The All India Institute of Medical Sciences (AIIMS) was established by an Act of Parliament in 1956 as an institution of national importance. Its main objectives were 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.

AIIMS has comprehensive facilities for teaching, research and patient care. Medical and paramedical courses are taught at AIIMS. The institution awards its own undergraduate, postgraduate and doctorate degrees.

Teaching and research are conducted in 50 disciplines. AIIMS plays a leading role in the field of medical research, having more than 1400 research publications by its faculty and researchers in a year. AIIMS also has a College of Nursing, which awards BSc (Hons) Nursing and BSc Nursing (Post-certificate) degrees.

Twenty-five clinical departments, including six superspeciality centres, manage practically all types of disease conditions with support from pre-clinical and para-clinical departments. AIIMS also runs a 60-bedded hospital at 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
2007–2008

Year of establishment 1956

<table>
<thead>
<tr>
<th>Teaching Departments and Centres</th>
<th>50</th>
<th>Medical graduates</th>
<th>2229</th>
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<td>Faculty members (sanctioned 620)</td>
<td>453</td>
<td>Postgraduates</td>
<td>6759</td>
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<td>Non-faculty staff (sanctioned 8572)</td>
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<td>Nursing graduates</td>
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<tr>
<td>Undergraduate students</td>
<td>640</td>
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<td>Postgraduate students</td>
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<td>Books/monographs/chapters in books</td>
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Hospital Services

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<tr>
<th>Facility</th>
<th>Outpatients</th>
<th>Admissions</th>
<th>Surgery</th>
<th>Beds</th>
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<tr>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>General</td>
</tr>
<tr>
<td>Main Hospital</td>
<td>15,28,238</td>
<td>83,852</td>
<td>77,852</td>
<td>861</td>
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<tr>
<td>R.P. Centre for Ophthalmic Sciences</td>
<td>4,37,817</td>
<td>27,917</td>
<td>26,949</td>
<td>280</td>
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<td>Dr B.R. Ambedkar Institute</td>
<td>80,244</td>
<td>21,535</td>
<td>3,927</td>
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<tr>
<td>Rotary Cancer Hospital</td>
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<td>Neurosciences Centre</td>
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<tr>
<td>National Drug Dependence Treatment Centre</td>
<td>36,513</td>
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<tr>
<td>Jai Prakash Narayan Apex Trauma Centre</td>
<td>6,683</td>
<td>3,362</td>
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Average bed occupancy 78.5%
Average period of hospital stay 5.4 days
Net death rate 2.7%
Infection rate (crude) 8.26%
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<td>9.32 Radiodiagnosis</td>
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<td><strong>10 CENTRES</strong></td>
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<td>10.1 Cardiothoracic Sciences Centre</td>
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<tr>
<td>10.2 Centre for Behavioural Sciences (National Drug Dependence Treatment Centre)</td>
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<td>10.3 Centre for Dental Education and Research</td>
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<td>10.4 Dr B.R. Ambedkar Institute Rotary Cancer Hospital</td>
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<tr>
<td>10.5 Neurosciences Centre</td>
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<td>10.6 Dr Rajendra Prasad Centre for Ophthalmic Sciences</td>
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<td>10.7 Jai Prakash Narayan Apex Trauma Centre</td>
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<td><strong>11 CENTRAL FACILITIES</strong></td>
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<td>11.1 B.B. Dikshit Library</td>
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<td>11.2 Cafetaria</td>
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<td>11.8 Hostel Section</td>
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<td>652</td>
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<td>713</td>
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</table>
I am glad to present the Fifty-second Annual Report and audited statement of accounts for the year 2007-2008.

The All India Institute of Medical Sciences (AIIMS) was established in 1956 by an Act of Parliament as an institution of national importance. This was in pursuance to the recommendations made by the Bhor Committee in 1946.

AIIMS has been entrusted 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 at 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.

AIIMS is an autonomous institution and awards its own degrees. The AIIMS continues to be a leader in the field of medical education, research and patient-care in keeping with the mandate from Parliament.

AIIMS is fully funded by the Government of India. However, for research activities, grants are also received from various sources including national and international agencies. While the major part of the hospital services are highly subsidized for the patients coming to the AIIMS hospital, certain categories of patients are charged for treatment/services rendered to them.

AIIMS provides full time postgraduate and post-doctoral courses in 47 disciplines. The guiding principle in postgraduate training is to train them as teachers, researchers and competent doctors, who can investigate, manage and treat patients independently. During the 2007-2008 academic session (i.e. for the courses commencing in July 2007 and January 2008), 368 students were admitted to various postgraduate, post-doctoral and super-speciality courses, i.e. MD, MS, MDS, MHA, PhD, MCh, DM, and MSc in various specialities. In the year under review, 1022 postgraduate and post-doctoral students were on the rolls in various courses and 242 students qualified for their degrees and 83 students qualified for various superspeciality degrees. As always, appropriate consideration was given to students from Scheduled Castes (SC) and Scheduled Tribes (ST). Twenty-five SC and 11 ST students were admitted to MD/MS courses, 3 SC and 1 ST students to MSc courses.

This year AIIMS admitted 50 students to its MB,BS course (including 7 SC and 4 ST students), 21 students to B. Sc Nursing (post-certificate) course (including 4 SC and 2 ST students), 52 students to B. Sc. (Hons) in Nursing Course (including 8 SC and 5 ST students), 13 students to B.Sc. (Hons.) in Ophthalmic Techniques (including 2 SC and 1 ST students) and 7 students to B.Sc. (Hons.) in Medical Technology in Radiography (including 1 SC student).

AIIMS also provides short/long term training to doctors from various organizations and State Governments, WHO-in-Country Fellowship and elective training to Foreign National students. Six hundred and twenty seven (627) candidates received short/long training in AIIMS during the year. In addition, elective training was provided to several candidates, including foreign nationals. The Institute also continued to provide consultancy services to several neighboring countries under
bilateral agreements or under the aegis of international agencies. The Institute trained 21 WHO-sponsored/WHO-in-country fellowship candidates to fulfill its international obligations.

The MBBS course is spread over 5½ years, dividing the period to 1 year for pre-clinical, 1½ year for para-clinical and 2 years for clinical subjects followed by 1 year rotating internship. Para-medical courses like B.Sc (Hons.) in Nursing, Ophthalmic Techniques, Medical Technology in Radiography and Speech and Hearing continued to be popular and attracted students from other countries also. The curricula of these courses are under constant scrutiny by the faculty of the Institute for purposes of improvement. The medical college of the Institute has been adjudged the best in the country for the 7th consecutive year by a national survey.

The institute organized a number of workshops, symposia, conferences and training programmes in collaboration with various national and international agencies during the year. Professionals from various institutions all over the country participated in these seminars and workshops and benefited with update knowledge. Guest and Public lectures were organized by visiting experts and faculty of AIIMS.

The All India Institute of Medical Sciences is a leader in the field of medical research, with major emphasis on areas of national needs. Over 381 research projects were ongoing during this period. Research grants totaling Rs 46 crores (approx.) were received from various international and national funding agencies during the year 2007-2008.

Despite increasing pressures the Institute has constantly tried to demonstrate its commitment to professionalism and service to the common people at affordable cost. Thousands of patients from all over the country come to AIIMS everyday to get optimal medical care. During the year 2007-2008, the AIIMS hospital catered not only to the patients from India but also from neighboring countries such as Nepal, Bangladesh, Sri Lanka, Bhutan and other Asian Countries. In 2007-08, there was an OPD attendance of over 15,28,238, there were 83,852 inpatient admissions and 77,631 surgical procedures were conducted. In addition 1,48,632 patients attended the Emergency Care Services at AIIMS. Due to expansion of facilities like OPD, emergency service, private wards and use of innovated methods, AIIMS has been able to provide better and efficient patient care. Due to quick turnover of patients, number of indoor admissions and surgery performed, have all increased. The average length of stay is around 4.7 days; the average bed occupancy, 78.5% and the net death rate, 2.7%, which is at par with standards in developed countries. With the use of mechanical cleaning devices and active interaction of Hospital Infection Control Committee (HIFCOM), the general hygiene and sanitation of the hospital is of a high level.

Dr. Rajendra Prasad Centre for Ophthalmic Sciences attended to 2,15,852 patients in the General OPD, 43,466 patients in the Emergency Service and 1,78,499 patients in Specialty clinics. The number of admitted patients was 27,917 and 26,949 surgical procedures were conducted during this period. The average bed occupancy during this year was 86% and the average in-hospital stay was 4.9 days.

At the Cardiothoracic and Neurosciences Centre (CN Centre), 2,27,044 patients attended the OPD (1,01,930 in Cardiology, 31,869 in Cardiothoracic and Vascular Surgery, 61,053 in Neurology and 32,192 in Neurosurgery), 18,097 patients were admitted as inpatients and 5,986 surgical procedures were performed.

The Dr. B.R. Ambedkar Institute Rotary Cancer Hospital now has 127 beds. The expanded Dr. BRAIRCH has modern, sophisticated machinery and equipment matching international standards.
It is currently functioning through 8 disciplines namely Medical Oncology, Radiation Oncology, Surgical Oncology, Laboratory Oncology, Medical Physics, Anesthesiology, Radiodiagnosis and Preventive and Community Oncology. Dr. BRAIRCH attended to 80,244 patients in the OPD and admitted 21,535 patients. About 3927 operations were also conducted.

The Jai Prakash Narain Trauma Centre, which became operational in the year 2006, has a state-of-the-art emergency room with 8 resuscitation bays, observation and triage areas and facilities for managing 20 critically ill patients. The Centre has two functional operation rooms, two 30-bedded wards, a multislice CT scanner, mobile X-ray units and heavy duty automatic processors for radiography, a 1.5 Tesla MRI, a C-Arm X-ray unit with 3-D facility, colour Doppler and well-equipped laboratories. In the year 2007-2008, the Trauma Centre attended to 6,683 patients, of which 3,362 were admitted and 3,321 were operated. A total of 27,278 radiological investigations were conducted at the Centre.

The Organ Retrieval Banking Organization, a national facility and nodal centre for the country at All India Institute of Medical Sciences (AIIMS), New Delhi, with its objective of encouraging organ donations, fair and equitable distribution of human organs and optimum utilization of human organs, continues to work round-the-clock. A dedicated four-digit-help line (1060), a website (www.orbo.org) with the facility to download ‘donor forms’ and an email facility for correspondence, remains available to the public for enquiries regarding organ donation and transplantation.

The Department of Dental Surgery has set up a full-fledged dental college under the aegis of the AIIMS. The department is a nodal centre for the National Oral Health Policy of the Government of India. The Centre for Dental Education and Research (CDER) conducts an MDS (postgraduate course) in the speciality. In the year 2007-2008, the CDER attended to 9,271 patients, of which 6,020 were admitted and 2,437 were operated (major) and 3,583 were operated (minor).

The Centre for Behavioural Sciences (National Drug Dependence Treatment Centre), AIIMS, at Ghaziabad is a 50 bedded centre attended to 36513 patients in General OPD, of which 1,134 were admitted.

Community-based programmes have been an integral part of the Institute’s clinical and research activities. The Rural Health Centre at Ballabgarh, being run under the supervision of the Centre of Community Medicine, is a unique experiment. Departments of Obstetrics and Gynecology, Rehabilitation and Physical Medicine, Pediatrics and Dr. Rajendra Prasad Centre for Ophthalmic Sciences also organize regular camps in the rural community. The outpatient facilities for patients with ophthalmic and dental problems are drawing a large number of patients.

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 covered, it also has a secondary level care hospital at Ballabgarh with 50 beds, which attracts patients from far and wide. The number of patients attended to in the hospital included 1,66,623 in the OPD, 18,406 in the emergency services, and 6,339 as inpatient admissions. The project has achieved significant successes in terms of improving health of mothers and children of the area. The zero Maternal Mortality Rate and Crude Death Rate of 7.0, recorded for the area, is much ahead of targets set by Government of Indian for 2010. The Urban Health Programme and Family Health Exercise programmes also cater to urban slums of Delhi having a population of about 84,678. A Mobile Health Clinic of CCM visits these slums 5 times a week and provides preventive, promotive and primary level curative services. Domiciliary services
in these slum areas are provided through para-medical workers. These services attended to 25,695 patients in 2007-08. CCM has now established a Disease Outbreak Response Cell (DORC) for ensuring a rapid response to infectious disease outbreaks that may occur from time to time in the region. The AIIMS also has an AIDS Education and Training Cell for prevention of HIV/AIDS. This cell operates an interactive telephone helpline called ‘Shubhchintak’ to answer queries of general public on HIV/AIDS. This helpline is quite popular and is supplemented by an internet based helpline called “e-shubhchintak. CCM also runs a Sex and Marriage Counselling Clinic (SMCC) at the AIIMS Hospital.

Medicines are supplied to all patients attending the Casualty free of cost. During the financial year 2007-08, about 2,500 poor and indigent patients were also provided financial assistance.

Prof. T. D. Dogra
Director
2. The Institute and its Committees

INSTITUTE BODY

1. Hon’ble Dr Anbumani Ramadoss  
   President  
   Union Minister for Health & Family Welfare  
   Nirman Bhawan, New Delhi 110011

2. Shri R.K. Dhawan  
   Member  
   Member of Parliament (Rajya Sabha)  
   141, Golf Links, New Delhi 110003

3. Professor Vijay Kumar Malhotra  
   Member  
   Member of Parliament (Lok Sabha)  
   6, Dr Bishamber Dass Marg  
   New Delhi 110001

4. Dr Karan Singh Yadav  
   Member  
   Member of Parliament (Lok Sabha)  
   C-6 MP Flats, Baba Khadak Singh Marg  
   New Delhi 110001

5. Dr Deepak Pental  
   Member  
   Vice Chancellor  
   (Ex-Officio)  
   Delhi University  
   Delhi 110007

6. Shri Naresh Dayal  
   Member  
   Secretary (Health)  
   (Ex-Officio)  
   Ministry of Health & Family Welfare  
   Nirman Bhawan, New Delhi 110011

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

8. Dr Shyam Prasad  
   Member  
   Vice President  
   National Board of Examinations  
   Ansari Nagar, New Delhi 110029
9. **Dr S.S. Agarwal**  
   Central Drug Research Institute  
   Chattar Manzil Palace, Post Box No. 173  
   Lucknow 226001, Uttar Pradesh  
   D-13, Vivekanandpuri  
   Lucknow 226007, Uttar Pradesh

10. **Professor B.P. Chatterjee**  
    Department of Biological Chemistry  
    Indian Association for the Cultivation of Science  
    Jadavpur, Kolkata 700032, West Bengal

11. **Late Shri Sudeep Banerjee**  
    **Shri R.P. Agrawal**  
    Secretary, Department of Secondary Education and Higher Education  
    Ministry of Human Resource Development (HRD)  
    Shastri Bhawan (Gate No.6), New Delhi 110001

12. **Professor K.K. Talwar**  
    Director  
    Postgraduate Institute of Medical Education and Research, Chandigarh

13. **Professor Kartar Singh**  
    Department of Gastroenterology  
    Postgraduate Institute of Medical Education and Research, Chandigarh

14. **Professor R. Surendran**  
    Professor and Head  
    Department of Surgical Gastroenterology  
    Government Stanley Hospital  
    Chennai, Tamilnadu

15. **Dr (Mrs) Nilima Arun Kshirsagar**  
    Dean, Professor and Head  
    Department of Clinical Pharmacology  
    Seth G.S. Medical College and KEM Hospital  
    Mumbai, Maharashtra

16. **Shri Raghubir Singh**  
    Additional Secretary and Financial Advisor  
    Ministry of Health and Family Welfare  
    Nirman Bhawan, New Delhi 110011
17. **Professor P. Venugopal**  
   Director, AIIMS  
   **Professor T.D. Dogra**  
   Acting Director, AIIMS

18. **Smt Bhavani Thyagarajan**  
   Joint Secretary  
   **Shri Raama Murthy**  
   Ministry of Health and Family Welfare  
   Nirman Bhawan, New Delhi 110011

19. **Dean (Academic), AIIMS**  
20. **Professor T.D. Dogra**  
   Dean (Exams), AIIMS, New Delhi

**GOVERNING BODY**

| 1.  | Dr Anbumani Ramadoss | Chairman |
| 2.  | Shri R.K. Dhawan   | Member |
| 3.  | Dr Karan Singh Yadav | Member |
| 4.  | Shri Naresh Dayal | Member |
| 5.  | Dr R.K. Srivastava | Member (Ex-Officio) |
| 6.  | Shri Raghubir Singh | Member |
| 7.  | Dr Shyam Prasad | Member |
| 8.  | Professor K.K. Talwar | Member |
| 9.  | Professor Kartar Singh | Member |
| 10. | Professor R. Suresh | Member |
| 11. | Professor P. Venugopal, Professor T.D. Dogra | Member-Secretary (up to 19.12.2007) (w.e.f. 20.12.2007) |
| 12. | Smt Bhavani Thyagarajan, Shri Raama Murthy | Special Invitee (up to 19.12.2007) (w.e.f. 20.12.2007) |
| 13. | Dean (Academic), AIIMS | Special Invitee |
| 14. | Professor T.D. Dogra | Special Invitee |

**STANDING FINANCE COMMITTEE**

| 1.  | Shri Naresh Dayal, Health Secretary | Chairman |
| 2.  | Professor Vijay Kumar Malhotra | Member |
| 3.  | Shri R.K. Dhawan | Member |
| 4.  | Dr R.K. Srivastava | Member |
| 5.  | Shri Raghubir Singh | Additional Secretary-Member |
| 6.  | Dr Shyam Prasad | Member |
| 7.  | Shri Sudeep Banerjee, Shri R.P. Agrawal | Member (up to 21.5.2007) (w.e.f. 4.6.2007) |
8. Dr S.S. Agarwal  Member
9. Professor P. Venugopal  Member-Secretary (up to 19.12.2007)
   Professor T.D. Dogra  Member-Secretary (w.e.f. 20.12.2007)
10 Dean, Academic  Special Invitee
11 Smt Bhavani Thyagarajan  Special Invitee (up to 19.12.2007)
   Shri Raama Murthy  Special Invitee (w.e.f. 20.12.2007)

ESTATE COMMITTEE

1. Professor Vijay Kumar Malhotra  Chairman
2. Professor Karan Singh Yadav  Member
3. Dr R.K. Srivastava  Member
4. Dr S.S. Agarwal  Member
5. Shri Naresh Dayal  Member
6. Professor Deepak Pental  Member
7. Shri Raghupur Singh  Member
8. Shri Sudeep Banerjee  Member (up to 21.5.2007)
   Shri R.P. Agrawal  Member (w.e.f. 4.6.2007)
9. Professor P. Venugopal  Member-Secretary (up to 19.12.2007)
   Professor T.D. Dogra  Member-Secretary (w.e.f. 20.12.2007)

ACADEMIC COMMITTEE

1. Professor Nilima Arun Kshirsagar  Chairperson
2. Professor R. Surendran  Member
3. Professor Kartar Singh  Member
4. Professor K.K. Talwar  Member
5. Dr R.K. Srivastava  Member
6. Dr Shyam Prasad  Member
7. Professor B.P. Chatterjee  Member
8. Shri Sudeep Banerjee  Member (up to 21.5.2007)
   Shri R.P. Agrawal  Member (w.e.f. 4.6.2007)
9. Professor P. Venugopal  Member-Secretary (up to 19.12.2007)
   Professor T.D. Dogra  Member-Secretary (w.e.f. 20.12.2007)

HOSPITAL AFFAIRS COMMITTEE

1. Professor S.S. Agarwal  Chairman
2. Shri R.K. Dhawan  Member
3. Professor Karan Singh Yadav  Member
4. Dr R.K. Srivastava  Member
5. Shri Naresh Dayal  Member
6. Shri Raghubir Singh Member
7. Professor Nilima Arun Kshirsagar Member
8. Professor K.K. Talwar Member
9. Dr Shyam Prasad Member
10. Professor P. Venugopal Member-Secretary (up to 19.12.2007)
    Professor T.D. Dogra Member-Secretary (w.e.f. 20.12.2007)

SELECTION COMMITTEE

1. Professor R. Surendran Chairman
2. Professor Karan Singh Yadav Member
3. Dr R.K. Srivastava Member
4. Professor K.K. Talwar Member
5. Professor Kartar Singh Member
6. Shri Sudeep Banerjee Member (up to 21.5.2007)
   Shri R.P Agrawal Member (w.e.f. 4.6.2007)
7. Professor Nilima Arun Kshirsagar Member
8. Dr Shyam Prasad Member
9. Professor P. Venugopal Member-Secretary (up to 19.12.2007)
    Professor T.D. Dogra Member-Secretary (w.e.f. 20.12.2007)
3. Academic Section

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EDUCATION

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

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 MBBS, BSc (Hons) in paramedical courses such as Medical Technology in Radiography and Ophthalmic Techniques, and BSc Nursing (Post-certificate) and BSc (Hons) Nursing courses.

Bachelor of Medicine and Bachelor of Surgery (MBBS)

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

<table>
<thead>
<tr>
<th>One year</th>
<th>One-and-a-half years</th>
<th>Two years</th>
<th>One year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-clinical training</td>
<td>Paraclinical training</td>
<td>Clinical training</td>
<td>Rotating internship (compulsory)</td>
</tr>
</tbody>
</table>

Every year 50 students are admitted to the MBBS course. 45 students (7 Scheduled Caste, 4 Scheduled Tribe and 34 General Category) are selected on the basis of their performance in an All-India entrance examination. 3% seats are reserved for orthopaedic physically handicapped candidates on horizontal basis. Government of India. During the year, there were 71,757 applicants, and 45,625 candidates appeared in the entrance examination for the 45 seats. 5 seats are reserved for foreign nationals and the screening and admissions for these 5 seats are done on the recommendation of the Ministry of External Affairs, The total number of undergraduate students as on 31 March 2008 was 255 including 48 interns.

Merit scholarships of Rs 750 and Rs 500 per month were awarded to 4 students who secured first and second position in the first, second and final MBBS examination.
Summer fellowships were awarded to 6 students 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 55 students was admitted for BSc (Hons) Nursing in August 2007. The current student strength for the nursing and paramedical courses is as follows:

<table>
<thead>
<tr>
<th>Nursing courses</th>
<th>Number of students</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSc Nursing (Post Certificate)</td>
<td>44</td>
</tr>
<tr>
<td>BSc (Hons) Nursing</td>
<td>206</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Paramedical courses</th>
<th>Number of students</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSc (Hons) Ophthalmic Techniques</td>
<td>34</td>
</tr>
<tr>
<td>BSc (Hons) Medical Technology in Radiography</td>
<td>21</td>
</tr>
</tbody>
</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 368 students, including 12 state-sponsored and 13 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 2008 was 1021. The subject wise distribution of postgraduate students is given below.

A total of 242 postgraduate students MS/MS/MDS/DM/MCh/PhD/MSc/MBiotech passed out during the year 2007–2008.

<table>
<thead>
<tr>
<th>PhD</th>
<th>General</th>
<th>Sponsored</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anatomy</td>
<td>14</td>
<td>–</td>
</tr>
<tr>
<td>Biochemistry</td>
<td>46</td>
<td>–</td>
</tr>
<tr>
<td>Biophysics</td>
<td>16</td>
<td>–</td>
</tr>
<tr>
<td>Biostatistics</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Biotechnology</td>
<td>12</td>
<td>–</td>
</tr>
<tr>
<td>Cardiology</td>
<td>3</td>
<td>–</td>
</tr>
<tr>
<td>Cardiac Biochemistry</td>
<td>2</td>
<td>–</td>
</tr>
<tr>
<td>Forensic Medicine</td>
<td>1</td>
<td>–</td>
</tr>
<tr>
<td>Gastroenterology</td>
<td>8</td>
<td>–</td>
</tr>
<tr>
<td>Subject</td>
<td>General</td>
<td>Sponsored</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>---------</td>
<td>-----------</td>
</tr>
<tr>
<td>Haematology</td>
<td>7</td>
<td>–</td>
</tr>
<tr>
<td>CTVS</td>
<td>3</td>
<td>–</td>
</tr>
<tr>
<td>Laboratory Medicine</td>
<td>12</td>
<td>–</td>
</tr>
<tr>
<td>Medical Oncology</td>
<td>5</td>
<td>–</td>
</tr>
<tr>
<td>Medical Physics</td>
<td>2</td>
<td>–</td>
</tr>
<tr>
<td>Medicine</td>
<td>9</td>
<td>–</td>
</tr>
<tr>
<td>Microbiology</td>
<td>36</td>
<td>–</td>
</tr>
<tr>
<td>Neurology</td>
<td>11</td>
<td>–</td>
</tr>
<tr>
<td>Nuclear Magnetic Resonance</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Nuclear Medicine</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Otorhinolaryngology (ENT)</td>
<td>1</td>
<td>–</td>
</tr>
<tr>
<td>Ophthalmology</td>
<td>2</td>
<td>–</td>
</tr>
<tr>
<td>Ocular Pharmacology</td>
<td>5</td>
<td>–</td>
</tr>
<tr>
<td>Ocular Microbiology</td>
<td>3</td>
<td>–</td>
</tr>
<tr>
<td>Community Ophthalmology</td>
<td>1</td>
<td>–</td>
</tr>
<tr>
<td>Ocular Pathology</td>
<td>1</td>
<td>–</td>
</tr>
<tr>
<td>Ocular Biochemistry</td>
<td>2</td>
<td>–</td>
</tr>
<tr>
<td>Paediatrics</td>
<td>6</td>
<td>–</td>
</tr>
<tr>
<td>Pathology</td>
<td>9</td>
<td>–</td>
</tr>
<tr>
<td>Centre for Community Medicine</td>
<td>2</td>
<td>–</td>
</tr>
<tr>
<td>Endocrinology</td>
<td>4</td>
<td>–</td>
</tr>
<tr>
<td>Paediatric Surgery</td>
<td>2</td>
<td>–</td>
</tr>
<tr>
<td>Neuro-Biochemistry</td>
<td>5</td>
<td>–</td>
</tr>
<tr>
<td>Pharmacology</td>
<td>11</td>
<td>–</td>
</tr>
<tr>
<td>Physiology</td>
<td>19</td>
<td>2</td>
</tr>
<tr>
<td>Psychiatry</td>
<td>5</td>
<td>–</td>
</tr>
<tr>
<td>Radiation Oncology</td>
<td>2</td>
<td>–</td>
</tr>
<tr>
<td>Reproductive Biology</td>
<td>4</td>
<td>–</td>
</tr>
<tr>
<td>Transplant Immunology and Immunogenetics</td>
<td>9</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total**: 292

DM General Sponsored

<table>
<thead>
<tr>
<th>Subject</th>
<th>General</th>
<th>Sponsored</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cardiac Anaesthesiology</td>
<td>6</td>
<td>2</td>
</tr>
<tr>
<td>Cardiology</td>
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<td>3</td>
</tr>
<tr>
<td>Clinical Haematology</td>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td>Endocrinology</td>
<td>8</td>
<td>3</td>
</tr>
<tr>
<td>Gastroenterology</td>
<td>10</td>
<td>3</td>
</tr>
<tr>
<td>Haemato-Pathology</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Medical Oncology</td>
<td>12</td>
<td>2</td>
</tr>
<tr>
<td>Neonatology</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Nephrology</td>
<td>8</td>
<td>5</td>
</tr>
<tr>
<td>Neuro-Anaesthesiology</td>
<td>6</td>
<td>2</td>
</tr>
<tr>
<td>Neurology</td>
<td>13</td>
<td>3</td>
</tr>
<tr>
<td>Course</td>
<td>General</td>
<td>Sponsored</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>---------</td>
<td>-----------</td>
</tr>
<tr>
<td><strong>Neuroradiology</strong></td>
<td>3</td>
<td>–</td>
</tr>
<tr>
<td><strong>Paediatric Neurology</strong></td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td><strong>Clinical Pharmacology</strong></td>
<td>2</td>
<td>–</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>134</td>
<td>31</td>
</tr>
</tbody>
</table>

**MCh General Sponsored**

<table>
<thead>
<tr>
<th>Course</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cardiotoracic &amp; Vascular Surgery</td>
<td>16</td>
</tr>
<tr>
<td>Gastrointestinal Surgery</td>
<td>5</td>
</tr>
<tr>
<td>Neurosurgery</td>
<td>31</td>
</tr>
<tr>
<td>Paediatric Surgery</td>
<td>10</td>
</tr>
<tr>
<td>Urology</td>
<td>7</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>78</td>
</tr>
<tr>
<td><strong>General Sponsored</strong></td>
<td>69</td>
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<tr>
<td><strong>Sponsored</strong></td>
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</tr>
</tbody>
</table>

**MD General Sponsored**

<table>
<thead>
<tr>
<th>Course</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anaesthesiology</td>
<td>24</td>
</tr>
<tr>
<td>Anatomy</td>
<td>11</td>
</tr>
<tr>
<td>Biochemistry</td>
<td>8</td>
</tr>
<tr>
<td>Biophysics</td>
<td>9</td>
</tr>
<tr>
<td>Community Medicine</td>
<td>14</td>
</tr>
<tr>
<td>Dermatology &amp; Venereology</td>
<td>9</td>
</tr>
<tr>
<td>Forensic Medicine</td>
<td>6</td>
</tr>
<tr>
<td>Hospital Administration</td>
<td>4</td>
</tr>
<tr>
<td>Laboratory Medicine</td>
<td>6</td>
</tr>
<tr>
<td>Medicine</td>
<td>36</td>
</tr>
<tr>
<td>Microbiology</td>
<td>9</td>
</tr>
<tr>
<td>Nuclear Medicine</td>
<td>6</td>
</tr>
<tr>
<td>Obstetrics and Gynaecology</td>
<td>26</td>
</tr>
<tr>
<td>Ophthalmology</td>
<td>70</td>
</tr>
<tr>
<td>Pediatrics</td>
<td>18</td>
</tr>
<tr>
<td>Pathology</td>
<td>17</td>
</tr>
<tr>
<td>Pharmacology</td>
<td>9</td>
</tr>
<tr>
<td>Physical Medicine &amp; Rehabilitation</td>
<td>6</td>
</tr>
<tr>
<td>Physiology</td>
<td>9</td>
</tr>
<tr>
<td>Psychiatry</td>
<td>16</td>
</tr>
<tr>
<td>Radiodiagnosis</td>
<td>16</td>
</tr>
<tr>
<td>Radiotherapy</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>429</td>
</tr>
<tr>
<td><strong>General Sponsored</strong></td>
<td>402</td>
</tr>
<tr>
<td><strong>Sponsored</strong></td>
<td>27</td>
</tr>
</tbody>
</table>

**MS**

<table>
<thead>
<tr>
<th>Course</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orthopaedics</td>
<td>12</td>
</tr>
<tr>
<td>Otorhinolaryngology</td>
<td>8</td>
</tr>
<tr>
<td>Surgery</td>
<td>29</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>429</td>
</tr>
</tbody>
</table>

**MDS**

<table>
<thead>
<tr>
<th>Course</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conservative Dentistry &amp; Endodontics</td>
<td>6</td>
</tr>
<tr>
<td>Orthodontics</td>
<td>6</td>
</tr>
<tr>
<td>Prosthodontics</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>402</td>
</tr>
<tr>
<td><strong>General Sponsored</strong></td>
<td>27</td>
</tr>
</tbody>
</table>
### MSc

<table>
<thead>
<tr>
<th>Subject</th>
<th>General</th>
<th>Sponsored</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anatomy</td>
<td>5</td>
<td>–</td>
</tr>
<tr>
<td>Biochemistry</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>Biophysics</td>
<td>2</td>
<td>–</td>
</tr>
<tr>
<td>Perfusion Technology</td>
<td>1</td>
<td>–</td>
</tr>
<tr>
<td>Biotechnology</td>
<td>21</td>
<td>1</td>
</tr>
<tr>
<td>Nuclear Medicine Technology</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>Pharmacology</td>
<td>7</td>
<td>–</td>
</tr>
<tr>
<td>Physiology</td>
<td>5</td>
<td>–</td>
</tr>
<tr>
<td>Urology Technology</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

### MSc Nursing

<table>
<thead>
<tr>
<th>Subject</th>
<th>General</th>
<th>Sponsored</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oncological Nursing</td>
<td>4</td>
<td>–</td>
</tr>
<tr>
<td>Cardiological/CTVS Nursing</td>
<td>4</td>
<td>–</td>
</tr>
<tr>
<td>Nephrological Nursing</td>
<td>4</td>
<td>–</td>
</tr>
<tr>
<td>Neurosciences Nursing</td>
<td>4</td>
<td>–</td>
</tr>
<tr>
<td>Paediatric Nursing</td>
<td>4</td>
<td>–</td>
</tr>
<tr>
<td>Psychiatric Nursing</td>
<td>4</td>
<td>–</td>
</tr>
<tr>
<td>Critical Care Nursing</td>
<td>3</td>
<td>–</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>84</strong></td>
<td><strong>4</strong></td>
</tr>
</tbody>
</table>

**Salaries:** The present salary of residents, as recommended by the Sixth Pay Commission since January 2006 is:

- **Junior Residents**: Rs 15,600–39,100 + (GP Rs 5400) plus allowances as per rules
- **Senior Residents**: Rs 15,600–39,100 + (GP Rs 6000) plus allowances as per rules

### SHORT- AND LONG-TERM 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 487 short and 2 long-term trainees. In addition, 13 WHO Fellows (FN) under WHO fellowship programme and 33 foreign trainees and 8 WHO Fellows (Indian national) for WHO-In-Country Fellowship training programme (2007-2008) were imparted training in various departments. The elective posting of foreign undergraduate medical students is also handled by the section. 75 foreign undergraduate medical students underwent elective training during the year.

### COMMITTEE MEETINGS

The Academic Section is responsible for arranging the meetings of the Academic committee, Staff Council, Faculty and Dean’s Committee. During the year details of the meetings held is as under:

<table>
<thead>
<tr>
<th>Committee</th>
<th>Number</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Staff Council</td>
<td>= Nil</td>
<td></td>
</tr>
<tr>
<td>Dean Committee</td>
<td>= 1</td>
<td>04.03.2008</td>
</tr>
<tr>
<td>Faculty Meetings</td>
<td>= 10</td>
<td>03.04.2007</td>
</tr>
<tr>
<td></td>
<td></td>
<td>17.04.2007</td>
</tr>
<tr>
<td></td>
<td></td>
<td>07.08.2007</td>
</tr>
</tbody>
</table>
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 50 000/ to Rs 100 000/ per annum depending on the Research Project
2. Project review by Specially review groups—15 March.

ORATIONS

The Academic Section organized the following Orations during 2007–2008

<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>1</td>
<td>Third Professor Kesho Ram Laumas Memorial Oration</td>
<td>Professor C.V. Rao, PhD Professor of Obstetrics Gynecology and Women’s Health; Director of Division of Research, Department of Obstetrics Gynecology and Women’s Health, University of Louisville, School of Medicine, 438 Medical Dental Research Building, 511 South Floyd Street, Louisville KY 40292, USA</td>
<td>8 February 2008 4.00 PM J.L.Auditorium, AIIMS</td>
</tr>
<tr>
<td>2</td>
<td>Eighteenth Sarveshwari Memorial Oration</td>
<td>Professor Brian P. Brophy Director, Neurosurgery, Royal Adelaide Hospital, Australia</td>
<td>29 February 2008 4.00 PM LT-II, AIIMS</td>
</tr>
</tbody>
</table>

CONVOCATION

The Annual Convocation of the Institute was held on 23 October 2007. Dr Montek Singh Ahluwalia, Hon’ble Deputy Chairman, Planning Commission, Government 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.
### Appendix I

**ACADEMIC SECTION II**
(Nursing and Paramedical Cell)

**Statement of AIIMS Research Grant for the year 2007–2008**

<table>
<thead>
<tr>
<th>S No</th>
<th>Name of the investigator</th>
<th>Title of the project</th>
<th>Amount sanctioned</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dr Vandana Jain</td>
<td>Vitamin D status of exclusively breastfed term healthy infants at a median age of 3 months during summer season and its correlation with maternal vitamin D status</td>
<td>Rs 100 000/-</td>
<td>1 year</td>
</tr>
<tr>
<td></td>
<td>Asstt Prof</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dept of Pediatrics</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dr T. Velpandin</td>
<td>Development and validation of N-in-one dosing technique to evaluate ocular kinetics of drugs using LC/MS/MS</td>
<td>Rs 55 000/-</td>
<td>2 years</td>
</tr>
<tr>
<td></td>
<td>Asstt Prof</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dept of Ocular Pharmacology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dr R.P. Centre</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Dr Atul Sharma</td>
<td>A pilot study comparing p16, p53, k-ras and c-erbB2 expression in non-neoplastic and GBC epithelium</td>
<td>Rs 100 000/-</td>
<td>2 years</td>
</tr>
<tr>
<td></td>
<td>Asstt Prof</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dept of Medical Oncology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dr BRAIRCH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Dr D.S. Arya</td>
<td>Pharmacological studies on Colesital in experimentally induced myocardial infarction in rats</td>
<td>Rs 100 000/-</td>
<td>1 year</td>
</tr>
<tr>
<td></td>
<td>Assoc Prof</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dept of Pharmacology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Dr Suman Jain</td>
<td>Estimation of beta-endorphin and nociceptin in ventromedial nucleus of hypothalamus after prolonged sucrose ingestion by microdialysis</td>
<td>Rs 100 000/-</td>
<td>1 year</td>
</tr>
<tr>
<td></td>
<td>Asstt Prof</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dept of Physiology</td>
<td></td>
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<td>Dr Ratna Sharma</td>
<td>A study on stress reactivity of students as a function of their general and emotional intelligence and effect of meditation on the stress response</td>
<td>Rs 100 000/-</td>
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<td>7</td>
<td>Dr Kunzang Chosdol</td>
<td>Distribution of cancer susceptibility modifying polymorphisms (MDM2 SNP3098 and p53 codon72) in Indian population groups</td>
<td>Rs 100 000/-</td>
<td>2 years</td>
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<td>8</td>
<td>Dr Tulika Seth</td>
<td>Dept of Hematology</td>
<td>Molecular characterization of Fanconi anemia: A pilot study</td>
<td>Rs 100 000/-</td>
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<td>Dr K.K. Roy</td>
<td>Dept of Obst &amp; Gynaecology</td>
<td>A prospective randomized trial comparing the clinical and endocrinological outcome with rosiglitazone versus laparoscopic ovarian drilling in patients with polycystic ovarian disease resistant to ovulation induction with clomiphene citrate (CC)</td>
<td>Rs 100 000/-</td>
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<td>Dr Rachna Seth</td>
<td>Dept of Paediatrics</td>
<td>Evaluation of anthracycline induced cardiotoxicity in children with cancer: A comparative study with echocardiography and Multiple Gated Acquisition (MUGA)</td>
<td>Rs 40 000/-</td>
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<td>Dr Ajay Garg</td>
<td>Dept of Neuroradiology Neurosciences Centre</td>
<td>Evaluation of spinal MR Angiography (MRA) in the diagnosis of spinal vascular malformations; and its role in subsequent spinal Digital Subtraction Angiography (DSA) planning</td>
<td>Rs 99 000/-</td>
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<td>Dr Sandeep R. Mathur</td>
<td>Dept of Pathology</td>
<td>P16INK4a and E-cadherin expression profile in pre-cancerous lesions of cervix and cervical carcinomas</td>
<td>Rs 100 000/-</td>
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<td>13</td>
<td>Dr Seema Kashyap</td>
<td>Dr R.P. Centre</td>
<td>P53 &amp; mdm-2 expression in orbital rhabdomyosarcoma (RMS) of childhood – An immuno-histochemical study</td>
<td>Rs 90 000/-</td>
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<td>14</td>
<td>Dr Sujata Mohanty</td>
<td>Stem Cell Facility</td>
<td>Expression status of HLA molecules on undifferentiated and differentiated Mesenchymal stem cell (MSC) – an in vitro study</td>
<td>Rs 100 000/-</td>
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<td>15</td>
<td>Dr Seema Mishra</td>
<td>Unit of Anaesthesiology</td>
<td>A comparative efficacy of amitriptyline gabapentin and pregabalin in neuropathic cancer pain: A prospective randomized double-blind placebo controlled</td>
<td>Rs 100 000/-</td>
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<td>Project Description</td>
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<td>Duration</td>
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<td>16</td>
<td>Dr Immaculata Xess</td>
<td>Serological and molecular methods for detection of cryptococcus neoformans from clinical samples</td>
<td>Rs 100 000/-</td>
<td>2 years</td>
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<td>17</td>
<td>Dr Namrata Sharma</td>
<td>To evaluate the potential role of bio-polymer to support the culture of corneal epithelial cells</td>
<td>Rs 100 000/-</td>
<td>1 year</td>
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<td>18</td>
<td>Dr Anant Mohan Asstt Prof</td>
<td>Prognostic utility of various acute phase reactants in acute exacerbation of chronic obstructive pulmonary disease</td>
<td>Rs 100 000/-</td>
<td>2 years</td>
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<td>Dr Kh Reeta Asstt Prof</td>
<td>Plasma level monitoring of mycophenolic acid and clinical outcome in renal transplant patients</td>
<td>Rs 100 000/-</td>
<td>3 years</td>
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<td>20</td>
<td>Dr Sameer Bakhshi Assoc</td>
<td>To study chromosomal abnormalities and FLT3 Internal Tandem Duplication (ITD) mutations in acute myeloid leukemia</td>
<td>Rs 1 00 000/-</td>
<td>3 years</td>
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<td>Dr BRA-IRCH</td>
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<td>Dr Somesh Gupta Asstt Prof</td>
<td>Comparison of efficacy of transplantation of basal cell layer enriched epidermal suspension in patients with stable vitiligo vulgaris and segmental vitiligo</td>
<td>Rs 100 000/-</td>
<td>3 years</td>
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<td>22</td>
<td>Dr Manish Singh Sharma Asstt Prof Dept of Neurosurgery</td>
<td>Screening of von-Hippel lindau gene for germline mutations in intracranial aneurysms-a prospective study</td>
<td>Rs 60 000/-</td>
<td>2 years</td>
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<td>23</td>
<td>Dr Vivekanandhan S Assoc Prof Dept of Neurobiochemistry</td>
<td>Analysis of TGF B pathway components expression and mutation in glioma patients</td>
<td>Rs 100 000/-</td>
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<td>24</td>
<td>Dr Ashutosh Halder Assoc Prof Dept of Repro Biology</td>
<td>Rapid detection of Chromosome X Y 2Rs 1 18 &amp; 13 aneuploidy by primed in situ labeling</td>
<td>Rs 100 000/-</td>
<td>3 years</td>
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<td>25</td>
<td>Dr R. Goswami Assoc Prof</td>
<td>Adrenal cortical reserves in patients with hyperthyroidism and their change in response following carbamizole therapy</td>
<td>Rs 100 000/-</td>
<td>1 year</td>
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<td>26</td>
<td>Dr Sanjeev Bhoi</td>
<td>Asstt Prof</td>
<td>Emergency Medicine</td>
<td>To find out the sensitivity and specificity of parasite lactic dehydrogenase antigen detection of malaria when compared with microscopy in patients presenting to Emergency Department</td>
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<td>27</td>
<td>Dr Pramod Kumar Garg</td>
<td>Assoc Prof</td>
<td>Gastroenterology</td>
<td>Association of Monocytic Chemotactic protein-1 2518 A/G polymorphism with the severity of acute pancreatitis</td>
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<td>28</td>
<td>Dr Nibhriti Das</td>
<td>Professor</td>
<td>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>
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<tr>
<td>29</td>
<td>Dr B R. Mirdha</td>
<td>Addl Prof</td>
<td>Microbiology</td>
<td>Prevalence of Intestinal Coccidiosis and other parasitosis in ‘at risk’ individuals</td>
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<tr>
<td>30</td>
<td>Dr Seema Sen</td>
<td>Assoc Prof</td>
<td>Ocular Pathology</td>
<td>Immunophenotypic characterization of small lymphocytic lymphomas of the eye</td>
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<td>31</td>
<td>Dr Rakesh Lodha</td>
<td>Asstt Prof</td>
<td>Pediatrics</td>
<td>A randomized controlled trial to evaluate the effect of normal saline in 5% dextrose at standard maintenance rate, reduced volume (2/3) maintenance rate of N/5 saline in 5% dextrose and N/5 saline in 5% dextrose at standard maintenance rate on the incidence of hyponatremia in hospitalized children</td>
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<td>32</td>
<td>Dr Y. K. Gupta</td>
<td>Professor &amp; Head</td>
<td>Pharmacology</td>
<td>To study the effect of curcumin on Ferric chloride (FeC13) induced seizures and cognitive parameters in rats</td>
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<td>33</td>
<td>Dr Srinivas M.</td>
<td>Assoc Prof</td>
<td>Pediatric Surgery</td>
<td>Adverse effects of suture fixation of testis and evaluation of novel technique of fixation of testis by cyanocrylate glue</td>
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<td>S.No</td>
<td>Name of the investigator</td>
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<td>Amount sanctioned</td>
<td>Duration</td>
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<td>34</td>
<td>Dr Rajiva Gupta</td>
<td>To study the effect of stains in rheumatoid arthritis special reference to disease activity and lipid profile</td>
<td>Rs 95 100/-</td>
<td>2 years</td>
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<td>Dr Rajiva Gupta</td>
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<td>35</td>
<td>Dr Purva Mathur</td>
<td>Evaluation of peripheral blood polymerase chain reaction for diagnosis and prognosis of visceral leishmaniasis</td>
<td>Rs 107 500/-</td>
<td>2 years</td>
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<td>Dr Purva Mathur</td>
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<td>36</td>
<td>Dr Subodh Kumar</td>
<td>A randomized controlled trial of laparoscopic inguinal hernia repair-transabdominal preperitoneal versus totally extraperitoneal approach</td>
<td>Rs 162 500/-</td>
<td>2 years</td>
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<td>Dr Subodh Kumar</td>
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<td></td>
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**ONGOING PROJECTS**

