department, guide’s name, co-guides and other bibliographical details are available on the computer.

Online journals

The library received 568 online journals in the current year, made available to it through the publishers along with print versions.

OPAC (Online public access catalogue)

All the records from 1985 onwards are searchable through computers; 5,311 theses received so far in the library can also be retrieved through OPAC. The searchable databases (through OPAC) include video cassettes, audio cassettes and compact discs. Six online public access terminals are placed in the lobby at the entrance of the library where users can search bibliographic databases and find specific information online. Information about journals and recent arrivals can also be retrieved through OPAC.

Internet

This facility is available in the library from 10 a.m. to 10 p.m. from Monday to Friday and from 10 a.m. to 8.30 p.m. on Saturdays. Twenty-two nodes are available to the users.

New additions

The library added 331 new books, 1290 bound volumes of journals, 227 pamphlets/reports, 252 new theses and now has a total of 71,827 books, 67,786 bound journals and 17,032 pamphlets/reports. The library subscribed to 761 journals in various fields of health sciences; 568 of these were received online along with their print versions. Nineteen journals subscribed in print and electronic version on behalf of the National Drug Dependence Treatment Centre (NDDTC), Ghaziabad are also received in the library.
AWARDS, HONOURS AND SIGNIFICANT EVENTS

Besides the internet facility, the library has started its own Wi-Fi facility for wireless internet use within the library. This facility has been provided to all students and faculty members of AIIMS.


5. **Rakesh Rawat**, DEO and Jahangir Khan (Librarian Gd-II), presented a paper ‘Re-engineering of Library and Information Services through Automation and Internet Connectivity at AIIMS: A case study’ 28–30 January 2010, National Convention-2010 of Medical Library Association of India, at HIHT University, Dehradun.
## 11.2 Cafeteria

**Chairman**  
Deputy Director (Administration)

**Faculty-in-charge**  
O.P. Kharbanda

**Accounts Officer**  
S. K. Gupta

**General Manager**  
S. K. Kaushik

**Deputy General Manager**  
K. K. Sharma

### AIMS AND OBJECTIVES

The AIIMS cafeteria, established in 1972, provides wholesome food at reasonable prices to the employees of AIIMS. In 1983 it was registered with the Director of Canteen, Department of Personnel and Training, Government of India. In October 1991, the cafeteria was taken over by AIIMS and all employees are treated at par with other AIIMS employees. The cafeteria is being run in accordance with guidelines issued by the Department of Personnel and Training, Government of India from time to time on a no-profit, no-loss basis, without any financial assistance from the Institute.

### MANAGEMENT COMMITTEE

A management committee is constituted by Director, AIIMS for policy decisions pertaining to the Cafeteria. The members of the committee during the year were:

1. Deputy Director (Administration)  
   Chairperson
2. Professor S. Rastogi  
   Member
3. Professor V. K. Paul  
   Member
4. Professor Bir Singh  
   Member
5. Shri Sandeep Lal, Sr F.A.  
   Member
6. Smt Basanti Dalal, F.A.  
   Member
7. Shri B. S. Anand, S.E.  
   Member
8. Shri S. K. Gupta, Accounts Officer  
   Member
9. Smt Preeti Ahluwalia, Welfare Officer  
   Spl. Invitee
10. Dr (Smt) Parmeet Kaur, Chief Dietician  
    Member
11. Representative of RDA  
    Member
12. Representative of Officers’ Association  
    Member
13. Representative of Nurses’ Union  
    Member
14. Representative of Karamchari Union  
    Member
15. Representative of FAIMS  
    Member
16. Professor O. P. Kharbanda  
    Member Secretary
17. Shri S. K. Kaushik, General Manager, Cafeteria  
    Member
SERVICES
The cafeteria runs 7 units for services to about 9000 employees of the Institute. These are
1. Main cafeteria (24-hour service) near Jawahar Lal Nehru Auditorium
2. Main operation theatre cafeteria on 9th floor of the main hospital
3. Cardiothoracic Neurosciences Centre cafeteria on 2nd floor of the centre
4. Dr Rajendra Prasad Centre operation theatre cafeteria on 5th floor of the centre
5. Jaiprakash Narain Apex Trauma Centre
6. Faculty room cafeteria near the main cafeteria
7. Dr B.R. Ambedkar Institute Rotary Cancer Hospital cafeteria on 3rd floor of the center

In addition, the cafeteria provides services to the Director, Dean, Deputy Director (Administration), Medical Superintendent and Faculty Members for their day-to-day as well as special requirements for important meetings. It also provides catering services for examinations conducted by the Examination Section at AIIMS as well as for meetings at AIIMS of the Institute body, Governing body and other Standing Committees.

STAFF STRENGTH
Eighty-four employees (regular/ad hoc/temporary) are on the rolls in the cafeteria. Catering services were provided for official meetings, conferences and symposia held at AIIMS.

Medical checkup of Cafeteria employees
All the Cafeteria employees got medically checked being food handlers.

ANNUAL TURNOVER
The total turn over of the cafeteria is approximately Rs 1 crore 87 lakhs.

DEVELOPMENT ACTIVITIES
Several changes were introduced in the cafeteria during the year. Complete renovation of the Faculty Room has been done with best ambience and amenities by installing latest technology equipments for service to the Faculty Members.

Future plans
A proposal for complete renovation of the cafeteria has been prepared so as to be equipped with the latest technology. This will allow food preparation and handling to be done in a more healthy and hygienic manner.
The activities of the facility during 2009–10 are listed below.

**SMALL ANIMALS (RODENTS)**

The following small animals (average/month) have been maintained throughout the year:

- Rats (Wistar) 2,031
- Rats (Sprague Dawley) 220
- Mice (Swiss) 785
- Rabbits (New Zealand) 135
- Guinea Pigs (Dunkin Hartley) 145

A total of 4,421 small animals (rats, mice, rabbit and guinea pigs) were supplied to various departments and considerable numbers of animals were also sold to other institutions in Delhi and outside, i.e. rats 467, mice 150 and guinea pigs 226. Rabbits (55) were purchased from the Diseases free Small Animal house, College of Veterinary Sciences, CCS Haryana Agricultural University, Hissar, Haryana for breeding purposes.

**LARGE ANIMALS (SHEEP)**

The sheep colony housed 3 sheep for research work of the Department of Microbiology.

**NON-HUMAN PRIMATES (MONKEYS)**

**Census report**

- Total number of monkeys on 1 April 2009: 67
- Number of deaths: 18
- Born in the colony: 9
- Sold to National Brain Research Centre: 5
- Total number of monkeys on 31 March 2009: 53

**Breeding programme**

Breeding of monkeys was done in cage and open run. A total of 12 female monkeys were mated. Nine infants were born. Monkeys have three indoor runs that are used for providing exercise to all those that are housed in cages.
Rehabilitation facility

A programme for rehabilitation of monkeys was started in 2000. All monkeys that had been used in experiments for 3–5 years and old monkeys were put in open run and monkeys cages. Most of these monkeys were permanently rehabilitated (after experiment with old monkeys) to animal welfare organizations.

Clinical procedures conducted

- Blood samples collected: 89
- Physical examination, testing for tuberculosis and weight: 99
- Haematology: 89
- Blood chemistry: 89
- X-ray: 105
- Other procedures: 255

(Management of trauma, obstetrics procedures, ASD treatment, etc.)

Experimental Surgery

Fifty-seven surgical procedures and radiological investigations were performed by various departments (including Surgery, Biomedical Engineering Unit, Neurosurgery, Paediatric Surgery, and Endocrinology and Metabolism) on small and large animals in the Central Animal Facility.

Institutional Animal Ethics Committee (IAEC)

During the year (2009–10), the IAEC cleared 81 projects on small animals (rodents) and 1 project (continuing) on large animals (monkeys).

Services Provided

A wing has been operational for maintaining animals belonging to the departments of Microbiology, Biomedical Engineering Unit, Biochemistry, Biotechnology, Paediatric Surgery, Reproductive Biology, Anatomy, Psychiatry, Pathology, Laboratory Medicine, Neurosurgery, and Endocrinology and Metabolism. This facility housed the following number of animals: Rats 100, Mice 250, Rabbits 30, Guinea pigs 2 and Monkeys 5.

The facility provided laboratory support to various investigators for vacuum drying of sera and storage of serum samples, haematology, clinical biochemistry, X-ray and Microscope facility.

Significant Events

Dr P.K. Yadav attended the training programme for training on Laparoscopic Neutering at Thane Municipal Corporation, Maharashtra, 14–16 July 2008; attended the CPCSEA National Conference on Ethical use of Animals in Research and Education and Dissemination of Norms & Guidelines of CPCSEA at Dr Marri Chenna Reddy Human Resource Development Institute, Hyderabad, Andhra Pradesh, 29–30 January 2009; Delivered lecture ‘Care, breeding and management of laboratory animals’ at 1- and 2-week training programme on animal welfare of the National Institute of Animal Welfare, Ministry of Environment and Forest.

Dr P.K. Yadav and Mr Dhananjay Kumar, Animal House Attendant assisted with animals in the Minimally Invasive Surgery Training Centre, Department of Surgical Disciplines, AIIMS.
11.4 K.L. Wig Centre for Medical Education and Technology

Professor-in-charge
Siddharth Datta Gupta

Coordinator
O. P. Kharbanda

Educationist
B. V. Adkoli (on leave)

Education Media Generalist
Yogesh Kumar

Adjunct faculty
Twenty-three faculty members covering all undergraduate disciplines besides Dental, Nursing, Hospital Administration and Computer Facility

EDUCATION
Undergraduate, postgraduate, paramedical

Mr Yogesh Kumar conducted 10 sessions (2 hours each) for MSc Nursing students of College of Nursing, AIIMS on topics related to media and communication.

Continuing medical education

Conferences/workshops organized
CMET organized 18 in-house workshops on Tips and Tricks in Word and Powerpoint (5), Information retrieval in health sciences (1), Bioethics (1), Animation in Powerpoint (1), Excel (1), Digital photography (1), Video editing (1) and Nursing updates (7) for the faculty, junior, senior residents and secretarial staff. Adjunct faculty participated as resource persons/delivered lectures.

CMET also provided space and facility to conduct 11 CMEs/workshops organized by other departments of AIIMS.

Lectures delivered

Dr Kalpana Luthra
• National workshop on ‘Assessment methods for learning, evaluation in Basic Medical Sciences’, AIIMS, September 2009
• Problem-based learning, Aligarh Muslim University, November 2009
• Endocrinology—importance of applied knowledge vis-a-vis lifestyle diseases, Workshop for teachers, Central Council of Homeopathy, December 2009.

Dr Nalin Mehta
• ‘Medical Ethics—The core of Doctor–Patient relationship’, Seminar on Doctor–Patient relationships, Dehradun, April 2009.
• ‘Group Dynamics’, Workshop on Research Methodology, Subharti Medical College, Swami Vivekanand Subharti University, Meerut (UP), July 2009.
• ‘Improving Practical Assessment—Use of OSPE’ at Workshop on Medical Education organized at Maharishi Markandeshwar Institute of Medical Sciences and Research (MMIMSR), Mullana, Ambala, October 2009.

Mr Yogesh Kumar
• National Conference on Health Professionals’ Education (NCHPE 2009), Maharashtra University of Health Sciences, Pune in collaboration with FAIMER, December 2009.
• Pre-conference workshop on ‘Scientific communication’, National Conference on Health Professionals’ Education (NCHPE 2009), Maharashtra University of Health Sciences, Pune in collaboration with FAIMER, December 2009.
• 16th International Conference and Exhibition on Terrestrial & Satellite Broadcast. Theme: Broadcasters and New Media Technologies, Broadcast Engineers Society of India, New Delhi, January 2010.

PUBLICATIONS
Journals

SERVICES
Media production during 2009–10

<table>
<thead>
<tr>
<th>Type of media</th>
<th>Number of jobs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clinical photography</td>
<td>1046</td>
</tr>
<tr>
<td>Outdoor coverage</td>
<td>136</td>
</tr>
<tr>
<td>X-ray, specimen, gel, etc.</td>
<td>2020</td>
</tr>
<tr>
<td>Photographic prints (A4 colour)</td>
<td>1610</td>
</tr>
<tr>
<td>Scanning of images (slides, documents)</td>
<td>4475</td>
</tr>
<tr>
<td>Video recording, editing (non-linear) including tape to CD conversion</td>
<td>402</td>
</tr>
<tr>
<td>Designing/printing of large format posters</td>
<td>1153</td>
</tr>
</tbody>
</table>
Highlights of media work

• Institute day 2009: Played a leading role in organizing the exhibition. Its theme was ‘Good health good life’. More than 200 posters and 6 video stations were displayed.