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<th>Amount sanctioned</th>
<th>Duration</th>
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<tbody>
<tr>
<td>1</td>
<td>Dr N.C. Chandra</td>
<td>To study the role of Insulin, Estradiol and Epidermal growth factor on the transcriptional regulation of LDL-receptor (LDLR)</td>
<td>Rs 100 000</td>
<td>3 years</td>
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<td>Dr N.C. Chandra</td>
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<td>2</td>
<td>Dr Rima Dada</td>
<td>Mutations in the oxidative phosphorylation (OXPHOS) pathway and spermatogenic arrest in infertile males</td>
<td>Rs 100 000</td>
<td>2 years</td>
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<td>3</td>
<td>Dr Alpana Sharma</td>
<td>Assessment of B-2 microglobulin, IL-6 and IL-2R as prognostic factors in Indian Patients with multiple myeloma</td>
<td>Rs 75 000/-</td>
<td>3 years</td>
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<td>4</td>
<td>Dr Tanuj Dada</td>
<td>Mutation spectrum of the CYP1B1 gene in North Indian Primary Congenital Glaucoma patients</td>
<td>Rs 100000/-</td>
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<td>Dr Tanuj Dada</td>
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<td>Dr R.P. Centre</td>
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<td>5</td>
<td>Dr V.K. Iyer</td>
<td>Evaluation of chromosome 1p and 11p deletions in Hepatoblastoma and Hepatocellular Carcinoma</td>
<td>Rs 100000/-</td>
<td>3 years</td>
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<td>Dr V.K. Iyer</td>
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<td>6</td>
<td>Dr T.K. Das</td>
<td>Ultrastructural localization of proteins modified by fluoride-induced lipid peroxidation products and to study the preventive role of dietary antioxidants</td>
<td>Rs 100000/-</td>
<td>2 years</td>
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<td>Dr T.K. Das</td>
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<td>7</td>
<td>Dr Arundhati</td>
<td>Mutation analysis of the 5q31-linked autosomal dominant corneal dystrophies in the north Indian patients</td>
<td>Rs 40 000/-</td>
<td>2 years</td>
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<td>Dr Arundhati</td>
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</table>
| 8  | Dr B.R. Mirdha  
Addl Prof  
Dept of  
Microbiology | Prevalence of intestinal Coccidiosis and other parasitosis in ‘at risk’ individuals | Rs 35 000/- | 3 years |
| 9  | Dr Govind K Makharia  
Assoc Prof  
Dept of  
Gastro & Human Nutrition Unit | Screening of patients with functional bowel disease, short stature, metabolic bone disease, amenorrhea and infertility for celiac disease | Rs 47 000/- | 2 years |
| 10 | Dr Kalpana Luthra  
Assoc Prof  
Dept of Biochemistry | HIV-1 resistance conferring polymorphisms in DC-SIGN in high risk individuals-a pilot study | Rs100 000/- | 1 year |
| 11 | Dr Ritu Gupta  
Asstt Prof  
Dept of Lab Oncology  
Dr BRA-IRCH | Assessment of multi-drug resistance pattern in acute myeloid leukemia and response to therapy | Rs 100000/- | 2 years |
| 12 | Dr Viveka P. Jyotsna  
Asstt Prof  
Dept of Endo & Meta | Bone health in patients of hyperthyroid Graves disease in relation to a) Duration of thyrotoxicosis b) Improvement after patient becomes euthyroid | Rs 100000/- | 2 years |
| 13 | Dr Minati Choudhry  
Assoc Prof  
Dept of Cardiac Anaesthesia | Imbalance between endothelin-1 and plasma nitric oxide products influences the outcome in children suffering from severe pulmonary hypertension due to congenital heart disease | Rs100 000/- | 3 years |
| 14 | Dr Neeti Makhija  
Assoc Prof  
Dept of Cardiac Anaesthesia  
Cardiothoracic CentreCNC | 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 | Rs100 000/- | 3 years |
| 15 | Dr Deepak Agrawal  
Asstt Prof  
Dept of Neurosurgery | Acute thalamic involvement in severe head injury-An autopsy study with histopathological correlation | Rs 80 000/- | 3 years |
<table>
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<th>S. No.</th>
<th>Name and Designation</th>
<th>Project Title</th>
<th>Amount</th>
<th>Duration</th>
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<tr>
<td>16</td>
<td>Dr Nutan Agarwal</td>
<td>Role of bile acids in diagnosis and therapeutic effect of Ursodeoxycholic acid in intrahepatic cholestasis of pregnancy</td>
<td>Rs 50 000/-</td>
<td>2 years</td>
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<td>17</td>
<td>Dr D.N. Sharma</td>
<td>A prospective randomized trial of amifostine (Radioprotector) given subcutaneously during radiation therapy in head and neck cancer patients</td>
<td>Rs 97 850/-</td>
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<td>18</td>
<td>Dr Anushree Gupta</td>
<td>Modulation of endothelin-1 in coronary artery bypass grafting patients imparted with pre-operative relaxation therapy</td>
<td>Rs 75 000/-</td>
<td>3 years</td>
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**Funds available**

- **Total**: Rs 50 000 000/-
- **Allocated**: Rs 49 10 950/-
- **Balance**: Rs 00 89 050/-
The posts of Assistant Controller of Exams and Administrative Officer were vacant during the period under review (2007–2008), the Examination Section conducted the following professional and entrance examinations.

POSTGRADUATE AND UNDERGRADUATE PROFESSIONAL EXAMINATIONS

Details of various undergraduate and postgraduate professional examinations conducted by AIIMS from 1 April 2007 to 31 March 2008.

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<td>117</td>
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<td>Final MB,BS (Supplementary)</td>
<td>5</td>
<td>1</td>
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<td>19</td>
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<td>8</td>
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<td>12</td>
<td>First Professional MB,BS</td>
<td>50</td>
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<td>40</td>
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<tr>
<td>13</td>
<td>BSc (Hons) Ophthalmic Techniques Phase I</td>
<td>11</td>
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<td>9</td>
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<td>Phase II</td>
<td>Phase III</td>
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<tr>
<td>16</td>
<td>BSc(Hons) Medical Technology in Radiography</td>
<td>7</td>
<td>–</td>
<td>5</td>
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<td>17</td>
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<td>5</td>
<td>–</td>
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<td><strong>August 2007</strong></td>
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<td>19</td>
<td>First MB,BS Professional (Supplementary)</td>
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<td>20</td>
<td>BSc(H) Ophthalmic Technology Phase I (Suppl.)</td>
<td>7</td>
<td>–</td>
<td>5</td>
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<tr>
<td>21</td>
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<tr>
<td></td>
<td><strong>December 2007</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>24</td>
<td>Final Postgraduate/Post-doctoral</td>
<td>86</td>
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<td>80</td>
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<tr>
<td>25</td>
<td>MSc (Nursing) Phase I (Supplementary)</td>
<td>2</td>
<td>–</td>
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<td>26</td>
<td>Final MB,BS</td>
<td>53</td>
<td>2</td>
<td>44</td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>Second MB,BS</td>
<td>58</td>
<td>–</td>
<td>54</td>
<td></td>
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<tr>
<td>28</td>
<td>BSc Nursing (Post-certificate) Phase I (Suppl.)</td>
<td>2</td>
<td>–</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>BSc Nursing (Post-certificate) Phase II (Suppl.)</td>
<td>0</td>
<td>–</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>BSc (Hons) Nursing Phase I (Supplementary)</td>
<td>6</td>
<td>–</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>Phase II (Supplementary)</td>
<td>1</td>
<td>–</td>
<td>1</td>
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<tr>
<td>32</td>
<td>Phase III (Supplementary)</td>
<td>1</td>
<td>–</td>
<td>1</td>
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</tr>
<tr>
<td>33</td>
<td>Phase IV (Supplementary)</td>
<td>3</td>
<td>–</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>January 2008</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>34</td>
<td>Final MB,BS (Compartmental Examination)</td>
<td>2</td>
<td>–</td>
<td>2</td>
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<tr>
<td></td>
<td><strong>Total</strong></td>
<td>736</td>
<td>8</td>
<td>653</td>
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</table>

**Entrance Examinations for Undergraduate and Postgraduate Courses**

<table>
<thead>
<tr>
<th>S No</th>
<th>Course</th>
<th>Date of examination</th>
<th>Applied</th>
<th>Appeared</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>MD/MS/MDS (AIIMS) July Session 2007</td>
<td>6 May 2007</td>
<td>13008</td>
<td>9809</td>
</tr>
<tr>
<td>2</td>
<td>DM/MCh/MHA July Session 2007</td>
<td>20 May 2007</td>
<td>1569</td>
<td>1136</td>
</tr>
<tr>
<td>3</td>
<td>MB,BS (AIIMS) August Session 2007</td>
<td>1 June 2007</td>
<td>71757</td>
<td>45625</td>
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<tr>
<td>4</td>
<td>BSc (Hons) Nursing 2007</td>
<td>24 June 2007</td>
<td>1494</td>
<td>964</td>
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<tr>
<td>5</td>
<td>BSc Nursing (Post-certificate) 2007</td>
<td>13 June 2007</td>
<td>122</td>
<td>75</td>
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</table>

AIIMS 2007-2008 / 24
<table>
<thead>
<tr>
<th>S No</th>
<th>Post</th>
<th>Date</th>
<th>Written exam</th>
<th>Interview</th>
<th>Appeared</th>
<th>Applied</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Receptionist</td>
<td>7 April 2007</td>
<td>9 May 2007</td>
<td>127</td>
<td>55</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Masalchi Bearer</td>
<td>15 April 2007</td>
<td>3 May 2007</td>
<td>352</td>
<td>287</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Office Superintendent</td>
<td>5 September 2007</td>
<td>–</td>
<td>22</td>
<td>13</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Assistant Administrative Officer</td>
<td>12 September 2007</td>
<td>8 January 2008</td>
<td>21</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Programmer</td>
<td>16 September 2007</td>
<td>28 Nov 2007</td>
<td>181</td>
<td>119</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Lab. Attendant</td>
<td>9 March 2008</td>
<td>–</td>
<td>830</td>
<td>605</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Assistant Security Officer</td>
<td>26 November 2007</td>
<td>–</td>
<td>30</td>
<td>28</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Pharmacist</td>
<td>10 March 2008</td>
<td>–</td>
<td>42</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td>1605</td>
<td>1151</td>
<td></td>
</tr>
</tbody>
</table>

**Candidates passed in PhD viva-voce examination:** 33 (Thirty three) (1 April 2007 to 31 March 2008)

**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 104 centres (19 local, 85 outstation) in 15 cities of India on 13 January 2008. The results were declared on 15 February 2008.
2. The AIIMS PG entrance examination for admission to MD/MS/MDS courses was conducted on 6 May 2007 for July 2007 session in Delhi at 30 centres and on 4 November 2007 for January 2008 session at 46 centres. The results were declared on 21 May 2007 and 20 November 2007, respectively.

3. Selections for various post-doctoral (superspecialty) courses viz. DM/MCh and Master in Hospital Administration for July 2007 and January 2008 sessions were made on the basis of a three-stage performance evaluation between 20–26 May 2007 and 16–22 December 2007, respectively.

4. The Institute also conducted a written test for the post of Senior Residents/Senior Demonstrators on 20 June 2007. All the candidates who had scored 50% or above in the written examination were called merit wise for the departmental assessment which was held on 25 and 26 June 2007, respectively.

5. Selections of candidates for registration to PhD programme for July 2007 and January 2008 sessions were held between 14–21 July 2007 and 19–28 January 2008. The results were declared on 21 July 2007 and 28 January 2008, respectively.

6. The entrance examination for admission to MBBS course of AIIMS for August 2007 session was held in 161 (84 local and 77 outstation) centres in 10 cities of India on 1 June 2007.

7. BSc (Hons) Nursing entrance examination was held in Delhi and Thiruvananthapuram on 24 June 2007.

8. The entrance examination for admission to MSc/MBiotechnology courses for the August 2007 session was held in Delhi on 7 July 2007 and 21 July 2007, respectively.

9. The entrance examination for admission to MSc Nursing course was introduced from the year 2005. This examination was held on 30 June 2007 in Delhi only. The seats were allotted on the basis of merit through counselling held on 18 July 2007.

10. BSc Nursing (post-certificate) entrance examination was held in Delhi on 13 June 2007 followed by the personal assessment of candidates on 15 June 2007.

11. The entrance examination for admission to paramedical courses—BSc (Hons) Ophthalmic Techniques and BSc (Hons) Medical Technology in Radiography for August 2007 session was held in Delhi at one centre on 10 June 2007. The students were admitted to these two courses on the basis of merit through counselling held on 16 July 2007.

Participation in Other Events

1. The Examination Section actively participates in the counselling for admission to AIIMS Postgraduate, BSc (Hons) Paramedical, MSc (Nursing) courses and interview for BSc (Nursing) post-certificate course.

2. Professor-in-Charge (Exam) has been co-ordinating the evaluation of Postgraduate students’ thesis from B.P. Koirala Institute of Health Sciences, Dharan, Nepal.
5. General Administration

Deputy Director (Administration)  
T.D. Dogra  
(upto 16.08.2007)  
Shailesh Kumar Yadav, IPS  
(w.e.f. 17.09.2007)

Chief Administrative Officer  
Attar Singh

Senior Administrative Officers  
Prem Ballabh  
(upto 31.01.2008)  
B.S. Sharma  
(upto 15.12.2007)  
K.C. Chhoker

Administrative Officers  
E.L. Lakra  
(upto 24.12.2007)  
S.K. Vashiht  
(upto 12.12.2007)  
Sanjay Kumar

Kundan Kumar  
K.K. Vaid  
R.K. Dabral  
(upto 15.02.2008)  
S. Rangabashiam  
(upto 02.04.2007)  
Ajay Kumar  
S.K. Mishra  
Ravi Chauhan  
(w.e.f. 31.03.2008)

Administrative Officer (General) and Estate Manager  
K.K. Vaid

Deputy Chief Security Officer  
Rajiv Lochan

Store Officers  
R.L. Prasad (under suspension)  
K.D. Sharma  
S.S. Bhaduria  
Pradeep Kumar Gupta

ENGINEERING SERVICES DEPARTMENT  
Superintending Engineer  
B.S. Anand (officiating)

Executive Engineers  
S. Bhasker (Civil I)  
M. Rastogi (Civil II)  
B.S. Anand (Air-Conditioning)  
Sanjay Ram (Electrical)

The General Administration, including personnel and establishment, security, estate, matters related to Engineering Services Department, stores, vigilance and public relations activities of AIIMS are supervised by the Deputy Director (Administration). There are various branches looking after the above mentioned area. Each branch is headed by a senior officer with a supportive officers and staff members. A brief description of the activities of these branches is given below.

All matters relating to the 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 and employees welfare are looked after by this section.

The total sanctioned staff of AIIMS is 9192, 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>620</td>
<td>453</td>
</tr>
<tr>
<td>2.</td>
<td>Group ‘A’</td>
<td>304</td>
<td>191</td>
</tr>
<tr>
<td>3.</td>
<td>Group ‘B’</td>
<td>760</td>
<td>600</td>
</tr>
<tr>
<td>4.</td>
<td>Group ‘C’</td>
<td>5627</td>
<td>4475</td>
</tr>
<tr>
<td>5.</td>
<td>Group ‘D’</td>
<td>1881</td>
<td>1519</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>9192</strong></td>
<td><strong>7238</strong></td>
</tr>
</tbody>
</table>

ENGINEERING SERVICES DEPARTMENT

The following major works have been undertaken during the year:

Construction of Jai Prakash Narayan Apex Trauma Centre
The Centre, an ultramodern trauma centre with a capacity of 186 beds had been completed last year and had been put to partial use in November 2006 with 30 triage beds and 2 wards having 60 beds. In the current year, this facility has been made fully operational and functional.

Additional Tower for the C.N. Centre
The private wards in the tower had become functional last year itself and 4 new operation theatres have become functional in the current year.

Construction of Centre for Dental Education and Research
The 80 dental chaired Centre has been completed and the OPDs, laboratories and investigative facilities have been commissioned for patient care.

Covering of Nallah on the East of Ansari Nagar
The covering of 600 m of the total 1.218 km stretch of nallah is complete. This has created an additional access to the Ansari Nagar Campus leading to decongestion of the existing entry points.

Construction of Surgical Block
The detailed project report of the Centre has been prepared by the consultant. The proposal for the approval of EFC had been sent to the Ministry last year. The updated EFC proposal has been forwarded to the Ministry this year again. The drawings and plans for the proposed Centre have already been finalised and the work would be taken up further on receipt of the approval of the EFC and on getting the approval of the Master Plan.

Installation of 8 Additional Lifts in the OPD and Ward
CPWD has already started the construction work of the lift pits which is expected to be completed by December 2008.
Renovation of Wards
AB6, D4, C7, D2 (balance remaining from last year) and half of AB4, AB5 wards and blood bank have been remodeled and renovated in the current year.

Underground Motorable Subway
To facilitate the movement of doctors and staff between the East and the West Ansari Nagar Campus, a proposal for a motorable subway has been mooted. The work has been entrusted to Delhi Metro Rail Corporation Ltd. (DMRC) and is expected to be completed by the end of 2009.

5.1 Office of Liaison Officer

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liaison Officer</td>
<td>J.S. Titiyal</td>
</tr>
<tr>
<td>Principal Private Secretary</td>
<td>Tej Bir Singh</td>
</tr>
<tr>
<td>Office Attendant</td>
<td>Kitty Sharma</td>
</tr>
<tr>
<td>Assistant Administrative Officer</td>
<td>Prakash Singh</td>
</tr>
<tr>
<td>SC/ST Cell (AIIMS)</td>
<td>Vishal Pathak</td>
</tr>
<tr>
<td>Assistant Administrative Officer</td>
<td>Vishal Pathak</td>
</tr>
<tr>
<td>SC/ST Cell (Academic Section)</td>
<td>Narottam Anand</td>
</tr>
<tr>
<td>Office Superintendent</td>
<td>Som Dutt</td>
</tr>
<tr>
<td>Lower Division Clerk</td>
<td>Vishal Pathak</td>
</tr>
<tr>
<td>Upper Division Clerk</td>
<td>Suresh Kumar</td>
</tr>
</tbody>
</table>

There is a separate SC/ST cell in administration to look after the welfare of employees and a SC/ST student cell (Academic Section) to look after grievances of reserved category Postgraduate, Undergraduate and Nursing students admitted at AIIMS for degree and diploma courses in various specialties. Both these cells are working under the overall control of Liaison Officer.

A National Convention on ‘Ten Years of post based roster’ from 14-16 February, 2008 was organized by the Institute of Public Administration at ‘The Hotel Raj Bhavan Road, Bangalore. Mr. Tej Bir Singh, Principal Private Secretary to Liaison Officer was nominated to participate in the convention.

The Liaison Officer held meetings with higher authorities and emphasized urgent action should taken to fill up all vacant reserved posts through Special Recruitment Drive for SC & ST candidates in group A, B, C & D category. The administration took positive steps and vacant reserved posts were advertised in leading Newspapers for recruitment.

During the year 2007-2008 various representations from SC/ST category employees and students were received in the office of Liaison Officer. Prof. Titiyal had frequent meetings with the Director, Dy. Director (Admn.) & Chief Admn. Officer and discussed the problems reported to him by employees and students.

A case of discrimination was reported by the SC/ST Assistant Nursing Staff in their postings and proper job assignment according to their status and seniority. It was also reported that SC/ST ANS
have been forced to work under junior sister grade-I & II at R.P. Centre. This issue was discussed in the office of Dy. Director (Admn.). The Medical Superintendent, Chief, Dr. R.P. Centre, Chief Admn. Officer, Chief Nursing Officer and other members present in the meeting. Prof. J.S. Titiyal appraised all members about the facts of the discrimination. The Dy. Director (Admn.) agreed and assured that immediate action shall be taken to solve this problem.

It was also decided in the meeting that a circular be issued for information to all undergraduate, post-graduate and nursing students about setting up a SC/ST grievance cell in the Academic Section. Any reserved category student can give complain to the above cell for any unacceptable remark based on caste harassment by anybody for being a reserved category candidate.

Mr. Dal Chand Verma, Office Superintendent submitted his representation to revoke his suspension from service. The CAO informed the Liaison Officer that a committee has been constituted to look into his case as his case is registered with CBI and Vigilance department.

Mr. Mukesh Kumar, Laboratory Assistant represented that his junior colleagues have been promoted to the post of Laboratory Technician in the DPC meeting and he has been denied promotion on the pretext of his average CR for one year. The Liaison Officer discussed the case in the administration and he was given promotion to the post of Laboratory Technician.

The Liaison Officer called a meeting of academic officials in his office and discussed (i) scheme for free coaching for SCs & OBCs students for specified recruitment entrance examination (ii) Establishment of SC/ST Fees Fund at the National Level. Dr. Aggarwala, the then Registrar academic assured that a meeting will be fixed shortly to discuss this issue and steps will be taken to implement the proposal.

Dr. Narender Meena, Junior Resident in the Department of Physical Medicine and Rehabilitation complaint against man handle, unacceptable remark on caste basis and harassment by his colleagues in the hostel. Dr. Meena also sent his complaint to the National Commission for Scheduled Tribes. This matter was discussed in the “Welfare and Grievance Committee for students and Residents”. Thereafter, a committee was constituted under the Chairmanship of Prof. T.P. Singh, Distinguished Biotechnologists, DBT to look into the matter.
6. Main Hospital

Medical Superintendent
D.K. Sharma

Additional Professor
Siddhartha Satpathy

Associate Professor
I.B. Singh

Sanjay Arya

GENERAL INFORMATION

Total number of beds (including Bassinets and CNC) 1423
   Main hospital and private wards 1038
   Bassinets 25
   CNC 360

HOSPITAL PERFORMANCE INDICES

<table>
<thead>
<tr>
<th>Item</th>
<th>2007–08</th>
<th>2006–07</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average length of stay (days)</td>
<td>4.7</td>
<td>4.8</td>
<td>Indicates effective utilization of beds</td>
</tr>
<tr>
<td>Average bed occupancy rate (%)</td>
<td>78.5</td>
<td>77.4</td>
<td>Indicates fair occupancy</td>
</tr>
<tr>
<td>Net death rate (%)</td>
<td>2.7</td>
<td>2.5</td>
<td>Indicates a low mortality rate despite the fact that quite a large number of critically ill patients are admitted</td>
</tr>
<tr>
<td>Combined crude infection rate (%)</td>
<td>8.26</td>
<td>7.63</td>
<td></td>
</tr>
</tbody>
</table>

Please see Appendices I and II for details

Medical Records Services

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

Education
A group of 15 Senior Medical Officers of Border Security Force, a group of students of Medical Record Degree and Diploma from St. Stephens Hospital, New Delhi and Medical Record Science Course at Christian Medical College, Vellore visited the Medical Record Section.

Meetings
Five Casualty Death Review Committee meetings were held in 2007–08.

Court attendance
A total of 1678 summons (average 5 summons per day) were received in the Medical Record Section from Courts of Delhi and outside Delhi.
Computerization of medical records
Computerization of medical records is in full swing. During the first phase, Central Admission Office and Hospital Enquiry is being computerized and in the second phase, Medical Records Section (Hospital) will be computerized.

Inpatient Services
The hospital has maintained its tradition of services and quality of patient care, in spite of an ever increasing number of patients that come from all over the country as well as from abroad. A total of 83,852 patients were admitted during the year in various clinical units of the Main Hospital and CNC. The distribution of admissions as per departments, states and gender are given in Appendices II to IV. The number of surgical procedures performed during the year in different surgical fields is given in Appendix V.

The records of indoor patients are systematically classified and categorized for easy retrieval. These records are stored in compactors. The inpatient records of CN Centre are maintained by the Medical Record Section of the Main Hospital.

Central Admission Office and Hospital Enquiry
Medical records of patients admitted to the hospital are initiated from the Central Admission Office which also functions as an Enquiry counter. All types of enquiries regarding patients, departments, doctors and centres are provided from this office.

The office functions round the clock, i.e. 365 days × 24 hours. Therefore, the staff working there is on shift duties. The office is manned by receptionists, medical record technicians and other ministerial and hospital staff.

Outpatient department and Specialty clinics
A total of 15,28,238 patients attended the general outpatient department and specialty clinics of the Main Hospital. The details of the outpatient load are given in Appendix VI.
## APPENDIX I

**Yearly statistical health bulletin (2007–08)**

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description</th>
<th>Main hospital</th>
<th>CNC</th>
<th>Total</th>
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<td>83,852</td>
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<td>b. Newborn infants</td>
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<td>2.</td>
<td>Total number of patients discharged</td>
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<td>b. Newborn infants</td>
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<tr>
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<td>3,64,694</td>
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<td>b. Newborn infants</td>
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<td>4.</td>
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<td>4.7</td>
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<tr>
<td></td>
<td>b. Newborn infants</td>
<td>6.7</td>
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<td>5.</td>
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<td></td>
<td>b. Newborn infants</td>
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<td>6.</td>
<td>Daily average number of patients</td>
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<td>b. Newborn infants</td>
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<td>Average bed occupancy (%)</td>
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<td>a. Adults and children</td>
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</tr>
<tr>
<td></td>
<td>b. Newborn infants</td>
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<td>8.</td>
<td>Births in Hospital</td>
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<td>b. Female babies</td>
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<td></td>
<td>c. Intersex</td>
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<td>–</td>
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<td>Total deaths (including newborns)</td>
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<td>1,057</td>
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<td></td>
<td>b. Death over 48 hours</td>
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<td>726</td>
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<tr>
<td></td>
<td>c. Gross death rate (%)</td>
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<td></td>
<td>d. Net death rate (%)</td>
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<td>b. Brought dead to casualty</td>
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## APPENDIX II

### Department-wise statistics of inpatients (2007–08)

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<tr>
<th>Department</th>
<th>Admission</th>
<th>Discharges</th>
<th>Days of care</th>
<th>Average length of stay</th>
<th>Total deaths</th>
<th>Deaths under 48 hours</th>
<th>Deaths over 48 hours</th>
<th>Gross death rate %</th>
<th>Net death rate %</th>
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<td>1,297</td>
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<td>119</td>
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<td>106</td>
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<td>34</td>
<td>9</td>
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<td>11</td>
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<td>0.6</td>
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<td>5</td>
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<td>12</td>
<td>0.4</td>
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<table>
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<tr>
<th>Department</th>
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<th>Discharges</th>
<th>Days of care</th>
<th>Average length of stay</th>
<th>Total admissions</th>
<th>Total deaths</th>
<th>Deaths under 48 hours</th>
<th>Deaths over 48 hours</th>
<th>Gross death rate %</th>
<th>Net death rate %</th>
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<td>2,311</td>
<td>773</td>
<td>1,538</td>
<td>4.0</td>
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<td>1,010</td>
<td>284</td>
<td>726</td>
<td>6.8</td>
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<td>Grand Total (Main and CNC)</td>
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**APPENDIX III**
Region-wise distribution of inpatients (2007–08)

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<th>Region</th>
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<th>CNC</th>
<th>Total</th>
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<td>Uttar Pradesh</td>
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<td>Haryana</td>
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<td>9,379</td>
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<tr>
<td>Bihar</td>
<td>5,240</td>
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<td>7,858</td>
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<tr>
<td>Rajasthan</td>
<td>1,184</td>
<td>619</td>
<td>1,803</td>
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<td>Punjab</td>
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<td>Other countries</td>
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<tr>
<td>Total</td>
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<td>18,097</td>
<td>83,852</td>
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</table>
## APPENDIX IV
Gender distribution of inpatients (2007–08)

<table>
<thead>
<tr>
<th>Location</th>
<th>Male</th>
<th>Female</th>
<th>Male child</th>
<th>Female child</th>
<th>Total</th>
</tr>
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<tbody>
<tr>
<td>Main hospital</td>
<td>26,075</td>
<td>24,733</td>
<td>10,174</td>
<td>4,773</td>
<td>65,755</td>
</tr>
<tr>
<td>CNC</td>
<td>9,800</td>
<td>4,265</td>
<td>2,836</td>
<td>1,196</td>
<td>18,097</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>35,875</td>
<td>28,998</td>
<td>13,010</td>
<td>5,969</td>
<td>83,852</td>
</tr>
</tbody>
</table>

## APPENDIX V
Surgical procedures (2007–08)

<table>
<thead>
<tr>
<th>Department</th>
<th>Major</th>
<th>Minor</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>Surgery I</td>
<td>688</td>
<td>2,709</td>
<td>3,397</td>
</tr>
<tr>
<td>Surgery II</td>
<td>980</td>
<td>2,723</td>
<td>3,703</td>
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<tr>
<td>Surgery III</td>
<td>589</td>
<td>1,795</td>
<td>2,384</td>
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<tr>
<td>Surgery IV</td>
<td>850</td>
<td>2,360</td>
<td>3,210</td>
</tr>
<tr>
<td>Gastrointestinal Surgery</td>
<td>427</td>
<td>3</td>
<td>430</td>
</tr>
<tr>
<td>Urology</td>
<td>1,361</td>
<td>9,116</td>
<td>10,477</td>
</tr>
<tr>
<td>Obstetrics</td>
<td>781</td>
<td>520</td>
<td>1,301</td>
</tr>
<tr>
<td>Gynaecology</td>
<td>1,466</td>
<td>1,207</td>
<td>2,673</td>
</tr>
<tr>
<td>Otorhinolaryngology</td>
<td>2,090</td>
<td>24,077</td>
<td>26,167</td>
</tr>
<tr>
<td>Orthopaedics I</td>
<td>1,115</td>
<td>476</td>
<td>1,591</td>
</tr>
<tr>
<td>Orthopaedics II</td>
<td>988</td>
<td>830</td>
<td>1,818</td>
</tr>
<tr>
<td>Paediatric Surgery</td>
<td>1,483</td>
<td>170</td>
<td>1,653</td>
</tr>
<tr>
<td>Dental Surgery</td>
<td>2,525</td>
<td>3,638</td>
<td>6,163</td>
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<td>Casualty</td>
<td>3</td>
<td>6,268</td>
<td>6,271</td>
</tr>
<tr>
<td><strong>Total (Main)</strong></td>
<td>15,346</td>
<td>55,892</td>
<td>71,238</td>
</tr>
<tr>
<td>Cardiothoracic and Vascular Surgery</td>
<td>3,393</td>
<td>–</td>
<td>3,393</td>
</tr>
<tr>
<td>Neurosurgery I</td>
<td>1,180</td>
<td>216</td>
<td>1,396</td>
</tr>
<tr>
<td>Neurosurgery II</td>
<td>1,389</td>
<td>215</td>
<td>1,604</td>
</tr>
<tr>
<td><strong>Total (CNC)</strong></td>
<td>5,962</td>
<td>431</td>
<td>6,393</td>
</tr>
<tr>
<td><strong>Grand Total (Main+CNC)</strong></td>
<td>21,308</td>
<td>56,323</td>
<td>77,631</td>
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</tbody>
</table>
## APPENDIX VI

*Attendance in OPDs and Specialty Clinics (2007–08)*

<table>
<thead>
<tr>
<th>Medical disciplines</th>
<th>New cases</th>
<th>Old cases</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1. Medicine</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>General OPD</em></td>
<td>69,763</td>
<td>63,386</td>
<td>1,33,149</td>
</tr>
<tr>
<td><em>Specialty Clinics</em></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chest</td>
<td>1,803</td>
<td>3,509</td>
<td>5,312</td>
</tr>
<tr>
<td>Rheumatology</td>
<td>442</td>
<td>7,730</td>
<td>8,172</td>
</tr>
<tr>
<td>Geriatric</td>
<td>167</td>
<td>541</td>
<td>708</td>
</tr>
<tr>
<td><strong>2. Paediatrics</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>General OPD</em></td>
<td>29,513</td>
<td>37,698</td>
<td>67,211</td>
</tr>
<tr>
<td><em>Specialty Clinics</em></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Well baby</td>
<td>452</td>
<td>562</td>
<td>1,014</td>
</tr>
<tr>
<td>Follow up TB</td>
<td>225</td>
<td>2,018</td>
<td>2,243</td>
</tr>
<tr>
<td>Renal</td>
<td>633</td>
<td>2,714</td>
<td>3,347</td>
</tr>
<tr>
<td>Neurology</td>
<td>1,374</td>
<td>3,335</td>
<td>4,709</td>
</tr>
<tr>
<td>Chest</td>
<td>667</td>
<td>3,540</td>
<td>4,207</td>
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<tr>
<td>High-risk neonatal</td>
<td>255</td>
<td>1,315</td>
<td>1,570</td>
</tr>
<tr>
<td>Genetic and birth defects</td>
<td>1,329</td>
<td>1,000</td>
<td>2,329</td>
</tr>
<tr>
<td><strong>3. Endocrinology</strong></td>
<td>6,500</td>
<td>15,087</td>
<td>21,587</td>
</tr>
<tr>
<td><strong>4. Haematology</strong></td>
<td>5,147</td>
<td>19,106</td>
<td>24,253</td>
</tr>
<tr>
<td><strong>5. Gastroenterology</strong></td>
<td>16,938</td>
<td>32,307</td>
<td>49,245</td>
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<td><strong>6. Nephrology</strong></td>
<td>6,773</td>
<td>20,115</td>
<td>26,888</td>
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<td>Renal Transplant Clinic</td>
<td>130</td>
<td>5,352</td>
<td>5,482</td>
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<tr>
<td><strong>7. Nuclear Medicine</strong></td>
<td>2,031</td>
<td>8,672</td>
<td>10,703</td>
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<tr>
<td><strong>8. Dermatology</strong></td>
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<td>61,684</td>
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<td>Sexually transmitted diseases</td>
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<td>1,486</td>
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<td>751</td>
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<tr>
<td><em>General OPD</em></td>
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<td>–</td>
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<tr>
<td><em>Specialty Clinics</em></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Walk-in-clinic</td>
<td>10,918</td>
<td>21,823</td>
<td>32,741</td>
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<td>Child Guidance</td>
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<td>371</td>
<td>804</td>
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<tr>
<td>Surgical disciplines</td>
<td>New cases</td>
<td>Old cases</td>
<td>Total</td>
</tr>
<tr>
<td>------------------------------------------</td>
<td>-----------</td>
<td>-----------</td>
<td>-------</td>
</tr>
<tr>
<td><strong>1. General Surgery</strong></td>
<td>35,209</td>
<td>27,481</td>
<td>62,690</td>
</tr>
<tr>
<td><strong>2. Urology</strong></td>
<td>11,845</td>
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<td>36,528</td>
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<td><strong>3. GI Surgery</strong></td>
<td>1,793</td>
<td>5,326</td>
<td>7,119</td>
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<tr>
<td><strong>4. Paediatric Surgery</strong></td>
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<tr>
<td><em>General OPD</em></td>
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<td>12,589</td>
<td>18,985</td>
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<td>Hydrocephalus</td>
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<td>209</td>
<td>238</td>
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<td>Intersex Clinic</td>
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<td>200</td>
<td>221</td>
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<tr>
<td>Urology</td>
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<td>2,797</td>
<td>3,143</td>
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<td><strong>5. Anaesthesia</strong></td>
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<td>Pain</td>
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<td>3,596</td>
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<td>Pre-anaesthesia</td>
<td>8,405</td>
<td>1,620</td>
<td>10,025</td>
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<td><strong>6. Orthopaedics</strong></td>
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<td></td>
<td></td>
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<tr>
<td><em>General OPD</em></td>
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<td>2,00,388</td>
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<td></td>
</tr>
<tr>
<td>Follow up</td>
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<td>7,074</td>
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<tr>
<td>Tuberculosis</td>
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<td>–</td>
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<td>Polio</td>
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<td>7</td>
<td>34</td>
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<td>Scoliosis</td>
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<td>1,500</td>
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<tr>
<td>Hand</td>
<td>631</td>
<td>897</td>
<td>1,528</td>
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<td>Club foot (CTEV)</td>
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<td>716</td>
<td>1,594</td>
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<td>*<em>7. Otorhinolaryngology including RUAS</em></td>
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<tr>
<td><em>General OPD</em></td>
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<td>82,070</td>
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<td>129</td>
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<td>Speech</td>
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<td>1,274</td>
<td>2,512</td>
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<tr>
<td>Hearing</td>
<td>852</td>
<td>1,091</td>
<td>1,943</td>
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<tr>
<td>Voice</td>
<td>699</td>
<td>968</td>
<td>1,667</td>
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<tr>
<td>Vertigo</td>
<td>112</td>
<td>100</td>
<td>212</td>
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<tr>
<td>Rhinology</td>
<td>98</td>
<td>89</td>
<td>187</td>
</tr>
<tr>
<td><strong>8. Obstetrics and Gynaecology</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td><em>General OPD</em></td>
<td>29,426</td>
<td>39,225</td>
<td>68,651</td>
</tr>
<tr>
<td><em>Specialty Clinics</em></td>
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<tr>
<td>Postnatal</td>
<td>75</td>
<td>20</td>
<td>95</td>
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<td>Family welfare</td>
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<td>7,949</td>
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<td>Antenatal</td>
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<td>3,319</td>
<td>3,846</td>
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<tr>
<td>Endocrine</td>
<td>58</td>
<td>163</td>
<td>221</td>
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<tr>
<td>High-risk pregnancy</td>
<td>2,069</td>
<td>11,272</td>
<td>13,341</td>
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<td><strong>9. Radiotherapy</strong></td>
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<td>72,290</td>
<td>74,246</td>
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</table>

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<table>
<thead>
<tr>
<th>Surgical disciplines</th>
<th>New cases</th>
<th>Old cases</th>
<th>Total</th>
</tr>
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<tr>
<td>10. Dental Surgery</td>
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<tr>
<td>General OPD</td>
<td>23,947</td>
<td>21,381</td>
<td>45,328</td>
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<td>Specialty Clinic</td>
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<tr>
<td>Orthodontics</td>
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<td>4,165</td>
<td>6,756</td>
</tr>
<tr>
<td>Combined cleft palate</td>
<td>180</td>
<td>182</td>
<td>362</td>
</tr>
<tr>
<td>Trigeminal neuralgia</td>
<td>314</td>
<td>283</td>
<td>597</td>
</tr>
<tr>
<td>Restorative-cum-endodontic</td>
<td>4,857</td>
<td>4,531</td>
<td>9,388</td>
</tr>
<tr>
<td>Oral prophylaxis</td>
<td>3,355</td>
<td>4,399</td>
<td>7,754</td>
</tr>
<tr>
<td>Prosthodontics-cum-maxillofacial prosthesis</td>
<td>2,274</td>
<td>2,681</td>
<td>4,955</td>
</tr>
<tr>
<td>Others</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Casualty</td>
<td>1,48,632</td>
<td>–</td>
<td>1,48,632</td>
</tr>
<tr>
<td>2. EHS</td>
<td>1,09,351</td>
<td>72,893</td>
<td>1,82,244</td>
</tr>
<tr>
<td>3. Nutrition</td>
<td>2,011</td>
<td>798</td>
<td>2,809</td>
</tr>
<tr>
<td>4. P.M.R.</td>
<td>12,103</td>
<td>10,182</td>
<td>22,285</td>
</tr>
<tr>
<td>5. S.M.C.C.</td>
<td>2,315</td>
<td>2,596</td>
<td>4,911</td>
</tr>
<tr>
<td>Total</td>
<td>7,26,089</td>
<td>8,02,149</td>
<td>15,28,23</td>
</tr>
</tbody>
</table>
6.1 Division of Emergency Medicine

Professor-in-Charge

P.P. Kotwal
(till 21.02.2008)

Praveen Aggarwal
(w.e.f 22.02.2008)

Additional Professor

L. R. Murmu

Associate Professor

Prasoon Shamsherry
Sanjay Kumar Verma (adhoc)

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

The division imparted short term training to 9 undergraduate students from Europe, Australia and USA.

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–2007’ held at Mumbai on 26–30 September 2007. The conference was hosted by Indian Railways. Other collaborating partner was University of South Florida, USA.

Dr Praveen Aggarwal
- ‘Advanced Hazmat Life Support’, 4–6 December 2007 in collaboration with Indian Council of Medical Research, India and Centers for Disease Control and Prevention, USA.

Dr L.R. Murmu
- Ultrasound Course for Emergency Physicians, 17–20 January 2008, AIIMS in collaboration with SUNY Downstate University and University of South Florida, USA.

Dr Prasoon Shamsherry
- AO Basic Course of Trauma, September 2007, Delhi.

Lectures delivered

Dr Praveen Aggarwal
- ‘Poisoning in India—Problems and Solutions’, University of South Florida, Tampa, USA, June 2007.
• ‘Emergency and Trauma Care in India’, Indo-US Joint Workshop on Road Map for Trauma System Development in India, Indian Council of Medical Research, and Centers for Disease Control, Atlanta, USA 27–28 February 2008, Agra.

Dr L.R. Murmu
• ‘Emergency Medicine Laws in India’, University of South Florida, Tampa, USA, June 2007.

Dr Sanjay Verma

PUBLICATIONS

Journals

Book

Chapters in Books

PATIENT CARE
The patient load catered to by the Emergency Services in 2007–08 was:
Average number of patients 12,500/month Total: 1,48,632
Emergency stat laboratory tests 1,500/month Total: 18,000

AWARDS, HONOURS AND SIGNIFICANT EVENTS
Dr Praveen Aggarwal and Dr L.R. Murmu were presented ‘Award of Special recognition for Contribution towards Development of Academic Emergency Medicine in India’ by His Excellency Honorable Governor of Maharashtra on 29 September 2007 at Mumbai; were invited by TEAMHealth (USA’s largest provider of hospital-based clinical outsourcing) to attend a Leadership Course at Fort Lauderdale, Florida, USA; also invited by Department of Emergency Medicine, University of South Florida, USA to review their emergency medicine residency program in May–June 2007; delivered guest lectures on emergency care in India at Florida.

To promote the specialty of Emergency Medicine in India, an Academic Council of Emergency and Trauma (ACET) has been formed. This Council includes a group of faculty from MCI recognized medical colleges in India and is trying to establish and promote the idea of emergency medicine in India. This Council is led by faculty from the Division of Emergency Medicine, AIIMS and Department of Emergency Medicine, University of South Florida, USA.

To provide educational exchange in emergency medicine, EM-TECH (Emergency Medicine and Trauma Education Center For Health) was launched in 2007. It will promote education and skills in emergency medicine via accredited workshops, symposia and training courses. The Advanced Hazmat Life Support (AHLS) and Ultrasound for Emergency Physicians Courses were organized as a part of the EM-TECH programme.

VISITING SCIENTISTS
1. Dr Vikas Kapil, Chief, Surveillance and Registries Branch, Agency for Toxic Substances and Disease Registry, Centers for Disease Control and Prevention, Atlanta, USA
2. Dr Arunabha Nandi, Emergency Medicine, Bronox, New York

<table>
<thead>
<tr>
<th>6.2 Hospital Dietetics Services</th>
</tr>
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<tbody>
<tr>
<td><strong>Chief Dietician</strong></td>
</tr>
<tr>
<td>Parmeet (Acting)</td>
</tr>
<tr>
<td><strong>Dietician</strong></td>
</tr>
<tr>
<td>Swapna Chaturvedi</td>
</tr>
<tr>
<td><strong>Asstt. Dietician</strong></td>
</tr>
<tr>
<td>Gurdeep Kaur</td>
</tr>
<tr>
<td>Richa Jaiswal</td>
</tr>
<tr>
<td>Vasundhara Singh</td>
</tr>
<tr>
<td>Anjali Bhola</td>
</tr>
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</table>

Number of indoor patients served different diets
<table>
<thead>
<tr>
<th>Diet Type</th>
<th>Number of Patients</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal</td>
<td>3,30,258</td>
</tr>
<tr>
<td>Semisolid diets</td>
<td>31,266</td>
</tr>
<tr>
<td>Therapeutic diets</td>
<td>1,41,534</td>
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<td>Total Enteral feeds</td>
<td>36,758</td>
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<td>Total Private ward diet</td>
<td>84,881</td>
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Nutrition Clinic: Outpatients

<table>
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<th>Category</th>
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</tr>
</thead>
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<tr>
<td>Total Old patients</td>
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</tr>
<tr>
<td>Males</td>
<td>525</td>
</tr>
<tr>
<td>Females</td>
<td>268</td>
</tr>
<tr>
<td>Total New patients</td>
<td>1,948</td>
</tr>
<tr>
<td>Males</td>
<td>1,117</td>
</tr>
<tr>
<td>Females</td>
<td>831</td>
</tr>
</tbody>
</table>

6.3 Medical Social Welfare Unit

Medical Social Welfare Services were organised in various OPDs., wards, clinics and Casualty by the present strength of 2 Chief Medical Social Service Officers, 1 Supervising Medical Social Service Officer; 2 Medical Social Service Officers Grade I; 5 Medical Social Service Officers Grade II and 16 part-time social guides.

This unit provides central services in the form of guidance to patients, financial assistance from the Poor Fund, exemption of levy charges to poor and indigent patients, counselling, accommodation in the dharamshala for outstation patients, adoption of orphans, coordination regarding these activities in different departments and centres, and helping patients obtain railway concession.

During peak hours, this unit provides guidance and counselling to patients and tries to resolve any small grievances on the spot. This assists in smooth running of the OPDs. The average number of patients requiring guidance, referral slips and counselling in all OPDs including emergency services is about 2,900 every day. To achieve this, part-time social guides are deployed at important places such as the main enquiry counter, X-ray counter, Emergency, Blood collection centre as well as the OPD counters on five floors.

Counselling
Over 39,700 cases were given counselling and information about their diagnosis, prognosis and treatment after discussion with concerned doctors.

Over 6,500 cases were given special counselling and case work services. Services were also offered to solve their social, emotional and psychosomatic problems which come in the way of achieving best results of treatment. Patients were also motivated and helped for regular follow up whenever required. Sixty-eight home visits were made and 410 cases were informed through phones and telegrams.

Rehabilitation services
Over 840 destitute/unknown/unattended/road accident patients were rehabilitated in different rehabilitation centres under Delhi Administration and other welfare institutions as well as their homes.

Thirty patients were rehabilitated by helping them in getting jobs or work avenues. Five wheelchairs, 2 tricycles, 12 sewing machines, 55 crutches and 10 weighing machines were given to poor and needy patients. Twenty unwed mothers were rehabilitated in other agencies till their delivery as their parents were unable to keep them at home.
About 6000 senior citizens were provided special help in OPDs and laboratories.

**Financial assistance**
A total of Rs 69,804 was given to 228 poor patients from the ‘Fund for Poor Patients’ provided by the hospital authorities. A large number were helped from other sources such as donations from philanthropic organizations for very expensive drugs and appliances such as crutches, wheel chairs, hearing aids, etc. Help was also extended for food, travel and funeral to a large number of cases.

Over 250 patients were given blankets and clothes. A large number of patients were referred to Ali Yaver Jung Institute for the Hearing Handicapped. Over 20 patients were given colostomy bags.

A total of 593 patients were provided expensive chemotherapy drugs costing Rs 4,12,647 with the help of the Cancer Patients Aid Association and worth over Rs 2 lakhs from other associations. Besides this many other articles like books, radios, chocolates, sweets, fruits and tape recorders were distributed among poor patients with cancer by the Cancer Patients Aid Association.

Medicines worth over Rs 25,000 from a philanthropic organization (Sewa Prakalap Mahila Mandal Trust), for full course of antituberculosis medicine, were distributed to patients suffering from tuberculosis of any site other than chest. Over 125 urograффin vials costing nearly Rs 22,500 were given to poor patients from donations.

Over 200 patients were motivated and guided to obtain necessary financial help from the Prime Minister’s and Health Minister’s Discretionary Fund. A large number of patients got grants worth over Rs 30 lakhs. Food was provided to over 2,500 poor patients.

**Railway concession facilities**
Over 15,000 cases suffering from cancer, tuberculosis, leprosy etc. were helped in obtaining railway concession facilities for journeys to and from AIIMS. A similar facility was also provided to deaf and dumb patients.

**Accommodation**
Nearly 2,250 patients and their attendants who came from outside Delhi were helped in obtaining accommodation in different dharamshalas in the vicinity of the hospital at cheaper rates.

**Exemption of levy charges**
Over 2,500 indigent and poor patients were exempted from payment of different types of investigations and admission charges.

**Referral**
About 1,200 patients with pulmonary tuberculosis and other diseases were referred to different TB hospitals/clinics of respective areas for treatment and issuance of drugs. Also over 25,000 patients were referred from the Casualty to other hospitals.

**Blood donation camps**
Organized 3 blood donations camps in association with philanthropic organizations and collected over 170 units of blood.

**Hepatitis B vaccine**
In association with a philanthropic organizations, 3 doses of vaccine for prevention of hepatitis B were administered to over 325 children of a slum area.
Health education
Activities were conducted in children’s surgical and gynaecological wards with the help of students of Social Work and National Service Scheme (NSS) workers on maintenance of personal hygiene, balanced nutrition, health and family welfare, and preoperative and postoperative care.

Festivals such as Diwali, Rose Day and Christmas were celebrated in the wards and Puppet shows were organised for children admitted to the hospital. Toys were distributed in the children’s surgical ward on Good Friday.

Special help
Over 500 poor indoor patients were provided life saving drugs/medicines worth a few lakhs from the medical stores/local purchase after proper scrutiny by Medical Social Service Officers.

Training and teaching

Mr B.R. Shekhar, Supervising MSSO attended workshop and seminar organized by KCDAT on Dual Diagnosis in UK, 24–31 July 2007.

Ms Gurmit Kaur, MSSO Grade I attended workshop on Rehabilitation of Unknown Babies, AIIMS, 14 February 2008.

Orientations were given to the visitors from various organizations. Besides this about 35 NSS volunteers from various schools and colleges were also given orientation in dealing with patients and hospital-related problems.

Two postgraduate students of MSW from the Department of Social Work, Delhi; 2 undergraduate students from Aditi College; 3 undergraduate students from Ambedkar College, Delhi University; 2 postgraduate students from Bishop Vayalit Memorial Holy Cross College, Kerala; and 3 postgraduate students from St. Joseph College, Devagiri, Kerala were given on-the-job/field work training in Medical Social Services under close supervision during this period. A team of 80 students from various institutions were given on job training/orientation ranging from 1–15 days.

6.4 Hospital Billing Section
The amount received as donation and payments made to patients during 2007–08 are as follows:
Total sum available from donations, poor fund boxes and bank interest Rs 3,28,372
Payments made to (69+159) patients Rs 69,804

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

6.5 Hospital Laundry
The mechanized laundry is providing services to all departments in the main hospital, Dr R.P. Centre for Ophthalmic Sciences, Dr B.R. Ambedkar Institute Rotary Cancer Hospital, and the Cardiothoracic and Neurosciences Centre.
The laundry was visited by several batches of hospital administrators attending courses at the National Institute of Health and Family Welfare and by several teams of doctors from other hospitals in the country. These visits helped participants to gain first hand knowledge of the mechanized laundry with a view to starting a similar system in their own hospitals.

Workload during 2007–08
1. Total pieces processed 52,77,497
2. Total weight (kg) 16,23,639
3. Total cost of washing material (Rs) 14,68,227
4. Cost of washing material per piece (Rs) 0.2782
5. Cost of washing material per kg of linen (Rs) 0.9042

6.6 Blood Bank (Main Hospital)

ACTIVITIES
Blood collection in donor room
1. Total relative donors 23,417
2. Total voluntary donors 6,663
   From Donation camps 6,099
   From AIIMS blood bank 564
   From Mobile donation Nil
3. Collected from CNC 1,219
4. Indian Red Cross Society 166
5. Others 479
   Total 31,944

Camps organized 83

Routine laboratory
1. Total patients 42,459
2. Total ABO grouping 1,06,347
3. Total Rh 74,403
4. Total OPD grouping and Rh 3,903
5. Total cross-match (emergency and routine) 58,774
6. Total donor grouping 63,888
7. Total ICT 914
   ICT positive 195
8. Total titre 183
9. Total A/B 38,556
10. Total DCT 411
    DCT positive 21
11. Total blood issued (units) 32,334
12. Total received back (units) 533
13. Total small units 352
14. Total blood discarded (units) 367
15. Blood issued but not transfused (units) 0
16. Total blood issued to private ward (units) 2,473  
17. Total component issued to private ward (units) 2,444  
18. Total blood issued to outside hospitals (units) 1,397  
19. Total components issued to outside hospitals (units) 213  
20. Total cross-match but not transfused (units) 9,041  
21. Blood issued to IRCH (units) 3,334  
   Indian Red Cross Society 151  
   CNC 91  
   Total 4,41,104

Special procedure laboratory  
1. Minor grouping 343  
2. Platelet antibody. 80  
3. Reagent cell thawing 720  
4. Cell freezing Nil  
5. DAT 17  
6. Cross-matching discrepancy 95  
7. Group discrepancy 5  
8. AB screening 53  
9. Blood thawing Nil  
   Total 1,313  
10. Infection marker QC 212  
11. Antisera QC 76  
12. EQAS 4  
13. Component QC 326  
   Total 618

Component laboratory  
1. Platelet rich concentrate 23,688  
2. Fresh frozen plasma 17,881  
3. Liquid plasma 11,803  
4. Cryoprecipitate 600  
5. Red blood cells 28,984  
6. Single donor platelet pheresis (SDP) 31  
7. Plasmapheresis 5  
   Total components prepared 82,292  
8. Platelet pheresis (IRCH) 1,243  
9. Stem cell (IRCH) 166

Infection laboratory  
1. HIV test 44,441  
2. HBV test 39,503  
3. Anti-HBc test 39,209  
4. HCV test 39,828  
5. VDRL 37,885  
   Total 2,00,866
## Patients Welfare/Care: Rs. 79,40,000/- (approx.) raised as donation

<table>
<thead>
<tr>
<th>Purpose</th>
<th>Donation (Rs)</th>
<th>Donor</th>
</tr>
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<tbody>
<tr>
<td>For treatment and surgery of poor and needy patients undergoing treatment in the Main Hospital &amp; Centres</td>
<td>8,49,700</td>
<td>Shri Sai Bhakta Samaj (Regd.)</td>
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<tr>
<td></td>
<td>4,18,000</td>
<td>Indo Global Social Service Society</td>
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<td>4,77,250</td>
<td>Handicapped Children’s Rehabilitation Association</td>
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<td>1,67,000</td>
<td>Jawahar Bhawan Trust</td>
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<td>1,13,000</td>
<td>Sahu Jain Trust</td>
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<td></td>
<td>1,07,000</td>
<td>Times of India Relief Fund</td>
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<td>1,00,000</td>
<td>Shakti Sewa Samiti</td>
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<td>90,000</td>
<td>Rajendra Bhawan Trust</td>
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<td></td>
<td>76,000</td>
<td>Sewa Prakalp Mahila Mandal Trust</td>
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<td>85,000</td>
<td>Other Charitable Trusts</td>
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<td>Individual Donors</td>
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<td></td>
<td>24,000</td>
<td>Vijaya Gujral Foundation</td>
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<td>AIIMS Poor Fund Account</td>
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<td>Sahu Jain Trust</td>
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<td></td>
<td>11,000</td>
<td>Shri Anshuman Bhalla</td>
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<tr>
<td></td>
<td>10,000</td>
<td>Smt. Surjeet Kaur</td>
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<tr>
<td></td>
<td>5,000</td>
<td>Shri V.B.M. Mathur</td>
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<td></td>
<td>2,000</td>
<td>Smt. Bimla Devi</td>
</tr>
<tr>
<td></td>
<td>2,100</td>
<td>Smt. Vimmi Bhutani</td>
</tr>
<tr>
<td>Anti-Cancer drugs provided free to cancer patients</td>
<td>36,76,223</td>
<td>Gopal Foundation</td>
</tr>
<tr>
<td>Portable Whole Body Colour Doppler System received as donation for the Casualty Folding Wheelchairs</td>
<td>15,00,000</td>
<td>Smt. Swarn Kapur</td>
</tr>
<tr>
<td></td>
<td>21</td>
<td>USTA</td>
</tr>
</tbody>
</table>

In addition, patients living below the poverty line were assisted to avail of financial assistance for their treatment from Rashtriya Arogya Nidhi, P.M. National Releif 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 helped for admission, exemption of levy charges and 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 16,000 patients and their attendants who were undergoing treatment at the Institute and it’s Centres. In special cases, food was arranged for the needy poor patients/attendants who were staying in the Vishram Sadan through individual donors namely Smt. Amrit Sharma & Shri K.K. Sureka.

Sapna, (NGO) is also distributing dry ration on a weekly basis to approx. 50 patients who are below the poverty line. In addition, half a litre milk was also distributed every day to approx 80-90 patients of the Sadans. Holi was celebrated with the inmates of the Sadans by Cancer Patients Aid Association.

Employees’ Welfare
Appointment on compassionate grounds
Cases for appointment 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 also provided to the relatives of the deceased employees.

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

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

Free Hearse Van Facility
This facility is organized through Shri Sai Bhakta Samaj (Regd.) to enable 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 Shooting Ball Team won the Inter-Ministry Shooting Ball Championship.

Diwali Celebration
Mrs. Vimmi Bhutani celebrated Diwali with the children of our employees studying in the Nursery & Primary School being run by Medical Institute Residents Welfare Association (MIRWA). Cardigans and Sweets were distributed on this occasion.
# 7. College of Nursing

<table>
<thead>
<tr>
<th>Principal</th>
<th>Manju Vatsa</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecturers</td>
<td></td>
</tr>
<tr>
<td>Meena Agarwal</td>
<td>Sandhya Gupta</td>
</tr>
<tr>
<td>Ashia Qureshi</td>
<td>Deepika C. Khakha</td>
</tr>
<tr>
<td>Senior Nursing Tutor</td>
<td>Geeta Razdan</td>
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<tr>
<td>Nursing Tutors</td>
<td></td>
</tr>
<tr>
<td>M. Sharma</td>
<td>Kiran Singh Simak</td>
</tr>
<tr>
<td>(Retired in January 2008)</td>
<td>Poonam Joshi</td>
</tr>
<tr>
<td>Shashi Mawar</td>
<td>Babita Sahoo</td>
</tr>
</tbody>
</table>

## EDUCATION

### Undergraduate

Forty-nine students graduated from the four-year BSc (Hons) Nursing course, while 18 graduated from the two-year BSc Nursing (Post-certificate) course.

### Postgraduate

* **MSc Nursing**: 14 students graduated from the two-year MSc Nursing course. Twelve students have joined the programme 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

### Continuing Nursing Education (CNE)

1. The College of Nursing has organized the following short-term courses/symposia/workshops (CNE programmes).
   - A two-day workshop on ‘Substance use disorder nursing’, October 2007 for 19 nursing personnel from NDDTC, AIIMS. Coordinator: Sandhya Gupta.
• ‘Neonatal Nursing Update’, November 2007; 28 nurses from AIIMS attended the update. Coordinator: P. Joshi.
• Symposium on ‘Integrated approach to healthy living’ held on Annual day of the College. Nurse participants from AIIMS attended the programme. Coordinator: Sandhya Gupta.
• Three months ‘Clinical Training Programme’ was organized for 3 nursing personnel from Myanmar on WHO fellowship.

2. The College of Nursing also conducted orientation/briefing sessions for:
• One group of visitors from abroad and 10 groups of visitors from various educational institutions from India.
• WHO fellows from National Institute of Health and Family Welfare (Nursing services administration).

3. Faculty members of the college attended 21 workshops/conferences and delivered 65 lectures for 35 continuing nursing/medical education programmes and workshops during the year.

CLINICAL AND COMMUNITY SERVICES
(Participation by Faculty and Students)
1. Participated in outdoor and indoor patient care activities of all clinical departments of the Institute.
2. Participated in six rounds of Pulse Polio programmes at 45 centres of South Delhi, organized by Government of NCT of Delhi. Kiran Singh coordinated and supervised the programme.
3. One hundred health education sessions each in rural areas and urban slums and OPDs of AIIMS on various health issues such as hygiene, HIV/AIDS, prevention and treatment of upper respiratory infection, diarrhoeal diseases, tuberculosis, family welfare, female infanticide, prevention of household accidents in children, prevention of obesity, etc.
4. Street plays (10) and exhibitions on various health-related topics for urban slums.
5. New-born week was celebrated in November 2007. On-the-spot poster competition (inter-college), quiz competition (inter-class) and neonatal nursing CME were organized on the occasion. Dr Manju Vatsa, and Ms Poonam Joshi, coordinated the activities. Well baby show was organized in NGO ‘Mobile Creche’ in collaboration with Centre for Community Medicine.
6. National Mental Health Week was organized from 4–10 October 2007. In addition, symposia, exhibitions, street plays, counselling and screening/referral was done at AIIMS OPD for general public. Health education and awareness programme was taken up at the National Drug Dependence Treatment Centre at Trilokpuri. Ms Sandhya Gupta was the coordinator.
7. Two community mental health educational programmes were organized by Ms Sandhya Gupta and nursing students in the Trilokpuri area.
PUBLICATIONS

Journals

Abstracts

Chapters in Books

Books

AWARDS AND HONOURS
Dr Manju Vatsa was awarded the WHO Fellowship for ‘Ageing’ to Khon Kaen University, Thailand for 1 month; nominated Member, Faculty of Nursing, Baba Farid University of Health Sciences, Faridkot, Punjab; nominated Founder President of ‘Indian Association of Neonatal Nurses’.
Ms Deepika Khakha was awarded Fellowship in ‘Advanced AIDS International Training Research Programme’, University of California Los Angeles (ULCA), USA for three months; awarded AIIMSONIANS of AMERICA Award for Best Research at 35th Convocation, October 2007.

Ms Shashi Mawar was awarded AIIMSONIANS of AMERICA Award for Best Research at 35th Convocation, October 2007.

CONSULTANCY AND PARTICIPATION AS EXPERT

1. Dr Manju Vatsa participated as core group member of PhD Consortium in India coordinated by the Indian Nursing Council and (i) took teaching sessions for PhD scholars through video-conferencing and (ii) continued as guide for 6 PhD scholars for consortium for PhD in nursing, Indian Nursing Council and Rajiv Gandhi University for Health Sciences; Member of the Indian Nursing Council and its executive and education committees as (i) Expert for revision of MSc Nursing curriculum and (ii) Development of curriculum of Nurse Practitioner’s course.


3. Dr Manju Vatsa was an expert member for National Task Force on Strategies for Development of Nursing Sector during X and XI Plan, Ministry of Health and family Welfare Government of India; Technical Resource Group on HRD for technical support for capacity-building and HR planning and development. NACO - Phase III; Development of National Maternal Health Policy, Government of India, Ministry of Health and Family Welfare, Maternal Health Division; Revision of MTP Act, Ministry of Health, Government of Indian; Review of three month’s Speciality Programme of Ministry of Health, Government of India; Strengthening of Pre-service education of ANM, GNM as Skilled Birth Attendant. Indian Nursing Council.

4. Dr Manju Vatsa, Ms Sandhya Gupta and Ms Deepika Khakha participated as experts for (i) Development of ‘Training Manual for Nurses for Trainers and Nursing Personnel in HIV/AIDS’ organized by the Indian Nursing Council, NACO and Clinton Foundation; (ii) Two-day training programme for trainers for HIV modules organized by the Indian Nursing Council; and (iii) from SEARO, India at the launch of Mental Health Atlas by WHO, Geneva, 15 September 2007.

5. Dr Manju Vatsa and Ms Sandhya Gupta continue to be on the review panel of Indian Journal of Nursing and Midwifery and were members of organizing committee, National Conference on Emerging Trends in Medical Education, organized by CMET in collaboration with FAIMER in 2007.

6. Ms Sandhya Gupta was nominated as Chairperson for the scientific sessions for Seventh National Conference of Indian Society of Psychiatric Nurses held in Cochin, Kerala in February 2008; nominated Chief Editor, Indian Society of Psychiatric Nurses (2007 onwards); nominated Organising Secretary, Second International Conference of Indian Society of Psychiatric Nurses to be held in 2009.

8. Ms Kamlesh Sharma was National Coordinator for workshop on ‘Kangaroo Mother Care and Lactation Management’ at the 6th International Conference of Neonatal Nursing, National Neonatology Forum, September 2007; technical expert for orientation of assessors for ANM training schools in Kolkata, Bhopal and Bhubaneswar in 2007 organized by Indian Nursing Council.

9. Ms Kiran Singh is continuing as Programme Officer of NSS Unit, AIIMS

10. Faculty members were resource persons/committee members for the following organizations:
   - 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, Government of India
   - Rajkumari Amrit Kaur College of Nursing
   - Adjunct faculty, CMET, AIIMS
   - National Medical Library, Book Selection Committee
   - 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
   - University of Delhi: Inspection for Grant of Affiliation to LHMC College of Nursing
   - Kumaon University: Board of Studies
   - IP University: Inspections, College of Nursing of Batra Hospital and St Stephen Hospital
   - Public Service Commission: UP, Allahabad
   - SGPGIMS, Lucknow: Selection Committee
   - BR Ambedkar University, Agra

11. Faculty members of the College participated in conduct of inspections and examinations in various colleges of nursing and universities in India.
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 381 ongoing projects and initiated 110 new projects. These were funded by national and international agencies and the total funding amounted to nearly Rs 46 crores.

This section deals with the administration of all the extramural research conducted at AIIMS. The Research Committee constituted by the Director is as follows:

1. Professor R.C. Deka, Dean (Academic) Chairperson
2. Dr P.P. Kotwal, Professor of Orthopaedics and Professor-in-Charge (Research Section) Vice-Chairperson
3. Dr Sunil Chumber, Sub-Dean (Academic) Member
4. Dr A.K. Dinda, Sub-Dean (Exam) Member
5. Deputy Director (Admn) Member
6. Dr G.K. Rath, Professor and Head of Radiotherapy and Chief, IRCH Member
7. Dr N.K. Mehra, Professor and Head of T.I.I. Member
8. Dr S.K. Panda, Professor and Head of Pathology Member
9. Dr N.R. Jagannathan, Professor and Head of NMR Member
10. Dr A. Malhotra, Professor and Head of Nuclear Medicine Member
11. Dr Subrata Sinha, Professor and Head of Biochemistry Member
12. Dr V.K. Bahl, Professor and Head of Cardiology Member
13. Dr R.M. Pandey, Professor and Head of Biostatistics Member
14. Dr Kameshwar Prasad, Professor of Neurology Member
15. Dr S.P. Garg, Professor of Ophthalmology Member
16. Dr Shobha Broor, Professor of Microbiology Member
17. Dr R. Guleria, Professor of Medicine Member
18. Dr J.S. Tyagi, Professor of Biotechnology Member
19. Dr Nikhil Tandon, Professor of Endocrinology and Met. Member
20. A Representative of the ICMR, to be nominated by DG, ICMR Member
21. Financial Adviser Member
22. Sh. S.P. Mahla, Finance and Chief Accounts Officer (Res) Member
23. Sh. K.C. Chhoker, Sr. Administrative Officer (Res) Member-Secretary
24. A Representative of SYS Member
### Ongoing research projects funded by Indian agencies

<table>
<thead>
<tr>
<th>Investigator</th>
<th>Project</th>
<th>Funding agency</th>
<th>Funds (Rs)</th>
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<tbody>
<tr>
<td>Anatomy</td>
<td></td>
<td></td>
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<tr>
<td>Rani Kumar</td>
<td>Role of cell cycle regulatory genes in breast cancer patients</td>
<td>DBT</td>
<td>3,03,963</td>
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<td>on hormonal therapy</td>
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<td>Rima Dada</td>
<td>Analysis of mitochondrial DNA mutations in pathogenesis of spermatogenic arrest</td>
<td>ICMR</td>
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<td>Rima Dada</td>
<td>Genomic diversity in five ethnic groups of Rajasthani population</td>
<td>DBT</td>
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<td>Shashi Wadhwa</td>
<td>Influence of prenatal auditory stimulation on the development of synaptic proteins brain derived neurotrophic growth factor and spatial memory in chick hippocampus</td>
<td>DBT</td>
<td>2,12,035</td>
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<td>Biochemistry</td>
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<tr>
<td>D.N. Rao</td>
<td>Developing new generation peptide based vaccine using F1 and V antigens of <em>Yersinia pestis</em> (Plague)</td>
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<td>D.N. Rao</td>
<td>To evaluate the correlation between levels of cytokines</td>
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<td></td>
<td>(IL-6, IL-8, IL-10) in seminal plasma in different groups of infertile men and correlation with sperm morphology functions and bacteria infection in semen</td>
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<tr>
<td>D.N. Rao</td>
<td>Immunocapture based diagnostic assay for the detection of <em>Plasmodium falciparum</em> HRP-2 and LDH antigen</td>
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<td>6,88,200</td>
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<td>D.N. Rao</td>
<td>Development of defensin(s) as a mucosal adjuvant/ microbicide with peptide antigens of HIV</td>
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<td>1,22,928</td>
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<td>D.N. Rao</td>
<td>T reg cells and other negative regulatory elements of IL-2 in leprosy patients</td>
<td>ICMR</td>
<td>6,55,949</td>
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<tr>
<td>D.N. Rao</td>
<td>Development defensin(s) as a mucosal adjuvant/ microbicide with peptide antigens of HIV</td>
<td>DBT</td>
<td>7,22,860</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>Kalpana Luthra</td>
<td>Differential cell response of goat granulose cell to LH or hCG stress in cell culture system. To analyze the signal transduction pathway in the two.</td>
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<td>2,68,564</td>
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<td>Kalpana Luthra</td>
<td>Genetic polymorphism of cholesterol ester transfer protein in hyperlipidaemic patients: A case–control study.</td>
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<td>3,38,314</td>
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<td>M.R. Rajeswari</td>
<td>Proteomic analysis of outer membrane of <em>Acinetobacter baumanii</em> and its resistant strains</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.</td>
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<td>4,57,034</td>
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<td>N.C. Chandra</td>
<td>An <em>in vitro</em> 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>N.C. Chandra</td>
<td>Studies on the possible development of hyperlipomia by oral contraceptives: An <em>in vitro</em> model</td>
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<td>Neeta Singh</td>
<td>A study of molecular and biological factors in pathogenesis of ovarian cancer</td>
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<td>Neeta Singh</td>
<td>Mitochondria in apoptosis and human cancer</td>
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<td>Neeta Singh</td>
<td>Development of HPV vaccine prototype</td>
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<td>Neeta Singh</td>
<td>Development of human papilloma virus vaccine proto-types- Molecular epidemiology of HPV types prevalent in India and identification of HPV-16 L1 and E6 variants</td>
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<td>Nibhriti Das</td>
<td>Expression and modulation of complement receptors: Significance in the pathophysiology and prognosis of autoimmune disorders</td>
<td>CSIR</td>
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<td>Nibhriti Das</td>
<td>Evaluation of the role of free radical homeostasis cell adhesion molecules, nitric oxide, HDL and associated gene polymorphisms in relation to the risk and severity of coronary artery disease</td>
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<td>5,53,924</td>
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<td>P. Chattopadhyay</td>
<td>Effect of tumour-specific HSP 90 inhibitor, Geldanamycin, on CpG island methylation and survival of hypoxic glial tumour cell lines</td>
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<td>P. Chattopadhyay</td>
<td>Hypoxia and CpG island methylation of selected loci in tumor cell genome: Modulation of methylation and subsequent effects on cell proliferation and chemotherapeutic response</td>
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<td>6,61,972</td>
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<td>Ranju Ralhan</td>
<td>Functional analysis and clinical significance of novel molecular targets in cytoskeleton reorganization and locoregional spread of oral cancer using proteomics</td>
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<td>S.S. Chauhan</td>
<td>Characterization of the positive regulatory region of the first exon of human Cathepsin L gene</td>
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<td>Subrata Sinha</td>
<td>Interaction of DNA repair genes and p53 in determining the cellular response to genotoxic agents in glial tumor cell lines</td>
<td>DST</td>
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<td>Subrata Sinha</td>
<td>Funds for improvement of S&amp;T infrastructure (FIST)</td>
<td>DST</td>
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<td>Subrata Sinha</td>
<td>Generation and characterization of phage displayed recombinant antibodies to biochemically and immunologically relevant epitopes of the onco-developmental antigen heat stable alkaline phosphatase</td>
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<td>Subrata Sinha</td>
<td>Ligand based selection from combinatorial libraries for generating recombinant antibodies to the placental (oncofoetal) isozyme of alkaline phosphatase: Characterization and validation in clinical cancers</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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**Biomedical Engineering Unit**

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<tr>
<td>J.C. Bhardwaj</td>
<td>Reversibility of injectable intravasal contraceptive for the male: Technology development and multicentric non-human primates study</td>
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<td>J.C. Bhardwaj</td>
<td>Study of fallopian tube function with luminal implant</td>
<td>Markansas Research Division</td>
<td>2,46,341</td>
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<td>A. Srinivasan</td>
<td>Infrastructural support for clinical proteomics</td>
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<td>A.Srinivasan</td>
<td>Proteomics of human body fluids: Structural characterization of proteins and target identifications for diagnosis and drug discovery</td>
<td>DBT</td>
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<td>Krishna Dalal</td>
<td>Improvement of S &amp; T infrastructure in universities and higher education institutions (FIST)</td>
<td>DST</td>
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<td>Krishna Dalal</td>
<td>A randomized clinical trial on the effect of reflexology in the management of patients suffering from diabetic neuropathy: Case studies</td>
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<td>Krishna Dalal</td>
<td>Randomized clinical trial (RCT) of reflexology therapy and usual drug treatment in the management of intractable epilepsy</td>
<td>CCRYN</td>
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<td>Nagendra Singh/T.P. Singh</td>
<td>Structure based rational drug design for inflammation, arthritis and rheumatism using phospholipase A-2 (PLA-2), cyclooxygenase-2 (COX2) and lipooxygenase as target macromolecules</td>
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<td>Punit Kaur</td>
<td>Three dimensional structure determination of disintegrin from venom of Indian saw scaled viper by X-ray diffraction method and structure and function relationship with its complex with integrin</td>
<td>CSIR</td>
<td>1,12,500</td>
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<td>Punit Kaur</td>
<td>Setting up bioinformatics centre at AIIMS, New Delhi</td>
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<td>14,06,550</td>
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<td>Savita Yadav</td>
<td>Purification, crystallization and structure determination of disintegrin and integrin–disintegrin complex</td>
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<td>Sharmistha Dey</td>
<td>Structure based rational drug design: Development of specific anti-inflammatory agents using phospholipase A2 and cyclooxygenase-2 as target enzymes</td>
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<td>Sharmistha Dey</td>
<td>Design, synthesis and evaluation of inhibitors of lipooxygenase as anti-inflammatory agents</td>
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<td>Sujata Sharma</td>
<td>Search of a magic drug: Isolation, purification, crystallization and three-dimensional structure determination of the functional c-lobe and antimicrobial peptides of lactoferrin and their applications in antimicrobial drug discovery</td>
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<td>Sujata Sharma</td>
<td>Structural studies of signalling proteins expressed during involution/breast cancer and ligand design</td>
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<td>Sujata Sharma</td>
<td>Determination of amino acid sequence and three-dimensional structure of phospholipase A2 from Indian red scorpion</td>
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<td>Sujata Sharma</td>
<td>Isolation and three-dimensional structure determination of the novel signaling protein SPX-40 from mammary gland secretion during involution</td>
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<td>Sujata Sharma</td>
<td>Clinical proteomics: Structural and functional studies of proteins present in pleural fluid</td>
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<td>T.P. Singh</td>
<td>Distinguished Biotechnologist Award</td>
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<td>R.M. Pandey</td>
<td>Development of appropriate prevention and intervention strategies for non-communicable nutrition related disorders among women in post-reproductive period</td>
<td>DST</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>S.N. Dwivedi</td>
<td>Multilevel epidemiological analysis to assess the role of community level effects on public health/family welfare</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>H.K. Prasad</td>
<td>Study of transmission of livestock derived pathogenic mycobacteria and its prevalence among humans (Zoonotic tuberculosis)</td>
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<td>J.S. Tyagi</td>
<td>Isolation identification and characterization of peptides that interact with two component system proteins devR and RC 2027c of <em>Mycobacterium tuberculosis</em></td>
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<td>10,718</td>
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<td>J.S. Tyagi</td>
<td>Evaluation of devR mutant of <em>Mycobacterium tuberculosis</em> in animal model of tuberculosis and in cultured bacilli: Virulence and gene expression analysis.</td>
<td>DBT</td>
<td>12,76,820</td>
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<td>J.S. Tyagi</td>
<td>High throughput PCR assays for diagnosing tuberculosis caused by <em>Mycobacterium tuberculosis</em> and <em>Mycobacterium bovis</em> using molecular beacons</td>
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<td>Y.D. Sharma</td>
<td>Malaria vaccine related field studies in Jabalpur India</td>
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<th>Cardiac Anaesthesiology</th>
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<td>Poonam Malhotra Kapoor</td>
<td>Myocardial preconditioning against infarction in patients undergoing coronary artery bypass surgery: A comparison of isoflurane and sevoflurane</td>
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<td>R. Lakshmy</td>
<td>Recovery and stability of routine chemistry analytes and enzymes from serum/whole blood spotted on filter paper</td>
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<td>42,117</td>
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<td>R. Lakshmy</td>
<td>LDL particle heterogenicity and its association with other established risk factors for CHD in an industrial population: Role of CETP gene</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>Serum fatty acid levels and their correlation with other CVD risk factors in industrial populations from Delhi and Trivandrum</td>
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<td>Sanjeev Sharma</td>
<td>Induction of therapeutic angiogenesis in critical limb ischaemia by intra-arterial delivery of autologous bone marrow derived stem cells</td>
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### Cardiology