• A large number of visuals on AIIMS were designed for presentation at important offices such as the Prime Minister’s office, Ministry of Health and Family Welfare and Planning Commission.

• A practical manual was designed for the Department of Biochemistry.
11.5 Computer Facility

<table>
<thead>
<tr>
<th>Deputy Director and Head</th>
</tr>
</thead>
<tbody>
<tr>
<td>R.S. Tyagi (up to 24 March 2010)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Professor in-charge</th>
</tr>
</thead>
<tbody>
<tr>
<td>P. P. Kotwal (from 25 March 2010)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Systems Analysts</th>
</tr>
</thead>
<tbody>
<tr>
<td>S. Kailash</td>
</tr>
<tr>
<td>S.N. Ragu Kumar</td>
</tr>
<tr>
<td>Satish Prasad</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Senior Programmers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sushil Kumar Meher</td>
</tr>
<tr>
<td>S.P. Singh</td>
</tr>
<tr>
<td>Sanjay Gupta</td>
</tr>
<tr>
<td>V.K. Jindal</td>
</tr>
<tr>
<td>Vinay Pande</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Programmers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hari Shankar</td>
</tr>
<tr>
<td>Tripta Sharma</td>
</tr>
<tr>
<td>Ankita Saini</td>
</tr>
<tr>
<td>Pawan Kumar</td>
</tr>
<tr>
<td>Sanjeev Kumar</td>
</tr>
<tr>
<td>Manoj Kumar Singh</td>
</tr>
<tr>
<td>Amit Bhatti</td>
</tr>
<tr>
<td>Shyama Barua</td>
</tr>
</tbody>
</table>

| Sushma Dhama (up to October 2009) Amit Kumar Yadav (up to October 2009) |

EDUCATION

Postgraduate

Computer programming classes covering both theory and practical aspects were conducted for postgraduate students of the Department of Biotechnology, students of the College of Nursing, and bioinformatics classes for students of the Department of Biotechnology and taught Linux and C language, Database Structure I, II and Hidden Markov Models (HMM). The facility also conducted classes for MD (Biophysics) students on Mathematics and programming language. Also provided training for Armed Force officers deputed to study Medical Informatics for a 2-year period using new course modules.

Undergraduate

A three-month course on basics of computers, internet, Windows applications, computer-aided learning, database and biostatistics was conducted for final year students of BSc (Hons) Nursing at AIIMS. A computer course was conducted for students of BSc Nursing (Post-certificate).

Continuing medical education

Members of the facility participated in and delivered lectures in continuing medical education programmes, symposia, international and national conferences. Members of the facility also guided various software projects for students of Computer Applications (leading to BCA, BE, BTech and MCA) from various engineering colleges in and outside Delhi.
SERVICES

Hospital computerization

The following software design, development and implementation activities were done by the computer facility during this year.

Continuous maintenance and enhancement/upgradation of modules developed for Dr BRA IRCH OPD (New and Old patients) and Inpatients, New patients OPD registration for Main hospital, Dental OPD at CDER, Casualty registration, Admission registration (for both short and long admission) for the Main hospital and centres including RP Centre (Casualty). The screens were made bilingual (English and Hindi) and captions on registration card were printed in both English and Hindi. Also modules for discharge summaries for clinical departments such as Gastroenterology, Orthopaedics, Cardiothoracic and Vascular Surgery, Prosthodontic and Maxillofacial department of CDER and Physical Medicine and Rehabilitation.

Software for Main Hospital for OPD registration, Central Admission and Casualty (since 1992) for Main Hospital and software for Dental Centre have been developed. Functionalities covered for all these modules are available

The software related activities at the various centres includes:

1. **BRA IRCH:** Successfully implemented computerized registration of OPD (new and old patients), inpatients, Day care registration, Appointment for Day care patients and their discharge, e-billing, discharge of inpatients at Medical Oncology and Radiation Oncology and laboratory registration of outpatients and inpatients online and report generation of patients for peripheral smear, multiple myeloma and bone marrow which are also stored in the database of patients for retrieval anytime from any location. All these modules are running successfully. The modules implemented earlier are continuously monitored, maintained and upgraded as per the requirements of the end users.

2. **CT and NS Centre:** Successfully implemented electronic registration of new patients both for OPD and clinics at Cardiac and Neurosciences Centre since February 2009. Continuous maintenance of these modules was done. A LAN based discharge summary for Neurosurgery in-patients has been developed and is running successfully. Also software for operation theatre notes and operation theatre list have been implemented and are running successfully.

Academic Section Management and Information System

Complete automation of the Student Information and Management System for MB,BS courses covering all functionalities from the entry of students to the course till completion. This was demonstrated to Dean and Sub-Dean (Academics). The system is ready for implementation.

Module for the Hostel Section for updating the waiting list and room allotment for students and residents has been demonstrated to Director, Dean, Hostel Superintendent, Students Union and Residents besides other senior officers of AIIMS. It has been implemented and is running successfully.

Research section

The modules automated and running successfully include

1. Administration including (i) Research project management, (ii) recruitment management, (iii) project employee management, (iv) project employee EHS management, and (v) research fellowship management

3. Stores including requisition, supply order and financial transaction.

**Administrative computerization**

- Continued the payroll processing, administrative, accounts and finance systems using in-house software development.

**Examination section computerization**

- Computer Facility has coordinated and conducted twice computerized online counseling for MD/MS/MDS and the selection of Junior Residents (non-Academic) for 2009–10.
- Hosted all examination results and notices online in the AIIMS website servers.

**Emergency laboratory (Laboratory medicine)**

Study and solution of Analyzer interface to the centralized database (Emergency Laboratory Information Management Systems [ELIMS]) have been developed and is under implementation.

**IT infrastructure and Networking, Internet and Intranet management activities**

1. Implemented the User Id based internet access system, also demonstrated it to all computer facility staff.
2. Conducted an END point protection system demonstration at computer facility.
3. Prepared the Network audit and ISMS audit requirement study and RFP proposals, tendering, demonstrations, presentation, evaluation analysis, and award contract: Study, design, development and co-ordination done.
4. Network based endpoint antivirus system: Requirement study, RFP proposal development, Technical specification development and co-ordination in technical specification committee, tender document preparations, demonstration and evaluation analysis through evaluation committee co-ordination, draft of award contract, and implementation plan and execution.
5. Facility Management for Wireless Networking: System requirement, contract development, implementation of support systems and call centers for student support.
6. Web portal RFP proposal development in consultation with all departments and centres at AIIMS.
7. Proposal for DHCP and authentication systems for wired network.
8. New webmail system testing and installation done.
10. User room upgradation done with new personal computer and internet for students and doctors.
11. Conducted website content provider meetings with all departments for continuous updating and upgradation of the AIIMS website and its updating policies.
12. Based on meetings of content providers the Web portal RFP proposal is under development in consultation with all the department and centres.

13. Successfully implemented 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 946 students have availed this facility and during the next year all the students at hostels will be enrolled for this facility.

Details of wireless connection users (course-wise) up to March 2010

<table>
<thead>
<tr>
<th>Course</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSc</td>
<td>52</td>
</tr>
<tr>
<td>DM</td>
<td>8</td>
</tr>
<tr>
<td>Junior residents</td>
<td>189</td>
</tr>
<tr>
<td>MCh</td>
<td>8</td>
</tr>
<tr>
<td>MSc</td>
<td>77</td>
</tr>
<tr>
<td>MB,BS</td>
<td>206</td>
</tr>
<tr>
<td>MD</td>
<td>31</td>
</tr>
<tr>
<td>MS</td>
<td>8</td>
</tr>
<tr>
<td>PhD</td>
<td>170</td>
</tr>
<tr>
<td>Director office, DDA, Computer facility</td>
<td>20</td>
</tr>
<tr>
<td>Senior residents</td>
<td>177</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>946</strong></td>
</tr>
</tbody>
</table>

Details of wireless connection users (location-wise) up to March 2009

<table>
<thead>
<tr>
<th>Location</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number 1</td>
<td>31</td>
</tr>
<tr>
<td>Number 2</td>
<td>33</td>
</tr>
<tr>
<td>Number 3</td>
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<td>Number 4</td>
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<td>Number 5</td>
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<td>Number 7</td>
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<td>Number 8</td>
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<td>Number 9</td>
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<td>Number 10</td>
<td>54</td>
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<td>Number 11</td>
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<td>RPC-1</td>
<td>48</td>
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<tr>
<td>RPC-2</td>
<td>21</td>
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<tr>
<td>F-type</td>
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<tr>
<td>Faculty transit accommodation</td>
<td>24</td>
</tr>
<tr>
<td>Type III, Ayurvigyan Nagar</td>
<td>59</td>
</tr>
<tr>
<td>Computer facility</td>
<td>11</td>
</tr>
<tr>
<td>Masjid Moth Resident doctors</td>
<td>145</td>
</tr>
<tr>
<td>Masjid Moth Nurses</td>
<td>60</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>946</strong></td>
</tr>
</tbody>
</table>
14. Co-ordination of the training program for concerned staff and officers on the Indian Government tenders information system for online tender information of AIIMS.

15. Implementing Wi-Fi zone at B.B. Dikshit Library for internet and online journal access for students.

16. Networking requirements study for Brain Lab, Neurosciences facility.

17. Networking requirements study for ADMIN, Radiology new OPD.

18. Continuation of UTM based perimeter network security and webmail facility.

19. The website of www.aiims.edu, www.aiims.ac.in are being maintained in-house by the facility.

20. Internet facility for faculty and students was maintained 24x7x365 days on the AIIMS network at around 2400 nodes.

21. Full commissioning of 45 Mbps (1:2) leased line with Radio link backup facility from Education and research network (ERNET India, Ministry of information and communication technology, GOI).

22. Creation and maintenance of users accounts for 700 aiims.ac.in domain email users.

23. The total number of visitors to AIIMS website were approx. 24 lakhs during 2009–10.

24. Maintenance of Web server, Proxy server, Messaging server 24x7x365 days.

25. Provision of new internet connections to faculty and officers on regular basis.

26. Facility management and call maintenance for internet and network users complaints and resolution.

27. The software modules for the website are developed in house. Some of the modules developed were: Design, Development and Modifications in the entrance exam’s online information system.

28. Technical co-ordination for online journal access and provision of journal access using internet and PC at the Duty rooms and common rooms for scholars and senior/junior residents.