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<tr>
<td>Balram Bhargava</td>
<td>Clinical trial with paclitaxel eluting carbon coated cobalt chromium stent</td>
<td>Relisys Medical Devices</td>
<td>75,000</td>
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<td>G. Karthikeyan</td>
<td>Role of homocysteine in coronary artery disease: Genetic and epigenetic studies</td>
<td>DBT</td>
<td>1,20,552</td>
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<td>G. Karthikeyan</td>
<td>Non-invasive detection of sub-clinical disease activity in patients with established rheumatic valvular heart disease</td>
<td>DBT</td>
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<td>R. Juneja</td>
<td>Intravascular ultrasound for severe pulmonary artery hypertension in congenital heart diseases</td>
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### Cardiothoracic and Vascular Surgery

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<tr>
<td>Balram Airan</td>
<td>Surgical treatment for ischaemic heart (stitch) failure trial</td>
<td>Clini Rx Research</td>
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<td>P. Venugopal</td>
<td>Use of autologous bone marrow stem cells for myocardium regeneration</td>
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### Centre for Behavioural Sciences (Psychiatry)

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<td>Manju Mehta</td>
<td>Risk factors of substance use and abuse in offspring of substance abuse patients</td>
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<td>Manju Mehta</td>
<td>Road rage: A study of aggressive behaviour and intervention strategies</td>
<td>MOHFW</td>
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<td>Manju Mehta</td>
<td>National mental health programme</td>
<td>MOHFW</td>
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<td>Rajesh Sagar</td>
<td>Phase III randomized placebo-controlled, double-blind trial evaluating the safety and efficacy of sublingual asenapine vs. olanzapine and placebo in inpatients with an acute manic episode (A7501005)</td>
<td>Pfizer</td>
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### Centre for Community Medicine

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<td>Puneet Mishra</td>
<td>Development of appropriate prevention and intervention strategies for non-communicable nutrition related disorders among women in post-reproductive period</td>
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### Dental Surgery

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<td>Ajoy Roychoudhry</td>
<td>A randomized double blind placebo controlled study of efficacy of lactobacillus CD2 lozenge in patients with chronic periodontitis</td>
<td>CD Pharma India</td>
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<td>O.P. Kharbanda</td>
<td>Development of visual analog scale for smile characteristics following orthodontic treatment and its correlation with the treatment outcome</td>
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<td>Ritu Duggal</td>
<td>Detection of apoptosis in human periodontal ligament during orthodontic tooth movement</td>
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### Dermatology and Venereology

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<td>Kaushal K. Verma</td>
<td>Randomized clinical trial of azathioprine weekly pulse versus daily azathioprine for the treatment of Parthenium dermatitis</td>
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<td>Neena Khanna</td>
<td>Evaluation of ovarian function in female patients with multibacillary leprosy</td>
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<td>Neena Khanna</td>
<td>Role of parthenium hysterophorus in pathogenesis and exacerbation of atopic dermatitis</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><strong>Dr B.R. Ambedkar Institute–Rotary Cancer Hospital</strong></td>
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<td>Ritu Gupta</td>
<td>Immunophenotypic characterization of plasma cells by flow cytometry in health and disease with particular reference to plasma cell myeloma</td>
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<td>Atul Sharma</td>
<td>A randomized double blind study of efficacy of lactobacillus CD2 lozenges in preventing radiation and chemotherapy induced oral mucositis in head and neck</td>
<td>CD Pharma India</td>
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<td>B.K. Mohanti</td>
<td>Patterns of care and survival studies in cancer registry programme</td>
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<td>G.K. Rath</td>
<td>A randomized controlled comparative trial to evaluate the efficacy and safety of 2-deoxy-D-glucose (2DG) as a radiomodifier in the treatment of glioblastoma multiforme</td>
<td>Dr Reddy's Lab</td>
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<td>Lalit Kumar</td>
<td>Expansion of adult human bone marrow and cord blood stem cells for reprogramming into hepatocytes</td>
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<td>Lalit Kumar</td>
<td>Neoadjuvant chemotherapy followed by interval debulking surgery versus upfront surgery followed by chemotherapy in stage III and stage IV epithelial ovarian carcinoma</td>
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<td>Lalit Kumar</td>
<td><em>In vitro</em> expansion and establishment of human foetal liver haematopoietic stem cell line</td>
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<td>Lalit Kumar</td>
<td>Grastim (G-CSF) mobilized peripheral blood progenitor cell (PBPC) transplantation (allogenic or autologous): A multicentric study</td>
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<td>N.K. Shukla</td>
<td>Characterization and functional analysis of differentially expressed genes in esophageal cancer</td>
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<tr>
<td>P.K. Julka</td>
<td>A phase III trial of ALIMTA vs. docetaxel in patients with locally advanced or metastatic non-small cell lung cancer</td>
<td>Ranbaxy/EliLilly</td>
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<td>P.K. Julka</td>
<td>A randomized, double blind, placebo controlled, phase II study of oral recombinant human lactoferrin (RHLF) in combination with carboplatin and paclitaxel (C/P) in patients with locally advanced and/or metastatic non-small-cell lung cancer (NSCLC)</td>
<td>Reliance Clinical Research Services</td>
<td>47,421</td>
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<td>P.K. Julka</td>
<td>A randomized, double-blind, parallel-group, multicentre, phase III study comparing the efficacy and tolerability of fulvestrant (FASLODEX) 500 mg with fulvestrant (FASLODEX) 250mg in postmenopausal women with oestrogen receptor positive advanced breast cancer progressing or relapsing after previous endocrine therapy</td>
<td>Quintiles Spectral India</td>
<td>3,69,499</td>
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<td>P.K. Julka</td>
<td>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</td>
<td>Siro Clin Pharma</td>
<td>1,52,967</td>
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<td>Rajive Kumar</td>
<td>Characterization of testis specific sperm associated antigen 9 (SPAG9) gene expression and humoral immune response in various human cancers</td>
<td>DBT</td>
<td>75,750</td>
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<td><strong>V. Raina</strong></td>
<td>Antioxidants as adjunct to chemotherapy of lung cancer: <em>In vitro</em> study</td>
<td>Dr Reddy’s Lab</td>
<td>2,06,502</td>
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<tr>
<td>V. Raina</td>
<td><em>An in vitro</em> study of antiproliferative and apoptotic effects of Gefitinib on lung cancer cell lines</td>
<td>NATCO Pharma India</td>
<td>89,248</td>
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<td>V. Raina</td>
<td>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</td>
<td>Pfizer</td>
<td>3,62,705</td>
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<td>V. Raina</td>
<td>An ascending dose, sequential group, placebo-controlled, multicentre, phase I study of RWJ 800088 in subjects with cancer receiving plantinum-based chemotherapy regimens protocol 800088-NAP-1002: Phase I</td>
<td>Johnson &amp; Johnson</td>
<td>10,30,383</td>
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<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>6,33,337</td>
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**Dr R.P. Centre for Ophthalmic Sciences**

| Gita Satpathy | Novel molecular diagnostics for eye diseases and low vision enhancement devices | CSIR | 2,08,585 |
| Gita Satpathy | Evaluation of polymerase chain reaction assay for detection of HSV genome in tear specimens as a rapid diagnostic tool for laboratory diagnosis of HSV keratitis particularly stromal keratitis and atypical epithelial keratitis vs antigen detection and genomic DNA detection by PCR assay in corneal scrapings | ICMR | 4,61,362 |
| Niranjan Nayak | Standardization of antifungal susceptibility testing for filamentous fungi and characterization of drug sensitive and drug resistant fungal isolates in mycotic keratitis | ICMR | 1,07,012 |
| Radhika Tandon | Ocular surface reconstruction with alternative autografts of non-ocular origin | DST | 7,81,459 |
| Rohit Saxena | Study on the prevalence, therapeutic options and outcome measures of amblyopia | DST | 11,27,888 |
| T. Velpandian | Evaluation of the biodisposition of Xanthophylls in Indian donor eyes and detection of their content in commonly available fruits and vegetables | DST | 1,36,489 |
| T. Velpandian | Evaluation and characterization of colours and documentation of their ocular toxicity in the northern states of India during the festival of colours (Holi) | DST | 1,94,000 |
| T. Velpandian | Development of topical ocular formulation of calcium dobesilate and evaluation of its formulation characteristics | Ozone Pharmaceuticals | 4,88,260 |
| T. Velpandian | Development and validation of sensitive HPLC method and evaluation of taxanes in various taxux species especially found in Himalayan regions to support tribal welfare | Auxilium Technical Management Services | 400 |
| Tanuj Dada | Mutation analysis in congenital and developmental glaucoma in north Indian population | DBT | 11,69,000 |
### Endocrinology and Metabolism

<table>
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<tr>
<th>Author(s)</th>
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<tr>
<td>A.C. Ammini</td>
<td>Comparison of efficacy of metformin and spironolactone in the management of polycystic ovarian syndrome</td>
<td>ICMR</td>
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<td>A.C. Ammini</td>
<td>Demographic and clinical profile of young diabetics in a tertiary care hospital in north India</td>
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<td>A.C. Ammini</td>
<td>Postmenopausal evaluation and risk-reduction with lasofoxifene (Pearl)</td>
<td>Pfizer</td>
<td>8,77,780</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>12,42,517</td>
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<td>M.L. Khurana</td>
<td>A pilot study to assess micronutrient profile among preschool children (6–71 months) of Assam and Rajasthan: A multicentre study</td>
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<td>8,12,473</td>
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<td>M.L. Khurana</td>
<td>Nutritional profile of Assam, Manipur and Meghalaya: An ICMR task-force multicentre study</td>
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<td>47,41,245</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>10,91,509</td>
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<td>Nikhil Tandon</td>
<td>Development of web-based data capture module for diabetes</td>
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<td>Nikhil Tandon</td>
<td>Hyperglycaemia and its effect after acute myocardial infarction on cardiovascular outcomes in patients with type 2 diabetes (HEART2D)</td>
<td>Ranbaxy/ EliLilly</td>
<td>4,30,855</td>
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<td>Nikhil Tandon</td>
<td>A multicentre, double-blinded, randomized, placebo-controlled study of MK-0431 in patients with type 2 diabetes mellitus who have inadequate glycaemic control</td>
<td>MSD (India)</td>
<td>8,56,833</td>
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<td>Nikhil Tandon</td>
<td>A phase 3 open label parallel group study to evaluate the efficacy and safety of human insulin inhalation powder (HILP) compared to preprandial injectable insulin in insulin-naive patients with type 2 diabetes mellitus</td>
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<td>Nikhil Tandon</td>
<td>A phase 3 open label, parallel group study to evaluate the efficacy of preprandial human insulin inhalation powder (HIP) compared to preprandial injectable insulin in patients with type 1 diabetes mellitus</td>
<td>Ranbaxy/ EliLilly</td>
<td>7,74,254</td>
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<td>R. Goswami</td>
<td>Vitamin D status of subjects residing in rural North India.</td>
<td>Vulimini Ramalingaswami Foundation</td>
<td>737</td>
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<td>R. Goswami</td>
<td>Encapsulation of potentially immunotherapeutic/ immuno-prophylactic peptides in novel biocompatible nanosized carriers for targeted delivery in IDDM</td>
<td>DBT</td>
<td>1,87,782</td>
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<tr>
<td>R. Goswami</td>
<td>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</td>
<td>DRDO, MoD</td>
<td>3,31,349</td>
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<td>Rajesh Khadgawat</td>
<td>A randomized, double blind placebo-controlled multicentric clinical study to evaluate the safety and efficacy of Rimonabant tablet in obese subjects</td>
<td>Torrent Pharma</td>
<td>51,279</td>
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<td>R. Goswami</td>
<td>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)</td>
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### ENT (Otorhinolaryngology)

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<tr>
<td>R.C. Deka</td>
<td>Assessment of changes in the T, C levels, dynamic range and changes in the neural response telemetry in cochlear implant users to evaluate possible electrical stimulation induced damage to the neural elements</td>
<td>ICMR</td>
<td>2,20,000</td>
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<td>R.C. Deka</td>
<td>Efficacy of intratympanic dexamethasone in the management of tinnitus and its effect on improving quality of life: A clinical study</td>
<td>ICMR</td>
<td>3,34,357</td>
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<td>Sudhir Bahadur</td>
<td>Phase II/III randomized placebo controlled clinical trial of curcumin in squamous head and neck cancers</td>
<td>DBT</td>
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### Gastroenterology and Human Nutrition

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<tr>
<td>Anoop Saraya</td>
<td>Role of enteral nutrition in preventing complications in severe acute pancreatitis. A randomized control trial</td>
<td>ICMR</td>
<td>3,71,140</td>
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<td>Anoop Saraya</td>
<td>Genetic basis of alcohol induced pancreatic disorders</td>
<td>ICMR</td>
<td>1,91,417</td>
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<td>Govind K. Makharia</td>
<td>Double blind randomized placebo-controlled study of a probiotic preparation VSL #3 for the treatment of mild to moderate active ulcerative colitis</td>
<td>CD Pharma India</td>
<td>4,81,862</td>
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<td>Pramod Garg</td>
<td>Is chronic pancreatitis a premalignant disease?</td>
<td>ICMR</td>
<td>4,45,119</td>
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<td>Rakesh Aggarwal</td>
<td>A mathematical decision-analysis model to study the efficacy and cost-effectiveness of prophylactic cholecystectomy in preventing complications especially gallbladder cancer in patients with symptomatic gallstones</td>
<td>ICMR</td>
<td>1,06,853</td>
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<td>Rakesh Aggarwal</td>
<td>Potential of <em>Mycobacterium W</em> to boost immune response to hepatitis B vaccine in poor responder groups</td>
<td>DBT</td>
<td>6,91,000</td>
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<td>S.K. Acharya</td>
<td>FIST infrastructure in universities and higher educational institutes</td>
<td>DST</td>
<td>4,85,215</td>
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<td>S.K. Acharya</td>
<td>Multicentric study of interferon–glycyrrhizin combination therapy and interferon–ribavirin combination therapy in the management of chronic hepatitis C (Study centre)</td>
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<td>59,114</td>
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<td>S.K. Acharya</td>
<td>Advanced centre for liver diseases</td>
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<td>S.K. Acharya</td>
<td>A multicentric randomized controlled clinical trial of lamivudine and adefovir, glycyrrhizin and adefovir in HBV related decompensated cirrhosis</td>
<td>ICMR</td>
<td>6,06,721</td>
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<td>S.K. Acharya</td>
<td>Randomised controlled trial of pegylated interferon (PEG-IFN) monotherapy and combination of PEG-INF with lamivudine among patients with chronic hepatitis B</td>
<td>Fulford India</td>
<td>5,11,729</td>
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<td>Umesh Kapil</td>
<td>Prevalence of obesity and associated diseases amongst well to do adolescent children in the national capital territory of Delhi</td>
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<td>1,74,953</td>
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<td>Umesh Kapil</td>
<td>Epidemiology of gallbladder cancer with special reference to nutritional risk factors</td>
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<td>5,07,453</td>
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<td>Umesh Kapil</td>
<td>Resolution of Bitot spots after administration of megadose of vitamin A in a cohort of children 1–5 years of age with Bitot spot.</td>
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<td>Umesh Kapil</td>
<td>Assessment of zinc deficiency amongst children 6 months of age in different regions of India</td>
<td>DBT</td>
<td>1,87,508</td>
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<td>Vineet Ahuja</td>
<td>A phase III, randomized, multi-centre, double blind, parallel-group, active comparator study to compare the efficacy and safety of SPD476 (mesalazine) 2.4 g/day once daily (od) with Asacol 1.6 g/day twice daily (bid) in the main-tenance of remission in patients with ulcerative colitis</td>
<td>PPD Pharma-ceutical Development India</td>
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<td>Vineet Ahuja</td>
<td>A randomized, double-blind controlled trial of the probiotic preparation VSL #3 for assessing clinical and histological response in patients with microscopic colitis</td>
<td>CD Pharma India</td>
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<td>Vineet Ahuja</td>
<td>Curcumin for the treatment of ulcerative colitis</td>
<td>Himalaya Drug Co.</td>
<td>88,785</td>
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<td>Y.K. Joshi</td>
<td>Effect of glutamine on intestinal structure and function in patients with inflammatory bowel diseases</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>Gastrointestinal Surgery</strong></td>
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<td>Peush Sahni</td>
<td>Design and development of syringe pump and online peristaltic pump for drug delivery</td>
<td>Ministry of Communication and Information Technology</td>
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<td>T.K. Chattopadhyay</td>
<td>Identification of novel oesophageal squamous cell carcinoma genes by using a combination of array-based CGH and gene expression microarrays</td>
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<td>Renu Saxena</td>
<td>A study to characterize Von Willebrand disease and its correlation with molecular defects</td>
<td>DST</td>
<td>2,23,310</td>
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<td>Renu Saxena</td>
<td>Funds for improvement of S&amp;T infrastructure in university and higher educational Institutions (FIST)</td>
<td>DST</td>
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<td>Renu Saxena</td>
<td>Organization of proficiency testing programme for testing haemogram</td>
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<td>Renu Saxena</td>
<td>Haemostatic and molecular defects predisposing to acute non-embolic stroke in children and young Indians</td>
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<td>Renu Saxena</td>
<td>Elucidation of molecular genetics of acute leukaemia in India</td>
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<td>Renu Saxena</td>
<td>Thalassaemia awareness and screening programme for detection of thalassaemia trial</td>
<td>National Thalassemia Welfare Society</td>
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<td>Renu Saxena</td>
<td>Characterization of mutations underlying haemophilia A and B</td>
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<td>Renu Saxena</td>
<td>Diagnosis and counselling of genetic disorders using cytogenetics and molecular methods</td>
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<td>Renu Saxena</td>
<td>Organization of Indian Society of Haematology and Transfusion Medicine (ISHTM)–AIIMS external quality assurance programme</td>
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<td>Tulika Seth</td>
<td>Evaluation of the thermal camera pre-cancer lesions or cancers in early stages and to study the effect of Pranayam and Suder-shan kriya (Breathing process) in reversing pre-cancer lesion</td>
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<td>Tulika Seth</td>
<td>Assessment of the effect of planned intervention on awareness, perception and attitude regarding common cancers in Delhi: A community based longitudinal study</td>
<td>The Cancer Foundation</td>
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<td><strong>M. Irshad</strong></td>
<td>Development of rapid diagnostic test for detection of auto antibodies in myasthenia gravis by plate and dot-blot ELISA</td>
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<td><strong>M. Irshad</strong></td>
<td>Prevalence and significance of transfusion transmitted virus (TTV) in various forms of liver diseases</td>
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<td><strong>M. Irshad</strong></td>
<td>Optimization of carbohydrate–protein conjugates as vaccine for prevention of enteric fevers</td>
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<td><strong>Sarman Singh</strong></td>
<td>Evaluation of toxicity and anti-leishmanial efficacy of liposomal amphotericin B (KALSOMETM) in mouse model</td>
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<td><strong>Sarman Singh</strong></td>
<td>Transmission of drug resistant hepatitis B virus in close family contacts of HBV-related chronic liver disease patients</td>
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<td><strong>Sarman Singh</strong></td>
<td>Rapid and accurate diagnosis of tuberculosis using a novel set of primers directly from clinical samples</td>
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<td>3,63,440</td>
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<td><strong>Sarman Singh</strong></td>
<td>Identification of <em>Leishmania donovani</em> reservoirs in various animal species of endemic areas using species specific antibodies</td>
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<td><strong>Sarman Singh</strong></td>
<td>Proteomic analysis of <em>M. tuberculosis</em> during the stage of acquisition of resistance to isoniazid and rifampicin</td>
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<td><strong>Sarman Singh</strong></td>
<td>Developing a novel multiplex PCR assay for simultaneous detection and differentiation of hepatitis A and E, <em>Salmonella</em> spp., <em>Entamoeba histolytica</em> and <em>Giardia lamblia</em> directly from drinking water samples</td>
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<td><strong>Anant Mohan</strong></td>
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<td><strong>Ashok Kumar</strong></td>
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<td><strong>R. Handa</strong></td>
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<table>
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<th>Researcher/Project</th>
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<td>Randeep Guleria</td>
<td>Design and development of personal use respiratory device for patients with respiratory failure</td>
<td>Ministry of Communication and Information Technology</td>
<td>5,86,806</td>
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<td>Randeep Guleria</td>
<td>Assessment of nutritional and antioxidant enzyme status in mechanically ventilated critically ill patients. Effect on mortality and strategies for improving nutritional support</td>
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<td>Randeep Guleria</td>
<td>Serum leptin, nutritional status and inflammatory markers in chronic obstructive pulmonary disease. Relationship with dyspnoea and severity of disease</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>
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<td>Rohini Handa</td>
<td>Herbal based preparations for degenerative disorders: Osteoarthritis (OA) and rheumatoid arthritis (RA)</td>
<td>CSIR</td>
<td>1,81,545</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>
<td>ICMR</td>
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<td>S.K. Sharma</td>
<td>Genomic and molecular studies on the immunopathogenesis of bronchial asthma</td>
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<td>S.K. Sharma</td>
<td>Efficacy and safety of immunomodulator <em>Mycobacterium w, mw</em> as an adjunct therapy in pulmonary tuberculosis</td>
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<td>Antiretroviral treatment</td>
<td>MOHFW</td>
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<td>S.K. Sharma</td>
<td>Treatment outcome and drug resistance among category II pulmonary tuberculosis under RNTCP</td>
<td>Delhi Tapedik Unmulan Samiti</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>Programme support for immuno-proteomics based diagnostics of infectious diseases</td>
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<td>S.K. Sharma</td>
<td>Incidence of deep venous thrombosis (DVT) among patients admitted in medical wards and intensive care unit (ICU) of a tertiary care hospital (A protocol study)</td>
<td>Pfizer</td>
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<td>S.K. Sharma</td>
<td>A population-based study of prevalence and risk factors in sleep disorders breathing in south Delhi</td>
<td>Pfizer</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 6 months</td>
<td>DGHS</td>
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<td>S.K. Sharma</td>
<td>Efficacy of oral zinc administration as an adjunct therapy in category I pulmonary tuberculosis along with assessment of immunological parameters</td>
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<tr>
<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 parameters (Double-blind, randomized, placebo-controlled, clinical trial)</td>
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<td>S.K. Sharma</td>
<td>Efficacy and safety of immunomodulator (<em>Mycobacterium w</em>) as an adjunct therapy in category I pulmonary tuberculosis along with assessment of immunological parameters</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>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>Arti Kapil</td>
<td>Study of carbapenemase production amongst nosocomial isolates of Gram-negative bacteria in a tertiary care hospital</td>
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<td>Arti Kapil</td>
<td>Cinico-epidemiologic and molecular characterization of extended spectrum beta-lactamase (ESBL) producing <em>Klebsiella spp.</em>, <em>E. coli</em> and <em>Enterobacter</em> spp. causing nosocomial and community infections</td>
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<td>Optimization of laboratory diagnosis of pertussis</td>
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<td>B.K. Das</td>
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<td>B.K. Das</td>
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<td>B.K. Das</td>
<td>Pneumococcal surface adhesin A (PSA.A) 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>DNA amplification study by polymerase chain reaction (PCR) to detect sub-clinical <em>Pneumocysis carini</em> infection and colonization in at risk patients with or without respiratory symptoms</td>
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<td>Detection, identification and molecular characterization of intestinal coccidia and microsporidia in patients with chronic diarrhoea and malabsorption syndromes</td>
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<td>Application of specific amplification of <em>Entamoeba histolytica</em> DNA for the diagnosis of amoebic liver abscess (ALA) directly from ultrasound guided aspirated pus</td>
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<td>Benu Dhawan</td>
<td>Detection of <em>Ureaplasma urealyticum</em> and <em>Mycoplasma hominis</em> in patients with lower genitourinary tract infection by PCR assay: Association of <em>U. urealyticum</em> biovars with clinical outcome</td>
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<td>Phenotypic and genotypic characterization of methicillin and mupirocin resistant staphylococci</td>
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<td>Lalit Dar</td>
<td>Congenital CMV infection in offspring of immune mothers</td>
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<td>Rama Chaudhary</td>
<td>Detection and identification of thermophilic <em>Campylobacter</em> spp. (C.j, C.C, C.U and C.L.) and molecular sub-typing of <em>Campylobacter jejuni</em> in faecal samples of diarrhoeic patients and in food samples using Multiplex PCR, PCR REFO and PRGE</td>
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<td>Rama Chaudhary</td>
<td>Development of multiplex real time quantitative PCR assay to detect <em>Chlamydia pneumoniae</em>, <em>Legionella pneumophila</em>, and <em>Mycoplasma pneumoniae</em> in community acquired pneumonia</td>
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<td>Rama Chaudhary</td>
<td>Cloning and expression of <em>Mycoplasma pneumoniae</em> P1 gene and its fragments to study their role in cytoadherence</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>Shobha Broor</td>
<td>Multisite monitoring of human influenza viruses in India</td>
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<td>Sanofi Pasteur India</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 parameters (Double-blind, randomized, placebo-controlled, clinical trial)</td>
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<td>National Drug Dependence Treatment Centre</td>
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<td>Rajat Ray</td>
<td>A post-marketing surveillance of Addnole-N</td>
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<td>Nephrology</td>
<td>Validation and development of predicting formula for estimation of glomerular filtration rate in Indian adults with various degrees of renal function</td>
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<td>Neurobiochemistry</td>
<td>Genetic polymorphism of drug metabolizing enzymes CYP2D6, CYP2C19 and CYP2C9 and GST genes in patients developing toxicity to specific antiepileptic drug—Phenytoin</td>
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<td>Intravenous autologous bone marrow stromal cells (MSC) or mononuclear cells (MNC) for patients with acute ischaemic stroke: A multi-institutional project</td>
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<td>Kameshwar Prasad</td>
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<td>M.V. Padma</td>
<td>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</td>
<td>Normobaric oxygen therapy in acute ischaemic stroke</td>
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<td>Madhuri Behari</td>
<td>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 early idiopathic Parkinson’s disease treated with a stable dose of dopamine</td>
<td>Quintiles Spectral India</td>
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<td>Madhuri Behari</td>
<td>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</td>
<td>CliniRx Research</td>
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<td>Madhuri Behari</td>
<td>Identification of novel gene(s) familial Parkinson’s disease</td>
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<td>Madhuri Behari</td>
<td>Implantation of adult human retinal pigment epithelial (hRPE) cells in the 6-OHDA lesioned rat model of Parkinson’s disease</td>
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<td>Ajay Garg</td>
<td>Phase imaging and diffusion tensor imaging novel MR contrasts in the evaluation of cryptogenic focal epilepsy</td>
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<td>N.R. Jagannathan</td>
<td>Upgradation of the existing animal MR scanner for biomedical research</td>
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<td>G.P. Bandopadhyaya</td>
<td>Synthesis and chemical characterization of different formulations of alginate-tamoxifen beads</td>
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<td>G.P. Bandopadhyaya</td>
<td>To evaluate radiolabelling and efficacy of radiolabelled betacyclodextrin for infection imaging</td>
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<td>G.S. Pant</td>
<td>Radiation induced chromosome aberrations and their use in biodosimetry</td>
<td>Atomic Energy Regulatory Board</td>
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<td>Alka Kriplani</td>
<td>Diagnosis of genital tuberculosis in infertile women and the effect of anti-tubercular therapy</td>
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<td>Alka Kriplani</td>
<td>Role of mifepristone (RU-486) in the management of uterine bleeding</td>
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<td>Efficacy and safety of administration of Evanova capsules in the management of menopausal symptoms</td>
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<td>Phase-I/Phase-II clinical trials on safety and capability of probiotic selected strains of lactobacilli to colonize vagina for reproductive health of women</td>
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<td>Alka Kriplani</td>
<td>A prospective, comparative, randomized, multicentric study to compare the efficacy and safety of Praneem polyherbal vaginal tablet with betadine vaginal pessary in symptoms of abnormal discharge</td>
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<td>Neerja Bhatla</td>
<td>Association of chlamydia infection with cervical intraepithelial neoplasia and cervical cancer</td>
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<td>Neerja Bhatla</td>
<td>Development of HPV candidate vaccine/s preparation of clinical trial site/cohort for vaccine testing</td>
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<td>Nutan Aggarwal</td>
<td>Weekly 70 mg oral alendronate therapy in postmenopausal osteopenic women</td>
<td>Troikaa Pharma</td>
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<td>Nutan Aggarwal</td>
<td>Clinical effects of human placental extract (placentrex) in pelvic inflammatory disease</td>
<td>Khandelwal Laboratories</td>
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Suneeta Mittal | Human reproduction research centre | ICMR | 22,30,000
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Suneeta Mittal | Prevention of mother to child transmission of HIV | Delhi State AIDS Control Society | 1,67,458
Suneeta Mittal | Sexual and reproductive health for rural and urban women with application of molecular genetics | DBT | 2,82,232
Suneeta Mittal | Aneuploidies leading to mental retardation and retardation and foetal loss | DBT | 4,91,374
Suneeta Mittal | Pretreatment with misoprostol before vacuum aspiration versus MVA: A double blind RCT | MOHFW | 4,02,019
Suneeta Mittal | Sexual and reproductive health for rural and urban women with application of molecular genetics | DBT | 2,82,232

Orthopaedics

A. Jayaswal | Role of free radical scavengers and the effects of antioxidants on their levels in patients with ankylosing spondylitis. To investigate the possible role of antioxidants as therapeutic agents in ankylosing spondylitis | ICMR | 3,11,188
Rajesh Malhotra | Some medico-technical issues determining mechanical properties of ligaments and development of stereop-cameras for operative/anatomic video sequences | ICMR | 3,81,541
Surya Bhan | A new hip hemiarthroplasty option based on femoral stem design suitable for the morphology of proximal femur of elderly Indian population | CSIR | 3,71,081
Surya Bhan | Evaluation of efficacy of platelet concentrate in the treatment of non-union of fractures of long bones | ICMR | 3,46,938

Paediatric Surgery

D.K. Gupta | N-myc gene amplification by polymerase chain reaction in neuroblastoma tumour surveillance by detecting tyrosine hydroxylase protein using RT-PCR | DBT | 3,47,966
M. Bajpai | Pelvi-ureteric junction obstruction: A study on apoptosis and mRNA upregulation in patients with ACE I/D gene polymorphism with respect to disease aetiopathogenesis and monitoring therapy by molecular markers or renin angiotensin system activation | DST | 9,99,068

Paediatrics

Arvind Bagga | Daily corticosteroids to prevent infection associated relapses in patients with frequently relapsing nephrotic syndrome | ICMR | 2,39,610
Arvind Bagga | Dose ranging study to evaluate the safety and efficacy of olmesartan medoxomil in children and adolescents with hypertension | Quintiles Spectral India | 7,97,743
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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>An integrated approach for mutation analysis and identification of new gene(s) for X-linked mental retardation</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>
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<td>Pratima Ray</td>
<td>Cloning and expression of NSP4 enterotoxin of rotavirus in <em>E. coli</em> and evaluation of NSP4 specific immune responses during natural rotavirus infection in children</td>
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<td>Pratima Ray</td>
<td>Reactogenicity and immunogenicity of live, attenuated rotavirus vaccine candidate strains 116E and I321 in healthy adults</td>
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<td>Characterization of rotavirus strains from a multicentric rotavirus surveillance study at AIIMS, Delhi</td>
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<td>Rachna Seth</td>
<td>To understand the deviation in cell signalling pathway autism through neurotrophic factors (insulin like growth factor-1) and undertake a randomized blinded trial with olanzapine to evaluate its effects on insulin like growth factor-1 (IGF-1), clinical symptoms of autism and autism rating scales</td>
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<td>Rakesh Lodha</td>
<td>Integrated management of neonatal and childhood illnesses: Baseline assessment of childhood morbidity and mortality in selected districts in India</td>
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<td>S.K. Kabra</td>
<td>Capacity-building for sweat chloride estimation test by indigenously developed method</td>
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<td>Sheffali Gulati</td>
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<td>Aetiological significance of microscopic colitis in chronic diarrhoea in children and its pathogenesis</td>
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<td>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</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 up to 4 months with possible serious bacterial infection on survival and function of peripheral blood mononuclear cells</td>
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<td>Vandana Jain</td>
<td>Kigs advanced patient outcome survey number SN87-052-38</td>
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<td>Veena Kalra</td>
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**Pathology**

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<td>A.K. Dinda</td>
<td>Genomic and molecular studies on the immunopathogenesis of bronchial asthma</td>
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<td>Development of nanoparticle system for selective receptor specific macrophage targeting</td>
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<td>Chitra Sarkar</td>
<td>Myopathic disorders: A comparative clinico-pathological and * in vitro * proton magnetic resonance spectroscopy study on muscles biopsies</td>
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<td>S. Dutta Gupta</td>
<td>Multicentric study of interferon-glycyrrhizin combination therapy and interferon-ribavirin combination therapy in the management of chronic hepatitis C</td>
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<td>S.K. Panda</td>
<td>To study site reflection of hepatitis E virus (HEV) by localizing the viral replicase (RdRq) into the sub-cellular compartments by transfection studies using HepG2/Huh 7 cells and a fusion reporter construct</td>
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<td>Development of non-radioactive antigen specific reporter release cytotoxicity assay and analysis of cytotoxicity against HEV proteins</td>
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<td>S.K. Panda</td>
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<td>D.S. Arya</td>
<td>Pharmacological and molecular studies on cardioprotective potential</td>
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<td>D.S. Arya</td>
<td>Pharmacological and molecular studies on cardioprotective potential of some Unani drugs in experimentally induced myocardial infection</td>
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<td>S.K. Maulik</td>
<td>Modulatory effect of phytoadaptogens on cardiovascular and neurological changes induced by experimental stress in rats</td>
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<td>Clinical trial of a standardized preparation of <em>Terminalia arjuna</em> in patients with left ventricular dysfunction</td>
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<td>Surender Singh</td>
<td>Standardization and pharmacological studies of widely practiced anti-arthritis Unani preparation <em>Majoon Suranjam</em> based on clinical Unani literature</td>
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<td>Y.K. Gupta</td>
<td>Evaluation of herbal compounds in a rat model of sporadic dementia of Alzheimer’s type</td>
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<td>Antiemetic study of ginger against cancer chemotherapy induced emesis</td>
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<td>Debabrata Ghosh</td>
<td>An mRNA expression array cluster analysis of human first trimester placental trophoblast cell functions</td>
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<td>Debabrata Ghosh</td>
<td>Defining endometrial receptivity for blastocyst implantation using cDNA based array technology</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>J. Sengupta</td>
<td>Elucidating endometriosis using genomic strategy</td>
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<td>K.K. Deepak</td>
<td>Development of digital EEG amplifier: An essential hardware for the autonomic function tests (heart rate variability)</td>
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<td>Multicentric trial of integrated software for quantification of autonomic tone</td>
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<td>Rashmi Mathur</td>
<td>Motor responses to noxious/non-noxious stimuli in spinalised humans and rats: Role of electromagnetic stimulation in recovery</td>
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<td>Ratna Sharma</td>
<td>A study to assess acute mental stress induced changes in EEG, cognitive behaviour and neuroteroids across the menstrual cycle and effect of meditation on stress-induced changes</td>
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<td><strong>Reproductive Biology</strong></td>
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<td>Ashutosh Halder</td>
<td>Prevalence of 22q 11 deletion syndrome in children with structural cardiac malformation: A tertiary care referral hospital-based study in Delhi</td>
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<td><strong>Surgery</strong></td>
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<td>Sandeep Guleria</td>
<td>Evaluation of efficacy and tolerability of Tacrolimus in patients undergoing renal transplantation</td>
<td>Panacea Biotech</td>
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<td>Sandeep Guleria</td>
<td>Save the Kidney</td>
<td>Rajiv Gandhi Foundation</td>
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<td><strong>Transfusion Medicine (Blood Bank Main Hospital)</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>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>Efficacy of oral zinc administration as an adjunct therapy in category I pulmonary tuberculosis along with assessment of immunological parameters</td>
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<td>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)</td>
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<td>N.K. Mehra</td>
<td>Comparative study on the immunogenetic similarities between European gypsies and North Indians to improve the utilization of bone marrow donor registries for diverse ethnic groups and to functioning genome programme</td>
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<td>Monitoring T cell activation markers and cytokine production following allogenic renal transplantation</td>
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<td>N.K. Mehra</td>
<td>HLA profile of Raica community of Rajasthan</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 population</td>
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<td>Programme support for advanced programme in histocompatibility and transplant immunology (PS-APHTI)</td>
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<td>Urology</td>
<td>Amlesh Seth</td>
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<td></td>
<td>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</td>
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**Ongoing research projects funded by World Health Organization**

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<td>J.S. Tyagi</td>
<td>Multicentric evaluation of a sensitive smear microscopy technique for detection of acid-fast bacilli in sputum</td>
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<td>Renu Saxena</td>
<td>Evaluation of efficacy of haemoglobin colour scale with Sahli’s method for haemoglobin estimation</td>
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<td>A.B. Dey</td>
<td>Evaluation of health status and health needs of old home residents and establishment of minimum standards of health services on long stay institutions in India</td>
<td>2,45,573</td>
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<tr>
<td>Manjari Tripathi</td>
<td>A prospective study in Indian women: How pregnancy and epilepsy interact to produce psychological and mental health morbidity</td>
<td>30,219</td>
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<td>Neerja Bhatla</td>
<td>Evaluation of the comparative efficacy of single- and double-freeze technique of cryotherapy in controlling CIN lesion: Multicentre randomized clinical trial</td>
<td>1,67,548</td>
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<td>Suneeta Mittal</td>
<td>Comparison of three misoprostol regimes after pretreatment with mifepristone for early pregnancy termination: A multinational RCT</td>
<td>5,97,889</td>
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<tr>
<td>A.K. Deorari</td>
<td>Multicentric study of clinical signs for predicting illness in young infants</td>
<td>1,71,093</td>
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<td>Shinjini Bhatnagar</td>
<td>Efficacy of zinc (given as an adjunct) in the treatment of severe and very severe pneumonia in hospitalized children 2–24 months of age</td>
<td>27,02,772</td>
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<td>V.K. Paul</td>
<td>South East Asia Regional Neonatal–Perinatal database network</td>
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### Ongoing research projects funded by international agencies