**Details of Pages Updated and Created on AIIMS Website**

<table>
<thead>
<tr>
<th>Details</th>
<th>No. of pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total under departments and centres</td>
<td>600</td>
</tr>
<tr>
<td>Conferences, workshops, lectures and orations</td>
<td>250</td>
</tr>
<tr>
<td>Recruitment for faculty and other posts</td>
<td>40</td>
</tr>
<tr>
<td>Admission notices, results and others under ‘Current events’</td>
<td>650</td>
</tr>
<tr>
<td>Director’s speech, Members of Institute body and other committees</td>
<td>41</td>
</tr>
<tr>
<td>RTI information, notices, health information, hostel, central facilities, etc.</td>
<td>210</td>
</tr>
<tr>
<td>Administration, Academic, About AIIMS, Annual report, etc.</td>
<td>1092</td>
</tr>
<tr>
<td>Total</td>
<td>2883</td>
</tr>
</tbody>
</table>
Other web-based activities
Data uploaded on Exam server 130 MB (approx)
Number of email users at aiims.ac.in 665
Number of tenders uploaded on http://tenders.gov.in website 1,080
Number of virus mails detected 40,932
Number of valid mails 16,84,668
Number of spam mails detected and filtered 1,06,31,748
Total data transferred 3 TB approx.
Number of internet nodes 2400 approx

Other facilities
The following were maintained during the year:
1. Email and FTP facility
2. Medical and educational information access facility
3. Laser printing and scanning
4. Consultancy for software and hardware

PUBLICATIONS

SIGNIFICANT EVENTS
Mr S. Kailash was nominated by the Ministry of Communication and Information Technology, Government of India to attend a meeting of Project Review and Steering Group (PRSG) for Projects ‘Development of Framework for Logging and Analysis of Network Traffic for Securing Network Infrastructure at Assam, Gauhati and Manipur Universities; Co-Chairman, Scientific session on HMIS, Meta Analysis and Bayesian Statistics, 27th Annual National Conference of ISMS, Varanasi, 27–29 November 2009; Course coordinator for MSc and MD Biophysics teaching programme for Numerical Analysis, Mathematics and Computer software; Project Leader for system study, analysis, design, software development, and implementation of software for Main Hospital, BRA IRCH, CN, CT Centre, CDER and RP Centre;

Mr Satish Prasad was the Database administrator of the Administrative Local Area Network (Netware server) which caters to Administration and Finance having more than 70 nodes; Course Coordinator and teaching faculty of MSc, BSc and Post-certificate Information Technology classes of Nursing College; Took classes of MS Office and Internet for Disaster Management course of Indian Red Cross Society (Master course affiliated to I.P. University); Presented paper: ‘Internet based information on biology of cancer stem cells’, 29th Annual Convention of Indian Association for Cancer Research and Symposium on Biology of Cancer Stem Cells, Cancer Institute, Amrita Institute of Medical Sciences and Research, Kochi, 20–23 February 2010.
Mr Vinay Pande took classes of MBiotech, MSc, BSc Computer Science and Medical Informatics; maintained software for AIIMS Finance and Administration and electronic filing of AIIMS tax; Analyzed, designed, developed and implemented the software for pay fixation of AIIMS faculty as per the 6th Pay Commissions’ recommendations; Paper accepted for presentation: ‘Cyber security: From petty cyber crimes to cyber terrorism, and the Indian cyber security scenario’, NCNIS-2010, SMIT, Sikkim; took classes of IT in Disaster Management and Cyber Terrorism for course of Indian Red Cross Society (Masters course affiliated to I.P. University); Continued as national Treasurer of Indian Association of Medical Informatics–IAMI (2008–09).

Mr S.K. Meher coordinated and conducted twice the computerized online counseling for PG MD/MS/MDS and the selection of Junior Residence (non Academic) for the year 2009-10; Presented paper at APAMI 2009 (CoMHI 2009), Hiroshima, Japan, November 2009, received scholarship for presenting the paper; invited lecture on ‘DBMS’, ICMR workshop: Introduction to Bioinformatics; attended 12th International Conference on Information Technology, Bhubaneswar, December 2009; attended National Conference on Human computer interaction and Image Processing (NCHIP ’10), Vidya Academy of Science and Technology, Thrissur, Kerala, March 2010; attended New strategies from HP experts on how to maximize data center performance, reduce data center operational costs for a leaner, greener data center, HP Medical Archive solution, Intel Nehalem Processor presentation by HP in New Delhi; Dell server with embedded management, scalable storage system, New Delhi; MySQL delivers. Without sacrificing performance, scalability or essential functionality by SCO; Convention on Computing for Nation Development, CSI, New Delhi; Symposium on ‘Cloud Computing’, CSI, New Delhi; Symposium on ‘Green Computing’, CSI, New Delhi.


Ms Tripta Sharma developed Software for two international microbiology research projects: (i) Influenza Disease Burden in Rural India and (ii) Direct and Indirect Protection from Influenza Vaccine.
11.6 Electron Microscope Facility

**Officer-in-charge**
Shashi Wadhwa

**Associate Professor**
Taposh K. Das

**Technical Officer**
Rajesh Pathania

**Technical Assistant**
Mr Sandeep Arya

**EDUCATION**

1. Sixteen MSc (P) Biosciences students from Jamia Millia Islamia, New Delhi visited EM laboratory on 21 November 2009.

2. Twelve students and their teacher from Navyug School, Laxmi Bai Nagar, New Delhi, visited EM laboratory on 2 February 2010.


4. A training programme on Scanning electron microscopy (SEM) and Transmission electron microscopy (TEM) was conducted for 15 MTech (Nanotechnology) and MSc (Nanoscience) students of Amity Institute of Nanotechnology, Amity Campus, Noida, 2–6 March 2010.

5. Six PG Anatomy students attended the EM course, 15 January–19 February 2010 (only on Fridays).


7. One MSc student of Department of Biotechnology, Cochin University of Science and Technology, Cochin was given short-term training in EM for 2 months (May–June 2009).

8. One BTech second year student from Thapar University, Patiala was given short-term training in EM, 5 June–16 July 2009.

**Continuing Medical Education**

1. The 25th National Training Programme in Electron Microscopy for Scientific Investigators was held from 26 October to 7 November 2009. Seventeen candidates from different parts of the country participated in this training programme.

   In all, 14 lectures were delivered by Prof Shashi Wadhwa, Dr Taposh K. Das and Dr T.C. Nag to the participants of the above courses.
RESEARCH

Funded projects

Ongoing


2. To study the regional differences in amyloid beta induced microglia activation in vivo. Taposh K. Das. Funded by AIIMS for 1 year (2009–10). Funds: Rs 1 lakh.

Departmental projects

Ongoing


2. Role of oxidative stress in fluorosis. Taposh K. Das.


Collaborative projects

Ongoing


2. Phenotypic, molecular and ultrastructural studies of coagulase negative Staphylococcus sp. and their biofilm in device-related infections (with RP Centre). T. C. Nag.


PUBLICATIONS

Journals


**PATIENT CARE**

**Special laboratory facilities**

During the year, special laboratory facilities provided for research and patient care are as follows:

<table>
<thead>
<tr>
<th>Facility</th>
<th>Users (n)</th>
<th>Specimens analysed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Internal</td>
<td>External</td>
</tr>
<tr>
<td>Transmission electron microscope</td>
<td>170</td>
<td>376</td>
</tr>
<tr>
<td>Scanning electron microscope</td>
<td>42</td>
<td>204</td>
</tr>
<tr>
<td>Immuno-electron microscope</td>
<td>6</td>
<td>32</td>
</tr>
<tr>
<td>Elemental analysis (EDAX)</td>
<td>5</td>
<td>42</td>
</tr>
</tbody>
</table>

AWARDS, HONOURS AND SIGNIFICANT EVENTS

**Professor Shashi Wadhwa** was made a Fellow of the Electron Microscopy Society of India; delivered the ‘Golden Jubilee Seminar Lecture’, University of Burdwan, 16 November 2009; invited as chief guest at inaugural session of 23rd National Workshop on Scanning Electron Microscopy and delivered inaugural lecture at the University Science Instrumentation Centre, University of Burdwan, 17 November 2009; member of the Executive Committee of the Electron Microscope Society of India (EMSI).

**Dr Taposh K. Das** delivered lectures on ‘Routine techniques in electron microscopy’ and ‘Advanced techniques in electron microscopy’, TERI University, New Delhi, 29–30 April 2009; attended 1-day workshop on ‘Imaging in nanoscale’, IIT, Mumbai, 17 February 2010.

**Dr T. C. Nag** received travel award to attend IBRO-APRC Advanced School of Neurosciences, National Institute of Physiological Sciences, Okazaki, Japan, 15–26 February 2010 and received training on cryo-tomography and 3-D reconstructions of synapses from serial ultrathin sections; co-author of paper ‘Ultrastructural studies of airway remodeling in an experimental mouse allergic
asthma model’ that received ‘Hitachi best poster presentation award’ under life sciences category at the International Conference on Advances in Electron Microscopy and related techniques and XXXI Annual Meeting of the EMSI, BARC, Mumbai, 8–10 March 2010; participated in International Conference on Advances in Electron Microscopy and Related Techniques, BARC, Mumbai, 8–10 March 2010.
The Central Workshop is mainly engaged in the repair and maintenance of instruments used for medical education, scientific research and hospital services. There are various branches looking after the above mentioned areas. Each section is headed by a technical officer with supporting staff. In spite of increased load of above-mentioned activities, it has also continued to cater for fabrication and design of new instruments. It has the following sections:

1. Electronic
2. Electrical
3. Refrigeration
4. Mechanical
5. Fine instrument
6. Carpentry
7. Painting

**STAFF STRENGTH**

The Central Workshop has the following staff:

- Technician (Grade I) 7
- Technician (Grade II) 6
- Workshop Assistant (Painter) 2
- Workshop Assistant 7
- Khalasi 6
- Store Clerk (UDC) 1
- Assistant (NS) 1
- UDC 1
- Peon 1

**FABRICATION AND GUIDANCE**

The Central Workshop has been able to continue to help the research activities of the Institute by modification of instruments and fabrication of useful gadgets. In many cases it has been possible to design and fabricate items, that were previously bought from outside by departments, with locally available components. A total of 152 jobs of fabrication were carried out. Some of the important specialized fabrication jobs done for various departments include:

1. Operation stand (Department of Anatomy)
2. Filter plate (attachment of MRI machine) (Department of NMR)
3. Wet box (Perspex) (Department of Anatomy)
4. Metal dies (Centre for dental education and research)
<table>
<thead>
<tr>
<th>No.</th>
<th>Equipment</th>
<th>Department/Office</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.</td>
<td>Hip spica stand</td>
<td>Department of Orthopaedics</td>
</tr>
<tr>
<td>6.</td>
<td>Camera stand</td>
<td>Department of Anatomy</td>
</tr>
<tr>
<td>7.</td>
<td>Adjustable chin rest</td>
<td>Department of Neurology</td>
</tr>
<tr>
<td>8.</td>
<td>Saline bottle carrier</td>
<td>Department of CTVS</td>
</tr>
<tr>
<td>9.</td>
<td>Laparoscopy cold knife</td>
<td>Department of Surgery</td>
</tr>
<tr>
<td>10.</td>
<td>Pelvitrainer</td>
<td>Department of Obstetrics and Gynaecology</td>
</tr>
<tr>
<td>11.</td>
<td>Prospex stand</td>
<td>Director’s office</td>
</tr>
<tr>
<td>12.</td>
<td>Moist chamber</td>
<td>Department of Pathology</td>
</tr>
<tr>
<td>13.</td>
<td>T piece</td>
<td>Institute Rotary Cancer Hospital</td>
</tr>
<tr>
<td>14.</td>
<td>Stillete</td>
<td>Institute Rotary Cancer Hospital, New Emergency ward and Department of CTVS</td>
</tr>
<tr>
<td>15.</td>
<td>Motor shaft</td>
<td>RP Centre for Ophthalmic Sciences</td>
</tr>
<tr>
<td>16.</td>
<td>Hallo pin</td>
<td>Department of Orthopaedics</td>
</tr>
<tr>
<td>17.</td>
<td>Metallic stand</td>
<td>Department of Pathology</td>
</tr>
<tr>
<td>18.</td>
<td>Acrylic chamber</td>
<td>Institute Rotary Cancer Hospital</td>
</tr>
<tr>
<td>19.</td>
<td>Tripod stand</td>
<td>Department of Anatomy</td>
</tr>
<tr>
<td>20.</td>
<td>Guide screw wire</td>
<td>Centre for dental education and research</td>
</tr>
<tr>
<td>21.</td>
<td>Stroke machine</td>
<td>Centre for dental education and research</td>
</tr>
<tr>
<td>22.</td>
<td>Top of hammer in teflon</td>
<td>Department of Orthopaedics</td>
</tr>
<tr>
<td>23.</td>
<td>Testicle balls (prosthesis)</td>
<td>Department of Paediatric Surgery</td>
</tr>
<tr>
<td>24.</td>
<td>Sample tray/specimen carrying tray</td>
<td>Department of Paediatric Surgery</td>
</tr>
<tr>
<td>25.</td>
<td>Ampoule cutter</td>
<td>Multiple departments</td>
</tr>
<tr>
<td>26.</td>
<td>Paediatric rolls</td>
<td>Main operation theatre 6 and 7</td>
</tr>
<tr>
<td>27.</td>
<td>Operation theatre mattress</td>
<td>MTP operation theatre</td>
</tr>
<tr>
<td>28.</td>
<td>Hand rest stand for arthroscopy</td>
<td>Orthopaedic operation theatre</td>
</tr>
<tr>
<td>29.</td>
<td>Cushion for settee</td>
<td>CNC blood bank</td>
</tr>
</tbody>
</table>

**REPAIR AND MAINTENANCE**

The Central Workshop has carried out repair and maintenance of all types of biomedical equipment including blood pressure instruments, electrosurgical units, ECG machines, infusion pumps, multiparameter monitors, defibrillators, patient warmers, operation theatre tables, refrigerators, ice machine, cold labs, water chillers, cryostats, deep freezers, UV spectrophotometer, electronic weighing machines, audiometer, ultrasound therapy unit, operation theatre light, tissue processor, cold centrifuge, microscope, needle destroyer, water bath, X-ray view box, OT care machine, suction machine, oxygen regulator flowmeter, servo stabilizer, boilers, hot plates, tabletop centrifuge, microwave ovens, incubators, patient bed, patient trolley, loading trolley, intravenous stands, wheel chair, side screen, bedside locker, push carts, stainless steel drum, surgical instruments, etc.
The Central Workshop has also economically and successfully repaired many electronic types of equipments declared irreparable by the manufacturing companies. These include patient monitors, defibrillators, infusion pumps, patient warmers, etc.