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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>
<td>NIH, USA</td>
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<td><strong>Cardiology</strong></td>
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<td>V.K. Bahl</td>
<td>A clinical evaluation of the Xience TM V everolimus eluting coronary stent system in the treatment of patients with de nova coronary artery lesions</td>
<td>Abbott Vascular, USA</td>
<td>2,16,071</td>
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<td><strong>Centre for Community Medicine</strong></td>
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<td>C.S. Pandav</td>
<td>Health systems reforms and ethics: Private practitioners in poor neighbourhoods in urban India, Indonesia and Thailand—A multidisciplinary comparative study</td>
<td>Danida Research Council</td>
<td>29,469</td>
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<td>K. Anand</td>
<td>Evaluation of safe water systems intervention project in urban slums of Dehradun and Haridwar</td>
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<td><strong>Computer Facility</strong></td>
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<td>R.S. Tyagi</td>
<td>Mainstreaming HIV/AIDS concerns in on going drugs demand reduction programmes in South Asia</td>
<td>UN International Drug and Crime Control Programme</td>
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<td><strong>Dermatology and Venereology</strong></td>
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<td>V.K. Sharma</td>
<td>A prospective, randomized, double-blind, placebo-controlled, parallel group, multicentre, 52 week trial to assess the efficacy and safety of adjunct Mycophenolate mofetil (mmf) to achieve remission with reduced cortico-steroids in subjects with active Pemphigus vulgaris</td>
<td>Aspreva Pharmaceutical Corporation, Canada</td>
<td>3,62,608</td>
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<td>V.K. Sharma</td>
<td>A randomized, double blinded study to evaluate the safety and efficacy of intraleisional administration of PCNA synthetic chimeric ribozyme (VIT 100) (Chelase) in the treatment of keloids and hypertrophic scars when administered concurrently with 5 FU and Kenalog</td>
<td>Clincyte, USA</td>
<td>2,42,692</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>A randomized phase 3 study of the efficacy and safety of glufosfamide compared with best supportive care in metastatic pancreatic adenocarcinoma previously treated with gemcitabine</td>
<td>Threshold Pharmaceuticals, USA</td>
<td>9,595</td>
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<td>V. Raina</td>
<td>Randomized trial of adjuvant endocrine therapy and chemotherapy in women with early breast cancer: The adjuvant breast cancer trial (ABC trial)</td>
<td>Institute of Cancer Research UK Coordination Committee</td>
<td>3,97,666</td>
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<td>V. Raina</td>
<td>Adjuvant tamoxifen long against short (ATLAS) trial</td>
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<td>V. Raina</td>
<td>Indox Cancer Trials Network Centre</td>
<td>Oxford Univ., UK</td>
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<td>V. Raina</td>
<td>An open label study to evaluate the efficacy and safety of human recombinant granulocyte colony stimulating factor (G-CSF) in patients with chemotherapy induced neutropenia</td>
<td>Clinigene International</td>
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<td><strong>Endocrinology and Metabolism</strong></td>
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<td>A.C. Ammini</td>
<td>A one year multicentre, international randomized double blind study with comparison of benfluorex (150 mg bd or 150 mg tid) versus pioglitazone (30 mg od or 45 mg od) in combination with sulphonylurea administered orally for treatment of type 2 diabetes</td>
<td>Institute de Recherches Internationales Servier, France</td>
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<td>Nikhil Tandon</td>
<td>A phase III randomized placebo controlled clinical trial to study the safety and efficacy of Mko 364 in overweight and obese patients with type 2 diabetes mellitus (T2DM)</td>
<td>Neeman Medical International Asia</td>
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<td>Rakesh Aggarwal</td>
<td>Landscape analysis of zinc and its effect on child morbidity and mortality</td>
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<td><strong>Haematology</strong></td>
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<td>Renu Saxena</td>
<td>Molecular characterization and treatment of acute lymphoplastic leukemia on protocol MCP-943</td>
<td>INCTR, USA</td>
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<td><strong>Medicine</strong></td>
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<td>Naveet Wig</td>
<td>Phase I planning grant to the international clinical, operational and health services research training for AIDS/TB programmes</td>
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<td>Naval K. Vikram</td>
<td>Body fat and its relationship with metabolic syndrome indicators in overweight pre-adolescents and adolescents</td>
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<td>S.K. Sharma</td>
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<td><strong>Microbiology</strong></td>
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<td>Rama Chaudhary</td>
<td>Prevention of infection in Indian neonates</td>
<td>Univ. of Maryland</td>
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<td>Shobha Broor</td>
<td>Metapneumovirus infection of children in India</td>
<td>Univ. of Alabama, USA</td>
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<td><strong>National Drug Dependence Treatment Centre</strong></td>
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<td>Anju Dawan</td>
<td>To test the effectiveness of oral substitution with buprenorphine and to establish a protocol for oral substitution with buprenorphine</td>
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<td>S.K. Agarwal</td>
<td>A randomized double blind, placebo, controlled, four arm, parallel group, multicentric, multinational, safety and efficacy trial of 100 mg, 300 mg and 900 mg of abetimus sodium in systemic lupus erthrematoses (SLE) patients with a history of renal disease</td>
<td>La Jolla Pharmaceutical Company, California</td>
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<td>Ashish Suri</td>
<td>The International Infant Hydrocephalus Study (IIHS): A multicentre prospective randomized study</td>
<td>International Society for Paediatric Neurosurgery</td>
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<td>Ashish Suri</td>
<td>A multi-national, multi-centre, open-label, active-controlled, randomized parallel-group dose-finding study to evaluate the efficacy and safety of 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>Antisense Pharma Gmbh, Germany</td>
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<td>Deepak Kumar Gupta</td>
<td>PPHM 0503: 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>Chetan D. Patel</td>
<td>Role of cerebral perfusion SPECT in the differential diagnosis of dementia</td>
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<td>Rakesh Kumar</td>
<td>Role of radionuclide technique in the management of neonatal hydronephrosis</td>
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<td>Rakesh Kumar</td>
<td>Role of nuclear cardiology techniques in Escjemia assessment with exercise imaging in asymptomatic diabetes</td>
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<td>J.B. Sharma</td>
<td>CORONIS: International study of caesarean section surgical technique: A randomized factorial trial</td>
<td>National Perinatal Epidemiology Unit, Univ. of Oxford, UK</td>
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<td>Neerja Bhatla</td>
<td>A phase Ib, double-blind, randomized, controlled study to evaluate the immunogenicity and safety of GlaxoSmith Kline biologicals HPV-16/18 ... 18-35 years.</td>
<td>GlaxoSmith Kline Asia</td>
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<td>Neerja Bhatla</td>
<td>Parallel performance trial of Fast HPV versus HC2 for cervical cancer screening</td>
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<tr>
<td>Arvind Bagga</td>
<td>Impact of zinc supplementation in low birth weight infants on severe morbidity and zinc status: A randomized controlled trial</td>
<td>KLPF, USA</td>
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<td>Madhulika Kabra</td>
<td>Economic modelling study: Non-invasive (NI) RhD testing in Europe and Asia under SAFE Network</td>
<td>Univ. of Warwick, UK</td>
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<td>N.K. Arora</td>
<td>Model infection centres (MICs): A program to improve infection practices in the country</td>
<td>INCLEN/ USAID</td>
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<td>Pratima Ray</td>
<td>The Indo–US collaboration to develop rotavirus vaccine</td>
<td>NIH, USA</td>
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<td>S.K. Kabra</td>
<td>Development of continuing medical education (CME) programmes to strengthen AIDS treatment in India</td>
<td>NIH, USA</td>
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<td>Shinjini Bhatnagar</td>
<td>Institutional capacity and competence building in research and education for promotion of child health and nutrition in South Asia</td>
<td>University of Bergan, Norway</td>
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<td>Shinjini Bhatnagar</td>
<td>Specific targeted research or innovation project</td>
<td>University of Bergan, Norway</td>
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<td>Shinjini Bhatnagar</td>
<td>Efficacy of zinc (given as an adjunct) in the treatment of severe and very severe pneumonia in hospitalized children 2–24 months of age</td>
<td>John Hopkins Bloomberg School of Public Health</td>
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<td>V.K. Paul</td>
<td>Enhancing networking capacity for advancing newborn health in South East Asia</td>
<td>Saving Newborn Lives, USA</td>
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**Physiology**

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<tr>
<td>H.N. Mallick</td>
<td>Role of glutamate in the preoptic area in the regulation of sleep-wakefulness</td>
<td>Ajinomota Co., Japan</td>
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**Surgery**

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<td>Anurag Srivastava</td>
<td>Adjuvant tamoxifen: Longer against shorter (ATLAS) for breast cancer patients</td>
<td>Oxford Univ., UK</td>
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**Transplant Immunology and Immunogenetics**

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<td>N.K. Mehra</td>
<td>Type 1 diabetes genetics consortium (TIDGC): An international effort</td>
<td>NIH, USA</td>
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**New research projects funded by Indian agencies**

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<tr>
<td>T.S. Roy</td>
<td>Prenatal development and maturation of human inferior colliculus</td>
<td>DST</td>
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**Biochemistry**

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<tr>
<td>D.N. Rao</td>
<td>Chronic immune activation associated with leprosy: Role of hyporesponsiveness and anergy</td>
<td>CSIR</td>
<td>6,52,000</td>
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<tr>
<td>Kalpana Luthra</td>
<td>SDF-1 and DC-SIGNR polymorphisms and expression in HIV-1 infection</td>
<td>ICMR</td>
<td>7,01,096</td>
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<td>M.R. Rajeshwari</td>
<td>Neurological disorders Friedreich’s ataxia (FRDA) and spinocerebellar ataxia (SCA) associated with DNA tri-nucleotide repeats; identification and development of protein biomarkers and circulating DNA for clinical diagnosis</td>
<td>ICMR</td>
<td>9,03,464</td>
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<td>N.C. Chandra</td>
<td>An in vitro silencing of endogenous oxidized-LDL-receptor (LOX-I) gene by SiRNA: Study of NF-KB activated</td>
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<td>Subrata Sinha</td>
<td>Deregulated initiation of translation in oral carcinogenesis</td>
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<td><strong>Biomedical Engineering</strong></td>
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<td>J.C. Bhardwaj</td>
<td>Evaluation of vaginal microbial flora and sperms after SMA application</td>
<td>IIT, Kharagpur</td>
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<td>Sneh Anand</td>
<td>Analysis of autonomic nervous system correlates and health of rhythmic breathing techniques</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 oligosaccharides and designed oligopeptides</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 of diabetes</td>
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<td>H.K. Prasad</td>
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<td>H.K. Prasad</td>
<td>Molecular switch in Th1-Th2 response by SMAR1: Its implications in <em>Mycobacterium</em> infection</td>
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<td>J.S. Tyagi</td>
<td>Pharmacophore-based screening of compounds targeting DevR response regulator and assessment of their anti-<em>Mycobacterium tuberculosis</em> activity</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>
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<td>Balram Bhargava</td>
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<td><strong>Pratap Sharan</strong></td>
<td>A study of the effects of LY, a selective norepinephrine reuptake inhibitor (NERI), in treatment of major depression</td>
<td>Ranbaxy/ Eli Lilly</td>
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<td><strong>Rajesh Sagar</strong></td>
<td>Efficacy and safety of a Gomeiatine (25mg/day with potential adjustment at 50 mg/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>
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<td><strong>Neena Khanna</strong></td>
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<td><strong>T. Velpandian</strong></td>
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### Endocrinology and Metabolism

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<td>Nikhil Tandon</td>
<td>ANDES-AGI-1067 as a novel antidiabetic agent evaluation study.</td>
<td>Reliance Clinical Research Services</td>
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<td>Nikhil Tandon</td>
<td>Effect of glycaemic control of once daily administration of liraglutide in combination with metformin versus glimepiride in combination with metformin in subject with type 2 diabetes, a 16-week randomized double blind double dummy, active control 4 armed parallel group multicentre multinational trial.</td>
<td>Nova Nordisk India</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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### Gastroenterology and Human Nutrition

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<tr>
<td>Govind K. Makharia</td>
<td>Detection of mycobacterial pathogens in patients with Crohn’s disease</td>
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<td>Vineet Ahuja</td>
<td>Evaluation of efficacy and tolerability of curcumin (NCB-2) enema in ulcerative colitis</td>
<td>Himalaya Drug Co</td>
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### Haematology

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<tr>
<td>Renu Saxena</td>
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### Laboratory Medicine

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<tr>
<td>A.K. Mukhopadhyay</td>
<td>Assessment of risk factor associated with Alzheimer disease and vascular dementia</td>
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<td>M. Irshad</td>
<td>Cloning sequencing and expression of different genomic regions of transfusion transmitted virus (TTV) prevalent in Indian population</td>
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<td>Sarman Singh</td>
<td>Identification of <em>Leishmania donovani</em> reservoir (S) in various animal species of endemic areas using species-specific antibodies and PCR technique</td>
<td>DST</td>
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<td>Sarman Singh</td>
<td>Genotyping of <em>Mycobacterium tuberculosis</em> isolates from an endemic area of Delhi and determining their transmission dynamics in the household contacts and the community using molecular methods</td>
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<td>Sarman Singh</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>
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### Medicine

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<td>A.B. Dey</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>Influenza awareness preparedness and response (IAPR). An INCLEN AIMS NIHFW programme for physicians in India</td>
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<td>Randeep Guleria</td>
<td>An interventional nutritional study in subjects with newly diagnosed active tuberculosis (TB)</td>
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<td>S.K. Sharma</td>
<td>Survey on prevalence of tuberculosis</td>
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<td>Sanjeev Sinha</td>
<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>Rama Chaudhary</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 diarrhoea in Indian population</td>
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<td>Shobha Broor</td>
<td>An RNA interference based approach to study the simultaneous inhibition of respiratory syncytial virus (hRSV) and human metapneumovirus virus (hMPV) multiplication in tissue culture and animal model</td>
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<td>Seema Sood</td>
<td>Development of DNA biosensor for detection of <em>Neisseria gonorrhoeae</em> in clinical samples</td>
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<td>S.K. Agarwal</td>
<td>Detection of HCV core antigen (HCVc-Ag) 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>Vivekanandhan S.</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>Vivekanandhan S.</td>
<td>Health profile of population of Nellore (A.P.): An ICMR co-ordinated task force study</td>
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<td>Validation of gel dosimetry as 3D verification tool for highly conformal radiotherapy techniques.</td>
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<td>Achal Kumar Srivastava</td>
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<td>Capacity building for Stroke Research Programme</td>
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<td>Madhuri Behari</td>
<td>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>A multicentre randomized double blind placebo and entacapone controlled parallel group study of the efficacy, safety and tolerability of E2007 in levodopa treated Parkinson’s disease patients with motor fluctuations</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 localization of seizures in patients with intractable epilepsy</td>
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<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>P. Sarat Chandra</td>
<td>Evaluation of autonomic function, saccadic eye movement control and fibrillin gene (exon 24-28) in development of bony craniovertebral junction anomalies</td>
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<td>To study the profile of musculoskeletal pain in tea garden workers in north-east India</td>
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<td>Alok Thakar</td>
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<td>Arvind Bagga</td>
<td>A multicentre randomized double blind evaluation of 12 weeks of valsartan to enalapared to enalapril on sitting systolic blood pressure in children 6 to 17 years of age with hypertension</td>
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<td>S.K. Kabra</td>
<td>Surveillance of serotype distribution and anti-microbial resistance pattern in invasive bacterial infection (IBIS) caused by <em>Streptococcus pneumoniae</em> and <em>Haemophilus influenzae</em> in India (IBIS Extension Phase III)</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>N.K. Mehra</td>
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<td>Seema Sen</td>
<td>Detection of human papilloma virus genome in malignant ocular lesions</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>K.H. Reeta</td>
<td>Estimation of oxidative stress during oral iron supplementation (daily vs. weekly) with or without vitamin C among anaemic pregnant mothers</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>13,90,000</td>
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<tr>
<td><strong>Physiology</strong></td>
<td></td>
<td></td>
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<tr>
<td>R. Mathur</td>
<td>Effect of bone marrow cells transplantation and magnetic stimulation in the sensory motor functional recovery of spinalised rat</td>
<td>ICMR</td>
<td>3,60,775</td>
</tr>
<tr>
<td>Raj Kumar Yadav</td>
<td>Psychoneuroimmune effects of meditation: An evaluation by PET and biochemical markers</td>
<td>DBT</td>
<td>5,64,000</td>
</tr>
<tr>
<td>S.C. Mahapatra</td>
<td>Immunomodulatory effects of <em>Tulsi</em> (<em>Ocimum sanctum</em>) on healthy human subjects</td>
<td>AYUSH, MOHFW</td>
<td>6,40,540</td>
</tr>
<tr>
<td><strong>Reproductive Biology</strong></td>
<td></td>
<td></td>
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<tr>
<td>Anand Kumar</td>
<td>Testing of pregnancy kits produced by Hindustan Latex Ltd for supply to NRHM programme of Government of India</td>
<td>Hindustan Latex Ltd</td>
<td>80,000</td>
</tr>
<tr>
<td><strong>Stem Cell Facility</strong></td>
<td></td>
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<tr>
<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 neurogenic differentiation potential</td>
<td>ICMR</td>
<td>2,60,776</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>D.K. Mitra</td>
<td>Early detection of polarized producing allo-reactive T cells and the role of chemokines in their selective homing among patients undergoing renal transplantation</td>
<td>DST</td>
<td>13,00,000</td>
</tr>
<tr>
<td>D.K. Mitra</td>
<td>Study of NKT cells in polarized immunity among leprosy patients</td>
<td>ICMR</td>
<td>7,26,655</td>
</tr>
<tr>
<td>N.K. Mehra</td>
<td>Genetic basis for HIV-1 transmission resistance and disease progression polymorphism in MHC chemokine/cytokine and their receptor genes</td>
<td>DBT</td>
<td>38,42,000</td>
</tr>
<tr>
<td>N.K. Mehra</td>
<td>Immunotherapy of drugs in refractory leukaemias and lymphomas expressing HCG or subunits by a highly specific recombinant chimeric antibody against beta HCG linked to curcumin or other drugs</td>
<td>DBT</td>
<td>3,50,000</td>
</tr>
<tr>
<td>N.K. Mehra</td>
<td>Haematopoietic stem cell transplantation in India: Challenges and opportunities and immunogenetic aspects of HIV infection</td>
<td>DBT</td>
<td>7,40,000</td>
</tr>
</tbody>
</table>

### New research projects funded by World Health Organization

<table>
<thead>
<tr>
<th>Investigator</th>
<th>Project</th>
<th>Funds (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pratap Sharan</td>
<td>Development of an identification instrument for depression for South East Asia Region of the World Health Organization</td>
<td>1,85,850</td>
</tr>
</tbody>
</table>

### Haematology

<table>
<thead>
<tr>
<th>Investigator</th>
<th>Project</th>
<th>Funds (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Renu Saxena</td>
<td>Development of adaptation of haemoglobin colour scale for estimating haemoglobin in field situation</td>
<td>2,42,190</td>
</tr>
</tbody>
</table>

### Paediatrics

<table>
<thead>
<tr>
<th>Investigator</th>
<th>Project</th>
<th>Funds (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>V.K. Paul</td>
<td>WHO guidelines for feeding of LBW infants: Feasibility, requirements and effects of their implementation in health facilities in India</td>
<td>5,71,732</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>Future revascularization evaluation in patients with diabetes mellitus: Optimal management of multivessel disease (The FREEDOM Trial)</td>
<td>NIH, USA</td>
<td>8,70,253</td>
</tr>
<tr>
<td>G. Karthikeyan</td>
<td>Diagnostic performance of gated SPECT myocardial perfusion imaging at rest in patients presenting to the emergency room with chest pain and a normal or non-diagnostic ECG</td>
<td>IAEA</td>
<td>2,28,850</td>
</tr>
</tbody>
</table>

### Endocrinology

<table>
<thead>
<tr>
<th>Investigator</th>
<th>Project</th>
<th>Funding agency</th>
<th>Funds (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rajesh Khadghawat</td>
<td>A phase III, multi-centre, randomized, parallel group study of safety and efficacy of LB03002, a new sustained release formulation of human recombinant growth hormone as compared to standard daily therapy with Genotropin in treatment of naive children with growth failure due to insufficient secretion of endogenous growth hormone</td>
<td>Parexel International Ltd, UK</td>
<td>1,24,301</td>
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<tr>
<td><strong>Neurology</strong></td>
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<tr>
<td>Madhuri Behari</td>
<td>Protocol OV-1003 safety and efficacy of melperone in the treatment of patients with psychosis associated with Parkinson’s disease</td>
<td>Ovation Pharmaceuticals, USA</td>
<td>6,26,833</td>
</tr>
<tr>
<td><strong>Neurosurgery</strong></td>
<td></td>
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<tr>
<td>B.S. Sharma</td>
<td>A phase-II randomized, double-blind, placebo-controlled, dose finding, safety and tolerability trial of XY2405 as a treatment for traumatic brain injury</td>
<td>London School of Hygiene &amp; Tropical Medicine, UK</td>
<td>3,06,279</td>
</tr>
<tr>
<td><strong>Paediatrics</strong></td>
<td></td>
<td></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 Bergan, Norway</td>
<td>6,97,850</td>
</tr>
<tr>
<td><strong>Transplant Immunology and Immunogenetics</strong></td>
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<td></td>
</tr>
<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>
<td>41,38,457</td>
</tr>
</tbody>
</table>
9.1 Anaesthesiology

Professor and Head
Ravi Saksena
(upto 10.10.2007, Deceased)

Chandralekha
(w.e.f. 11.10.2007)

Professors
M.K. Arora    D.K. Pawar    Ravinder Kumar Batra
S. Rajeshwari  A. Trikha    Maya

Additional Professors
L. Kashyap

Associate Professors
V.K. Mohan

Assistant Professors
A.P. Bhalla    V. Darlong    Rani A. Sunder
Jyotsna Punj    R. Pandey    Anjolie Chabbra
Rashmi Ramachandran

EDUCATION

- Academic activities of undergraduates, postgraduates and paramedical staff (BSc Nursing, MSc 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 is continuing as before.
- The number of short term and long term trainees came to the department were:-
  — Pain Clinic 2 doctors
  — ICU 8 doctors
  — Anaesthesia 8 doctors

Short- and Long-term Training
The following candidates undergone training in the department during the year:

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Name of the candidate</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr Ujjwalraj Duhedia</td>
</tr>
<tr>
<td>2.</td>
<td>Dr Rashmi</td>
</tr>
<tr>
<td>3.</td>
<td>Dr Ruchi Sharma</td>
</tr>
<tr>
<td>4.</td>
<td>Dr Jane Wanjiru Maina</td>
</tr>
<tr>
<td>5.</td>
<td>Dr Poonam</td>
</tr>
<tr>
<td>6.</td>
<td>Dr Avdleeb</td>
</tr>
<tr>
<td>7.</td>
<td>Dr Sumira</td>
</tr>
<tr>
<td>8.</td>
<td>Dr Rajesh</td>
</tr>
<tr>
<td>9.</td>
<td>Dr Madan Katoch</td>
</tr>
<tr>
<td>10.</td>
<td>Dr K.K. Senapati</td>
</tr>
</tbody>
</table>
CONTINUING MEDICAL EDUCATION

Professor Ravinder Kumar Batra

Professor Maya
- Organized a teaching and training programme in Cardiopulmonary resuscitation for the doctors of different specialties in Punjab at Radha Soami Sat Sang Beas; December 2007.

Lectures Delivered

Professor M.K. Arora
2. ‘Difficult to wean patients from mechanical ventilation’ at CME on Critical Care, Jabalpur; 4 November 2007.

Professor D.K. Pawar

Professor Ravinder Kumar Batra
2. ‘Benign hypertrophy of prostate’ at “Post-graduate Assembly in Anaesthesiology” held at Lady Harding Medical College, New Delhi, 28 October 2007.
6. ‘Advances in anaesthesia’ at teleconferencing session for DNB candidates at IGNOU, All India Network, New Delhi; 13 April 2007.
8. ‘How to attempt short questions with examples from previous year papers?’ at teleconferencing session for DNB candidates at IGNOU; 17 May 2007.
11. Moderated workshop on ‘How to Plan research project and write a protocol?’ and took lectures on ‘Purpose and process of thesis’ and ‘Submission of protocol’, Workshop for Postgraduate and Postdoctoral Students at AIIMS (Academic Section); 1 March 2008.

12. Moderated workshop on ‘How to write thesis?’ and took lectures on: ‘How to write “Introduction” and “Aims and Objectives”’, ‘How to write discussion?’ and ‘How to submit thesis and communicate your thesis?’ Workshop for Postgraduate and Postdoctoral Students at AIIMS (Academic Section); 29 March 2008.

Professor S. Rajeshwari


Professor Anjan Trikha

2. ‘Minimum monitoring standards in operation theatre and ICU’, CME hosted by The Nagpur Obstetric & Gynecology Society and Indian Society of Critical Care Medicine, Nagpur; 4 November 2007.


8. ‘Anesthesia implications for an elderly patient’, EUROCAPS 2007, University College of Medical Sciences and Guru Tegh Bahadur Hospital, Delhi; July 2007.

9. ‘Double lumen endotracheal tubes, care of a chest drain, and bronchopleural fistula’, EUROCAPS 2007, University College of Medical Sciences and Guru Tegh Bahadur Hospital, Delhi; July 2007.

10. ‘A patient with a tracheostomy’, EUROCAPS 2007, University College of Medical Sciences and Guru Tegh Bahadur Hospital, Delhi; July 2007.

Professor Maya
1. ‘Basic life support’ in the CME Programme organized for the teaching and training of doctors in Dera Hospital at Radha Soami Satsang, Beas, Punjab; December 2007.
Dr Vimi Rewari
1. ‘Recent advances in anesthesia’, at the teleconferencing session for DNB students at IGNOU, New Delhi; 13 April 2007.
3. ‘Anesthesia for congenital heart disease’, EORCAPS 2007, University College of Medical Sciences and Guru Tegh Bahadur Hospital, Delhi; 10 July 2007.

NATIONAL AND INTERNATIONAL CONFERENCES

Lectures delivered

Professor Chandralekha
3. ‘Haemodynamic monitoring in ICU patients’ 8th North Zone Conference of ISA (Amritsar City Branch), SGRD Institute of Medical Sciences & Research, Amritsar, Punjab; 17–18 November 2008.

Dr M.K. Arora
2. ‘Panel discussion and case scenario for a ventilatory dependent patient for weaning’, International Critical Care Congress and 14th Annual Conference of Indian Society of Critical Care Medicine, Indian Critical Care Society, Bhopal; 13–17 February 2008.

Professor D.K. Pawar
1. ‘Recent concepts in clinical practice of paediatric anaesthesia’, Indian Society of Anaesthesiologists (Jaipur City Branch), SMS Medical College, Jaipur; 11 August 2007.

Professor Ravinder Kumar Batra
1. ‘Infection management in immunocompromised patients’ at CME, as a part of International Critical Care Congress and 14th Annual Conference of Indian Society of Critical Care Medicine, Bhopal; 13 February 2008.
2. ‘Admission discharge criteria in ICU’, Chaired thematic session at CME, as a part of International Critical Care Congress and 14th Annual Conference of Indian Society of Critical Care Medicine, Bhopal; 15 February 2008.
Professor Anjan Trikha

1. ‘Laryngeal mask airway can be used for laparoscopic surgery’ Pro/Con session, Annual Conference of Indian Society of Anesthetists, Delhi branch, New Delhi, April 2007.

RESEARCH

Departmental Projects

Completed
1. A study to evaluate the efficacy and safety of bilateral paravertebral block for peri-operative analgesia in patients undergoing laparoscopy cholecystectomy
2. Effect of preoperative Dexamethasone in postoperative pain in patients undergoing operative gynecological laparoscopy—A dose response study
3. Advancement of epidural catheter up to thoracic intervertebral space in children—comparison of two different gauzes of catheter

Ongoing
1. Comparison of general anesthesia versus epidural anesthesia for total extra-peritoneal laparoscopic inguinal hernia repair
2. Evaluation of feasibility of minimally invasive thyroidectomy in patient with solitary thyroid nodule
3. Safety and efficacy of paravertebral block for analgesia in laparoscopic cholecystectomy
4. Percutaneous dilatational tracheostomy: Griggs guide wire-dilating technique versus controlled rotating dilation technique—A prospective randomized study
5. Effect of pregabalin on pre-operative anxiety and post-operative pain after total abdominal hysterectomy—A dose ranging study
6. Ketamine as an adjunct with bupivacaine in paravertebral analgesia for breast surgery
7. Evaluation of the effect of epidural volume extension during CSE anaesthesia in patients undergoing vaginal hysterectomy
8. To study the safety and efficacy of glossopharyngeal nerve block in glossopharyngeal neuralgia
9. Intrathecal morphine for postoperative pain relief in children—A comparison of 2 doses
10. Comparison of single tube versus two tubes technique of sub-mental intubation
11. Comparison of pain and postoperative nausea vomiting following vitreo-retinal surgery under general anaesthesia with sub-tenons block versus general anaesthesia in paediatric patients
12. To evaluate the postoperative pain and other post operative variables/complications with different surgical techniques of tonsillectomy
14. To study the efficacy of Clonidine Vs Dexamethasone as adjuvant to 1.5% Lignocaine with adrenaline for infraclavicular brachial plexus block: A prospective randomized placebo control study
16. Peri operative entrophy in paediatric day care surgery
17. Pediatric internal jugular vein cannulation: Comparison of land mark and real time ultra sound guided technique.

Collaborative Projects

Completed
1. Phenotypic and genotypic characterization of clinical isolates of Candida species, Ph.D thesis (with Department of Microbiology)
2. Comparative clinical proteomics and identification and characterization of new proteins, PhD thesis (with Department of Biophysics)
3. Efficacy and feasibility of regional anaesthesia compared to general anaesthesia for total extra peritoneal laproscopic inguinal hernia repair(with Department of Surgery)
4. Role of stem cells in liver cirrhosis due to congenital surgical anamolies, Phd thesis(with Department of Paediatric Surgery)

PUBLICATIONS

Journals

**Books**

**Chapters in Books**

**PATIENT CARE**
The following facilities are available in the department:
1. Pre-anaesthesia clinic (PAC): 3 days in a week (Monday/Wednesday/Friday), 2pm–5 pm.
2. Pain clinic: 3 days in a week (Monday/Wednesday/Friday), 2pm–5 pm.
3. Intervventional pain management procedures in the operation theatre once in a week.

**Operations/Procedures**

1. Main Operation Theatre
   - General Surgery 2744
   - Gastrointestinal Surgery 342
   - Urology 1385
   - Otorhinolaryngology 983
   - Gynaecology 1084
   - Paediatric Surgery 1387
   - Dental Surgery 162

2. Peripheral Operation Theatre
   - Maternity O.T. 1589
   - Orthopaedics 1900
   - Ophthalmic Surgery (RPC) 5736
   - Casualty OT 3

3. Interventional Pain Management Procedures 448

4. Procedures done under GA in peripheral areas:
   - Modified ECTs (Psychiatry OPD) 537
   - CECT/MRI 953
   - Paediatric USG (RPC) 154

**AB8/ICU**

- Total number of patients admitted 301
- Number of patients discharged 230
- Number of Deaths 77

**AB8 emergency duty**

- Emergency operations done 2901
- Emergency calls attended 2773
  (from wards, peripheral ICUs, casualty)

**OPD CLINICS: Total number of patients attended the clinic**

- Pre-anaesthesia clinic 8374
- Pain clinic - 5741

**Voluntary community service**

**Dr Chandralekha:** Governing Body Member and Advisor to the Council in the Centre of Social Research (NGO) and Women Power Connect.

**Dr Maya:** Provided Voluntary medical community services at Bhatti Centre in Radha Soami Satsang for 17 days. Provided first aid services, resuscitation and critical care till the patient is shifted to a AIIMS, New Delhi or Safdarjang Hospital. Dr Maya also provided medical service at the OPD of the dispensary at Bhatti Centre, New Delhi on all Sundays of the year except on when she was on emergency duty at AIIMS.
**Dr Maya** made a team of doctors with two other doctors who were in the department in the past but now working in other major Delhi hospitals organized a Teaching and Training Programme for Cardio Pulmonary Resuscitation (CPR) at Dera Hospital at Radha Soami Satsang Beas (Punjab) for doctors of different speciality working in different parts of Punjab for two days in December 2007.

**SIGNIFICANT EVENTS**

**Professor M.K. Arora** accompanied CBI team to Germany and provided medical assistance for extradition of accused fugitive AN Ghosh from Germany to India from 23 to 27 August 2007. This involved setting up of operation theatre with all drugs, monitors and resuscitation equipment in a chartered plane of Indian Air Force.

**Professor Ravinder Kumar Batra** was the expert for accreditation in postdoctoral fellowship programme in ‘Critical Care’ for National Board of Examinations, 2007; was nominated Member and Co-ordinator for Medical Council of India for ‘Upgradation of Curriculum in Anaesthesiology for Undergraduates and Postgraduates in Anaesthesiology 2007–2008’; was nominated Member of ‘Expert Group for Formation of Guidelines for Theory and Practical Examination for the DNB (Anaesthesiology) 2007’.
### 9.2 Anatomy

**Professor and Head**  
Rani Kumar

**Professors**  
Shashi Wadhwa  
R.D. Mehra  
T.S. Roy

**Additional Professors**  
A. Shariff  
Pushpa Dhar  
S.B. Ray

**Associate Professors**  
T.K. Das  
Rima Dada  
Arundhati Sharma  
(Related to Electromicroscopy)

**Assistant Professor**  
Renu Dhandra  
Renu Dhingra  
T.C. Nag  
(Genetics)

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**EDUCATION**

**Undergraduate**
The department conducts MBBS, BSc (Hons) Nursing and post certificate Nursing, Ophthalmic, Radiographic technique and Speech Therapy training courses. Five MBBS students from AIIMS were awarded Summer Research Fellowships for carrying out research in Genetics, Cell biology, Immunology and submitted short-term projects under Kishore Vaigyanik Puraskar Yojana (KVPY).

**Postgraduate**
Besides training MD, MSc and PhD 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. Three MSc students from Jiwaji University, Gwalior were trained in neuroanatomical techniques. The department provided training to 6 WHO fellows in genetics from February 2007 till July 2007. The faculty delivered series of lectures to MSc students in neurosciences, medical genetics and embryology in Jiwaji University, Gwalior. The faculty also delivered lectures on anatomy for postgraduate diploma course in Developmental Therapy (University of Delhi), School of Rehabilitation, Hauz Khas, New Delhi.

**Short- and long-term training**
Two trainees from Calcutta and Jiwaji University, Gwalior were trained for 6 months and 6, respectively in neuroanatomical techniques, immunohistochemistry, Western blotting and RT PCR. Eleven students were trained in genetics for short-term training. Two students, one each of BTech and MSc Biotechnology from Amity University worked for their summer training in the cytogenetics laboratory on basic cytogenetic and molecular techniques. Six WHO trainees from different parts of India received training for a period of 3 months in molecular genetic techniques, basic cytogenetics and prenatal diagnostic techniques for detection of chromosomal disorders using CVS, amniotic fluid and cord blood samples, Yq microdeletion analysis, analysis of oxidative stress from semen...
An eLearning facility has been established in the Department of Anatomy, which provides facilities to manage the UG and PG courses and coordinate the departmental activities like the Journal Club presentations and seminars. The PGs and PhD students are also using the eLearning facility for scientific literature search and activities related to their theses and research.

**Conferences organized**

**Dr A. Shariff**
Organized/Conducted the following:

- AIIMS-FAIMER NCME 2007, National Conference on Medical Education (NCME) 2007, in collaboration with the CMET, AIIMS and Foundation for Advancement of International Medical Education and Research (FAIMER), Philadelphia, USA.


**Lectures delivered**

**Professor Rani Kumar**

**Professor Shashi Wadhwa**
‘Neural substrate controlling regulatory systems and expression of behaviour’, DST sponsored First SERC School in Neurosciences, Department of Pharmaceutical Sciences, Nagpur University, Nagpur; 29 January 2008.

**Professor T.S. Roy**
‘Topography of the cerebral cortex’, DST and IBRO sponsored First SERC School in Neurosciences, Department of Pharmaceutical Sciences, Nagpur University, Nagpur.

**Dr S.B. Ray**

**Dr Rima Dada**
Guest lecture and demonstrated PCR based Yq microdeletion analysis at DBT sponsored ‘Hands on training workshop on methods in clinical diagnosis: Cytogenetics, biochemical, molecular and bioinformatic approaches’, Gwalior.

**Dr Renu Dhingra**
Dr R. Sehgal
‘Anatomy and embryology’ as guest faculty for the Royal College of Obstetrics and Gynaecologists North Zone Postgraduate Course at Amity University, Noida, 8 February 2008.

NATIONAL AND INTERNATIONAL CONFERENCES
The faculty delivered lectures, plenary talks and participated in the following:

Professor Rani Kumar

Professor S. Wadhwa
- Attended and presented her work at the Seventh IBRO World Congress of Neuroscience, Melbourne, Australia; 12–17 July 2007
- Participated and chaired a session in the National Symposium on Glial Neurobiology, Jiwaji University, Gwalior; 23 October 2007.
- Delivered an invited talk at the National Symposium on Science of Life: The New Horizon, Miranda House College, Delhi University, Delhi; 22 November 2007
- Presented a paper, chaired a session and judged the best paper presented award session at the 55th National Conference of the Anatomical Society of India, Mumbai; 26–29 December 2007.

Professor R. D. Mehra
- Delivered invited lectures on the following:

Professor T.S. Roy
- Participated in the Workshop on Multiphoton and Spectral Laser Scanning Microscopy, National Center for Ultrafast Processes, University of Madras, Chennai; 20–22 August 2007
- Participated and delivered lectures in the Second Meeting of the Asian Oceanic Pancreatic Association, Kobe, Japan; 18 October 2007 and International Symposium on Advances in Neurosciences and Silver Jubilee Conference of Indian Academy of Neuroscience, Banaras Hindu University, Varanasi; 22–25 November 2007.
Dr P. Dhar
- Participated and presented a paper in the National Conference of Anatomical Society of India, LTMMC, Mumbai; 26–29 December 2007
- Participated in Satellite Meeting for Free Radical Research (Society for Free Radical Research–India), AIIMS, New Delhi; 11-12 February 2008
- Participated in Conference on Economic Growth and National Integration, New Delhi; July 2007

Dr S.K. Basu Ray
Presented papers at
- Twenty-fifth Annual Conference of Indian Academy of Neurosciences, Banaras Hindu University, Varanasi; November 2007
- Twenty-third Annual Conference of Indian Society for Study of Pain’ held in Christian Medical College, Vellore; February 2008.

Dr Rima Dada
Delivered invited lectures on the following:
- Developmental Genetics of Post graduates of Molecular and Human Genetics, Centre for Molecular and Human Genetics, Jiwaji University, Gwalior, December 2007
- Mitochondrial mutations and oxidative stress in men with idiopathic OA- in Indian National Congress of Clinical Biochemistry, New Delhi, 17 December 2007
- Genetic aspects of infertility at the Conference on OMICS in 21st Century at the 5th International Symposium on Genetics, Health and Disease, GNDU, Amritsar, 19 February 2007
- ‘Genetics of male infertility and recurrent ART failure’ at the Symposium on Male Infertility, CDRI, Lucknow, also chaired a session, 14 March 2007
- Chaired a session on Male Reproductive health –Effect of Environmental factors on male reproductive health-Symposium on male Infertility at CDRI, Lucknow, 14 March 2008.
- Presented posters ‘Oxidative stress induced spermatogenic arrest in infertile Indian men’ and ‘Increased lipid peroxidation, low antioxidant levels, nucleotide changes in mt DNA in idiopathic asthenozoospermic men of Indian origin’ at the meeting of Society for Free Radical Research, AIIMS, New Delhi February 2008

Dr Arundhati Sharma
Delivered lectures on
- ‘Importance and awareness of genetic disorders and diagnostic tests in the Indian scenario’ in the National Seminar on Teratology and Genetic Disorders, Institute for Medical Sciences, BHU, Varanasi and also chaired a session in the seminar;
- ‘Amniocentesis for prenatal diagnosis of chromosomal anomalies’–Meeting of Delhi Society for Prenatal Diagnosis & Therapy (DESPAT), AIIMS, New Delhi, 8 March 2008
• Participated in the following meetings:
  • XXXIII Annual Conference of the Indian Society of Human Genetics and International Symposium on Genetics Revisited; the Genomics and Proteomics Advantage, Department of Human Genetics, Andhra University, Visakhapatnam, Andhra Pradesh, 11–13 February 2008
  • (Delhi Society for Prenatal Diagnosis & Therapy (DESPAT), AIIMS, New Delhi, 8 March 2008
  • Symposium on Fetal Interventions and Genetic Counseling for Major Congenital Malformations, Department of Pediatric Surgery, AIIMS, New Delhi, 3 October 2007
  • National Symposium on Immunity to Infection on the occasion of the 33rd Annual day celebrations of AIIMS, 8 October 2007.

Dr Renu Dhingra
Participated and presented a paper entitled ‘Plastination of embalmed and freshly preserved specimens of heart’ in the 9th International Interim Conference on Plastination, Ann Arbor, Michigan, USA 7–14 July 2007.

Dr Ritu Sehgal
Participated in the workshop on ‘Assessment Strategies in Medical Education’ K.L. Wig CMET, AIIMS, New Delhi, 21-23 February 2008.

PhD and MD students
Mr Kanhaiya Sharma participated and presented a poster in the 15th European Conference on ‘Apoptosis’ and also participated in a Training Course on ‘Concepts and methods in programmed cell death’, Portoroz, Slovenia, October 2007.

Dr Sonali Kataria, Senior Tutor of the department, participated and presented a poster on ‘Subiculum an important target of estrogenic action’, in the 7th IBRO World Congress, Melbourne, Australia, July 2007 She also was invited to spend a month at the Melbourne University as an Observer-cum-trainee.

Ms Shilpi Dixit participated and presented a poster in 2nd Workshop on Neural Stem Cells and Frontier Technologies for Brain Repair and 2nd Australian Workshop on Computational Neuroscience at Adelaide, South Australia, December 2007.

Mukesh Tanwar presented poster at the 16th Annual Meeting of Indian Eye Research Group, 28 July 2007; Ultrastructural changes and genetic study in PCG and associated CG with SWS.

RESEARCH

Funded Projects

Completed
Role of cell cycle regulatory genes in Breast Cancer patients and hormonal therapy. PI Rani Kumar. Funded by DBT for 3 years. Funds: Rs 21 lakh.

Ongoing

1 Influence of prenatal auditory stimulation on the development of synaptic proteins, brain derived neurotrophic growth factor and spatial memory in chick hippocampus. PI: Shashi Wadhwa.


Genetic and DNA fragmentation study in infertile couples opting for ART and couples experiencing recurrent IVF/ICSI failure. PI: Rima Dada. Funded by ICMR for 3 years 2008-2011. Funds: Rs 4.0 lakh.


Mutation analysis of 5q31-linked autosomal dominant corneal dystrophy in north Indian patients. PI Arundhati Sharma. Funded by AIIMS for 3 years (2005-2008). Funds: Rs 1.95 lakh.


**Departmental Projects**

**Completed**

Effects of arsenic exposure during early postnatal period on developing rat hippocampus

**Ongoing**

1. Effect of prenatal sound on the morphology of auditory and visual thalamic relay nuclei of domestic chick
2. Effect of prenatal chronic intense sound exposure on medio-rostral neostriatum/ hyperstriatum ventrale region of chick forebrain: A morphometric study
3. Hippocampal regulation of immune mechanism.
4. Development of the human auditory system
5. Age changes in the human cochlear nerve
6. Morphology of the fetal and adult human pancreatic duct system
7. Effects of arsenic exposure during early postnatal period on rat hippocampus
8. Effects of Perinatal Arsenic Exposure on rat testis: A morphological study
9. Effects of Lipoic acid as an antioxidant supplement on arsenic induced toxicity in developing rat hippocampus
10. Effect of sodium arsenite exposure during perinatal period on rat testis
11. Comparison of Yq microdeletions in genomic DNA isolated from blood and sperm
12. BPES and its association with premature ovarian failure
13. Cytogenetic and molecular studies in glaucoma
14. Role of circulating angiogenetic markers in the pathogenesis of preeclampsia
15. Placental apoptosis and oxidative stress in the pathogenesis of preeclampsia
16. Apoptosis in trophoblastic cells of human placenta in preeclampsia
17. Plastination of hollow organs
18. Plastination of brain
19. Oxidative stress in fluorosis
20. Effect of amyloid beta (1-42) on the morphology and protein profile of the rat hippocampus

Collaborative Projects
1. Brain aging and neurodegeneration: Neuroprotective and biomodulatory roles of estrogens and glucocorticoids (Indo-Hungarian Collaborative research project). Funded by DST. (with Semmelweis University, Budapest).
2. 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 (with Department of Surgery)
3. Role of free radical scavengers and the effect of antioxidants on their levels in patients with ankylosing spondylitis: To investigate the possible role of antioxidants as therapeutic agent in ankylosing spondylitis (with Department of Orthopedics)
4. Mutation analysis in congenital and developmental glaucoma and development in north Indian population (with RP Center).
5. Mutation spectrum of the CYP1B1 gene in north Indian, primary congenital glaucoma patients. (with R.P. Center).
6. Phase III clinical trial with intravasal injectable male contraceptive RISUG. (with Department of Biochemistry).