The Central Workshop has also undertaken repair and painting jobs of all hospital furniture such as patient beds, patient lockers, intravenous stands, instruments trolleys, loading trolleys, fowler beds, etc. During 2009–10, the Central Workshop attended to a total of 5,830 repair jobs.

**SHORT-TERM TRAINING**

The Central Workshop has been actively involved in providing guidance and imparting short-term summer training (4–6 weeks) to sixteen BTech students from Dronacharya College of Engineering, Gurgaon and Career Institute of Technology and Management, Faridabad.
### 11.8 Hostel Section

**Superintendent of Hostels**  
H.H. Dash

**Deputy Superintendent of Hostels**  
S. K. Khandelwal  
L.R. Murmu  
C. Venkatakarthikeyan  
M. V. Padma  
Buddhadev Choudhary  
Nirmal Kalra  
Rachel Andrews

**Administrative Officer**  
Ravi Chauhan

**Senior Warden**  
S. P. Pandey

**Warden**  
Mohan Sharma  
Remani Thomas

**Deputy Wardens**  
Seema Pruthi  
Sat Prakash Kalia

**Assistant Wardens**  
Suchita Kumari  
Sukhpal Mallick  
Rani Varghese  
Tripta Sharma

**Junior Wardens**  
Babu Lal Meena  
Dinesh Desai  
Nirmala  
Rajesh Rawat  
Sunil Devi

**Ministerial Staff**  
Neelam Rani  
Vimal Thakral  
Assistant (NS)  
UDC  
Sudhir Thakur  
D. Poongothai  
LDC  
Veena Bhatia  
LDC

**Subordinate Staff**  
Eleven women and men office attendants each are posted in the hostel section.

There are several halls of residents with a capacity of 1217 (approx.) single/double rooms and 175 married residences and 396 residences for nursing students/staff nurses. These are spread over different hostels and residences in the Main campus, Masjid Moth, Ayurvedic Nagar, Faculty Transit Accommodation Hostel and Jai Prakash Narain Apex Trauma Centre Hostel (Raj Nagar).
# RESIDENCES

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Hostel</th>
<th>Location</th>
<th>Single room</th>
<th>Double/Three/ Four/Five seater</th>
<th>Guest rooms capacity (with 2 beds)</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Gents hostel</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>I (Charak)</td>
<td>Main Campus</td>
<td>62</td>
<td>3</td>
<td>–</td>
<td>68</td>
</tr>
<tr>
<td>2.</td>
<td>II (Jivak)</td>
<td>Main Campus</td>
<td>55</td>
<td>2</td>
<td>1</td>
<td>60</td>
</tr>
<tr>
<td>3.</td>
<td>III (Sushruta)</td>
<td>Main Campus</td>
<td>70</td>
<td>6</td>
<td>1</td>
<td>83</td>
</tr>
<tr>
<td>4.</td>
<td>IV (Madhava)</td>
<td>Main Campus</td>
<td>52</td>
<td>7</td>
<td>–</td>
<td>66</td>
</tr>
<tr>
<td>5.</td>
<td>V (Nagarjuna)</td>
<td>Main Campus</td>
<td>52</td>
<td>5</td>
<td>–</td>
<td>62</td>
</tr>
<tr>
<td>6.</td>
<td>VI (Vagbhatta)</td>
<td>Main Campus</td>
<td>69</td>
<td>7</td>
<td>–</td>
<td>83</td>
</tr>
<tr>
<td>7.</td>
<td>VII (Ashwini)</td>
<td>Main Campus</td>
<td>110</td>
<td>2</td>
<td>1</td>
<td>113</td>
</tr>
<tr>
<td>8.</td>
<td>VIII (Bharadwaj)</td>
<td>Main Campus</td>
<td>108</td>
<td>1</td>
<td>1</td>
<td>111</td>
</tr>
<tr>
<td>9.</td>
<td>RPC-I (Dhanwantri)</td>
<td>Main Campus</td>
<td>72</td>
<td>–</td>
<td>1</td>
<td>73</td>
</tr>
<tr>
<td>10.</td>
<td>MMRDH (Single)</td>
<td>Masjid Moth</td>
<td>154</td>
<td>–</td>
<td>6</td>
<td>160</td>
</tr>
<tr>
<td>11.</td>
<td>JPNATC</td>
<td>Raj Nagar</td>
<td>56</td>
<td>–</td>
<td>2</td>
<td>58</td>
</tr>
<tr>
<td>12.</td>
<td>NNH</td>
<td>Masjid Moth</td>
<td>160</td>
<td>94+4+0+0</td>
<td>2</td>
<td>396</td>
</tr>
</tbody>
</table>

Staff nurses: 34

**Total 1,333**

| **Ladies Hostels** | | | | | | |
| 1. | IX (Saraswati) | Main Campus | 62 | 16+1+1+0 | 1 | 102 |
| 2. | X (Parvati) | Main Campus | 91 | 0+0+1+1 | 1 | 101 |
| 3. | RPC-II (Lakshmi) | Main Campus | 20 | 13 | 1 | 47 |
| 4. | Ladies Hostel XI | Main Campus | – | 15+0+0+0 | – | 30 |

**Total 280**

| **Married Quarters** | | | | | | |
| 1. | F type | Ansari Nagar West | 9 (two seater) | – | – | 17 |
| 2. | MMRDH | Masjid Moth | 42 | – | – | 42 |
| 3. | A.V. Nagar | A.V. Nagar | 80 | – | – | 80 |
| 4. | FTA | A.V. Nagar | 29 | – | – | 29 |
| 5. | JPNATC | Raj Nagar | 7 | – | – | 7 |

**Total 176**

**Grand Total 1,788**

## SIGNIFICANT EVENTS

1. Installation of reverse osmosis system in hostel nos. IX, X and XI.
2. Renovation of store in hostel no. II, renovation of mess in hostel no. VII, and renovation of lavatories in hostel no. IX, renovation of first floor co-operative mess in hostel no. IV.
3. Renovation of attached bathrooms from third floor in New Nurses Hostel, Masjid Moth.
4. Replacement of two lifts in Resident Doctor’s Hostel in Masjid Moth.
5. Replacement of two lifts in New Nurses Hostel in Masjid Moth.
6. Allotment status and update waiting list of hostels installed on AIIMS website.
7. All the computers of hostel section have been connected through LAN/networking.
FUTURE PLANS

1. Construction of new hostel with modern amenities to accommodate 1000 students and resident doctors.
2. Installation of air conditioners in hostel section or to shift the office to another building with proper roof as the existing office has a tin roof.
11.9 Institution Ethics Committee

**Chairperson**  
J. P. Wali

**Member-Secretary**  
Renu Saxena

**Ethics Committee Members**

The members were:

1. Professor J.P. Wali, New Delhi, Chairman
2. Professor Rani Kumar, Dean, AIIMS, Member
3. Professor Suneeta Mittal, Head, Department of Obstetrics and Gynaecology, Member
4. Professor Y.K. Gupta, Head, Department of Pharmacology, Member
5. Justice S.R. Singh, New Delhi, Member
6. Dr Ganga Prasad Vimal, New Delhi, Member
7. Dr Vijay Kumar, Indian Council of Medical Research, New Delhi, Member
8. Dr Sushma Yadav, Professor, Dr B.R. Ambedkar Chair in Social Justice, Indian Institute of Public Administration, New Delhi, Member
9. Dr Peush Sahni, Editor, The National Medical Journal of India, AIIMS, Member
10. Professor Renu Saxena, Head, Department of Hematology, Member-Secretary

Special invitees: Dr Sunil Chumber, Dr Ravindar Kumar Batra and Dr A. B. Dey

An **Institution Ethics Sub-Committee** was formed in July 2008 to assist the **Institution Ethics Committee** in evaluation of ethical issues of DM/MCh/PhD/MD/MS/MDS/MHA/MBiotech/MSc thesis/dissertation. Its members were:

1. Professor Ravinder Kumar Batra, Department of Anaesthesiology, AIIMS, Chairman
2. Professor Renu Saxena, Head, Department of Haematology, AIIMS, Convenor
3. Professor Kamal Kishore, Department of Pharmacology, AIIMS, Member
4. Dr Kalpana Luthra, Associate Professor, Department of Biochemistry, AIIMS, Member
5. Professor Arvind Bagga, Department of Paediatrics, AIIMS, Member
6. Professor Ashok Kumar, Department of Obstetrics and Gynaecology, Maulana Azad Medical College, New Delhi, Member
7. Dr Vineet Ahuja, Associate Professor, Department of Gastroenterology, AIIMS, Member
8. Professor Praveen Aggarwal, Department of Emergency Medicine, AIIMS, Member
9. Dr Raju Sharma, Additional Professor, Department of Radiodiagnosis, AIIMS, Member
10. Dr Pradeep Venkatesh, Associate Professor, Dr R. P. Centre for Ophthalmic Sciences, AIIMS, Member
11. Dr Rajinder Parshad, Additional Professor, Department of Surgery, AIIMS, Member
12. Professor Shashi Kant, Centre for Community Medicine, AIIMS, Member
13. Dr Rakesh Yadav, Associate Professor, Department of Cardiology, AIIMS, Member
14. Dr Rakesh Mahajan, Senior Vascular Surgeon, Apollo Hospital, New Delhi, Member
15. Dr Sanjay Thulkar, Associate Professor, Department of Radiodiagnosis, Dr BRA IRCH, AIIMS, Member
16. Dr Sunil Chumber, Sub-Dean (Academic), AIIMS, Member-Secretary

EDUCATION

Continuing Medical Education

Two Workshops on ‘How to plan a research project and write a protocol’ were held for DM/MCh/PhD/MD/MS/MDS/MHA/MBiotech/MSc students.

Lectures delivered

Dr Renu Saxena

• Ethics in Medical Research, Symposium on Bioethics, Indian Council of Medical Research, New Delhi.
• Ethics in Human Research, Workshop on Designing Clinical Research, Clinical Epidemiology Unit (CEU), AIIMS, 23–24 January 2010.
• Role of ethics in governance: A case of AIIMS, National Seminar on Ethical Dimensions of Governance, India International Centre, New Delhi, 15–16 February 2010.
• Selection of topic and guide, Workshop on How to Plan a Research Project and Write a Protocol, AIIMS, 29 August 2009.

Dr Ravinder Kumar Batra

• Ethical issues in clinical research, National Clinical Research Training Course, Clinical Research Training Centre, AIIMS, New Delhi, 25 August 2009.
• ‘How to write protocol, do research including ethics and write thesis’ for DNB candidates, AIIMS, New Delhi, 8 November 2009.
The other talks delivered by the ethics committee members at AIIMS on 29 August 2009 were as follows:

1. Introduction and need for this workshop  
   Dr R. C. Deka
2. Purpose and process of thesis  
   Dr Ravinder K. Batra
3. Study design and types of study  
   Dr Kalpana Luthra
4. Presentation, review of the protocol and ethical considerations  
   Dr Sunil Chumber
5. Submission of the protocol  
   Dr Ravinder K. Batra

**Short term training**

Three months training in ‘Ethics in Research’ was provided to one student.

The number of meetings of ethics committee held were as follows:

<table>
<thead>
<tr>
<th>Institution Ethics Sub-Committee for Thesis and Dissertation</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Institution Ethics Committee</td>
<td>11</td>
</tr>
</tbody>
</table>

Number of projects reviewed by the Institution Ethics Committee and Institution Ethics Sub Committee:

- **New:** 319  
- **Old:** 178  
- **Progress report:** 15  
- **Completion report:** 10  
- **Thesis:** 299

In addition the ethics committee continued to receive notification of serious adverse reactions, six monthly progress report and completion report, etc.

The Institutional Ethics committee Standard Operating Procedures (SOPs) were modified as per need and made available on the AIIMS website.

**SIGNIFICANT EVENTS**

**Dr Ravinder K. Batra** was faculty facilitator in National Conference on Health Professional’s Education, Good Teaching Practices: Sharing Best Practice in Teaching, Learning and Assessment, Pune, 10–13 December 2009; also attended the Workshop on Biomedical Communication and Medical Ethics; Expert Group member, Thesis Review Committee and Examination Ethics Committee, National Board of Examinations, Ministry of Health, Government of India.
The Institute gets grants under the Heads ‘Plan’ and ‘Non-Plan’ from the Government of India, Ministry of Health and Family Welfare. In addition, Plan grants are received for National Drug Dependence Treatment, VVIP care and College of Nursing, etc. Besides, extramural grants are also received from various external funding agencies such as ICMR, DST, CSIR, WHO, UNICEF, DBT, etc. for various research projects. Plan and Non-Plan grant received from the Government of India and other agencies are further allocated to Superspecialities Centres/Departments/Research Projects as per their projections/requirements.

Finance Division of the Institute monitor/control the expenditure against the above funds/budget by obtaining monthly expenditure from the respective centers/units/departments and also administers day to day financial matters, payment of salaries to faculty and staff, payment of personal claims, pension and GPF in respect of the employees of the Institute. At the time of making the payment, all the checks which have been prescribed by the Government of India are being exercised by the respective DDOs. Apart from this Finance Division do the internal audit.

All the above works are executed by the Financial Advisor, Finance and Chief Accounts Officers (F&CAOs)/Accounts Officer under the overall control of Senior Financial Advisor.
# Balance Sheet as on 31.03.2010

## AIIMS(Main) (A)

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<td>ii) During 2009-10 (AIIMS)</td>
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<td>iii) Less on account of Machinery &amp; Equipment condemned during 09-10</td>
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<td>iv) Less Books weeded out during 2009-10</td>
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<td>v) Less on account of furniture condemned during 2009-10</td>
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**B** For Foreign purchase of Machinery & Equipment (PLAN)

- a) Upto 2008-2009: 602464686
- b) During 2009-2010: 473641302
- c) Less equipment received during 2009-2010: 630083782

**C** Advance payment to P&AO for purchase of Building Material

- a) Upto 2008-2009: 77768512
- b) During 2009-2010: 4927237
- c) Less Adjustment in 2009-2010: 47216521

**D** Temporary Contingent Advance

- a) Upto 2008-2009: 2864021
- b) During 2009-2010: 8257502
- c) Adjustment during 2009-2010 of previous year: 2580365

**E** Private Firms for stores

- a) Upto 2008-09: 5883976
- b) During 2009-2010: 2912705
- c) Less adjustment during 2009-2010: 2340897

**F** Secretary, NDMC for AC plant for Administrative Block

- a) Upto 2008-2009: 730000
- b) Adjusted during 09-10: 730000
- c) Secretary, NDMC for security for electric connection: 670950

**H** P. & AO (for procurement of stores)

- a) Upto 2008-09: 3650167
- b) During 2009-10: 2600000
- c) Adjustment of advances made during 2009-10: 1638200
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<td>Cochlear Patient treatment A/c</td>
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17  Advance Payment
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ii) Tata Iron & Steel Company 654154 654154
iii) Hindustan Steel Limited 520295 520295
iv) Indian Iron & Steel Company 594000 594000

18  Land Account
Upto 2009-10 112832263 112832263

19  Vehicles
A  Vehicle (purchased for AIIMS)
a) Upto 2008-2009 31453773
b) During 2009-10
i) Transport Office 2293778
ii) Hospital Store

B  Vehicles donated for AIIMS
a) Upto 2009-10 3036507 3036507

22  Hospital receipts recoverable from outside patients
a) Upto 2008-09 3342775
b) During 2009-10 5234861
c) Amount recovered during 2009-10 4282365 4295271 3342775

23  Amount recoverable from the cashier
a) Upto 2008-09 307426
b) During 2009-10 -
c) Recovery - 307426 307426

POOR PATIENT A/C
1  AIIMS (Main)
a) Opening Balance 1137133
i) Cash/Bank 1137133

POOR PATIENT A/C
1  AIIMS (Main)
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| Sub-Total (A) | 12392749433 | 10517513462 | | |

### EXCESS OF EXPENDITURE OVER INCOME

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## DR. RAJENDER PRASAD CENTRE FOR OPTHALMIC SCIENCES(B)

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### Notes:
- **NPCB** as per last year
- **Non-RPC Scheme**
- **USP**
- **Savers International**
- **DST Evaluation Tear Fluid Surgeries**

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- **Upto 2008-2009**: 747423010
- **During 2009-2010**: 57013488
- **Recovery during 07-08**: 24816
- **Upto 2008-09**: 1474385
- **Paid during 2009-10**: 1691799
- **Recovery during 07-08**: 403440
- **Upto 2008-09**: 31832025
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- **Recovery during 07-08**: 41716
- **Upto 2008-09**: 864299728
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- **Recovery during 07-08**: 24816
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- **Recovery during 07-08**: 38284
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**Poor Patient A/c**

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Less refund/Exp.
2009-2010

Outside recoveries/ Institute Recovery
Upto 2008-2009
303187
2009-2010 (-)
142

iii)

7
i)
ii)

21893498

17143584

49025000

4
i)
ii)

16215915

303045

303187

5

vi)

v)

iv)

Neurology Patient A/c
Upto 2008-2009
Receipt during
2009-2010

6
i)
ii)

49025000

613384

3
a)
b)
c)
d)
e)

2

b)

1
a)

20965829

CT Patient A/c Machinery & Equipment
Transfer
Sai Bhakta Samaj

5

613384

1478400

3083195509

4400

iii)

Cost of the vehicle
donated by
Sai Bhakta Samaj

4

1478400

3316752096

1000

17143584

Amount transfer from
IRCH

3

46154893
288520

Less Machinery Condemed
Less Furniture Condemed

iii)
ii)

ii)

i)
2

Amount due but not paid
(Cashier)
Office contingency
Capital Grant from Govt. of India
Upto 2008-2009
3083195509
During 2009-2010
280000000

Machinery & Equipment Transfer

Payment (+)
287888195
(-) Mach. Condmned
46154893

Mach. & Equip.
Upto 2008-2009
2328023369
(-) Adj. S.O. No.100/38/CNC/
NP/08-09
191250
(+)Adj. S.O. NO.100/45/CNC/
Card/07-08
2100000
During 09-10
65339793

Recoverable Advance
Computer
Car
Cycle
Scooter
House Building
Advance

Cash at Bank

Cash in hand
Imprest (CNC Cashier)
2009-2010
Amount due but not paid

785350
613864
953820
6601555

168444476

40000
1000

943170222

2637005214

EXCESS OF EXPENDITURE OVER INCOME

CARDIO-THORACIC & NEURO SCIENCES CENTRE (C)

810590125

943170222

1

19065750

EXCESS OF INCOME OVER EXPENDITURE
Upto 2008-2009
19065750
During 2009-2010
12165488
Mat. & Supply
4863409
26367829

a)
b)
c)

Sub-Total (B)

116808

104014

115143

Payments
Closing Balance

iii)
3

2328023369

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705056
450
985046
7102076

171281243

40000
4400

i)

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**POOR PATIENT A/C**

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**POOR PATIENT A/C**

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From CT Patient A/C 49025000 49025000
Advance payment for Foreign purchase
Machinery & Equipment
i) Upto 2008-2009 2619170
ii) (+) Adj. S.O. NO.100/38/CNC/NP/08-09 191250
iii) (-) Adj. S.O. No.100/45/CNC Card/07-08 2100000

Security Deposits
i) Upto 2008-2009 24589964
ii) During 2009-2010 833500
iii) Less refund 4910000 28014964 24589964

Building construction
i) Upto 2008-2009 223193840
ii) During 2009-2010 20297693 243491533 223193840

Advance against works 174596762 174596762
Amount due from outside patients
i) Upto 2008-2009 1728361
ii) During 2009-2010 154105
Less amount Recd. 429921 1452545 1728361

Vehicles
i) Ambulence ORBO 2025954 2025954

Furniture & Fixture
i) Upto 2008-09 669777
ii) During 2009-10 1629210
Less amount Recd. 288520 2010467 669777
### d) Closing Balance

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### GAMMA KNIFE PATIENT A/C

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### EXCESS OF INCOME OVER EXPENDITURE

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| Sub-Total (C)             | 4056158927 3733694951 |

Dr. B.R.A. INSTITUTE ROTARY CANCER HOSPITAL (D)

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<td>Add. Adjustment of Advances (LCs)</td>
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<tr>
<td>d)</td>
<td>Add Custom Duty adjusted</td>
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<td>e)</td>
<td>Correction for the year 08-09</td>
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<td>Add during 2009-2010(+)</td>
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<td>c)</td>
<td>Less adjustment of advances (LCs)</td>
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<td>e)</td>
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<td>v) Payments</td>
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### NATIONAL DRUG DEPENDENCE TREATMENT CENTRE (N.D.D.T.C.)

#### (UNDCP PROJECT)

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#### EXCESS OF INCOME OVER EXPENDITURE

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#### NATIONAL DRUG DEPENDENCE TREATMENT CENTRE (N.D.D.T.C.)

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#### EXCESS OF EXPENDITURE OVER INCOME

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### EXCESS OF INCOME OVER EXPENDITURE

1. **Upto 2008-09**
   - 72097887

2. **Add during 2009-10**
   - 4344098

3. **(I) Over statement of income taken as (II) add (08-09)**
   - Rs.1,15,29,018 instead of
   - **(III) less/deduction Rs.2,66,49,987/-**

4. **(IV) Now for rectification 38179005 38262980 72097887**

   **Sub-Total (F)**
   - 1699691819
   - 1371401295
   - **0 0**

### CENTRE FOR DENTAL EDUCATION AND RESEARCH (G)

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<tr>
<td></td>
<td>(ii) During 2009-10</td>
<td>15883986</td>
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<tr>
<td></td>
<td>(iii) Add Machinery &amp; Equipment received against advances during 2007-08</td>
<td>26188764 132122259 90049509</td>
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<td>4</td>
<td><strong>Advance Payment made to foreign purchases</strong></td>
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<tr>
<td></td>
<td>(i) Upto 2008-09</td>
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<td>(ii) During 2009-10</td>
<td>25438345</td>
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<tr>
<td></td>
<td>(iii) Less advances adjusted during 2009-10</td>
<td>26188764 25438345 26188764</td>
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<td>5</td>
<td><strong>Building</strong></td>
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<td>(i) Upto 07-08 transferred from AIIMS Main A/c</td>
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<td>(ii) During 08-09</td>
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<td></td>
<td>(iii) Capital Works</td>
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<td>6</td>
<td><strong>Advance paid to HSCC</strong></td>
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<td>(i) Advance paid to NDMC upto 2008-09</td>
<td>45668116</td>
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<td>(iii) Advance paid dg. 2009-10</td>
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(iv) Less adjusted dg. 2009-10 4040000 3040000
(v) Advance paid to DGS&D during 2008-09 469471 469471
(vi) Advance paid to Voltas 09-10 184589 184589
(vii) Advance paid to Voltas 09-10 184589 184589

7 Advance to New Delhi Municipal Corporation
(i) upto 07-08 0 6444500
(ii) During 08-09 0 6444500

8 Advance to Directorate of Supply & Disposal

9 Advance to Voltas 184589

EXCESS OF INCOME OVER EXPENDITURE

CENTRE FOR DENTAL
EDUCATION & RESEARCH
i) Upto 08-09 3490344
ii) Excess of Income over expenditure 2009-10 97504 3392840 3490344
Sub-Total (G) 465433959 427804748

Grand Total (A) to (G) 21209138302 18409666326

EXCESS OF EXPENDITURE OVER INCOME

(i) upto 07-08 0 6444500
(ii) During 08-09 0 6444500

Advance to Directorate 469471

Advance to Voltas 184589

Note:
1 The accounts have been prepared on actual Receipts and Expenditure basis.
2 No depreciation on Machinery & Equipment, vehicles etc. has been provided as the Institute is fully funded by the Govt. of India.
3 A statement showing the expenditure made by various Project Investigators during 2009-10 is attached at Appendix-A-I. It may be mentioned that on completion of Research Projects, the equipments are either returned to the funding agencies or used in the Departments.
5 The amount shown under four patient Accounts viz. C.T. Patient A/c, Angio Patient A/c, N.S. Patient Account and Gammaknife Patient A/c on the asset side of the Balance Sheet represents the amount as “Excess of Income over Expenditure” and the same is invested in term deposits. The amount is accumulated during the previous years on introduction of package charges in the year 1995. Package was introduced for convenience of patients and to ensure that quality products are used at reasonable rates. The package rates included service charges and ICU charges which were approved by Standing Finance Committee and ratified by Governing Body. Later on it was decided not to levy such charges from the patients and was withdrawn in the year 2000. During that period(1995-2000) accumulated balance amount and also the earned interest were invested in term deposits. A part of the interest only has however been utilised for treatment of poor patients as is reflected in the Receipt & Payment Account. The accumulated balance has not been utilised during the years as such in the absence of a guideline regarding its utilisation. Institute is in the process of framing some guidelines for using this accumulated amount.