PUBLICATIONS
Journals
Abstract


**PATIENT CARE**

**Embalm ing of dead bodies**

1. For transportation 539
2. For teaching/research 18
3. Cytogenetic analysis 455
4. Yq microdeletion analysis by PCR 122
5. Chromosome analysis 375
6. Amniotic fluid/cvs/cord blood 77

**Fluorosis Diagnostic Laboratory: Fluoride estimation**

1. Urine 39
2. Blood/serum 37
3. Drinking water 98

**AWARDS AND HONOURS**

*Professor R. Kumar* was invited by Government of Sri Lanka to give guest lectures and have interactive sessions with faculty of various medical and dental colleges in Colombo w.e.f. 17-26
June 2007; continues to be (i) Member of Academic Committee of Gulf Medical College, Ajman
(ii) Member of Publication Advisory Committee of National Academy of Medical Sciences

**Professor Shashi Wadhwa** continued to be a member of the editorial board of the following journals: *J Biosciences, J Anatomical Society of India* and *Annals of Neurosciences.*

**Dr Mehra** was nominated as the Fellow of the Indian Academy of Neurosciences, January 2008.

**Dr P. Dhar** was conferred ‘Rashtriya Gaurav Award’ and Certificate of Excellence by India International Friendship Society, July 2007.

**Dr Rima Dada** received the following awards: (i) Rashtriya Gaurav Award and Certificate of Excellence for outstanding services and achievements, (ii) Rajiv Ratan Award in 2007. She was judged amongst the most distinguished personalities for her excellence of research in Genetics of Infertility in 2007 by India Publishing House, November 2007.

**Rakesh Kumar**, PhD Student, received the Best Oral Presentation award on the following papers: ‘Oxidative stress induced DNA damage and mutations in OXPHOS in infertile men in free radical biology meeting’ at the Society for Free Radical Research, organized by the Department of Biochemistry, AIIMS, New Delhi, 11–12 February 2008; and (ii) ‘Mitochondrial mutations in oligoasthenozoospermia’ at the Thirty-third Annual Meeting of Indian Society of Andrology, NIHFW, New Delhi, 15-16 December 2007.

**Miss Sraboni Chaudhury**, PhD student received the ‘SCITECHEDIT/IBRO 2007 – travel grant for attending IBRO World Congress 2007, Melbourne, Australia 12–17 July 2007 (she was selected as one of the two best applicant in Asia Pacific Region) where she presented a poster on ‘Effect of prenatal auditory stimulation on the synaptic density of chick hippocampus’. She received the Japan Neuroscience Society and Indian National Science Academy, Government of India travel awards to attend the Annual Meeting of Japan Neuroscience Society held at Yokohama, Japan, 10–12 September 2007 and presented a poster on ‘Altered levels of BDNF protein following prenatal auditory stimulation’. She also received the IBRO fellowship to attend 10th IBRO Associated School in Neuroscience held at Hangzhou, China; 24–28 October 2007.

**Mr Vikram Sharma**, PhD student was awarded research Fellowship under Indo-Finish Student Exchange Program for training under Dr Leonard Khirug at Neuroscience Centre, University of Helsinki, Finland for 6 months.

**Mr Prabhakar Singh**, PhD student of the department has been awarded following scholarships:
- IBRO travel award from International Brain Research Organization, Paris, France to attend the ‘Eleventh Associate School of Neuroscience’ and ‘Thirteenth Thai Neuroscience Society Conference’ held at Phitsanulok, Thailand; July 2007.
- Travel fellowship from the International Society for Neurochemistry to attend ‘International Symposium on Glia Activation and Function’, held at Dalian, China; October 2007
- Scholarship from Asia Pacific Society for Neurochemistry for attending the ‘Nineth APSN Neurochemistry School and Workshop’, held in Dalian Medical University, Dalian, China; October 2007.
Mr Kanhaiya Sharma, PhD student of the department was awarded ‘Marie Curie Scholarship’ of European Union.

Ms Neerja Rani was awarded the travel award from International Federation for Placental Association, August 2007.

Ms Betsy Varughese was awarded the Jawaharlal Nehru Scholarship for Doctoral studies for 2 years (2008-2010) from Jawaharlal Nehru Memorial Fund, New Delhi. She was also awarded the Senior Research Fellowship from April 2008 for three years from ICMR.

SIGNIFICANT EVENTS

Professor Rani Kumar continues to be (i) Chairperson of Curriculum Committee Phase-I MBBS teaching; and (ii) for professional examinations for UGs and PGs of Anatomy; (iii) Member, Editorial Board, Journal of Anatomical Society of India; Chairperson, Store Purchase Committee, AIIMS; Incharge of B. B. Dixit Library, AIIMS; was President of DASMOS (DELHI ASSOCIATION OF MORPHOLOGICAL SCIENCES), Delhi. She was appointed as external expert for selection of faculty positions in Anatomy at Dental College, Chandigarh; Advisory member for selection of Members and Fellows of NAMS

Professor S. Wadhwa was nominated as Expert Committee member for selection of DST BOYSCAST Fellows, Advisory Panel member for election of NAMS Fellows and Expert Committee member for IRPHA Centre of Excellence at JNU, New Delhi. She was nominated as NAMS observer for CME on ‘Teaching of neuroanatomy—A clinical perspective’ held at Chandigarh Government Medical College, Chandigarh; 13–14 October 2007. She was also nominated member to Planning and Monitoring Board, Selection as well as Assessment Committee of NBRC, Manesar, Haryana. She was invited to validate a chapter on cell division and cell signaling by NISCAIR, New Delhi for an ebook on Cell Biology and Membrane Biochemistry for National Scientific Digital Library. She was invited as subject expert to the Selection Committee of Jawaharlal Nehru University, New Delhi. She continued to be a member and attended the meetings of the CSIR Travel Awards committee. She reviewed research papers submitted to J Neurobiology, J Biosciences and J Anatomical Society of India. She also reviewed neuroscience research projects and annual project reports for ICMR, DST and DBT.

Professor R. D. Mehra participated and presented a poster on ‘Memory and immune regulation: Implications of estrogen therapy’. in the Thirteenth International Congress of Immunology, Rio de Janeiro, August 2007. She was also invited as an Observer to the IUIS Council and General Assembly meeting. She also visited the FIO CRUZ Institute and Health Sciences University of Rio de Janeiro.

Professor T.S. Roy was member of the expert committee for upgradation of Kolkata Medical College, under the Pradhan Mantri Swastha Suraksha Yojna. He continued to be a member of the Editorial Board of Pancreas.

Dr A. Shariff has been selected as a member of a High Level Committee formed by the Ministry of Health and Family Welfare (MOHFW), Government of India, under the Chairmanship of Additional Director General of Health Services, to formulate guidelines for implementation of National Health Information Network according to recommendations of the National Knowledge Commission to the Prime Minister of India.

Dr P. Dhar was elected BTS Member of the British Toxicology Society, November, 2007); Vice President of ASI during Annual Conference of ASI (55th NATCON), Mumbai, December 2007; Nominated as General Secretary of DASMOS (Delhi Association of Morphological Sciences), 2007; invited for Author-Publisher meet (J. P. Publications), April 2007. He continues to be Member, Curriculum Committee for UG (AIIMS), Vice President – A.I.B.A., Life Member, Jagruti Kiran Foundation (recognized by the Ministry of Environment and Forests, Government of India)

Dr Rima Dada was Invited to be a member of Editorial Board of the Journal of Paediatric Neurology and Online Journal of Health and Allied Sciences. Reviewed articles for Fertility and Sterility, expert Reviews in Gynaecology and Obstetrics, Asian J Andrology, Indian J Medical Res, Indian J Urology; Member, ICMR task force on male Infertility. Reviewer for projects and annual reports submitted to ICMR, evaluated 2 MD thesis in Genetics; was nominated as Member of NAMS in Genetics, External examiner for advanced genetics course in GNDU, November 2007; Member Core committee for AIIMS convocation and Antiragging committee, Chaired session on ‘Male reproductive health–Effect of environmental factors on male reproductive health’ in the Symposium on male infertility, CDRI, Lucknow, 14 March 2007. Appeared on TV for NDTV, Star Plus and India TV channels for increase public awareness about affect on lifestyle on male reproductive health and effect of EMR on male reproductive health. Her articles on effect of clothing, lifestyle and smoking on male reproductive health appeared in The Times of India, The Hindustan Times and the Asian Age.

Dr Arundhati Sharma was appointed reviewer for European Journal of Obstetrics & Gynecology and Reproductive Biology (EJOGRB). Worked as external expert on the Post Graduate Board of Studies in Biochem and Genetics (P.G. BOS) of MD University, Rohtak.

Dr R. Dhingra worked as resource faculty in ‘National Workshop on Assessment Methods for Learning Evaluation in Basic Medical Sciences’, AIIMS, New Delhi; nominated as executive member for DASMOS (Delhi Association of Morphological Sciences).

Dr T. C. Nag continued to be a member of International Society for Eye Research.

Visiting Scientist
## 9.3 Biochemistry

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### EDUCATION

#### Undergraduate

The department continues with its undergraduate (UG) teaching programmes including MBBS (two semesters), Nursing (one semester) and BSc (Hons) Nursing (one semester).

For the MBBS students, an innovative blend of problem based/case oriented small group discussions, interactive lectures and lab-based exercises is streamlined to facilitate self directed reason based learning. Eight to ten students are distributed in different groups. Each group discussion is facilitated by a faculty member and tutors. New problem based modules on pH and electrolyte balance, endocrine-metabolic interrelationships and immunodeficiency had been incorporated to facilitate the understanding of the concepts of biochemical regulation and molecular medicine. Student’s feedback on Biochemistry (practical and theory) classes is made a compulsory item in the teaching schedule.

#### Postgraduate and Research

These include 6 MSc (first and second year) students and 7 MD students. The department also has 41 PhD students.

#### Short-term training

Summer training in research was provided to MBBS students from AIIMS. Ten MBBS (first year) students have conducted project work for the Kishore Vaigyanik Protsayan Yojana (KVPY) Scheme of the DST in different labs of the department and 5 students have been awarded the fellowships. Twenty students from India received short-term training for 3 to 6 months. The department also imparted short-term training (1 month) to 2 MSc students from B.P.Koirala Institute of Health Sciences (BPKIHS, Dharan, Nepal).

#### Continuing Medical Education

National and International Conferences

Lectures delivered

Subrata Sinha
2. ‘Molecular analysis of malignancy’, Workshop on Basic technique in Molecular Biology, Bhubaneshwar; 11-15 December 2007
3. ‘Genomic instability and mutations influencing phenotype: Contrasts in high and low grade tumours’, 27th Annual Convention of Indian Association for Cancer Research (IACR), Ahmedabad, 7-9 Feb 2008

Neeta Singh
2. ‘Assessment of viral factors involved in cervical cancer pathogenesis’, International Papilloma Conference held in Beijing, China; 3-9 November 2007 (Poster)
5. ‘Molecular epidemiology of HPV types prevalent in cervical cancer in India and identification of HPV 16 L1, E6 and E7 variants’, International Conference on Emerging and Re-emerging Viral Disease of the Tropics and sub-Tropics, New Delhi; 11-14 December 2007
7. ‘Environment related hazards and nutrition and remedies, Seminar on Chemistry, Environment and You’, Gargi College, Delhi University, 26 September 2007
8. ‘HPV and cervical cancer’, Hyderabad University, Hyderabad; 15 October 2007
10. ‘Natural products and cancer’, Refresher Course, Chemistry Department, Delhi University, Delhi; 7 January 2008.

D. N. Rao
1. ‘T cell anergy and its reversal in leprosy patients’, Indian Immunology Conference, NARI, Pune; 20 December 2007
2. ‘Developing peptide based vaccine for plague’, SBC meeting, Tirupathi; 26 November 2007
3 ‘Nanoparticles as vaccine delivery’, National Biotechnology Symposium, Andhra University, Vishakapatnam; 16 September 2007
4 ‘Immunoadjuvants and nanoparticles as vaccine delivery,’ Indian Society for Parasitology Conference, Andhra University, Vishakapatnam; 20 December 2007

Nibhriti Das
2 ‘Effective feedback: Feedback for students and evaluation of teachers by students: Is there a scope?’ Workshop on Assessment Strategies in Medical Education. K.L. Wig CMET, AIIMS, New Delhi; 21-23 February 2008
3 ‘Association of paraoxonase enzyme activity and paraoxonase gene polymorphisms with Coronary Artery Disease (CAD) in the Indian subjects’, 20th Annual Conference (ISARCON-2007), Tirupati, Andhra Pradesh; 22-23 December 2007
5 ‘Effect of cytokines and immune complex on CR1 expression and its significance in SLE’, 34th Annual Conference Indian Immunology Society, Pune; 16-18 December 2007

Ranju Ralhan
1 ‘Proteomic biomarkers and drug targets for oral precancer and cancer: Challenges and opportunities,’ National Institute of Craniofacial and Dental and Research, National Institutes of Health, Bethesda, Maryland, USA; 20 March 2008
2 ‘Discovery and verification of head-and-neck precancer and cancer biomarkers by differential protein expression analysis using iTRAQ-labeling and multidimensional liquid chromatography and tandem mass spectrometry,’ Fifth Early Detection Research Network Scientific Workshop, Poster Highlights Session, Bethesda, Maryland, USA; 17-19 March 2008
6 ‘Discovery of novel cancer biomarkers and drug targets using proteomics’, Institute of Pathology, New Delhi; 16 January 2008
7 ‘Oncoproteomics for discovery of novel anticancer drug targets: The road ahead,’ 2 International Conference of Society for Translational Cancer Research, Natural Products and Cancer, Lonavala; 9-12 December 2007
S.S Chauhan
‘Transcriptional and translational regulation of expression of human cathepsin L, a lysosomal protease involved in tumor invasion and metastasis,’ 34th Annual Conference Clinical Biochemists of India, New Delhi; 18-20 December 2007

M.R. Rajeswari
‘Structural and functional role of DNA triplex associated with GAA/TTC repeat expansion in neurological disorder, Friedreich’s Ataxia, Vellore Institute of Technology, Vellore, Tamilnadu; 10 September 2007

Kalpana Luthra
As a resource person, gave a talk at the Workshop on Effective Teaching and Learning Strategies, AIIMS, New Delhi; January 2008

Alpana Sharma

RESEARCH

Funded Projects

Completed

Ongoing
4. Funds for improvement of Science and Technology Infrastructure in universities and higher educational institutions (FIST). Subrata Sinha. Funded by DST for 5 years (2005-2010). Funds: Rs 115 lakh.
9. 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 (2006-2009): Funds: Rs 15 lakh.


30. 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 (2005-2008). Funds: Rs 2.75 lakh.


34. Studies on SREBP-mediated regulation of low-density lipoprotein receptor (LDLR ), low-density lipoprotein receptor-related protein ( LRP ) and receptor-associated protein ( RAP ). N.C. Chandra. Funded by DST for 3 years (2006-2009). Funds: Rs 22.99 lakh.

**Departmental Projects**

**Ongoing**
1. Molecular detection and genotyping of HPV in uterine cervix –A population based study
3. Effect of curcumin on advanced cervical cancer
4. Development of HPV-16 candidate vaccine prototype
5. Evaluation of efficacy of curcumin as an adjuvant along with radiotherapy and chemotherapy in advanced cases of cervical carcinoma
6. Role of eNOS gene polymorphisms in coronary artery disease in the Indian subjects.
7. Paraoxonase and its gene polymorphism in relation to CAD.
8. Elucidation of the expression of complement regulatory proteins in relation to the pathophysiology and severity of SLE.
9. Role of complement receptors in cell signaling and microbicidal properties of macrophages in relation to mycobacterium tuberculosis.
10. Complement Receptor 1 and its gene polymorphism in relation to the pathophysiology and susceptibility to severe malaria

**Collaborative Research**

**Completed**
1. A study of the expression & targeting of IAPs *in vitro*, and an analysis of their expression in head and neck cancer.
2. Study of the function of mitochondria in apoptosis and human disease
3. Analysis of apoptotic signalling mechanism induced by Benzamide Riboside and ATP analogs
4. Evaluation of molecular markers and anticancer agents in lung cancer
5. HPV and the genetics of cervical cancer
6. Molecular and biological factors in the pathogenesis of ovarian cancer
7. Expression of leukocyte Complement Receptor 1, its modulation and significance in the pathophysiology of systemic lupus erythematosus (SLE)
8. A comparative evaluation of levels of interleukin-1-â in GCF during canine distraction and canine refraction (with Department of Dental Surgery).
9. Detection of apoptosis in human periodontal ligament during orthodontic tooth movement. (with Centre for Dental Education and Research).

**Ongoing**
1. Elucidation of the role of the hypermethylation in cancer (HIC-1) gene in glial tumorigenesis (with Departments of Pathology and Neurosurgery).
2. Role of 1p and 19q loss of heterozygosity in human gliomas (with Departments of Pathology and Neurosurgery).
3 DNA fingerprinting methods for study of genetic alterations in gliomas (with Departments of Pathology and Neurosurgery).
4 MRI studies on murine liver and skin tumors (with Department of NMR)
5 Histopathological investigations on murine skin and liver tumors (with Department of Histopathology).
6 Isolation and analysis of the outer membrane proteins, beta lactamases of Acinatobacter Baumanii (with Department of Microbiology).
7 Structural investigations on the native and mutated outer membrane protein from Acinatobacter Baumanii (with Department of Bioinformatics, JNU).
8 Levels of interleukin-1-â in GCF during retention after successful orthodontic treatment (with Department of Dental Surgery).
9 Neurological disorders Freidreich’s ataxia and spiniocerebellar ataxia associated with DNA trinucleotide repeats: identification and development of protein biomarkers and Circulating DNA for clinical diagnosis (with Department of Neurology).
10 Utility of antigen detection from the epidermis of Indian patients in pemphigus vulgaris. (with Department of Dermatology and Venereology)
11 A prospective study of oxidative stress markers and antioxidant levels in patients with pre-eclampsia (with Department of Obstetrics and Gynecology).
12 A pilot study to evaluate the inter-relationship of insulin, insulin receptor and LDL receptor in patients of Type 1 diabetes mellitus (with Departments of Endocrinology & Metabolism and Cardiology).
13 A case control pilot study on LDL receptor expression and serum lipid profile in cancer patients (with Departments of Obstetrics & Gynecology and Surgery).
14 Genetic diversity of Entamoeba histolytica isolates and identification of genotype-clinical phenotype correlations (with Department of Gastroenterology).
15 T-cell response in Parthenium induced contact dermatitis (with Department of Dermatology & Venereology).
16 Immunohistochemical and molecular studies on Wnt/â-catenin Signaling pathway in sebaceous cell carcinoma of the eye lid. (with Dr R.P. Centre for Ophthalmic Sciences).
17 Association of COMT catechol-O-methyltransferase gene polymorphism G158A in obsessive compulsive disorder in Indian subjects. (with Department of Psychiatry).
18 Development of HPV candidate vaccine/s; preparation of clinical trial site/ cohort for vaccine testing. (with Department of Gynaecology & Obstetrics).
19 Effect of curcumin on advanced human cervical carcinomas. (with Department of Gynaecology & Obstetrics).
20 Culture of limbal stem cells for ocular surface reconstruction in stem cell deficiency disorders. (with Dr R.P. Centre for Ophthalmic Sciences).
21 Detection of apoptosis in human periodontal ligament during orthodontic tooth movement. (with Centre for Dental Education and Research).
22 Detection of HPV in malignant ocular lesions. (with Department of Gynaecology & Obstetrics).
23 Programme support for production of diagnostics and development of prophylactics for neglected infectious disease with filariasis as a model. (with CBT, Anna University).
24 PHASE II/ III randomized placebo controlled clinical trial of curcumin in respectable stage III and IV squamous head and neck cancers (oral cancers). (with Dr BRA IRCH).
25. Investigations of genetic basis, and gene-lifestyle interactions in generalized and regional obesity, insulin resistance and diabetes in Asian Indians. (with Department of Medicine).
26. Molecular analysis of gene markers in urine cytology and tissue histology specimens of Indian patients with superficial and muscle invasive TCC of urinary bladder. (with Department of Urology).

PUBLICATIONS

Journals


### abstracts


### patient care

Marker tests for pregnancy and prostate cancer:
PSA: 275 samples
Âéta hCG: 255 samples

### awards and honours

**Dr Subrata Sinha** elected as Fellow of the National Academy of Medical Sciences  
**Dr Neeta Singh** IPVS Travel award by International Papillomavirus Society  
**Dr. D. N. Rao** ICMR prize for Biomedical Research for the year 2005. Delivered key note address during Bioinformatics Conference, Biotechnology Department, AMU, Aligarh on March 16, 2008.
**Dr Nibhriti Das** Life Membership of National Environment Science Academy (NESA), Indian Immunology Society (IIS) and affiliated International Immunology Societies (IUIS, AIS, FIMSA).

**Dr Ranju Ralhan** Ranbaxy Visiting Professorship Awarded by Ranbaxy Science Foundation, 2008, UICC NCI- Novartis Translational Cancer Research Fellowship (TCRF) 2007

**SIGNIFICANT EVENTS**

**Dr. Subrata Sinha** Member of Project Review Committee (PRC), Chronic Diseases, Department of Biotechnology (DBT), 2005–07; 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, Institutional Biosafety Committee and Ethical Committee, National Institute of Immunology, (2000 -till date); Institutional Ethics Committee, JNU, 2001-till date; Academic Committee, JNU-Center for Cellular and Molecular Biology, 2006-07; Sectional Committee, Medical Sciences, INSA; Committee for Biochemistry Curriculum, MCI

**Dr Neeta Singh** Member, Scientific Advisory Committee of DRDO; Participated at the International Papilloma Conference at Beijing, China; 3-9 November 2007; Member, Project Review Committee of DBT, DST, ICMR; Reviewer for *Indian J Med Res, Intl J Biochem and Cell Biol*; Member, Indian Women Scientists Association, Indian Society of Lung Cancer and Indian Society for Free Radicals Research in India; Member of experts committee on evaluating the effect of RFR on human health of ICMR Member of subject expert – Life Sciences Committee of Women Scientists Scheme of DST; Chaired a session at Molecular Medicine Update , New Delhi; 28-29 March 2008

**Dr D.N. Rao** Organized Satellite Meeting of Free Radicals Research at AIIMS, 11-12 February 2008; Chairman and Member of Technical Advisory Committee of ICMR, Core Selection Committee of ICMR; Member of Board of studies of Jamia Hamdard and Aligarh Muslim University; Member of the Ethical Committee for small animals and Officer-in-Charge of Central Animal Facility, AIIMS Project review Committee of DBT, DST, CSIR, ICMR; Reviewer for *Vaccine, Mol Cell Biochem, Oncology and Indian J Biochem and Biophysics*

**Dr Nibhriti Das** Member of the International Complement Society; Professional Member American Heart Association; Member of the Executive Committee of NESA and ISAR; Life member of Society of Cell Biology, Association of Clinical Biochemists of India & Indian Society of Atherosclerosis Research (ISAR).

**Dr Ranju Ralhan** Councillor, International Academy of Oral Oncology, 2007; Editorial Board Member of *Carcinogenesis, Oral Oncology, International Journal of Cancer*

**Dr M R Rajeswari** Member of the Project Review Committee (Neurochemistry), ICMR; Member of the selection committee at National Accreditation Board for Testing and Calibration Laboratories, DST, New Delhi; Reviewer for *J Mol Structure, Indian J Biochem and Biophys*

**Dr Kalpana Luthra** Joint Organizing Secretary of Satellite Meeting for Society for Free Radical Research-India (SFRR), AIIMS, New Delhi; February 2008

**Dr Alpana Sharma** Organizing Committee Member of Satellite Meeting for Society for Free Radical Research-India (SFRR), AIIMS, New Delhi; February 2008; Reviewer for *Int J Gynecol Cancer, Eur J Reprod Immunol, Am J Reprod Immunol, Indian J Clin Biochem*

**Dr N.C. Chandra** Treasurer in the Satellite Meeting for Society for Free Radical Research-India (SFRR), February 2008
9.4 Biomedical Engineering

Professor and Head
Sneh Anand

Professors
Dinesh Mohan
A.R. Ray
Harpal Singh

Associate Professor
Veena Koul

Principal Scientific Officer-I
Nivendita K. Gohil

Senior Design Engineer
S.M.K. Rahman

EDUCATION
National and International Conferences/Seminars/Workshops

Professor D. Mohan
- Seventh Eastern Asia Society for Transportation Studies International Conference, Dalian, China; 24-28 September 2007.

Professor A.R. Ray

Professor Veena Koul
- Second International Conference on Translational Research, Pune; 9-12 December 2007.

RESEARCH
Sponsored research and consultancy projects
8 Studies of the fallopian tube function with luminal implants. J. C. Bhardwaj. Funded by M/S. Marksans Ltd. (till 2007). Funds: Rs 5.17 lakh.
15 Sustainable urban transport in less motorised countries: Research and training (RPO1507). Dinesh Mohan. Funded by The Volvo Research Foundations (till 2008). Funds: Rs 64.56 lakh.
17 Development of polymer matrices from renewable resources for enzyme Linked immunosorbent assay (RPO 1653). Harpal Singh. Funded by DST. (till 2007). Funds: Rs 26 lakh

Technology transfer and Patents

**Know-how developed/transferred**

Bone cement technology has been patented and commercialized by XL ORTHOMED, Faridabad, Haryana.

**Patent**

1. A novel contact killing antimicrobial quaternary amine acrylate copolymer and their applications thereof. Harpal Singh (Supriya Singh) DEL/2525

**PUBLICATIONS**

**Journals/Conferences/Seminars**


**AWARDS AND HONOURS**

**Professor Sneh Anand** Shiksha Rattan Puraskar for excellence in teaching.  
**Professor A. R. Ray** Tata Innovation Fellowship
9.5 Biophysics

Associate Professor and Head
Krishna Dalal

Associate Professors
A. Srinivasan Punit Kaur

Assistant Professors
Savita Yadav Sujata Sharma

Scientists
Sharmistha Dey S. Baskar Singh Asha Bhushan

EDUCATION
The faculty of the department participated in and delivered 35 lectures in continuing medical education programmes and symposia, national and international conferences during the year.

RESEARCH

Funded Projects

Completed

Ongoing

**Departmental Projects**
1. Structural and stability studies on antimicrobial lactoperoxidase.
2. Purification, crystallization and structure determination of prostate specific antigen from human seminal plasma.
3. 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.

**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:
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 – BIA-core instrument
5. Peptide synthesis
6. X-ray intensity data collection for small molecules
7. X-ray intensity data collection for macromolecules

**AWARDS/HONOURS**

**Dr Punit Kaur** has been nominated as a member of the National Academy of Medical Sciences, India.

**Dr Sujata Sharma** has been awarded the National Women Bioscientists Award for 2007 which was given by Her Excellency, The President. She has also been awarded the ‘Women Scientist of the year 2006’ of the Biotech Research Society of India (BRSI).

**Dr S. Baskar Singh** has been awarded INSA fellowship for 3 months to undertake advanced research work in the area of Molecular Biology in Germany, under International Collaboration/Bilateral Exchange programme during 2008-2009.

**Dr S. Dey** awarded the Overseas Associateship award from the Department of Biotechnology, Government of India, 2007.

**Ms A. Bhushan** was selected as the outstanding scientist of the 21st century award by International Biographical Centre, Cambridge, England.

**SIGNIFICANT EVENTS**

Ms A. Bhushan attended the Structure determination (BIOXIT) course in crystallography in Heraklion, Greece; 23–25 June 2007.

The department is involved in the Clinical Proteomics programme supported by the DBT.

**VISITING SCIENTISTS**

Dr D. Velmurugan, Chennai; Dr K. L. Khanduja, Chandigarh; Dr M. Vijayan, Bangalore; Dr Ch. Betzel, Germany; Dr R. Barthwal, Roorkee.
9.6 Biostatistics

Additional Professor and Head
S. N. Dwivedi

Professor (on long leave)
R. M. Pandey

Associate Professor
V. Sreenivas

Scientific Staff

<table>
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<tr>
<td>Scientist-IV</td>
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<td>Ashish Upadhyay</td>
<td>Bhupinder Singh</td>
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EDUCATION
The department conducts Biostatistics classes for the following courses:

MD (Community Medicine); MBiotech; MSc (Nursing); MBBS (3rd Semester); MBBS (5th Semester); BSc (Medical Technology in Radiography); and BSc (Nursing).

Lectures delivered by departmental faculty and staff

Drs S.N. Dwivedi and V. Sreenivas
- 5 lectures on Biostatistics for DNB students through the Indira Gandhi National Open University’s Video Conferencing Facility, National Board of Exams, New Delhi; 10 May 2007.
- 15 lectures (evening classes) on Research Methodology and Biostatistics for the new Residents and PhD students, AIIMS.

Dr S.N. Dwivedi
- An invited talk on ‘Types and design of clinical trials’ during a Training Workshop on Research Methodology for the Faculty Members of Government Ayurvedic Post-Graduate Institutions organized under WHO Biennium, New Delhi; 15-16 December 2007.
- An invited talk on ‘Study designs and causality in medical research’ at a National seminar held at Panjab University, Chandigarh; 18-19 March 2008.

Dr V. Sreenivas
Participated as a faculty for the practical orientation on Survival analysis, organized by the Clinical Epidemiology Unit, AIIMS.

Dr Guresh Kumar
2 lectures on application of Epi_info statistical software at the NIHFW, New Delhi; 1-2 November 2007.
Ms Kalaivani
‘Application of statistical methods by SPSS’ for the PhD scholars in Nursing, through video conferencing organized by the Indian Nursing Council, New Delhi.

NATIONAL AND INTERNATIONAL CONFERENCES

Lectures delivered by the faculty and staff
Dr S. N. Dwivedi delivered an invited talk on ‘Structure of a research proposal’, pre-conference seminar on ‘Research Methodology for Health Sciences’, Annual Conference of the Indian Society for Medical Statistics, Manipal University, Manipal; 29 November-2 December 2007.


RESEARCH

Funded Projects

Completed

Ongoing
1 A study on primary, secondary and tertiary delays for prevention and treatment to breast, oral and oesophagus cancer patients. S.N. Dwivedi. Funded by the ICMR for 3 years (2007-2009). Funds: SRF.
3 Development of appropriate prevention and intervention strategies for non-communicable nutritional related disorders among women in post-reproductive period. R.M. Pandey and Ms M. Kalaivani. Funded by the DST for 3 years (2006-2008). Funds: Rs 8.0 lakh.

Departmental Projects

Ongoing
1 A biostatistical study on pattern of referral and timing of treatment of cancer patients with special reference to breast cancer (with the Dr B.R. IRCH).
2 Comparison of some statistical models in the survival of acute liver failure (with Department of Gastroenterology)

Collaborative Projects
1 Efficacy of radio-frequency ablation and percutaneous acetic acid (PAI) in the management of small hepatocellular carcinoma (HCC) in patients of cirrhosis of liver (with the departments of Gastroenterology and Radio-diagnosis).
2 Randomized controlled trial (RCT) of transarterial chemoembolization (TACE) versus TACE and oral drug therapy in the treatment of unresectable hepatocellular carcinoma (with the departments of Gastroenterology and Radio-diagnosis).

PUBLICATIONS
11. Sharma SK, Mishra HK, Sharma H, Goel A, Sreenivas V, Gulati V. Tahir M. Obesity, and not obstructive sleep apnea, is responsible for increased serum hs-CRP levels in patients with sleep-disordered breathing in Delhi. *Sleep Med* 2007 July 6 [Epub].


**AWARDS AND HONOURS**

**Dr S.N. Dwivedi** was awarded a WHO fellowship on Epidemiology and Biostatistics and availed of the same at the Faculty of Medicine, Khon Kaen University, Thailand; 1 July 2007 to 15 August 2007; Member of expert group attending Steering Committee meeting related to a multicentric study on ‘Estimating the preventable burden of Hib meningitis and pneumonia in India’, ICMR, Ministry of Health & Family Welfare and DBT, Government of India; nominated as one of the Editors, *Demography India*; External Examiner for evaluating Ph.D thesis submitted at Gauhati University, Assam and Nagpur University, Maharashtra; Expert for promotion as Professor of a Faculty at Zamia Hamdard, New Delhi

Dr Dwivedi continued as Member, Scientific Advisory Committee of National Institute of Medical Statistics, ICMR, New Delhi; External Expert Member, Board of Studies on Health Statistics, Institute of Medical Sciences, BHU, Varanasi; Member, Editorial Board, *Indian Journal of Chest Diseases & Allied Sciences*; Reviewer, *Indian Journal of Medical Research*; *International Society
for Clinical Biostatistics; Assam Statistical Review; Demography India; Journal of Royal Statistical Society, UK (Series A); and Contribution to Applied and Mathematical Statistics (Gauhati University); Member, Editorial Advisory Committee of the international journal—Biometrics; Member, Editorial Advisory Board, Demography India; Statistical Consultant, Indian Journal of Psychiatry (IJP); Member of the Task Force Group constituted by the ICMR to look into the current status of activities and provide directions to future research needs regarding toxic gas exposed people at Bhopal; Chairman/ Member of the Screening/ Selection Committee at (i) National Institute of Medical Statistics, New Delhi; (ii) Indian Council of Medical Research, New Delhi; and (iii) All India Institute of Medical Sciences, New Delhi; Elected Member, International Union for Scientific Study of Population (IUSSP), France; Member, International Society for Clinical Biostatistics, Geneva; Elected Member, International Statistical Institute, The Netherlands; Member, International Epidemiological Association, USA; Fellow of the Royal Statistical Society, UK; Correspondent from Indian Region for the Biometric Bulletin of the International Biometric Society

Dr V. Sreenivas was awarded the Commonwealth Academic Staff Fellowship and availed of the same at the London School of Hygiene & Tropical Medicine, London, United Kingdom from 1 October 2007 to 31 March 2008; Nominated as Member Secretary, Data and Safety Monitoring Board (DSMB) for 3 research projects sponsored by the Department of Biotechnology, Government of India; Member, International Clinical Epidemiology Network (INCLEN) and Journal of Clinical Epidemiology (JCE) Joint Editorial Committee for the Journal of Clinical Epidemiology; Member, Review Committee on Non-communicable Diseases, Indian Clinical Epidemiology Network (IndCLEN); Advisor (Biostatistics) to the Journal of Neonatology, India
9.7 Biotechnology

Professor and Head
Y.D. Sharma

Professors
J.S. Tyagi
H.K. Prasad

Additional Professor
S.N. Das

Assistant Professor
Anushree Gupta

EDUCATION

Post Graduate Teaching
The department continues with its 2 years postgraduate 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 content of the course is updated at frequent intervals to accommodate latest development in the field. The Bioinformatics course was expanded to a 5.5 credit (theory) and 4.0 credit (practical) points with introduction of newer topics in the fields of QSAR and metabolic networks. 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 PhD program in the area of Medical Biotechnology.

Short-term Training
The Faculty of the department provided summer training to students from the Universities of Amritsar, Rajasthan, Delhi, Gwalior, Haryana and institutions such as the Indian Institute of Technology, Roorkee; Jaypee Institute of Information Technology, Noida, UP; Indraprastha Engineering College, Sahibabad, Ghaziabad (UP); Bioengineering and Research Centre (Maharishi Dayanand University), Faridabad; Sindhu Mahavidyalaya, Nagpur.

Students and faculty from Department of Biotechnology, V.E.S. College of Arts, Science and Commerce, Chembur, Mumbai visited the department during November 2007.

Long-term Training
Faculty of the department provided long-term training to two scientists from Maulana Azad Medical College, New Delhi and Central Research Institute (AY), CCRAS, Department of AYUSH, New Delhi; under WHO Training program. Dr. Lt. Col. M. Kumar DBT-post doctoral fellow (DBT-
completed 2 years training in December 2007. Dr. Rajesh K. Gupta is presently undergoing training as DBT-PDF.

National and International Conferences

Lectures delivered

Dr. Y.D. Sharma

- ‘Does genetic mutations in malaria match the ecological changes’, Annual Meeting of Indian Academy of Sciences, Thiruvananthapuram; October 2007.
- ‘Molecular epidemiology of drug resistant malaria’, International symposium on Molecular aspects of Malaria Research, Jabalpur; October 2007.

Dr. J.S. Tyagi

- Foundation Day Lecture, National JALMA Institute of Leprosy and Other Mycobacterial Diseases, Agra; December 2007.

Dr H.K. Prasad

- ‘Modulation of immuno-competent cells by M. tuberculosis’, Indo-Swedish Interactive Meeting on Biology, Diagnosis and Treatment of TB, Ministry of Science and Technology, Department of Biotechnology, New Delhi; 11-12 February 2008.

Dr S. N. Das

RESEARCH

Funded Projects

Ongoing


Completed


**Collaborative Projects**

**Ongoing**

1. ‘High throughput PCR assays for diagnosing tuberculosis caused by *Mycobacterium tuberculosis* and *Mycobacterium bovis* using molecular beacons.’ Co-Principal Investigator: H. K. Prasad
3. ‘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: H.K.Prasad. Funded by DBT for 2 years (2007-2010). Funds: Rs 40.34 lakh.
5. Studies to evaluate neoadjuvant chemotherapy followed by postoperative chemotherapy and assess the expression of multidrug resistance gene and cell cycle specificity in locally advance gastric and gastroesophageal junction adenocarcinoma (with BRA-IRCH).
6. Studies on P21 proteins as a potential tumour marker in Oral cancer patients (with BRA-IRCH and Department Biophysics).
7. Imbalance between Endothelin-1 and plasma nitric oxide products influence the outcome in children suffering from severe pulmonary hypertension due to congenital heart disease (with Department of Cardiac Anaesthesia, CTC).

**PUBLICATIONS**


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**PATIENT CARE**

**Patents**

International Application # PCT/N03/00302 dated 9.9.2003 on ‘The Characterization of *HupB* Gene Encoding Histone like Protein of *Mycobacterium Tuberculosis*’ filed in the name of DBT and AIIMS.

1. European 03813287.4-2402-IN0300302
2. U.S. 10/540,086-IN0300302
3. Chinese 03825875.7-IN0300302

**Patents Awarded**

1. South African 2005/05007-IN0300302
2. Indian 1274/DEL/2002

**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, Rajasthan Government State Biotechnology Advisory Board; Member, DBT Task Force Sub-committee on Human Resources Development; Task Force Member, DBT’s International Project Advisory Committee (IPAC); Member, JRF examination of DBT; Member of Course Curriculum Committee for PG program in Biotechnology of DBT. He was chairman of Sub-group on Medical Biotechnology Task Force of DBT, 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; 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; Member, Editorial Board of *Indian Journal of Malarialogy*; Member, International Reviewer Panel of ‘Medical Science Monitor’; Member, Editorial Board of ‘Biotechnology’; Member, NML Book Selection Committee; Member, Research Committees of AIIMS; Member, Recombinant DNA Bio-safety Committee of AIIMS; Co-Chairman of Special Committee on Computerization of AIIMS; Member, Selection Committee for Scientists for ICMR; Indian Vet Res. Inst., Bareilly; Faculty positions of GNDU, Amritsar; Expert, Review Committee of NII.

**Dr J. S. Tyagi** has been elected Fellow of the Indian Academy of Sciences, 2008. She transferred TB diagnostic technology to Arbro Pharmaceuticals Limited, New Delhi, February 2008. She has been nominated as Member, Scientific Advisory Committee, Tuberculosis Research Centre, Chennai and Member, DBT Expert Group on Tuberculosis.

**Dr H.K. Prasad** is a Member, Guha Research Conference (GRC); Member, Organizing Committee of the Molecular Immunology Forum-2008, IMTECH, Chandigarh; IAEC Nominee of Committee for the Purpose of Control and Supervision of Experiments of Animals (CPCSEA); Member, Expert Group of the Technical Committee of Central JALMA Institute for Leprosy & Other Mycobacterial Diseases, Agra and the Institute of Life Sciences, Bhubaneswar; Expert Member, Selection Committee of the National Institute of Immunology, ICMR, DBT, ICGEB, SGPGIMS, Central Drug Research Institute (CDRI), National Centre for Cell Science (NCCS); Member, Medical Biotechnology Sectional Committee, MHR-20 under MHDC, Bureau of Indian Standards; Member, Sub-Committee for the construction of Molecular Biology Centre at AIIMS. H. K. Prasad Co-convened Annual Meeting, ‘Molecular Immunology Forum-2008’, Institute of Microbial Technology, Chandigarh, 14-16 March 2008.

**Dr S.N. Das** continues to be Fellow, International Academy of Biological Therapy; Member, National Academy of Medical Sciences, India; Life Member, Indian Immunology Society; Member, American Association of 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, Editorial Board, *International Journal of Osteoporosis and Metabolic Disorders*; Referee, *International Journal of Immunogenetics; Cancer Immunology and Immunotherapy*; and *Oral Oncology*; Awarded travel grant from DKFZ Alumni Association, Germany, to attend Indo-German Workshop at Heidelberg, Germany.