(Smt. Basanti Dalal) (Sandeep Lall) (R.C. Deka)
Financial Advisor Senior Financial Advisor DIRECTOR
# ALL INDIA INSTITUTE OF MEDICAL SCIENCES
## RECEIPTS & PAYMENT ACCOUNT
### FOR THE YEAR 2009-2010

### AIIMS(Main) (A)

<table>
<thead>
<tr>
<th>RECEIPTS</th>
<th>2009-10</th>
<th>2008-09</th>
<th>PAYMENTS</th>
<th>2009-10</th>
<th>2008-09</th>
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<td><strong>A Cash at bank</strong></td>
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<tr>
<td>i) (a) AIIMS (MAIN)</td>
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<td>i) Grants transferred to the Centres/Schemes Cell</td>
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<td>(b) Unspent Balance of specific grants remained with AIIMS(M)</td>
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<td>833296039</td>
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<tr>
<td><strong>B CASH IN HAND (IMPREST)</strong></td>
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<td></td>
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<td>i) AIIMS (Main)</td>
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<td>a) Cash/Bank</td>
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<td>AIIMS</td>
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<td><strong>F Hostels</strong></td>
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<tr>
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<td>c) FDR’s</td>
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### Additional Notes
- **Grants transferred to the Centres/Schemes Cell**
- **Dr. B.R. A.I.R.C.H.**
- **J.P.N. APEX TRAUMA CENTRE**
- **Centre for Dental Education & Research**
- **Administrative Expenditure**
<table>
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<tr>
<th>No.</th>
<th>Category</th>
<th>Plan Amount</th>
<th>Non-Plan Amount</th>
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<td>a) Pay and allowances 2999687905 1929134498</td>
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<td>b) Travelling Allowances 16426033 15614269</td>
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<td>Miscellaneous Receipts</td>
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<td>d) Leave salary &amp; Pension contribution 158228 560480</td>
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<td>40379679</td>
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<td>Licence Fee</td>
<td>21341031</td>
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<td>4 Material &amp; Supply (Non-Plan) 942713707 697329812</td>
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<td>7</td>
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<td>Leave Salary &amp; Pension contribution</td>
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<td>a) Car</td>
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<td>b) Scooter/Motor Cycle</td>
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<td>c) Bicycle</td>
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<td>d) H.B.A.</td>
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<td>17</td>
<td>NACO</td>
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## HIV Sentinel Surveillance Project

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<td>18</td>
<td>Post Partum Programme (Incentive money)</td>
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<tr>
<td>19</td>
<td>Encashment of Short Term Deposit</td>
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<tr>
<td>20</td>
<td>Grants received for specific purpose Appendix-A (Scheme Cell)</td>
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<td>21</td>
<td>Schemes i) Grants against receipt ii) Grants transfer from A.I.I.M.S. Non-Plan iii) Direct received</td>
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<td>Miscellaneous Donations (Appendix-D)</td>
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<td>New Pension Scheme</td>
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<tr>
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</tr>
<tr>
<td>26</td>
<td>Cochlear Implant Patient Treatment A/c</td>
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<td>16</td>
<td>Purchase of Vehicles (a) Transport Office (b) Hospital Store (c) PAO for procurement of Stores (d) P. &amp; A.O. etc. for Building material (e) Temporary/Contingent Advances (f) Private firms for stores (g) Custom Duty for Machinery &amp; Equipment (h) For Books &amp; Journals (i) For cochlear Implant Pt. Treatment (j) M/s Metro Rail Corporation Ltd. (k) Chief Controller of Accounts, (M/s Deepak Elect. Co.) for Electric works</td>
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<td>Advance Payments (a) Material &amp; Supply (NP) for foreign purchase 16023211 10944119 (b) Machinery &amp; Equipment (Plan) for foreign purchase 473641302 636644327</td>
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<td>18</td>
<td>PLAN a) Machinery &amp; Equipment 353380219 267520604 b) Expenditure of Urology (Plan) against IRCH receipts 1600000 c) Building Construction 271476578 153988031</td>
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<td>Encashment of Short Term Deposit</td>
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<td>Grants received for specific purpose Appendix-A (Scheme Cell)</td>
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<td>Schemes i) Grants against receipt ii) Grants transfer from A.I.I.M.S. Non-Plan iii) Direct received</td>
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<td>Miscellaneous Donations (Appendix-D)</td>
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<td>Investment withdrawn &amp; re-invested A i) Dr.K.L. Wig ii) Zenith Finance &amp; Co. iii) Kamani Charity trust</td>
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<td>Cochlear Implant Patient Treatment A/c</td>
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<td>Description</td>
<td>Supplier/Contractor</td>
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<td>27</td>
<td>Deposit Work</td>
<td>(a) Starford India</td>
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<td>(b) Rajgarhia Vishram Sadan</td>
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<td>(c) Surekha Vishram Sadan</td>
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<td>a/c of IRCH</td>
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<td>Angio CTVS Patient A/c</td>
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<tr>
<td>33</td>
<td>WHO-in-Country fellowship</td>
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<p>|   | Chief Controller of Accounts,                    |                                          |         |
|   | (M/s Surya Roshni)                               |                                          |         |
|   | for Electric works                               |                                          |         |
|   | (M/s Sanico Ind.)                               |                                          | 98486   |
|   | Chief Controller of Accounts,                    |                                          |         |
|   | (M/s Surya Roshni)                               |                                          | 266165  |
|   | for Electric works                               |                                          |         |
|   | M/s Blue Star Ltd. (for A/c works)              |                                          | 1742488 |
|   | for Maint.                                       |                                          |         |
|   | M/s Indian Oil Corporation                      |                                          | 2920253 |
|   | for lubricant Diesel Oil                        |                                          | 1780106 |
|   | M/s Blue Star Ltd. (for A/c works)              |                                          | 222853  |
|   | for Construction                                 |                                          |         |
|   | M/s Crompton Greave Ltd. (for Elect. Works)     |                                          | 180807  |
|   | for A/c work                                     |                                          |         |
|   | M/s Universal comfort (for A/c work)            |                                          | 1262512 |
|   | M/s carrier Air Conditioning (for A/c work)     |                                          | 2415422 |
|   | Central Public Works Department, Civil works    |                                          | 1313000 |
|   | M/s Videocon Ind. Ltd. (A/c work)               |                                          | 1083247 |
|   | for A/c work                                     |                                          | 859688  |
|   | Chief Controller of Accounts for purchase of stores|                                          | 3343957 |
|   | M/s Inderprastha for CNG Pipeline               |                                          | 10405000|
|   | DGS&amp;D M/s Rashmi Ind. for A/c work              |                                          | 2976242 |
|   | M/s LG Elect. Spilit A/c for A/c &amp; Elect. Work  |                                          | 1192355 |
|   | Ex. Engg. SJH(CPWD)                             |                                          |         |
|   | for sewage Treatment plant                      |                                          | 11344542|
|   | M/s Hitachi flames for A/c work                 |                                          | 1032950 |
|   | M/s HSCC for construction                       |                                          | 1000000 |
|   | 4d) Secy., NDMC for construction                |                                          | 10600   |</p>
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<th>Item</th>
<th>Amount 1</th>
<th>Amount 2</th>
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<td>ae) Justice Lokeshwar Prasad for arbitration fee</td>
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<td>af) Registrar, Guru Govind Singh Univ. for consultancy fee</td>
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<td>18 Security Deposit/ Earnest Money</td>
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<td>(i) Payment made against the receipts upto the year 2008-09</td>
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<td>(ii) During 2009-10</td>
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<td>1400000</td>
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<td>19 Outside recoveries</td>
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### POOR PATIENT ACCOUNTS

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### PATIENT TREATMENT ACCOUNTS

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### HOSTELS

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### CLOSING BALANCES

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### B CASH IN HAND (IMPREST)
1. AIIMS (Main)
   a) Balance as per cash book of the cashier: 588950
   b) Excess paid by the cashier: 307426

### C AMOUNTLYING UNDISBURSED
1. AIIMS (Main)
2. Scheme Cell: 325606

### D POOR PATIENT ACCOUNT
1. AIIMS (Main)
   (a) Cash/Bank: 1175983
   (b) FDR's: 984180

### E PATIENT TREATMENT A/C
1. AIIMS
   (a) Pay & allowances: 409251527
   (b) Daily Wages: 4172866

### F HOSTELS
1. Cash in hand: 18666
2. Cash at Bank: 304695
3. FDR's: 3792601

### Sub-Total (A)
14939348746 (11157077871)

### DR. RAJENDER PRASAD CENTRE FOR OPHTHALMIC SCIENCES (B)

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| VI  | Material & Supply(NP)                                                       | 170566992 | 167621040 |                                         |                             |
| VII | Repair & Maintenance of Machinery & Equipment (Non-Plan)                      | 3424512   | 6340081     |                                         |                             |
| VIII| Refund of Security                                                           | 30000     | 145000     |                                         |                             |

| IX  | Mach. & Equip. (Plan)                                                        | 64797486  |                                         |                             |
|     | i) Actual Payment                                                            |                                         |                             |
|     | ii) Advance Payment made to Foreign Purchase                                 | 80175188  |                             |

| X   | Furniture & Fixture                                                          | 447742    | 443645     |                             |

| XI  | Payment towards Non-RPC Schemes                                             |                                         |                             |

### GRANT-IN-AID (SCHEMES)

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| 13 | CSIR | 2649412 | 1548959 |
| 14 | DBT/MA | 731507 | 572547 |
| 15 | DEGAS | 574926 | - |
| 16 | DME | 1221790 | 1153419 |
| 17 | DNB Examination | - | 10000 |
| 18 | DST Evaluation of Tear fluid | 417077 | 419980 |
| 19 | DST/DBT (Stem) | - | 46817 |
| 20 | Evaluation study of Glaucoma | - | 40000 |
| 21 | FAME Study | 1206297 | 960992 |
| 22 | FTG | 244441 | 15000 |
| 23 | High Precision Bil Analitical (HP-BAF) | - | - |
| 24 | ICMR | 1183771 | 663698 |
| 25 | INDEGEN (LSTM) | 1900437 | 3338749 |
| 26 | INMAS Biomedical Products | 55042 | 30000 |
| 27 | INMAS Human Pharmacology | 260000 | 219451 |
| 28 | LUX 201 Omnicare | 247237 | 230205 |
| 29 | LUX 211 PRA International | 129905 | 274877 |
| 30 | M.K. Media corneal Transplant | 78944 | |
| 31 | MBDLILLY-LILLY | 61164 | 85227 |
| 32 | Multifocal IOL | 92561 | 21941 |
| 33 | NAB | 495854 | 215550 |
| 34 | NCDRC | 25079 | 10000 |
| 35 | Neema Internation | - | 20000 |
| 36 | Novartis Shield study | 2700 | |
| 37 | NPCB DOS Training | 900000 | 485527 |
| 38 | NPCB Eye Camp | 362585 | 253636 |
| 39 | NPCB/DBCS | 297915 | 180485 |
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**POOR PATIENT ACCOUNTS**

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**POOR PATIENT ACCOUNT**

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**CARDIO-THORACIC & NEURO SCIENCES CENTRE (C)**

**OPENING BALANCES**

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**ADMINISTRATIVE EXPENDITURE**

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| d) | Stem Cell | - |

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| b) | Stem Cell | - |

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| a) | Material & Supply (Advance Payment) | 195803931 |
| b) | Machinery & Equipment(Ind.) | 65339793 |
| c) | M&E against EFC | - |
| d) | Stem Cell | - |
| e) | Furniture & Fixtures | 1629210 |

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| a) | Miscellaneous Receipts | 14889154 |
| b) | Transfer from IRCH | - |
| c) | Private Ward | 29094008 |
| d) | X-Ray | 2469420 |
| e) | C.T.Scan charges | 1633490 |
| f) | Ultra Sound | 115800 |
| g) | C.N. Centre | 4000 |

| a) | Car | - |
| b) | Scooter/Motor Cycle | 294000 |
| c) | House Building Advance | 1248100 |
| d) | Computer | 570000 |
| e) | Bi-cycle | 1500 |

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| a) | Miscellaneous Receipts | 2025453 |
| b) | Transfer from IRCH | - |
| c) | Private Ward | 25122183 |
| d) | X-Ray | 2876930 |
| e) | C.T.Scan charges | 1013090 |
| f) | Ultra Sound | 110200 |
| g) | C.N. Centre | 4000 |

| a) | Car | - |
| b) | Scooter/Motor Cycle | 267000 |
| c) | House Building Advance | 243000 |
| d) | Computer | 60000 |
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| a) | Miscellaneous Receipts | 2025453 |
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| c) | Private Ward | 25122183 |
| d) | X-Ray | 2876930 |
| e) | C.T.Scan charges | 1013090 |
| f) | Ultra Sound | 110200 |
| g) | C.N. Centre | 4000 |

| a) | Miscellaneous Receipts | 2025453 |
| b) | Transfer from IRCH | - |
| c) | Private Ward | 25122183 |
| d) | X-Ray | 2876930 |
| e) | C.T.Scan charges | 1013090 |
| f) | Ultra Sound | 110200 |
| g) | C.N. Centre | 4000 |

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| a) | Miscellaneous Receipts | 3870381 |
| b) | Transfer from IRCH | - |
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| f) | Ultra Sound | 115800 |
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| a) | Miscellaneous Receipts | 3870381 |
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| c) | Private Ward | 29094008 |
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| f) | Ultra Sound | 115800 |
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<p>| a) | Miscellaneous Receipts | 3870381 |
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| c) | Private Ward | 29094008 |
| d) | X-Ray | 2469420 |
| e) | C.T.Scan charges | 1633490 |
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*AIIMS 2009-2010 / 873*
### C.T. PATIENT A/C

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### POOR PATIENT ACCOUNTS

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2. Cash in Hand with cashier 1000 4400

### D POOR PATIENT ACCOUNT
1. N.S. Centre
   - Cash at Bank 104900 95562

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### Dr. B.R.A. INSTITUTE ROTARY CANCER HOSPITAL (D)

#### 1. OPENING BALANCES

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#### B POOR PATIENT A/C

| a) | Cash/Bank | 2036817 | 1821020 |

| c) | FDR’s | 600000 | 600000 |

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#### D HMCPF A/C

| Cash/Bank | 11000 |

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<td>8</td>
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<td>RT Revolving Funds</td>
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<td>Maintenance of Building</td>
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#### 11 PLAN

| i) | Advance Payment to foreign purchase for M&E | 43688249 | 46048051 |
| ii) | Machinery & Equipment | 35040522 | 43834821 |
| iii) | Custom Duty & PDA (Advance) | 3800000 | 1580000 |
| iv) | Capital Works | 4188937 | 8570446 |
| v) | Vehicle | 111476 | 94978 |
| vi) | Furniture and Fixtures | 5856357 | 19884665 |
| vii) | AIIMS Recoveries Remitted | 35856357 | 19884665 |
| viii) | Outside Recoveries Remitted | 23632782 | 11957741 |
11 Recoverable Advances
(a) Car/Scooter/Advance Recoveries 18000 29116
(b) Scooter Advance Recoveries 33330
(c) Computer Advance Recoveries 42243 31320

POOR PATIENT ACCOUNTS
(a) I.R.C.H. 353560 290300 (a) During 2009-10 580237 635245
(b) Interest on FDR's 609412 562742 (b) Wrongly debited 2000

PATIENT TREATMENT ACCOUNTS
Receipt during 2009-10 48549953 45172567 1 During 2009-10 44788934 39945429
a) Cheque Cancelled 353853 569924 2 Miscellaneous 82463 92145
b) Dly Interest 82294 1254900

HMCPF A/C
1 Receipt during 2009-10 1006074
2 Refund 3000

POOR PATIENT ACCOUNTS
(a) During 2009-10 580237 635245
(b) Wrongly debited 2000

HMCPF A/C
1 Payment 958886
2 Miscellaneous 20725

CLOSING BALANCES
A CASH AT BANK 46936817 27792396
B POOR PATIENT ACCOUNT
Cash/Bank 2419552 2036817
C PATIENT TREATMENT A/C
a) Cash/Bank 32686499 28967307
b) Short term investment 6000000 6000000
c) FDRs 6000000 6000000
D HMCPF A/C
Cash/Bank 40463

| Sub-Total (D) | 709934179 | 535364242 | 709934179 | 535364242 |
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**CLOSING BALANCES**

| A | CASH AT BANK | 2107815 | 4800935 |
| B | CASH IN HAND (IMPREST) | 5000 | 5000 |

**GRAND TOTAL (A) TO (G)**

| A | 20505760949 | 15333312879 |
| B | 20505760949 | 15333312879 |

(Smt. Basanti Dalal) (Sandeep Lall) (R.C. Deka)
Financial Advisor Senior Financial Advisor DIRECTOR
# ALL INDIA INSTITUTE OF MEDICAL SCIENCES
# INCOME AND EXPENDITURE ACCOUNT
# FOR THE YEAR 2009-2010

## AIIMS(Main) (A)

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**EXCESS OF EXPENDITURE OVER INCOME**

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Sub-Total (A) 4902031223 3396562025 4902031223 3396562025

**DR. RAJENDER PRASAD CENTRE FOR OPHTHALMIC SCIENCES(B)**

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**EXCESS OF INCOME OVER EXPENDITURE**

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**EXCESS OF EXPENDITURE OVER INCOME**

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(Smt. Basanti Dalal) (Sandeep Lall) (R.C. Deka)
Financial Advisor Senior Financial Advisor DIRECTOR
## Appendix A

**ALL INDIA INSTITUTE OF MEDICAL SCIENCES**

**STATEMENT SHOWING THE EXPENDITURE OF THE GRANT RECEIVED FOR THE SPECIFIC PURPOSE FOR THE YEAR 2009-10**

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(Smt. Basanti Dalal)
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**GRAND TOTAL** 47,749,391

(Smt. Basanti Dalal)  
Financial Advisor
### Appendix B

**ALL INDIA INSTITUTE OF MEDICAL SCIENCES**

**LIST OF SUNDARY DEBTORS (SCHEME CELL)**

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(Smt. Basanti Dalal)

Financial Advisor
## Appendix-C

**ALL INDIA INSTITUTE OF MEDICAL SCIENCES**

**STATEMENT SHOWING THE DONATIONS & INVESTMENT AS ON 31-03-10**

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(Smt. Basanti Dalal)
Financial Advisor
## Appendix-D

ALL INDIA INSTITUTE OF MEDICAL SCIENCES

Details of Misc. Donations as on 31.3.2010

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<th>S.NO.</th>
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</table>

(Smt. Basanti Dalal)  
Financial Advisor
Appendix-E

ALL INDIA INSTITUTE OF MEDICAL SCIENCES
Details of Misc. Deposits as on 31.3.2010
2009-2010

<table>
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</table>

(Smt. Basanti Dalal)
Financial Advisor

Appendix - F

ALL INDIA INSTITUTE OF MEDICAL SCIENCES
Details of GPF Investment
2009-2010

Opening Balance of Investment as on 1.4.2009 1783193465
Investment during 2009-10 878200000
Add Closing Cash Book Balance 180803780
after correction of 2008-09 2842197245
Investment matured during 2009-10 488200000
2353997245

Details of NPS Investment 2009-2010

Opening Balance of Investment as on 1.4.2009 77200000
Investment during 2009-10 29700000
10690000
Investment matured during 2009-10 15000000
9190000
Closing Cash Book Balance as on 31.3.2010 111781410
203681410

(Smt. Basanti Dalal)
Financial Advisor
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 2010

We have audited the attached Balance Sheet of All India Institute of Medical Sciences (AIIMS), New Delhi as at 31 March 2010 and the Income & Expenditure Account/Receipt & Payment 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. These financial statements are the responsibility of the AIIMS’s 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 of India (CAG) 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 and Income & Expenditure Account/Receipt & Payment Account dealt with by this report have not been drawn up in the format approved by the Ministry of Finance.
   iii. In our opinion, proper books of accounts 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. Balance Sheet

A.1 Assets

A.1.1 Understatement of assets by Rs. 1.60 crore (GPF)

Institute had made investment of Rs. 71.60 crore including premium paid in Government securities of SBI but had shown only Rs. 70.00 crore in the GPF Investment Account (included in Rs. 87.82 crore Appendix F). This resulted in understatement of Investment in GPF Account by Rs. 1.60 crore and overstatement of expenditure in GPF Account.
A.1.2 Overstatement of Assets by Rs. 11.49 lakh (Cardio-thoracic & Neuro Sciences Centre)

Four ambassador cars with purchase value of Rs. 13.17 lakh were condemned and auctioned during the year but the amount of Rs. 1.68 lakh had not been reduced from the head “Vehicles” on the asset side and “capital fund” on the liabilities side of balance sheet. This resulted in overstatement of head “Vehicles” on the asset side and capital fund on the liabilities side by Rs. 11.49 lakh.

A.1.3 Overstatement of Assets by Rs. 21.00 lakh (CN Centre)

C.N. centre had cancelled the supply order of a machinery and equipment worth Rs. 21.00 lakh for the year 2007-08 against which an advance was lying under the head “Advance payment for foreign purchase for Machinery and equipment”. However, the centre, after deducting the amount from the above head, wrongly added the amount of Rs. 21.00 lakh in the head “Machinery and equipment”. This has resulted in overstatement of head “Machinery and equipment” by Rs. 21.00 lakh. Moreover, the amount of Rs. 21.00 lakh was to be reduced from the Capital Fund in the liabilities side as the same was capitalised during the year 2007-08. As this was not reduced by the centre, this also resulted in overstatement of capital fund by Rs. 21.00 lakh.

A.1.4 Understatement of assets by Rs. 60.00 lakh (Dr. BRA Institute Rotary Cancer Hospital)

IRCH had shown closing balance of Rs. 3.27 crore in its Patient Treatment’s receipt and payment account but in the balance sheet the centre had shown it as Rs. 2.67 crore by wrongly deducting the FDR of Rs. 60.00 lakh in liabilities side and asset side of balance sheet. This has resulted in understatement of both liabilities and asset by Rs. 60.00 lakh.

A.1.5 Overstatement of Assets by Rs. 1.93 lakh (Dr. BRA Institute Rotary Cancer Hospital)

Furniture of Rs. 1.93 lakh was condemned and auctioned during the year by the centre but the amount had not been reduced from the head “Furniture and Fixtures” on the asset side and “capital fund” on the liabilities side of balance sheet. This resulted in overstatement of head “Furniture and Fixtures” and capital fund by Rs. 1.93 lakh.

A.1.6 Fixed assets

No depreciation was provided on fixed assets resulting in overstatement of assets and under statement of capital fund.

The schedule of fixed assets showing the opening balance, additions, deletion, depreciation and closing balance have not been prepared.