**OTHER ACTIVITYATES**

**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 neighboring institutes. The department has taken a 512 kbps leased line from VSNL for internet services.

**Liquid Nitrogen Plant**
The department has an automated liquid nitrogen plant that on request caters liquid nitrogen to departments/laboratories and hospital at AIIMS.
EDUCATION

The education programmes for undergraduates, postgraduates, and nursing students remain unchanged.

**Undergraduate (MBBS)**

Rural posting: the programme remains the same. The students were posted for five weeks in the VII semester. It was a residential posting.

Urban posting: IV and V semester students were posted in the urban area for five weeks. As a part of their teaching program, exhibitions and health talks were organized to observe:

- “World No Tobacco Day”
- “World Population Day”
- “Global Iodine Deficiency Disorder Day”
- “World Obesity Day”
- “World AIDS Day”
- “World Water Day”
- “World TB Day”

In addition awareness generation program was organized on the following topics:

- “Awareness Programme on Eye Care”
- “Dengue Awareness Programme”

Fifty families were identified and allotted to UGs for clinico-psycho-social case review and supervised for various interventions and follow-up. Four research projects were undertaken by UGs during their field posting. They also attended other community welfare activities including:

- Well Baby Show, exhibitions & film shows
- Blood Donation Camp at IIT Delhi was organized with the support of Cardio Neuro Centre (AIIMS) Blood Bank (120 units of blood were collected)
• Health Mela & Health Exhibition on TB, meningitis, tobacco hazard, bird flu and migraine was organized at Kusum Pur Pahari, Vasant Vihar

Interns
The programme remains unchanged. The interns were posted for 4 weeks each in Dayalpur or Chhainsa primary health centre (PHC). It was a residential posting.

Postgraduates (MD)
The postgraduates of Community Medicine were posted in the rural areas for 18 months. This enabled them to gain experience in the referral hospital at Ballabgarh and at the PHCs. They participated actively in decision-making. Following the initiation of a computer facility the postgraduate students were encouraged to use computers for data analysis for their theses. They also participated in various field based and regular teaching (seminars, family and case presentations, etc.) exercises during the posting

Foreign Students
In keeping with its unique position as a centre of excellence for public health teaching, CRHSP Ballabgarh hosted around 80 scholars from different medical institutes of USA in May 2007. The visit, which was a part of International Scholar Laureate Programme, provided unique opportunity to foreign students to have a first hand experience of community and community health in India. Four undergraduate students from USA came to the department for short term training in community medicine in the first week of February 2008.

Continuing Medical Education
The Centre for Community Medicine (CCM) has started a Guest Lecture series from 21 July 2005.
Details of the Guest Lectures are as follows:
1. 14th Guest Lecture on “Discovering your Whole Brain” by Tamaryn Britz & Sanjay Chotkan, on 28 August, 2007 at LT-I, AIIMS, New Delhi.
2. 15th Guest Lecture on “Experiences in Human Sexuality and Reproductive Health” by Professor Prema Bali, on 6 September 2007 at Conference Hall, AIIMS, New Delhi.
3. 16th Guest Lecture on “Health and Education of Rural Girl Child” by Dr Rajeev Seth, Secretary Indian Academy of Pediatrics (Child Abuse, Neglect & Child Labour Group), on 15 November 2007 at CCM, AIIMS, New Delhi.
4. 17th Guest Lecture “Non Targeted and Sex Differential Effects of Health Interventions in High Mortality Areas” by Dr Peter Aaby & Dr Henrik Ravn, Bandim Health Project, Guinea Bissau on 14 January 2008 at LT- I, AIIMS, New Delhi.

A pre-conference meet on “Non Communicable Diseases – a Public Health Primer” was held at Comprehensive Rural Health Services Project (CRHSP), Ballabgarh on 6 March 2008 as a part of the National Conference of Indian Public Health Association. About twenty five postgraduates and junior faculty from different medical colleges of India participated. The faculty was from CCM, Ministry of Health, Indian Council for Medical Research (ICMR), and World Health Organization (WHO).

Lectures Delivered

Dr. K. Anand
1. “Economic Considerations in Health Policy, Planning, Management & Evaluation of Health Care Services” for Master of Public Health students of National Institute of Communicable Diseases, New Delhi, 18 January 2008
2. “Non Communicable Disease (NCD) Surveillance” for students of Department of Community Health, St. Stephens Hospital, 18 January 2008

Dr. Nongkynrih Baridalyne

RESEARCH
Funded Projects

Completed

Ongoing

Collaborative Projects

Completed
1. Rapid Assessment of Trachoma in a Previous Hyperendemic Area (Department of Community Ophthalmology, Dr R. P. Centre).
Ongoing
1. Development of an Integrated Predictive Model for Evidence-based Eye Care (Department of Community Ophthalmology, Dr R. P. Centre)
2. Prevalence of Tuberculosis in Faridabad District of Haryana (SK Sharma, Sanjeev Gupta, SK Rai) (with MOHFW, GOI)

Completed
1. Quality of Life in Patients with Breast Cancer Reporting to a Tertiary Care Hospital.

Ongoing
1. Association of Blindness and Hearing Impairment with Mortality among the Elderly in Rural Area.
2. School-Based Healthy Lifestyle Program in Ballabgarh Town.

PUBLICATIONS


**Books and Chapters in Books, Monographs**


**PATIENT CARE**

This has been divided into five broad categories.

1. CRHS Project Ballabgarh
2. Urban Health Programme
3. Sex & Marriage Counseling Clinic
4. AIDS Education & Training Cell
5. National Service Scheme (NSS) Unit, AIIMS
CRHS Project, Ballabgarh

Referral Hospital, Ballabgarh

Outpatient Department (OPD)
The following OPDs operate on a daily basis: General OPD for adults, Child Welfare Centre, Obstetrics & Gynecology OPD, Ophthalmology OPD, and Dental OPD. The Antenatal Care Clinic is held thrice a week and the Otorhinolaryngology OPD and Rehabilitation OPD operate twice in a week. The Psychiatry OPD and Pediatric Surgery (cum Surgery) OPD follow a weekly schedule. Similarly, the Non-Communicable Diseases Clinic is held at weekly intervals.

OPD Registration
New patients - 89599
ANC Registration - 7814
Immunization - 6505
Total OPD Patients - 166623

Inpatients
The number of beds has remained unchanged at - 50
Total admissions including birth - 6339
Bed occupancy rate
- (including newborns) - 52.25
- (excluding newborns) - 39.66
Average duration of stay (in days) - 1.8
Admissions
- via emergency - 839
- via OPD - 3973
- newborn - 1527

Distribution of inpatients by specialty
Medicine - 1514
Surgery - 196
Obstetrics and Gynaecology - 2092
Pediatrics - 937
Ophthalmology - 73

Casualty
Number of patients registered - 15550
Number of medicolegal cases - 2856

Diagnostic tests performed
Lab investigations (including malaria slides) - 83618
X-ray (total) - 7917
Malaria slides - 3826
Malaria cases - 85
- Plasmodiun. vivax - 81
- Plasmodiun. falciparum - 4
Total number of surgical procedures performed

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**Intensive Field Practice Area (IFPA)**

| Population | - | 84678 |
| Birth (Birth Rate) | - | 1813 (21.41 per thousand) |
| Death (Mortality Rate) | - | 387 (4.57 per thousand) |
| Neonatal Mortality Rate | - | 34 (18.75 per 1000 live births) |
| Infant Mortality Rate | - | 64 (35.30 per 1000 live births) |
| Maternal Mortality Rate | - | 1 (55.16 per lakh live births) |
| Antenatal Clinic | - | 2193 |
| Tetanus toxoid | - | 1893 (86.32) |
| Deliveries by staff and hospitals | - | 593 |
| Number of eligible couples | - | 15961 |
| Couple Protection Rate | - | 9726 (60.24) |
| Family planning acceptors in 2007 | - | 1533 |
| Tubectomy | - | 264 |
| Vasectomy | - | 7 |
| Conventional contraceptive users | - | 813 |
| Intrauterine devices | - | 222 |
| Oral pills | - | 225 |

**Immunization coverage of children 12–23 months of age**

| Total eligible children | - | 1924 |
| BCG | - | 1907 (99.12%) |
| DPT3 | - | 1899 (98.70%) |
| OPV3 | - | 1899 (98.70%) |
| Measles | - | 1856 (96.47%) |

**National Programmes**

Collection of blood slides is done by active and passive surveillance in the IFPA.

| Total number of slides collected | - | 6754 |
| Total number of positive cases | - | 10 |

**Indices**

1. Annual blood examination rate - 8.0%
2. Annual parasite incidence rate - 0.01/1000 population
3. Slide positivity rate - 0.01%

**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:
Category 1 - 64
Category 2 - 35
Category 3 - 24
Total - 123

Urban Health Programme

Mobile Health Clinic at Dr Ambedkar Nagar
Total number of patients: 25,695
Total number of referrals: 862
Total number of health talks: 160

Immunizations
Zero dose OPV: 103
BCG: 278
DPT I: 572
DPT II: 548
DPT III: 531
DPT B: 522
OPV I: 572
OPV II: 548
OPV III: 531
OPV B: 522
DT I + OPV: 68
DT II + OPV: 13
DT (Booster) + OPV: 209
Measles: 502
MMR: 540
TT I (ANC): 206
TT II (ANC): 145
TT (Booster): 88
TT Others + above 6 years: 79
Hepatitis B Zero dose: N/A
I dose: 572
II dose: 562
III dose: 522
Typhoid: 715
Vitamin A (dose): 107
Iron supplement (number of adult beneficiaries): 1084

Family Planning Acceptors
Nirodh: 4,470
Oral Contraceptive Pills: 98 cycles

Laboratory Services
Blood smear for material parasite: 2
Hemoglobin : 428
Urine routine & microscopic examination : 86
Urine pregnancy test : 55

Social services for patients
Patients identified for social services : 3840
Financial help arranged
  Medicine : 10
  Education : 2
  Occupation : 4
Charges exempted : 15
Counseling
  Individual : 3200
  Family : 340
  Group : 207
Referral services to welfare organizations : 63

Rehabilitation services
  Job : 4
  Cancer patients : 2
  Handicapped : 12
  School dropout : 6
  Widows/Deserted : 8
  Nutritional supplement : 15
  Cataract surgery : 14

Sex & Marriage Counseling Clinic
New Patients : 2315
Old Patients : 2596
Total Patients : 4911

Investigations:
  Hormone analysis : 656
  Blood sugar : 389
  Semen analysis : 680
  Tests for infections (C/S, VDRL, HIV) : 126
  Urine (routine/microscopy) : 115
  Hemoglobin : 28
  Fine Needle Aspiration Cytology : 169
  Radiological: Ultrasound/Doppler/ X-Ray : 354

AIDS Education & Training Cell
Professor C.S. Pandav is the Chairperson and Professor Bir Singh is the coordinator of this Cell. Ms Sosamma Shyam and Ms Manju Siddhu are other functionaries.

The following activities were organized by the Cell in 2007-08:
1. The telephone helpline on HIV/AIDS and contraception (“Shubhchintak”) attracted a good number of calls daily.
2. The internet-based helpline “E-shubhchintak” on HIV/AIDS and contraception received 3–5 requisitions for IEC materials and queries on HIV/AIDS, STDs, sexual problems, and contraception daily.

3. The cell produced and disseminated educational material on HIV/AIDS to general public.

4. About 60 new and many follow-up patients were given personal counseling on HIV/AIDS.


N.S.S. Unit, AIIMS

The NSS Unit of AIIMS is located at the CCM. Dr Bir Singh is Programme Coordinator and Dr. Anil Goswami and Mrs Kiran Singh are Programme Officers of this unit.

Health Promotion and Health Communication (HPHC) Unit (IEC Material Development)

Dr Bir Singh / Dr Anil Goswami / Mr. R.B. Pokale

Six Posters on “Dengue” were modified and displayed at three places i.e. Dengue Screening OPD, AIIMS and at CCM & CRHSP Ballabgarh. The unit also developed or modified 5 posters on bird flu, 2 posters on field data and 1 poster each on NSS, conjunctivitis, Health Promotion & Health Communication, Thookoo (Sputum), Health Mela, Millennium Development Goals, Field Practice Area Map, and article. It also produced 5 pamphlets/brochures on ICCIDD and 5 handbills on dengue.

Nine film shows were conducted under various teaching and training programmes; and 4 role-plays were performed in the community on issues related to alcohol misuse, drug misuse, family planning, polio, personal hygiene, obesity, mother and child health and gender bias.

AWARDS, HONOURS & SIGNIFICANT EVENTS

Foundation of a new hostel: A new hostel for undergraduate and resident doctors was inaugurated by the Director of AIIMS, Professor T. D. Dogra on 21 February 2008 at Ballabgarh. The hostel is scheduled to be completed by July 2008.

Land Transfer: Considering the special contribution made by the CRHSP Ballabgarh; the Haryana State Government very graciously transferred around 6 acres of land on which CRHSP Civil Hospital stands to AIIMS in May 2007. This step would provide administrative freedom to AIIMS and also aid in future expansion plans at CRHSP.

Blood Storage: In another major upgradation of health infrastructure, from 22 August 2007 CRHSP Ballabgarh has been designated as a blood storage facility. With a capacity to store 50–60 packs of whole blood at a given time, this would enable the centre to provide timely care during obstetric and surgical emergencies.

New Community Health Centre at Fatehpur Billoch Village: on insistence of the community, it was decided to establish a new Community Health Centre at Fateh Pur Billoch Village. In recognition
of services delivered by Centre for Community Medicine and AIIMS, around 7 acres of land was donated by the community for this purpose.

**Sarpanch’s meeting:** In continuation of our long-standing strategy to work along with community and to enhance their participation, a meeting of the Sarpanchs of 28 villages under CRHSP Ballabgarh was organized in January, 2008. The meeting witnessed an overwhelming participation by the community and a detailed plan for future co-ordination between the CRHSP and the community was chalked out.

**Gramin Swasthya Samaroh (GSS):** In an innovative approach to promote behaviour change towards healthy practices and healthy life style, a community participatory activity called Gramin Swasthya Samaroh (GSS) was launched in March 2008. With a focus on information, education and communication (IEC), special camps were organized in villages served by CRHSP. This activity was incorporated in routine working of PHCs with each PHC conducting one camp every fortnight.

**Professor C.S. Pandav** was awarded the fellowship of Bharat Scouts and Guides by His Excellency Dr APJ Abdul Kalam, President of India, the country’s highest honour for a Scout (11 July 2007). He was selected to deliver the Dhanvantari Oration of Indian Association of Preventive and Social Medicine for the year 2009 during the 35th Annual National Conference of IAPSM (Puducherry, January, 2008). He was the Team Leader for the “Health Mela” organized by the Civil Surgeon cum Chief Medical Officer at Gidhour (Jamui), Bihar; as a demonstration of provision of quality health care to rural community envisaged under the “National Rural Health Mission” from 5–8 January 2008. He participated in the 35th Annual National Conference of Indian Association of Preventive & Social Medicine from 22–25 January 2008 at JIPMER, Pondicherry in the capacity of President of IAPSM. He was the external examiner for MD (Community Medicine) Examination and a member of the Selection Committee and conducted interviews for faculty positions in Postgraduate Institute of Medical Education and Research, Chandigarh. He attended the 8th Scientific Committee of the National Institute of Epidemiology of ICMR (Chennai, 18 February 2008); the International Clinical Epidemiology Network Review Board Meeting (Chennai, 23–24 February 2008); the State AIDS Control Society, National AIDS Research Institute meeting (Pune, 24–26 March 2008). He also attended the meeting for reviewing the current Iodine Deficiency Disorders Monitoring System (Bhutan, 1–10 April 2007), the First International Meeting of Micronutrient Forum (Istanbul, Turkey, 16-18 April 2007); the Project Workshop on Health Systems Reform and Ethics: Private Practitioners in Poor Neighborhoods in Urban India, Indonesia, and Thailand (Thailand, 19–24 June 2007); the Expert Consultative Meeting for Elimination of Iodine Deficiency Disorders in South-East Asia Region (Bangkok, Thailand, 25–26 June 2007); the National Iodine Deficiency Disorders Review Meeting (Bangkok, Thailand , 29–31 January 2008); and the seminar on Challenges of Childhood Mortality & Morbidity (by Family Welfare Training & Research Centre, Government of India, Maharashtra from 4–6 May 2007).

**Professor Bir Singh** was an international consultant to United Nations Children Fund for development of National Strategic Plan for HIV/ AIDS (PMTCT) for Cambodia for 2008–2015 (December 2007). He was a consultant to WHO-SEARO, New Delhi for evaluation of Tsunami Consultants in Sri Lanka (May–June, 2007); and UNICEF and State AIDS Control Societies for reviewing the HIV/AIDS – PPTCT Program and development of strategic plan for states of Gujarat,
Bihar, Uttar Pradesh and Orissa (May-August 2007), and for the development of patient information material on PPTCT programme. He was the convener of the Disease Prevention & Outbreak Response Cell (DPORC) at AIIMS for prevention and control of Dengue at AIIMS. He continued to be a member of the National Technical Advisory Committee on Science and Technology Communication for Water Resources, Department of Science & Technology (DST), GOI. He was nominated as a Member of the Scientific Advisory Committee of Desert Medicine and Research Centre (ICMR) for a period of two years. He was an Inspector for Medical Council of India for inspecting Government Medical College, Jammu (May 2007). He was an Expert to the State Public Service Commission of Jammu and Kashmir for selection of medical faculty posts (13 February 2008); to University College of Medical Sciences New Delhi – Delhi University for selection of Senior Residents (28 September 2007); to Council for Scientific and Industrial Research (CSIR) for selection of Junior Research Assistants (November 2007); and to the ICMR for selection of scientists (5 March 2008). He was a Resource Person for a training programme on dengue fever for private medical practitioners – jointly organized by Indian Medical Council – Delhi; Municipal Corporation, Delhi and AIIMS at New Delhi (11 September 2007). He delivered a Guest Lecture on HIV/AIDS in the Republic Day Camp for NSS volunteers of India (14 January 2008). He organized and delivered a public lecture on dengue fever at AIIMS on the Institute Day (25 September 2007). He chaired sessions in the Annual National Conference of Indian Public Health Association (New Delhi, March 2008) and the 35th Annual National Conference of IAPSM (Puducherry, January 2008).


**Professor Sanjeev K. Gupta** was the Co-chairman of the Scientific Programme Committee of the 52nd National Conference of Indian Public Health Association organized at Maulana Azad Medical College, New Delhi on 7–9 March 2008

**Dr Kiran Goswami** participated as Central Coordinating Team member for IndiaCLEN Programme Evaluation Network (IPEN). She was a field supervisor of Model Injection Centre Programme at Gwalior and Agra; she undertook the “Rapid Assessment of Essential Newborn Care Services and
Needs in NRHM: Priority Status of India,” a study by Programme for Appropriate Technology in Health (PATH) & IPEN; was a resource person for regional workshops at two districts for the same and for the regional training workshop entitled ‘IMNCl: Baseline assessment of childhood morbidity and mortality in selected districts in India’ in one district, she conducted quality assurance visits to supervise fieldwork in one district for the PATH-IPEN study and for ‘HIV Sentinel Surveillance’ of the National AIDS Control Organization (NACO) in two states. She participated as resource person under “Model Injection Centres: A programme to Improve Injection Practices in the Country.” She supervised the monitoring survey and focus group discussions on the ‘Evaluation of Safe Water System Project’ in Uttranchal.

Dr K. Anand was a member of the technical audit team of Community Medicine AIIMS for the post-tsunami work of WHO. For this he visited Indonesia (April–May 2007). He worked as a Temporary International Professional with WHO SEARO (May–June 2007 and December 2007) to support WHO’s activities related to non-communicable disease (NCD) surveillance, prevention and control. He served as a member of the Technical Advisory Group for NCD Surveillance under the Integrated Disease Surveillance Program (IDSP); and the Steering Committee of the National Program for Prevention and Control of Diabetes, Cardiovascular Diseases and Stroke by the MOHFW, GOI. He served as a member of the Taskforce on Urban Mental Health problems of ICMR; the Project Review Group of ICT in Primary Health Care of Media Lab, Asia; and the High Court Chennai constituted Committee in the case related to Hindustan Lever Ltd. versus employees. He attended the expert committee review meeting of Government of Gujarat for the drafting of the Public Health Act in Gandhinagar, the South East Asian Regional Network for NCDs (SEANET) Meeting (Phuket, October 2008). He is a peer reviewer for Indian Pediatrics, National Medical Journal of India, Indian Journal of Community Medicine, and Journal of Epidemiology & Community Health.

Dr Puneet Misra served as member of the Program Advisory Council of DST, GOI. As a part of this responsibility he served as a member of the Expert Group of DST for assessment of work of Society for Rural Industrialization at Ranchi, and also undertook assessments of projects entitled “Economic, Health and Environmental Improvement of Community - A scientific approach;” and “Study on Knowledge, Attitude and Practices of Dietary Habits among Mother and Housewives in the Field of Medical Nutrition and Health.”

Dr Sanjay K Rai participated in the WHO sponsored “Workshop on Model Based HIV Estimation” (New Delhi, 18–20 April 2007); the “Expert Consultation and Consensus Building Meeting on HIV Estimation in India” (New Delhi, 4–6 June 2007); the “Expert Group Meeting on HIV / AIDS Data Triangulation for the states of Manipur & Nagaland” (NIHFW, New Delhi, 12 May 2007); the “Annual Sentinel Surveillance for HIV infection 2007 – Pre Surveillance Meeting for Technical Resource Group & Regional Institute” (NIHFW, New Delhi, 14th August 2007); the “Peer Review Meeting on Standard Treatment Guidelines” (Pune, 26 August 2007); the meeting of technical experts to review evidence from intervention in the area of “Community Based Newborn care” (NIHFW, New Delhi, 26–27 September 2007); the “Pre Service IMNCl planning meeting” (Delhi, 4 October 2007 and 19 November 2007); the meeting on “Integrated Management of Childhood Illnesses: Baseline Assessment of Childhood Morbidity and Mortality in Selected Districts of India” (Gwalior, 30 October - 2 November 2007). He attended a UNICEF sponsored
training course for “Training of Trainers on IMNCI” (New Delhi, 26 November - 5 December 2007); and 2-days orientation workshop on “Two Weeks Field Epidemiology Training Programme under Integrated Disease Surveillance Project for Training Institutes” (NIHFW, New Delhi, 15–16 January 2008). He was nominated by Delhi University as a member of the Board of Examiners in community medicine for 2007–2008 and conducted the final professional MBBS examination at Maulana Azad Medical College (14 December 2007). He conducted supervisory field visit of Bihar and Uttar Pradesh to monitor HIV Sentinel Surveillance (6–8 November 2007 and 15–21 December 2007). He participated in the “Health Mela” at Gidhaur (Jamui, Bihar, 5–8 January 2008). He peer reviewed manuscripts for Health & Population Perspective and Issues, and Indian Journal of Public Health. He was elected as a Central Council Member of the Indian Public Health Association (North Zone) for the year 2007–2009 and organized the “Regional Workshop on HIV Sentinel Surveillance 2007 (Central Zone)” (Faridabad, 7–8 September 2007).

Dr Nongkynrih Baridalyne attended a Training of Trainers workshop in National Institute of Medical Sciences, ICMR for NCD surveillance under IDSP, Phase 1 (July 2007). She attended workshops on “Strengthening Public Health Services in India” organized by the Public Health Education & Research Consortium Networking & Partnership (WHO & NIHFW collaboration) (New Delhi, November 2007); and “Development of IEC Toolkit for Health Care Workers for Implementing Preventive and Promotive Care Aspects of NCDs” organized by NIHFW and WHO (New Delhi, 3-7 December 2007).

Dr Y. S. Kusumakumari participated in workshops on “Development of Curriculum for three Short-Term Training Courses on Health Promotion and Health Education” organized by Central Health Education Bureau (CHEB), NIHFW and WHO (New Delhi, 27–31 August 2007); “Development of IEC Toolkit for Health Care Workers for Implementing Preventive and Promotive Care Aspects of NCDs” organized by NIHFW and WHO (New Delhi, 3–7 December 2007) and “Child Anemia” organized by NIHFW and A2Z Micronutrients Project (USAID) (New Delhi, 6 February, 2008).

VISITING SCIENTISTS
Dr Peter Aaby, Site Leader Bandim Demographic Surveillance System (DSS), Guinea-Bissau and Board Member, International Network for Demographic Evaluation for Population and their Health (INDEPTH) Trust visited Ballabgarh DSS from 14–17 January 2008 and reviewed our activities, discussed potential for collaboration and gave a guest lecture on Non-specific effects of vaccines.
9.9 Dermatology and Venereology

Professor and Head
V.K. Sharma

Professors
Neena Khanna
K.K. Verma

Additional Professor
M. Ramam

Associate Professors
Sujay Khandpur
G Sethuraman

Assistant Professor
Somesh Gupta

EDUCATION

Continuing Medical Education

Lectures delivered

Dr. V.K. Sharma
Dr. Binod K Khaitan

Dr. Sujay Khandpur
5. ‘Evaluation of Immunoblot Assay as a Diagnostic Tool in Indian Pemphigus Vulgaris.’ 21st World Congress of Dermatology, Buenos Aires (Argentina), 30 September – 5 October 2007.

Dr. G. Sethuraman
1. “Molecular Analysis of Lipoid Proteinosis in three Indian Families.” 21st World Congress of Dermatology, Buenos Aires (Argentina), 1-5 October.

Dr. Somesh Gupta

RESEARCH
Funded Projects
Ongoing
1. A prospective randomized, double-blind, placebo-controlled, parallel group, multi center, 52-week trial to assess the efficacy and safety of adjunct mycophenolate mofetil (MMF) to achieve
remission with reduced corticosteroids in subjects with active pemphigus vulgaris. (V. K. Sharma). Funded by Aspreva Pharmaceuticals, USA, Funds: Rupees 12,000 per patient; 2005-2008.

2. A randomized double blinded study to evaluate the safety and efficacy of intrallesional administration of PCNA synthetic chimeric ribozyme (VIT 100) (Chelase) in the treatment of keloids and hypertrophic scars when administered concurrently with 5 FU and kenalog (V. K. Sharma). Funded by Clincyte, USA; Funds: Rs. 5 lakhs; March 2006-June 2008.

3. Evaluation of cyclophosphamide pulse therapy as adjuvant in the management of pemphigus (V. K. Sharma). Funded by Indian Council for Medical Research (ICMR); Funds: Rs. 3 lakhs; October 2007-October 2010.


6. Comparison of efficacy of transplantation of basal cell layer enriched epidermal suspension in patients with stable vitiligo vulgaris and segmental vitiligo (Somesh Gupta). Funded by: AIIMS, Funds: Rs. 1 lakh.

Collaborative Projects

Ongoing

1. Evaluation of topical cyclosporine in ocular involvement in Stevens-Johnson syndrome (K.K. Verma) (Department of Ophthalmology, Dr. R P Centre) (Funded by ICMR).


3. Dermatological complications in renal transplant recipient patients - A follow up study (K. K. Verma) (Department of Nephrology).

4. Role of electron beam radiation therapy for the treatment of mycosis fungoides (K. K. Verma) (Department of Radiation Oncology).

5. 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. (B. K. Khaitan) (Department of Endocrinology) (Funded by AIIMS).

Departmental Projects

Ongoing

1. Evaluation of cyclophosphamide pulse in treatment of pemphigus (V. K. Sharma)

2. Desmoglein 1 and 3 antibodies in pemphigus (V. K. Sharma)


4. Sepsis in dermatology ward (V. K. Sharma)

5. Segmental vitiligo : Response to tacrolimus (V. K. Sharma)

6. Comparative efficacy of 40 mg betamethason-G monthly and equivalent doses of biweekly pulse in treatment of alopecia areata (V. K. Sharma)
7. Clinical response of urticaria to levocetrizine and autologous serum skin test positivity (ASST) (V. K. Sharma)
8. Clinical and histopathological profile of PMLE (V. K. Sharma)
9. Psychosocial effects of vitiligo (V. K. Sharma)
10. Comparison of dexamethasone-cyclophosphamise and cyclophosphamide pulse in pemphigus (V. K. Sharma)
11. Evaluation of mucocutaneous disorders in HIV infected patients and their correlation with CD4 lymphocytes (K. K. Verma)
12. CO₂ laser as a therapeutic modality for the treatment of epidermal and sebaceous nevi (K. K. Verma)
13. Evaluation of CO₂ laserbrasion as a therapeutic modality in extensive facial angiofibromas in tuberous sclerosis and acne scars (K. K. Verma)
14. Azathioprine as a corticosteroid sparing agent in the treatment of air borne contact dermatitis (K. K. Verma)
15. To evaluate the role of immunosuppressive drugs for the treatment of chronic urticaria (K. K. Verma)
16. Long-term safety and toxicity of azathioprine in patients of air-borne contact dermatitis (K. K. Verma)
17. Imiquimod cream for the treatment of basal cell carcinoma (K. K. Verma)
18. Imiquimod cream for the treatment of Bowen’s disease (K. K. Verma)
20. A study of the psychosocial effects of vitiligo (M. Ramam, B. K. Khaitan)
21. Evaluation of mRNA PCR for the diagnosis of cutaneous tuberculosis (M Ramam)
22. Dexamethasone – cyclophosphamide pulse therapy in pemphigus (B K Khaitan)
23. A randomized study to evaluate efficacy and safety of 0.1% tacrolimus ointment vs. 0.05% fluticasone propionate cream in patients with segmental vitiligo (B K Khaitan)
24. A study to characterize segmental vitiligo (B K Khaitan)
25. A study of clinicopathological features of photosensitive lichenoid eruption (B K Khaitan)
26. A study to evaluate the efficacy of 0.1% tacrolimus ointment in patients with lichen sclerosus et atrophicus (B. K. Khaitan)
27. Effects of epilation by waxing on skin (B. K. Khaitan)
28. Cutaneous vasculitis- etiological and clinicopathological correlation (B. K. Khaitan)
29. Study on isolation, characterization and evaluation of differentiation potential of hair follicle stem cells (B. K. Khaitan)
30. Clinico-epidemiological study of palmoplantar psoriasis (Sujay Khandpur)
31 Comparison of coal tar versus steroid-coal tar combination in palmoplantar psoriasis (Sujay Khandpur)
32 Comparison of topical PUVASOL versus steroid-coal tar combination in palmoplantar psoriasis (Sujay Khandpur)
33 Comparison of daivobet ointment versus coal tar in chronic plaque psoriasis (Sujay Khandpur)
34 Comparison of dexamethasone cyclophosphamide pulse with daily cyclophosphamide versus cyclophosphamide pulse with daily steroid in pemphigus vulgaris (Sujay Khandpur)
35 Utility of antigen detection in Indian patients in pemphigus vulgaris (Sujay Khandpur)
36. Comparison of ELISA test versus immunoblotting in diagnosis of pemphigus vulgaris (Sujay Khandpur)
37. Utility of ELISA test in the detection of relapse in pemphigus vulgaris (Sujay Khandpur)
38. Role of sclerotherapy in vascular malformations (Sujay Khandpur)
39. Clinico-epidemiological study of pure neural leprosy (Sujay Khandpur)
40. Evaluation of mycophenolate mofetil as an adjuvant to corticosteroids in pemphigus vulgaris (Sujay Khandpur)
41. Role of cyclophosphamide pulse as adjuvant therapy in pemphigus vulgaris (Sujay Khandpur)
42. Clinico-histological and etiological study of acquired palmoplantar keratodermas (Sujay Khandpur)

Completed
1. Evaluation of patients with multiple drug hypersensitivity (M Ramam)
2. Characterisation of the diagnostic clinical features of segmental vitiligo (M Ramam)
3. Randomised clinical trial of tacrolimus and fluticasone in the treatment of segmental vitiligo (M Ramam)

PUBLICATIONS

**BOOKS**

Dr. V.K. Sharma is the National President Elect of the Indian Association of Dermatologists, Venereologists & Leprologists. He was awarded the Fellowship of National Academy of Medical Sciences, and the M.A Wali Oration titled “Recent Advances in the Management of Clamydial Infections” at the 31st National Conference of IASSTD & AIDS at Rohtak (26-28 October 2007). He is the Editor-in-Chief of the “Guidelines for Stevens-Johnsons Syndrome & Toxic Epidermal Necrolysis and Psoriasis” (IADV&L); Textbook and Atlas of STD & AIDS” (IASSTD & AIDS); and the “Hand Book of Urticaria” (New Delhi: Massey Art Press). He is the Chairman of the Therapeutic Guidelines Committee of the Indian Association of Dermatologists, Venereologists & Leprologists; and the Technical Resource Group for Sexually Transmitted Infection for National AIDS Control Programme Phase III. He is on the editorial Board of the Journal of European Society of Contact Dermatitis named “Contact Dermatitis” and the Journal of American Society of Contact Dermatitis named “Dermatitis”. He is a member of the Academic Committee of the MCI-Issue Committee of the IADVL. He was the Organizing Chairman of the AIIMS Dermatology Update 2007: Urticaria, Drug reactions, Acne & Psoriasis, New Delhi (14-15 April 2007). He was the Chairperson and Chief Convenor for the symposium “Plant Dermatitis: Epidemiology and Treatment” of the CODFI South East Asia Contact Dermatitis Workshop, Kolkata (22 April 2007). He was also the Chairperson of the session on “Pediatric Psoriasis & its Management” of the Society for Pediatric Dermatology, New Delhi (8 April 2007); the session on “Hair and Nail” at the 21st World Congress of Dermatology at Buenos Aires, Argentina (1-5 October 2007); the session on “How to Treat Difficult Atopic Dermatitis” of the Indian Society of Pediatric Dermatology at Thrissure, (17-18 November 2007), the session on “Anecdotal Treatment in Dermatology” of the Maharashtra Branch of Indian Association of Dermatologists, Venereologists and Leprologists at Mumbai (8-9 December 2007); a session at the 36th National Conference of Indian Association of Dermatologists, Venereologists, Leprologists at Chandigarh (24-27 January 2008); and a session on “Thymidine vs non-thymidine containing backbone” at HIV Congress-2008 at Mumbai (21-23 March 2008). He was a resource person for the Indian Acne Alliance Third Meeting at Mumbai (26 August 2007). He was the expert for selection of Professor and Lecturer at Banaras Hindu University, Varanasi and of Professor and Associate Professor at Postgraduate Institute of Medical Education and Research, Chandigarh. He was the external examiner for MD (Dermatology & Venereology) examination at the Maharaja Sayajirao University of Baroda at Vadodara and at Dharan, Nepal. He is the external expert for the proposal entitled “Centre of excellence for skin pigmentation and melanocyte-keratinocyte biology” of the Department of Biotechnology, Ministry of Science & Technology.”

Dr. Kaushal K Verma received the Professor Sardari Lal Award in Venereology for the year 2007 by the Indian Association of Dermatologists, Venereologists and Leprologists (DSB). He was elected to the post of the President of the Contact and Occupational Dermatoses Forum of India (CODFI) for the years 2008-2010; the post of Vice – President of the Pemphigus and Pulse Therapy Foundation of India for the years 2007-2009; and the post of Hon. Secretary - International Union against Sexually Transmitted Diseases – Asia Pacific (IUSTI-AP) for the years 2008-2010.

Dr. M. Ramam is the member of the editorial board of the Indian Journal of Dermatology, Venereology and Leprology and the Indian Association of IADVL Textbook of Dermatology, Venereology and Leprosy
**Dr. Binod K Khaitan** was awarded the Dr. B M Ambady Oration during the 36th National Conference of IADVL held at Chandigarh (25 January, 2008). He is a member of the Thesis Evaluation Committee of the IADVL (2006, 2007). He is a member of the Editorial Board of the Indian Journal of Dermatology, Venereology and Leprology, and a peer reviewer for the Indian Journal of Dermatology, Venereology and Leprology; National Medical Journal of India; Indian Journal of Pediatrics; Journal of Royal College of Physicians and Surgeons, Pakistan. He is a member of the Expert Committee, to formulate OSCE in Dermatology for the National Board of Examinations. He chaired the session on “Symposium on vitiligo-I” at the 2nd conference of the Asian Society for Pigment Cell Research in Singapore (6-8 July 2007). He was a faculty and a member of the organizing committee of the 4th International CME on Dermatopathology held at New Delhi (30 November - 2 December 2007). He was the examiner for MD examinations at RNT Medical College, Udaipur. He is the President of the Faculty Association of AIIMS. His biodata was invited for incorporation in the “Top 100 Health Professionals 2008” by the International Biographical Centre, Cambridge, England and was incorporated in Marquis Who’s Who in Asia 1st Edition 2007.

**Dr. Sujay Khandpur** is a member of the Therapeutic Guidelines Committee of IADVL. He was awarded the ILDS scholarships for World Congress of Dermatology at Buenos Aires, Argentina 2007 and the International Society of Dermatopathology Fellowship to Paris, France 2007. He is a peer reviewer for the Indian Pediatrics, the Indian Journal of Dermatology and the Dermatology.

**Dr. G. Sethuraman** was awarded a Fellowship in Pediatric Dermatology at the Children’s Memorial Hospital, Northwestern University Feinberg School of Medicine, Chicago, USA (April 9, 2007 to April 8, 2008). Dr. Sethuraman was awarded the Hargobind Medical Foundation Fellowship Award (2006-2007); the BOYSCAST Fellowship award (2007-2008) of the Department of Science & Technology, Government of India; and the ILDS scholarship 2007 for World Congress of Dermatology at Buenos Aires, Argentina. Dr. Sethuraman is the Associate Editor of the Indian Journal of Pediatric Dermatology (2007) and a peer reviewer for the British Journal of Dermatology, Clinical and Experimental Dermatology, and the Indian Journal of Dermatology Venereology & Leprology.
EDUCATION

Undergraduate, Postgraduate, Paramedical Training
The department was actively involved in regular training of undergraduate and nursing students. Postgraduate students from MD (Internal Medicine) comes for one month posting in the department of Endocrinology & Metabolism

Long & Short term Training
- Five candidates completed their DM and four new candidates joined the department for the DM course.
- One student joined the PhD (Endocrinology) course.
- Two students joined the Department for short term training of three months and eight students joined for six months training.

Continuing Medical Education (CME)

Lectures delivered by departmental faculty, residents and staff
The faculty and residents of the department participated in and delivered several lectures/presented several papers in the continuing medical education programmes, workshops, seminars, and national and international meetings of Endocrinology and Diabetes mellitus.

Dr R. Khadgawat
- “Diagnosis of Osteoporosis” in CME on Osteoporosis and Osteoarthritis organized by Institute of Medical Sciences, Nagpur, 14 August 2007

National and International Conferences

Dr R. Goswami
• “Sporadic Idiopathic Hypoparathyroidism in India - New Concept.” Annual Meeting of the Endocrine Society of India (ESICON 2007), Tirupati, 30 November – 1 December 2007.
• “Thyroid Autoimmunity and Polyglandular Endocrinopathies in India.” Annual Meeting of the Thyroid Association of India, Chandigarh, 9–10 February 2008.

Dr R. Khadgawat
• “Childhood Obesity in India.” 5th Annual Conference of the All India Association for Advancing Research in Obesity, Ahemdabad, 26–27 May 2007.

RESEARCH

Funded Projects

Completed
1 Post-menopausal Evaluation and Risk Reduction and Lasorfoxifene: A Multicentric Trial (A. C. Ammini). Funded by Pfizer India. Funds: Rs. 50 lakhs; December 2007.
3 A Phase IIb/III Randomized, Placebo-Controlled Clinical Trial to Study the Safety and Efficacy of MK0364 in Overweight and Obese Patients with Type 2 Diabetes Mellitus (T2DM) (Nikhil Tandon). Funding agency – MSD Pharmaceuticals. Funds: Rs. 50 thousand; 2007.
4 A Randomized, Double-Blind, Placebo-Controlled, Multicentric Clinical Study to Evaluate the Safety and Efficacy of Rimonabant Tablet in Obese Subjects (Rajesh Khadgawat). Funded by Torrent Pharmaceuticals. Funds: Rs. 50 thousand; 2007.
5 Vitamin D Status of Subjects Residing in Rural North India (R. Goswami). Funded by Dr Ramalingaswamy Foundation. Funds: Rs 3 lakhs; 2006-2007.

Ongoing
1 Demographic and Clinical Profile of Young Diabetics in a Tertiary Care Hospital in North India (A. C. Ammini). Funded by ICMR. Funds: Rs. 14,45,000; March 06- May 08.
2 Comparison of efficacy of management of metformin and spironolactone in the management of polycystic ovarian disease (A. C. Ammini). Funded by ICMR. Funds: Rs.10,43,000; 2006-2009
3 A One-Year Multicentre, International, Randomized, Double Blind Study with Comparison of
Benflurex versus Pioglitazone in Combination with Sulfonylurea Administration Orally for Treatment of Type 2 Diabetes (A. C. Ammini). Funded by Serdia Pharmaceuticals. Rs. 5 lakhs; 2007-2008.

4 Reboxitine versus Routine Care in Patients with Painful Diabetic Peripheral Neuropathy (A. C. Ammini). Funded by Pfizer global research. Funds: Rs. 5 lakhs; 2007-2008.