A.1.7 Investments-Non adherence to the approved pattern of investment for G. P. Fund accumulations.

The investment of accumulated funds of General Provident fund balance of Rs. 217.32 crore was not made as per the pattern prescribed by the Ministry of Finance vide notification no. F.5 (88)/2006- PR dated 14.8.2008.

A.1.8 Understatement of assets by Rs. 1.00 crore

The Institute had not taken interest of Rs. 1.00 crore earned on the FDR of Rs. 13.00 crore, matured on 30.03.2010, in the GPF account. This resulted in understatement of closing balance of GPF account by Rs. 1.00 crore on the asset as well as liabilities side of balance sheet.
A.2 Liabilities

A.2.1 Understatement of liabilities – Capital Fund by Rs. 9.57 crore (AIIMS Main)
The Institute had shown assets of Rs. 120.42 crore created during the year while capitalised only Rs. 110.85 crore on the liabilities side. This needs to be reconciled.

A.2.1 Overstatement of liabilities – Capital Fund by Rs. 92.57 lakh (Rajender Prasad Centre)
(b) RP Centre had shown assets of Rs. 1407.43 lakh created during the year while capitalised Rs. 1500.00 lakh on the liabilities side. This needs to be reconciled.

A.2.1 Understatement of liabilities – Capital Fund by Rs. 30.71 lakh (C.N. Centre)
(c) C.N Centre had shown assets of Rs. 2830.71 lakh created during the year while capitalised Rs. 2800.00 lakh on the liabilities side. This needs to be reconciled.

A.2.1 Overstatement of liabilities – Capital Fund by Rs. 31.71 lakh (Dr. BRA IRCH)
(d) IRCH had shown assets of Rs. 868.29 lakh created during the year while capitalised Rs. 900.00 lakh on the liabilities side. This needs to be reconciled.

A.2.2 Understatement of liabilities (Dr. BRA Institute Rotary Cancer Hospital)
IRCH had not shown the earnest money and security deposit outstanding as on 31.03.2010 to be refunded to the various contractors as liabilities in the balance sheet. The amount could not be quantified in audit.

B Income and Expenditure Account

B.1 Income

B.1.1 Overstatement of Income by Rs. 31.03 lakh (N.D.D.T.C.)
N.D.D.T.C. had shown Misc. receipt of Rs. 31.03 lakh as income instead of Rs. 1.03 lakh in the Income and Expenditure account. This resulted in overstatement of Income by Rs. 30 lakh and overstatement of excess of income over expenditure.

C General

C.1.1 The Institute and its all centres are capitalising the advances in the liabilities side of balance sheet given for the purchase of machinery and equipment and for other purposes. However, the amount should only be capitalised after the actual receipt of machinery and equipment. This had resulted in overstatement of assets as well as capital fund in the liabilities side of balance sheet in respect of all centres. This practice should be discontinued.

C.1.2 The Institute is not maintaining separate Receipt and Payment account and balance sheet for General Provident Fund (GPF) in its accounts and only showing the consolidated figures of GPF account in the main balance sheet on both sides. In the absence of separate balance sheet true liabilities and assets could not be ascertained.

D Grants in aid

The institute is mainly financed from the grants of Government of India. During the year 2009-10 the institute received grants of Rs. 894.84 crore {Plan Rs. 250.51 crore and Non-
Plan Rs. 636.00 crore and Rs. 8.33 crore (Plan) for N.D.D.T.C.). It also had its own income of Rs. 73.53 crore. The total plan expenditure was Rs. 162.44 crore and Rs. 107.92 crore was utilised for giving advances for various purposes. The total non plan expenditure was Rs. 711.88 crore and Rs. 2.97 crore was given to suppliers etc. as advances. The institute received grants for various schemes for Rs. 55.55 crore and incurred an expenditure of Rs. 47.57 crore.

Out of the grants-in-aid of Rs. 8.33 crore received during the year (Rs. 1.58 crore was received in March), N.D.D.T.C. could utilise a sum of Rs. 0.48 crore leaving a balance of Rs. 1.10 crore as unutilised grant as on 31 March 2010.

**Management letter:** Deficiencies which have not been included in the Audit Report have been brought to the notice of the Director, 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 and Income and Expenditure Account /Receipts and Payments 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 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 the All India Institute of Medical Sciences as at 31 March 2010; and

b. In so far as it relates to Income and Expenditure Account of the surplus for the year ended on that date

For and on behalf of the C &AG of India

Place: New Delhi
Date: 03.11.2010

Director General of Audit
Central Expenditure
Annexure –I to Audit Report

1. Adequacy of internal audit system
   • The Institute did not have any internal audit manual.
   • During 2009-10, out of 70 units only nine units were audited by the internal audit wing of the Institute.

2. System of physical verification of fixed assets
   • The physical verification of fixed assets had not been conducted during 2009-10 and as such, the actual existence of fixed assets included in the accounts could not be assured.
   • The physical verification of stationery, books and publications and consumable items was conducted for the year 2009-10.

3. Regularity in payment of statutory dues
   • As per the accounts, no statutory dues over six months were outstanding.
Replies/comments to the Separate Audit Report of the Comptroller & Auditor General of India on the Accounts of All India Institute of Medical Sciences (AIIMS) for the year ended 31st March 2010

A.1.1 Understatement of assets by Rs. 1.60 crore (GPF)

The face value of the investment was shown in the balance sheet (excluding premium). The understatement of investment in GPF Account as pointed out will be rectified in the next year balance sheet.

A.1.2 Overstatement of Assets by Rs. 11.49 lakh (C.N.C, I.R.C.H & N.D.D.T.C)

Due to oversight the figures have not been inserted in the Balance Sheet. The necessary correction in this regard will be carried out by reducing the assets and Capital Funds in the Balance Sheet for the year 2010-11.

A.1.3 Overstatement of Assets by Rs. 21.00 lakh (CN Centre)

The point has been noted and the necessary correction in this regard will be made in the Annual Accounts of CNC for the year 2010-11.

A.1.4 Understatement of assets by Rs. 60.00 lakh (Dr. BRA Institute Rotary Cancer Hospital)

Discrepancy pointed out by the Audit has been noted and necessary correction in this regard will be made in the Annual Accounts for the year 2010-11.

A.1.5 Overstatement of Assets by Rs. 1.93 lakh (Dr. BRA Institute Rotary Cancer Hospital)

Discrepancy pointed out by the Audit has been noted and necessary correction in this regard will be made in the Annual Accounts for the year 2010-11.

A.1.6 Fixed assets

The Institute prepares its accounts on actual receipt and expenditure basis. Further, no depreciation on Machinery & Equipment, Vehicles etc. has been provided as the AIIMS is fully funded by Government of India. A foot-note in this regard has already been given in the Balance Sheet to justify the action taken.

A.1.7 Investments-Non adherence to the approved pattern of investment for G. P. Fund accumulations.

All investment has been made to safe the funds of the employees. The investment of the accumulated funds to the tune of Rs 178.32 crores during the year 2008-09 could not be made as per the Ministry of Finance, notification. No.F 5 (53) /2002-ECB & PR dated 24-01-2005 (Copy enclosed) not 24-01-2008 as mentioned in audit report, due to the receipt of Ministry of Fin, Deptt of Expenditure notification No. 7(2)/E .coord/2007 dated 15-01-2008. Para 3 of the ibid letter reads as under:-

“It has also been brought to the notice of the Government that, in recent times, there is an emerging practice of inviting competitive bids for placing bulk deposits with banks. As a consequence, there is undesirable competition amongst banks leading to arbitrary hikes in deposit rate (even for short periods) which have consequences for the economy. “It is therefore, advised that the practice of inviting competitive bids for bulk deposits should
be discontinued forthwith. Any department/Ministry or any of the agencies/entities/bodies referred to in para 2 above should place their bulk deposits with the banks (s) with whom they have regular course of business, including public sector banks”. Keeping in view above investment was mainly made in public sector banks.

Since the matter was not free from the doubt, a reference was made to Dept of Expenditure, Min. of Finance seeking clarification whether the pattern of investment stated in Ministry of Finance, notification. No.F 5 (53)/2002-ECB & PR dated 24-01-2005 was still relevant after the issue Ministry of Fin, Dept of Expenditure notification No. 7(2)/E-coord/2007 dated 15-01-2008. It was clarified by the Ministry of Fin, Dept of Economic affairs vide No F. No 3/ 42/EM/2009 dated 22-09-2009 (copy enclosed) that Dept of Economics Affairs notification (since revised) on 14-08-2008 (copy enclosed) would be applicable for the pattern of investment to be followed by the non govt. Provident Funds, superannuation Funds and Gratuity Funds etc while the Dept.of Expenditure order dated 15-01-2008 would be applicable for keeping the normal funds in the accounts with the public sector banks.

Accordingly, during the year 2009-10 total investment to the tune of Rs 87.82 crore (Rs 48.82 crore maturity amount out of Rs 178.32 crore plus Rs 39.00 crore surplus GPF available after meeting the requirement of GPF advances, GPF Withdrawals & Final settlement of GPF cases) has been made in accordance with the investment pattern as mentioned Govt. of India Deptt of Economic Affairs OM No. 5(88)/2006 –PR dated 14th August, 2008.

A.1.8 Understatement of assets by Rs. 1.00 crore

Interest amount of Rs.1,00,27,662/- on the FDR of Rs.13.00 crore which was due on 30.03.10 was not taken into account as the same was not received from the GPO Jhunjhunu by ending of the year 2009-10 due to some technical problem.

In this regard GPO Jhunjhunu suggested us to open an account in nearest Post Office in Delhi for transfer the maturity amount plus interest to avoid the bank charges/collection charges.

Accordingly, to avoid loss to the Institute, account was opened in Post Office and the total money with interest for the processing period amounting to Rs.1,04,36,077/- instead of Rs.1,00,27,662/- was transferred into account only on 06.5.2010 by GPO Jhunjhunu hence, there is no loss of interest. The interest amount in question will be reflected in the annual accounts for the year 2010-11 as the accounts are maintained in AIIMS on cash basis.

A.2.1 Understatement of liabilities – Capital Fund by Rs. 9.57 crore (AIIMS Main)

The point has been noted and the necessary correction in this regard will be made in the Annual Accounts for the year 2010-11.

A.2.1(b) Overstatement of liabilities – Capital Fund by Rs. 92.57 lakh (Rajender Prasad Centre)

The point has been noted and the necessary correction in this regard will be made in the Annual Accounts of RPC for the year 2010-11.

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A.2.1(c). Understatement of liabilities – Capital Fund by Rs. 30.71 lakh (C.N. Centre)

The point has been noted for future compliance in the Annual Accounts for the year 2010-11 onwards.

A.2.1(d). Overstatement of liabilities – Capital Fund by Rs. 31.71 lakh (Dr. BRA IRCH)

The point has been noted and the necessary correction in this regard will be made in the Annual Accounts of IRCH for the year 2010-11.

A.2.2 Understatement of liabilities (Dr. BRA Institute Rotary Cancer Hospital)

In compliance with Audit observation Earnest Money and Security Deposit outstanding at the end of financial year to be refunded to contractors would be shown separately in the Balance Sheet in liability side.

B.1.1 Overstatement of Income by Rs. 31.03 lakh (N.D.D.T.C.)

The point has been noted and the necessary correction in this regard will be made in the Annual Accounts for the year 2010-11.

C.1.1 The Institute and its all centres are capitalising the advances in the liabilities side of balance sheet given for the purchase of machinery and equipment and for other purposes. However, the amount should only be capitalised after the actual receipt of machinery and equipment. This had resulted in overstatement of assets as well as capital fund in the liabilities side of balance sheet in respect of all centres. This practice should be discontinued.

The present accounting system for capitalising the advances given for procurement of Machinery and equipment and for other purpose is in vogue in the Institute from several years and audit never objected the existing practise. However, the point has been noted for future compliance.

C.1.2 The Institute is not maintaining separate Receipt and Payment account and balance sheet for General Provident Fund (GPF) in its accounts and only showing the consolidated figures of GPF account in the main balance sheet on both sides. In the absence of separate balance sheet true liabilities and assets could not be ascertained.

The separate account for GPF in AIIMS (Main) Balance Sheet will be depicted in the next year accounts i.e 2010-11.

D. Grants in aid

Facts – No comments.