5 Effects of Arzoxifene on Vertebral Fracture Incidence and Invasive Breast Carcinoma in Post Menopausal Women with Osteoporosis or Low Bone Mineral Density (A. C. Ammini). Funded by Quintiles Research. Funds: Rs. 80 Lakhs; till December 2009.

6 A Phase 3 Open Label, Parallel Group Study to Evaluate Efficacy and Safety of Human Insulin Inhalation Powder (HIIP) Compared to Preprandial Injectable Insulin in Insulin Naïve Patients with Type 2 Diabetes Mellitus (Nikhil Tandon). Funded by Eli-Lilly.

7 A Phase IIb/III Randomized, Placebo-Controlled Clinical Trial to Study the Safety and Efficacy of MK0364 in Overweight and Obese Patients with Type 2 Diabetes Mellitus (T2DM) (Nikhil Tandon). Funded by MSD Pharmaceuticals.

8 A Multicenter, Double Blind Randomized, Placebo Controlled Study of MK-0431 in Patients with Type 2 Diabetes who have Inadequate Glycemic Control (Nikhil Tandon). Funded by MSD Pharmaceuticals.


10 Fetal and Childhood Growth and the Effect of Lifestyle Interventions on CHD Risk Factors in Young Indian Adults (Nikhil Tandon). Funded by British Heart Foundation. Funds: Rs. 141 lakhs; 2005-2008.

11 Role of Oral Vitamin D as an Adjunct Therapy in Category I Pulmonary Tuberculosis along with Assessment of Immunological Parameters (R. Goswami). Funded by Department of Biotechnology (DBT). Funds: Rs 91 lakhs; 2006–2009.


13 Prevalence and Significance of Celiac Disease in Patients with Type 1 Diabetes (R. Goswami). Funded by ICMR. Funds: 19.0 lakhs; 2008–2010.


15 Bone Health in Patients of Hyperthyroid Graves Disease in Relation to Duration of Thyrotoxicosis and Improvement after Patient becomes Euthyroid (Viveka P. Jyotsna). Funded by AIIMS. Funds: Rs. 1 lakh; 2007–2008.
PUBLICATIONS

Journals


**Chapters in Book**


**PATIENT CARE**

**OPD activity**

The department has 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).

**General Endocrine OPD**

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<tr>
<td>Total old cases</td>
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**Diabetes of Young Clinic (DOY)**

<table>
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</thead>
<tbody>
<tr>
<td>Total new cases</td>
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**Pediatric & Adolescent Endocrinology Clinic (PAEC)**

<table>
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<th>Category</th>
<th>New cases</th>
<th>Old cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total new cases</td>
<td>250</td>
<td></td>
</tr>
<tr>
<td>Total old cases</td>
<td>800</td>
<td></td>
</tr>
</tbody>
</table>

**Total number of Dual Energy X-Ray Absorptiometry scans done:** 1705

**LABORATORY INVESTIGATIONS**

The total number of hormone assays done during this period was 37,849 while metabolic laboratory of the department did 20,427 investigations. The break-up of these is given below:
<table>
<thead>
<tr>
<th>Hormone</th>
<th>Number of Samples Assayed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. T4</td>
<td>6552</td>
</tr>
<tr>
<td>2. TSH</td>
<td>9998</td>
</tr>
<tr>
<td>3. TPO</td>
<td>3217</td>
</tr>
<tr>
<td>4. LH</td>
<td>1233</td>
</tr>
<tr>
<td>5. FSH</td>
<td>1357</td>
</tr>
<tr>
<td>6. PRL</td>
<td>1300</td>
</tr>
<tr>
<td>7. Testosterone</td>
<td>1268</td>
</tr>
<tr>
<td>8. Cortisol</td>
<td>2643</td>
</tr>
<tr>
<td>9. 17 - OH Progesterone</td>
<td>286</td>
</tr>
<tr>
<td>10. DHEAS</td>
<td>433</td>
</tr>
<tr>
<td>11. ACTH</td>
<td>875</td>
</tr>
<tr>
<td>12. 25 - OH Vitamin. D</td>
<td>2069</td>
</tr>
<tr>
<td>13. PTH</td>
<td>2043</td>
</tr>
<tr>
<td>14. Insulin</td>
<td>2731</td>
</tr>
<tr>
<td>15. C – Peptide</td>
<td>1266</td>
</tr>
<tr>
<td>16. GAD Antibody</td>
<td>260</td>
</tr>
<tr>
<td>17. Growth hormone</td>
<td>330</td>
</tr>
<tr>
<td>18. Free T4</td>
<td>771</td>
</tr>
<tr>
<td>19. Free T3</td>
<td>15</td>
</tr>
<tr>
<td>20. Estradiol</td>
<td>39</td>
</tr>
<tr>
<td>21. Osteocalcin</td>
<td>63</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>37,849</strong></td>
</tr>
</tbody>
</table>

**Investigation done in the Metabolic Lab**

<table>
<thead>
<tr>
<th>Number of Samples Assayed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Blood glucose</td>
</tr>
<tr>
<td>2. Glycosylated Hemoglobin</td>
</tr>
<tr>
<td>3. Urinary Creatinine</td>
</tr>
<tr>
<td>4. Urinary Albumin</td>
</tr>
<tr>
<td>5. Urine PH</td>
</tr>
<tr>
<td>6. Osmolality</td>
</tr>
<tr>
<td>7. Calcium</td>
</tr>
<tr>
<td>8. Phosphorus</td>
</tr>
<tr>
<td>9. Alkaline Phosphatase</td>
</tr>
<tr>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>

**AWARDS, HONOURS AND SIGNIFICANT EVENTS**

Dr R Goswami was elected as a fellow of the Indian Academy of Sciences (Bangalore). He is a peer reviewer for Clinical Endocrinology (Oxford), Diabetes Care, Journal of Postgraduate Medicine, Indian Journal of Medical and Pediatric Oncology, Mycoses and Immunology.
EDUCATION
The department is actively engaged in undergraduate and postgraduate teaching with five postgraduate (MD) students and one PhD student. The department is also imparting training in DNA fingerprinting and toxicology to BSc/MSc students from other Indian universities.

Continuing Medical Education
A symposium was organized on “Awareness, Preparedness & Mitigation in Exposure to Domestic & Industrial Chemicals (APMEDIC-2007)” in collaboration with department of Pharmacology, AIIMS.

Lectures
The departmental faculty/officers participated in training programmes organized by the Academy of Central Bureau of Investigation (CBI), National Institute of Criminology & Forensic Sciences (NICFS), Amity Institute, Delhi Judicial Academy, Delhi Medical Association (DMA) and National Institute of Public Cooperation & Child Development (NIPCCD). Lectures and demonstrations were held for CBI officials, police officers, judicial officers, medical officers and forensic science experts from all over country.

Departmental Projects

Ongoing
1. Inferring genetic diversity and molecular relatedness among the Indian Saraswat community at various short tandem repeat (STR) loci.
2. A comprehensive autopsy study of sudden natural deaths in South Delhi.
4. Comprehensive study of skeletal injuries in fatal road traffic accidents.
5. Auditing of asphyxial deaths.

PUBLICATIONS

Journals


**Books**


**PATIENT RELATED SERVICES**

Emergency Services: The department is providing round the clock coverage to the casualty for medico-legal cases e.g. injury, sexual offences, poisoning and other complicated medico-legal cases. The department is attending all the calls pertaining to medical examination in police and judicial custody.

Medico-legal Postmortem performed: 1597

The department provided consultation services to the CBI, crime branch and other central and state investigating agencies from all over the country in complicated medico-legal postmortem conducted at other centres. Faculty and residents also participated in board postmortems at other centres in Delhi. In addition 204 autopsies were conducted at trauma centre.

Court Attendance 1200

Doctors of the department also attended courts in CBI cases as experts. As per court directions on behalf of the Medical Superintendent, summons were attended for doctors who have left AIIMS.

Clinical Forensic Medicine

The department examined cases of age estimation, medical examination, marriage disputes, potency, DNA fingerprinting etc. referred by the court, Delhi Police and other investigating agencies. Fifty five such cases were dealt with in the year 2007–08.
DNA Fingerprinting
The department is providing training to the candidates sponsored by various universities. It is performing DNA fingerprinting test in selected medico-legal cases. Fifty six students were trained in DNA fingerprinting & toxicology and 73 samples were processed for DNA fingerprinting in the year 2007–08.

Medical Toxicology
Tests for various poisons e.g. heavy metals, opiates, benzodiazepines and alcohol were done in toxicology laboratory. One hundred and sixty seven such tests were performed during this period.

Community services
The department participated in training programme organized for CBI officers, police officers, medical officers, judges, public prosecutors and forensic science experts from all over the country.

AWARDS AND HONOURS

Dr. T. D. Dogra received the Dr Jagdish Chandra Oration “Genesis & Evolution of Ethics” in Annual National Conference of Indian Congress of Forensic Medicine & Toxicology, Jawahar Lal Nehru Medical College Belgaum, Karnataka.

Dr RK Sharma was elected as the Joint Secretary of the Indian Society of Toxicology; and selected as a fellow of the National Foundation of Clinical Forensic Medicine.

Dr Adarsh Kumar was elected as Joint Secretary of the Governing Council of the Indian Academy of Forensic Medicine 2008–10.

Dr AK Jaiswal was admitted as a fellow of Academy of Sciences for Animal Welfare and the Institution of Chemists.
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**
Thirteen candidates underwent training during 2007–08 for a period of 3 months to 6 months. Thirteen DM candidates and seven PhD candidates underwent long-term training.

**Continuing Medical Education**
1. ‘International Therapeutic Endoscopy Workshop’ at AIIMS, 8–9 September 2007. This workshop was attended by more than 300 delegates.

**National and International Conferences**
The department faculty delivered 33 lectures at international and national conferences/meetings.

**RESEARCH**

**Funded projects**

**Completed**
4. Molecular epidemiology of *Helicobacter pylori*—Its implications in failure of eradication, recurrence of infection after successful eradication and route of reinfection in patients of peptic...

5. Comparison of diagnostic efficacy of immunohistochemistry with histology (Warthin Starry stain) and urease based tests (rapid urease test, C14 urea breath test) before and after eradication of *Helicobacter pylori* in peptic ulcer disease. Vineet Ahuja. Funded by ICMR (2003–07). Funds: Rs 4.10 lakhs.


**Ongoing**

1. Randomised trial of pegylated interferon vs. lamivudine followed by PEG-I for 1 year among patients with chronic hepatitis B. S. K. Acharya. Funded by Fulford, India for 4 years. Funds: Rs 24 lakhs.


3. Advanced Centre for Liver Diseases (institute and different projects in liver diseases). Projects include (i) randomized controlled trial of somatostatin monotherapy vs. somatostatin and nitroglycerine infusion in acute variceal bleeding, (ii) etiology, clinical presentation and therapy among Indian patients with primary liver cancer, (iii) hepatic venous outflow tract obstruction: etiology and results of angioplasty, and (iv) probiotics for spontaneous bacterial peritonitis. S. K. Acharya. Funded by ICMR. Funds: Rs 2 crore.


11. A phase 2/3 multicenter, randomized, placebo-controlled, double-blind study to evaluate the safety and efficacy of golimumab induction therapy, administered subcutaneously, in subjects


Departmental projects

Completed

1. Aetiology, clinical presentation and therapy among Indian patients with primary liver cancer.
2. Role of arterial ammonia among patients with acute liver failure.
3. HBV genotype among Indian patients with HBV induced chronic liver disease.
4. Cirrhosis is reversible.
5. NASH: Indian scenario
6. Hepatitis E virus (HEV) infection in patients with cirrhosis is associated with rapid decompensation and death
7. A randomized study of biliary drainage versus conservative therapy for hilar malignant biliary obstruction due to cancer of the gallbladder.

Ongoing

3. Characterization, natural course and outcome of patients with organized pancreatic necrosis.
4. A study of the risk factors for cancer of the gallbladder.
5. Endoscopic biliary drainage versus conservative treatment for patients with inoperable cancer of the gallbladder with obstructive jaundice: A randomized controlled trial.
6. Dose ranging study of steroid (oral and intravenous) in patients with moderate to severe ulcerative colitis.
10. Dynamics of differential T regulatory cell expression in inflammatory bowel disease and intestinal tuberculosis.
11. Role of leukocytapheresis in steroid dependent/refractory patients with ulcerative colitis
12. Natural history of proctosigmoiditis in ulcerative colitis
13. Natural history of steroid resistant and steroid responsive patients with ulcerative colitis
14. Fox p3 mRNA expression in patients with Crohn’s disease and intestinal tuberculosis
15. Prevalence of GERD in a rural and urban community in Ladakh
16. Identification and molecular characterization of bacterial flora in inflammatory bowel disease
17. Studies on metronidazole resistance in laboratory grown and patient-derived *Entamoeba histolytica*.
18. Quality of life assessment following palliative oesophageal stenting
19. A prospective study to evaluate the role of *Helicobacter pylori* in benign and malignant hepatobiliary disease
22. Effect of glutamine on structure and function of intestine in patients with inflammatory bowel disease.
23. Intestinal permeability in patients with cirrhosis of liver.

**Collaborative Projects**

**Completed**

1. Role of endosonography in the evaluation of patients with obscure biliary obstruction (with Gastrointestinal Surgery).
2. Genetic of inflammatory bowel disease in Indian and Asian migrated to Canada (with University of Toronto, Canada).
3. Differences in the metabolites in the normal mucosa and mucosa involved in patients with inflammatory bowel disease using magnetic resonance spectroscopy (with Nuclear Magnetic Resonance).
4. Functional magnetic resonance imaging and magnetic resonance imaging in patients with achalasia cardia (with Nuclear Magnetic Resonance).
5. Short and long term outcome after cardiomyotomy in patients with achalasia cardia (with Surgery).
7. NOD2 and DC sign in patients with inflammatory bowel disease and tuberculosis (with Biotechnology).
8. A study of emerging parasitic agents, intestinal coccidian and microsporidia, in aetiology of malabsorption syndrome (with Microbiology).
9. PET-CT enteroclysis for evaluation of inflammatory diseases of intestine (with Nuclear Medicine).
10. Structural and functional changes in lungs in patients with achalasia cardia (with Medicine and Radiodiagnosis).

**Ongoing**

1. Role of surface promoter mutations in hepatitis B surface antigen production and secretion in occult hepatitis B virus infection (with Pathology).
2. HBV mutants among patients with acute and chronic liver disease (with Pathology).
3. Cellular and humoral immunity studies among patients with acute hepatitis E virus infection (with Pathology).
4. HCV quantitation assay and HEV quantitation assay and HEV quantitation assay development and their relevance (with Pathology).
6. Role of diffusion MRI, MDCT and EUS in the evaluation of patients with pancreatic head mass (with Radiology).
7. Comparative evaluation of PET-CT scan and EUS in patients with suspected pancreatic malignancy (with Nuclear Medicine).
9. Derivation of a risk score to predict risk of advanced colorectal neoplasm in Asia Pacific region. (Collaborative project involving 15 Asian countries).
12. Detection, identification and molecular typing of intestinal coccidia and microsporidia in patients with chronic diarrhoea (with Microbiology).
15. A comparison between CT-PET enteroclysis and double balloon enteroscopy for evaluation of small intestinal involvement in patients with tuberculosis and Crohn’s disease (with Nuclear Medicine).
17. Prevalence of coeliac disease in short stature (with Endocrinology).
18. Prevalence of coeliac disease in infertility and primary amenorrhoea (with Obstetrics and Gynaecology).
22. Colorectal neoplasm in asymptomatic Asian: A prospective multinational multicenter colonoscopy survey. (Collaborative project involving 15 Asian countries).

PUBLICATIONS

Journals


**Abstracts**


**Chapters in Books**


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>721</td>
<td>6269</td>
</tr>
<tr>
<td>Gallstone and pancreas</td>
<td>443</td>
<td>622</td>
</tr>
<tr>
<td>Ulcer clinic</td>
<td>90</td>
<td>370</td>
</tr>
<tr>
<td>IBD clinic</td>
<td>205</td>
<td>975</td>
</tr>
<tr>
<td>Interventional clinic</td>
<td>375</td>
<td>652</td>
</tr>
</tbody>
</table>

Routine clinic

New cases 16,981
Old cases 32,407

Procedures

Endoscopy 7000
Colonoscopy 1000
Endoscopic sclerotherapy and variceal ligation 2000
Sigmoidoscopy 250
Side viewing endoscopy 100
Endoscopic cholangiopancreatography 800
Endoscopic ultrasound 200
Ultrasound 4000

Tests done in the department

1. Serum ceruloplasmin 450
2. Serum copper 440
3. 24 hour urinary copper 450
4. TNF-á 86
5. IL-6 and IL-1á 86 each
6. Adeponectin 86
7. Leptin 86
8. Insulin 86
9. Lipid peroxidation 340
10. Total antioxidant capacity 100
11. Vitamin C 345
12. Vitamin A 100
13. Superoxide dismutase 100
14. Human anti-transglutaminase IgA autoantibodies 503
15. Catalase activity 100
16. Nitric oxide 100
17. Alpha foetoprotein 100
18. Neutrophil function test 100
19. D-xylose 832
20. Faecal chymotrypsin 140
21. Faecal fat 133
22. Hydrogen breath test 134
23. MCP-1 ELISA 214
24. Anti-Sacchromyces cervical antibody A 80
25. Anti-Sacchromyces cervical antibody G 80
26. Anti-endotoxin antibody IgG 90
27. Anti-endotoxin antibody IgM 90
28. Plasma glutamine (HPLC) 50
29. Bile acids (HPLC) 25
30. MCP-1 (PCR) 241
31. IL-6 (PCR) 241
32. Blood ammonia 150

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor S. K. Acharya was awarded ‘Ranbaxy Research Award for the year 2006’ in the field of Medical Sciences–Clinical Research.

Dr Pramod Garg was elected Member, Editorial board, Indian Journal of Gastroenterology and Member, International editorial board, Journal of Gastroenterology and Hepatology. He was awarded the international fellowship for 6 months by the Department of Biotechnology.

Dr Vineet Ahuja was awarded ICMR International Fellowship for Young Biomedical Scientists at Harvard Medical School, USA for 6 months; has set up leukocytopharesis—a novel treatment modality for severe inflammatory bowel disease. The first case in Asia (outside Japan) was done successfully in September 2007.

Dr Govind Makharia was nominated, Adjunct Faculty, Clinical Epidemiology Unit, AIIMS; Invited member, Asia Pacific Consensus on the Screening for colorectal cancer in average risk individuals in Asia Pacific region (Consensus guidelines are under publication); invited to be a member of Asian Neurogastroenterology and Motility Association; nominated secretary of one of the sections of the drafting committee and consensus committee for developing recommendations on Irritable Bowel Syndrome in Asia Pacific region; received Paper award, Indian Society of Gastroenterology, 2008

VISITING SCIENTISTS
1. Professor Gyongi Szabo, Director of Hepatology and Liver Centre, Massachusetts Medical School, USA, 20 August 2007.
2. Dr Smriti Mohanty, Assistant Professor, Department of Medicine, University of Chicago, USA, 3 September 2007.
3. Dr Paul J. Thuluvath, Director, Hepatology and Medical Director, Liver Transplantation, The Johns Hopkins Hospital and School of Medicine, USA, 19 November 2007.
4. Professor Selwyn Vickers, Professor and Chairman, Department of Surgery, University of Minnesota, USA, 27 February 2008.
EDUCATION
The department faculty is involved in the didactic teaching programme for undergraduates, surgical postgraduates and post doctoral trainees. The department offers 3 year super specialty training in gastrointestinal surgery leading to an award of MCh degree in Gastrointestinal surgery.

Continuing Medical Education
2. Pre-conference symposia: Oesophageal diseases and Liver transplantation at AIIMS, September 2007

Lectures
The faculty delivered 14 lectures at various regional medical fora in the country.

RESEARCH

Funded projects

Ongoing

Departmental projects

Completed
1. Quality of life after transhiatal oesophagectomy for carcinoma oesophagus: An early prospective and late retrospective study.
2. CT cholangiography for evaluation of hilar biliary obstruction.
3. The role of endoscopic ultrasound for evaluation of periampullary tumours.

5. The influence of perioperative famotidine on tumour infiltrating lymphocytes in colon carcinoma and gastric carcinoma.

6. Thromboelastography to detect covert coagulation abnormalities in patients with portal hypertension.


8. A prospective study to evaluate gastrograffin for treating postoperative adhesive intestinal obstruction.

9. A prospective randomized study comparing substernal and posterior mediastinal routes of gastric transposition following oesophagectomy.

10. A prospective evaluation of patients with extrahepatic portal venous obstruction and portal biliopathy.

**Ongoing**

1. Prospective evaluation of choledochoscopy for various biliary tract disorders.

2. Prospective evaluation of the role of intraoperative enteroscopy in the management of obscure gastrointestinal bleeding.

3. A prospective randomized study to compare hand sewn and stapled oesophagogastric anastomoses following transhiatal oesophagectomy.

4. Study of gastric emptying following classical Whipple’s pancreatoduodenectomy and pylorus-preserving pancreatoduodenectomy using scintigraphic techniques after randomizing them to antecolic or retrocolic gastro- or pylorojejunostomy.

5. A prospective study of the quality of life following endoscopic oesophageal stenting for inoperable patients with oesophageal carcinoma.

6. A prospective randomized trial comparing preoperative radiotherapy and transhiatal oesophagectomy v. transhiatal oesophagectomy alone for squamous cell cancer of the lower third of oesophagus.

7. A prospective pilot study to evaluate the efficacy of neoadjuvant chemoradiotherapy in patients with locally advanced but resectable gall bladder cancer.

8. A prospective and retrospective evaluation of the long term outcomes of patients with incidental gall bladder cancer.

**Collaborative Projects**

**Ongoing**

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

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

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

4. A randomized controlled clinical trial of preoperative cholecystojejunostomy v. endoscopic stenting in surgical obstructive jaundice due to periampullary carcinoma (with Gastroenterology).
5. The role of endoscopic ultrasound for evaluation of periampullary tumours (with Gastroenterology).

**PUBLICATIONS**

**Journals**


**Books**


**Chapters in Books**


**PATIENT CARE**

**OPD and specialty clinics**

<table>
<thead>
<tr>
<th>Service</th>
<th>Total Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of new patients seen</td>
<td>1759</td>
</tr>
<tr>
<td>Total number of old patients seen</td>
<td>5036</td>
</tr>
</tbody>
</table>

**Special laboratory facilities**

- Anal manometry
- Oesophageal manometry
- 24-hour ambulatory oesophageal pH monitoring

**Inpatients**

- Total number of inpatient admissions (Jan 2007–Dec 2007): 584

**Surgical procedures**

- Total number of operations performed: 491
  - Elective operations: 374
  - Emergency operations: 117

**Number of operations performed (Special interest areas)**

- Surgical jaundice: 86
- Portal hypertension: 61
- Oesophageal cancer: 62
- Carcinoma gall bladder: 32
- Ulcerative colitis: 30
- Upper GI haemorrhage: 14
- Lower GI haemorrhage: 7
- Acute pancreatitis: 8
- Chronic pancreatitis: 6
- Liver resections: 24
- Cadaveric liver retrievals: 1
AWARDS, HONOURS AND SIGNIFICANT EVENTS
Professor T. K. Chattopadhyay delivered the ‘Dr R. L. Gupta Memorial Oration’ on Gall bladder cancer at Lala Lajpat Rai Medical College, Meerut, UP.

Dr Peush Sahni holds the office of Past President, World Association of Medical Editors and is also Editor, The National Medical Journal of India.

Dr Sujoy Pal was awarded the ICMR International Fellowship for the year 2007.

VISITING SCIENTISTS
1. Dr J. R. Siewert, Professor of Surgery, University of Munich and President, University of Heidelberg, Germany.
2. Mr Mohamed Rela, Consultant Liver Transplant and HPB Surgeon, King’s College Hospital, London.
3. Dr S. T. Fan, Sun CY Chair Professor of Hepatobiliary Surgery, Chief of Liver Transplantation and Hepatobiliary Surgery, Department of Surgery, Queen Mary Hospital, University of Hong Kong, Hong Kong.
4. Dr Shin Hwang, Consultant Liver Transplant Surgeon, Asan Medical Centre, Seoul, South Korea.
5. Dr John Windsor, Professor of Surgery, Auckland, New Zealand.
6. Dr G. K. Pande, Consultant Hepatobiliary Surgeon, Launceston, Tasmania, Australia.
7. Dr Sumit Mittal, Department of Surgery, Creighton University Medical Center, Omaha, Nebraska, USA.
8. Mr Tan Arulampalam, Consultant Surgeon (Minimally Invasive Colorectal Surgery), Colchester, UK.
9. Dr Selwyn M. Vickers, Jay Phillips Professor and Chairman, Department of Surgery, University of Minnesota, USA.
10. Dr Ashok Saluja, Professor, Vice Chair of Research, Department of Surgery, University of Minnesota, USA.
9.14 Haematology

<table>
<thead>
<tr>
<th>Professor and Head</th>
</tr>
</thead>
<tbody>
<tr>
<td>R. Saxena</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Professors</th>
</tr>
</thead>
<tbody>
<tr>
<td>H.P. Pati</td>
</tr>
<tr>
<td>Rajat Kumar</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Associate Professors</th>
</tr>
</thead>
<tbody>
<tr>
<td>S. Tyagi</td>
</tr>
<tr>
<td>M. Mahapatra</td>
</tr>
<tr>
<td>(Away on 1yr fellowship)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Associate Professors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tulika Seth</td>
</tr>
<tr>
<td>P. Mishra</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Scientist</th>
</tr>
</thead>
<tbody>
<tr>
<td>S. Sazawal</td>
</tr>
</tbody>
</table>

EDUCATION

The Department has DM courses in Clinical Hematology and in Hemato-pathology. This year, two candidates passed DM Clinical Hematology and two passed the DM Hemato-pathology examination. Eight residents are undergoing training for Clinical Hematology and six for hemato-pathology during this current academic year. Five students were registered for PhD in Hematology, which is ongoing.

The faculty continues to take undergraduate classes for Hematology and trained 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 six doctors from other institutions for periods varying from 1 to 6 months. Forty eight MSc students also undertook short-term training in molecular hematology for periods varying from 1 to 6 months during this year.

CME

“Conferences Seminars, Workshops” Organized by Department

2. SHC-AIIMS Hemophilia conference held on 13–14 March 2008 at AIIMS
4. Course on scientific writing conducted by INCTR on September 2007 at AIIMS, New Delhi.
5. 3rd Hands-on Training Programme for Scientists (Medical/Non-medical) on “Diagnosis of Genetic Disorders using Cytogenetics and Molecular Genetics Methods” (Sponsored by Department of Biotechnology, Govt. of India), 26–27 March 2007 organized by Departments of Pediatrics & Hematology, AIIMS, New Delhi – 110 029.
7. Wet workshop on Lab diagnosis of Hemophilia on 14 March 2008 at AIIMS, New Delhi. Lectures in CME delivered by departmental faculty, residents and staff:

**Dr. R. Saxena**
1. Carrier Detection and prenatal diagnosis in Hemophilia A. Hemophilia Conference held in March 2008 at AIIMS.
2. Panelist for management issues in acute promyelocytic leukemia in “Leukemias: Molecular Insights to Treatment Paradigms” on 7–9 March 2008 organized by The European School of Oncology in partnership with the International network for Cancer treatment and Research (INCTR) and in collaboration with the European school of Hematology; jointly with Indian Society of Medical and Pediatric Oncology, Indian co-operative Oncology Network and Mumbai Hematology Group, Mumbai.
6. Interpretation of 5 part automated cell counter parameter. XIVth National CME in Haematology held on 3–6 January 2008 at Bombay Hospital, Mumbai.

**Dr. H.P. Pati**
5. Refractory iron deficiency anemia, at National Hematology CME, Bombay Hospital, Mumbai, 3–6 January 2008.

Dr Seema Tyagi
2. External Quality Assessment in Hematology: Wet Workshop on Quality Control in Haemogram. NHU- VII, 23 February 2008, AIIMS.

Dr Tulika Seth
1. Panel discussion on ‘Safety of factor concentrates in India’ in Hemophilia Conference panel discussion”, 13–14 March 2008, held at the AIIMS.
2. Conducted Hematology Quiz, National Hematology Update VII, New Delhi, 23 February 2008

Dr Pravas Misra
1. Panel discussion on ‘Safety of factor concentrates in India’ in Hemophilia Conference panel discussion”, 13–14 March 2008, held at the AIIMS.

National and International Conferences

Lectures delivered

Dr R. Saxena
1. Rare Coagulation and bleeding disorders. International Conference on Medical & Community Genetics from February 15-17, 2008 at PGI Chandigarh.
2. Flowcytometric methods for platelet dysfunction at Cytometry Conference held in Dept. of Immunology, SGPGI, Lucknow December 2007.
4. Differentiating among LMWHs. International Conference on “Generic Anti-thrombotic Drugs” Sponsored by SASAT, International Union of Angiology (IUA), North American Thrombosis Forum (NATF) and International Academy of Clinical and Applied Thrombosis and Hemostasis (IACATH) and All India Institute of Medical Sciences, 12 October 2007.

Dr H.P. Pati
Dr Rajat Kumar
1. ‘Aplastic Anemia’ during 63rd Annual Conference of Association of Physicians of India, Kochi, January 2008

Dr Tulika Seth

RESEARCH

Funded Projects

Ongoing
1. Elucidation of molecular genetics of acute leukemia. Dr R. Saxena Funded by ICMR (2005 onwards). Funds: Rs. 5.5 lakhs.

Completed
7. Hereditary Spherocytosis: diagnosis with flow cytometric eosin 5’ malemide staining. (completed)
Departmental Projects

Completed

Ongoing
11. Utility of combined modified DCIP & modified osmotic fragility as a cost effective screening tool in Hb E and thalassemia.
12. Lymphoid infiltrate in bone marrow characterization by immuno-histochemistry.
13. Study of CD 38 immuno-histochemistry in bone marrow biopsy in Chronic lymphocytic leukemia & prognostic significance.
15. Flow cytometric study of granulocyte and red cells in PNH (ongoing)

Collaborative Research

Completed
2. To study subset of antiphospholipid syndrome defined by anti b2 GP1 antibody. Collaboration with Dept of Medicine, 2005.
3. Haematological changes in HIV, Collaboration with Dept of Medicine, 2005

Ongoing
1. Role of ART in HIV positive patients (Dept of Medicine) Since 2006.
2. Evaluation of Platelet Receptor Polymorphism and Thrombogenic Mutation in Patients with Coronary Artery Disease. (Dept. of Cardiology).
3. Determination of the prevalence of Clopidogrel Resistance in CAD and evaluation of the role of P2Y12 Gene Polymorphism in its pathogenesis (Dept. of Cardiology).
4. Development of new fluorescent biosensor for evaluation of Iron profiles in hematological disorders. (Collaboration with Department of Biomedical Engineering, IIT, Delhi, 2004 onwards).
5. GPIIb/IIIa and platelet neutrophil conjugates: NO+ Iloprost (Cardiothorax) 2006.
6. Prevalence of DVT/ Pulmonary embolism in critically ill medical patients (Medicine, since 2006).
7. Evaluation of anemia in patients with solid tumors (Oncology, since 2006).

PUBLICATIONS

Journals including abstracts
ceftriaxone and amikacin in chemotherapy induced low risk febrile neutropenia Indian Journal of Medical and Pediatric Oncology, 2007.


cases. 45th National Conference of Indian Academy of Pediatrics (PEDICON 2008), Bhubaneshwar, 17 January 2008.


Chapters in Books


**Book/ Monograms/Manuals Edited**

- Manual on quality assurance in hemograms. 2008

**PATIENT CARE**

**In Patient Treatment**

The department has treated an increasing number of patients of leukemias, aplastic anemia, idiopathic thrombocytopenic purpura, lymphomas, myelodysplastic syndrome, hemophilia, multiple myeloma and other hematological disorders as indoor patients. In the past year, 14 allogeneic transplants were done successfully. The department also has a day-care centre for chemotherapy, procedures and blood product transfusions for patients.

**Hematology Day Care Centre: Census of April 2007 to March 2008**

<table>
<thead>
<tr>
<th>Month</th>
<th>Blood Transfusions</th>
<th>Procedures</th>
<th>Bone biopsy &amp; Bone marrow aspirates</th>
<th>Chemo-therapy</th>
<th>IT</th>
<th>Others</th>
<th>Total admissions</th>
</tr>
</thead>
<tbody>
<tr>
<td>April</td>
<td>289</td>
<td>190</td>
<td>90</td>
<td>86</td>
<td>12</td>
<td>2</td>
<td>479</td>
</tr>
<tr>
<td>May</td>
<td>335</td>
<td>254</td>
<td>91</td>
<td>135</td>
<td>17</td>
<td>11</td>
<td>589</td>
</tr>
<tr>
<td>June</td>
<td>299</td>
<td>191</td>
<td>80</td>
<td>95</td>
<td>10</td>
<td>6</td>
<td>490</td>
</tr>
<tr>
<td>July</td>
<td>285</td>
<td>266</td>
<td>101</td>
<td>150</td>
<td>10</td>
<td>5</td>
<td>551</td>
</tr>
<tr>
<td>August</td>
<td>276</td>
<td>265</td>
<td>120</td>
<td>121</td>
<td>16</td>
<td>8</td>
<td>541</td>
</tr>
<tr>
<td>September</td>
<td>305</td>
<td>180</td>
<td>83</td>
<td>87</td>
<td>8</td>
<td>2</td>
<td>485</td>
</tr>
<tr>
<td>October</td>
<td>295</td>
<td>249</td>
<td>124</td>
<td>108</td>
<td>18</td>
<td>9</td>
<td>544</td>
</tr>
<tr>
<td>November</td>
<td>290</td>
<td>214</td>
<td>85</td>
<td>95</td>
<td>19</td>
<td>15</td>
<td>504</td>
</tr>
<tr>
<td>December</td>
<td>281</td>
<td>164</td>
<td>69</td>
<td>74</td>
<td>16</td>
<td>5</td>
<td>445</td>
</tr>
<tr>
<td>January</td>
<td>282</td>
<td>169</td>
<td>71</td>
<td>70</td>
<td>22</td>
<td>6</td>
<td>451</td>
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<tr>
<td>February</td>
<td>326</td>
<td>135</td>
<td>70</td>
<td>32</td>
<td>26</td>
<td>13</td>
<td>461</td>
</tr>
<tr>
<td>March</td>
<td>199</td>
<td>202</td>
<td>75</td>
<td>107</td>
<td>13</td>
<td>7</td>
<td>401</td>
</tr>
<tr>
<td>TOTAL</td>
<td>3522</td>
<td>2479</td>
<td>1049</td>
<td>1150</td>
<td>187</td>
<td>82</td>
<td>5951</td>
</tr>
</tbody>
</table>
Clinical Apheresis Procedures
Single Donor Platelets (SDP)  651
Peripheral blood stem cell (PBSC) collection  11
Plasma pheresis  2

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 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 morning.

Census of OPD: April 2007 to March 2008

<table>
<thead>
<tr>
<th>Male</th>
<th>Female</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>13954</td>
<td>4651</td>
<td>18605</td>
</tr>
<tr>
<td>2377</td>
<td>792</td>
<td>3169</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>HO Hemato-oncology</th>
<th>HCHemostasis clinic</th>
</tr>
</thead>
<tbody>
<tr>
<td>5400</td>
<td>2051</td>
</tr>
<tr>
<td>375</td>
<td>280</td>
</tr>
</tbody>
</table>

Laboratory
The department has full-fledged hematology laboratory

Tests for anemia

<table>
<thead>
<tr>
<th>Test</th>
<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPLC</td>
<td>1506</td>
</tr>
<tr>
<td>Sickling</td>
<td>63</td>
</tr>
<tr>
<td>Hb Electrophoresis</td>
<td>20</td>
</tr>
<tr>
<td>G6PD</td>
<td>683</td>
</tr>
<tr>
<td>S Iron</td>
<td>1739</td>
</tr>
<tr>
<td>Coombs</td>
<td>517</td>
</tr>
<tr>
<td>CD55/CD59</td>
<td>202</td>
</tr>
<tr>
<td>PNH (Ham’s test)</td>
<td>57</td>
</tr>
<tr>
<td>Sucrose lysis</td>
<td>57</td>
</tr>
<tr>
<td>Plasma Hemoglobin</td>
<td>107</td>
</tr>
<tr>
<td>Urine hemosiderin</td>
<td>130</td>
</tr>
<tr>
<td>Osmotic Fragility/Incubated osmotic fragility</td>
<td>310</td>
</tr>
<tr>
<td>Heinz bodies</td>
<td>17</td>
</tr>
<tr>
<td>Methemoglobin</td>
<td>01</td>
</tr>
<tr>
<td>Test Description</td>
<td>Code</td>
</tr>
<tr>
<td>------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Cold agglutinins</td>
<td>01</td>
</tr>
<tr>
<td>Autohemolysis</td>
<td>NIL</td>
</tr>
<tr>
<td>Cryoglobulins</td>
<td>09</td>
</tr>
<tr>
<td>Iron stain</td>
<td>193</td>
</tr>
<tr>
<td>Molecular Tests for α thalasemia</td>
<td>22</td>
</tr>
</tbody>
</table>

### Hemogram and Biopsy

<table>
<thead>
<tr>
<th>Test Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hemogram</td>
<td>34500</td>
</tr>
<tr>
<td>Reticulocyte count</td>
<td>2460</td>
</tr>
<tr>
<td>Bone marrow aspirate</td>
<td>2110</td>
</tr>
<tr>
<td>Biopsy</td>
<td>1541</td>
</tr>
<tr>
<td>Reticulin special stain</td>
<td>117</td>
</tr>
</tbody>
</table>

### Tests for Hemostasis

<table>
<thead>
<tr>
<th>Test Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short screening coagulogram</td>
<td>5300</td>
</tr>
<tr>
<td>Factor assay</td>
<td>670</td>
</tr>
<tr>
<td>Inhibitors screening</td>
<td>370</td>
</tr>
<tr>
<td>Factor inhibitors assay</td>
<td>15</td>
</tr>
<tr>
<td>INR</td>
<td>5200</td>
</tr>
<tr>
<td>Lupus anticoagulant</td>
<td>2500</td>
</tr>
<tr>
<td>Platelet Function Test</td>
<td>1800</td>
</tr>
<tr>
<td>D. Dimer</td>
<td>1500</td>
</tr>
<tr>
<td>Fibrinogen</td>
<td>870</td>
</tr>
<tr>
<td>Proglob C</td>
<td>526</td>
</tr>
<tr>
<td>Protein C</td>
<td>95</td>
</tr>
<tr>
<td>Protein S</td>
<td>95</td>
</tr>
<tr>
<td>APCR</td>
<td>95</td>
</tr>
<tr>
<td>AT-III</td>
<td>166</td>
</tr>
<tr>
<td>P2GP</td>
<td>187</td>
</tr>
<tr>
<td>S. Homocysteine</td>
<td>235</td>
</tr>
<tr>
<td>VWD</td>
<td>88</td>
</tr>
<tr>
<td>DNA Parental detection</td>
<td>12</td>
</tr>
<tr>
<td>DNA: Carrier detection</td>
<td>41</td>
</tr>
</tbody>
</table>

### Tests for Leukemia

<table>
<thead>
<tr>
<th>Test Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immunophenotyping by flow cytometry</td>
<td></td>
</tr>
<tr>
<td>Acute Leukemia</td>
<td>134</td>
</tr>
<tr>
<td>Chronic Leukemia</td>
<td>35</td>
</tr>
<tr>
<td>Bone marrow transplant (CD34 count)</td>
<td>18</td>
</tr>
<tr>
<td>Hereditary spherocytosis</td>
<td>118</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 fulfilling the much needed requirement of monitoring performance of the participating laboratories in respect of the above mentioned parameters. There are about 550 participating labs at present availing services of our 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 that they could take corrective steps in case their performance is out of acceptable range. There is overwhelming response and appreciation for the programme from all over India commending our effort to have offered them a platform to gauge their performance.

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.

AWARDS AND HONOURS

The following papers conducted under Dr R Saxena’s direct supervision received best paper award

1. ASO-PCR based detection of T315I mutation in CML patients treated with Imatinib mesylate Rashid Mir, Sudha Sazawal, Rekha Chobey, Bharti, Anita Chopra (DM), Bijender Bohra, Pravas Mishra, Alpana Saxena*, Renu Saxena. Conference of Molecular Medicine, MAMC March 2008 (Best Poster).

2. ASO-PCR is a rapid, sensitive and an inexpensive method for detecting clinically significant mutations in Imatinib resistant CML patients. AB. Rashid Mir, Sudha Sazawal, Bijender Bohra, Rekha Chobey, Pravas Mishra, Anita, Renu Saxena LEUKAEMIAS: MOLECULAR INSIGHTS TO TREATMENT PARADIGMS. 7–9 March 2008, Mumbai, India.


SIGNIFICANT EVENTS

Professor Renu Saxena
- Executive member Indian society of Hematology and Transfusion medicine 2006-2008
- President, Delhi Society of Hematology 2005–2007
- Member, Medical Advisory Board, HFI, 2005
- Member, ICMR project review committee for Genetics, hematology, anatomy2005
- Coordinator ISHTM-IIMS EQAP. Since 2003
- Member: Subject expert committee for technical evaluation of proposals under women scientist scheme, Department of Science and Technology, Government of India. June 2005.
- Member, Technical Specification Committee for computer stationery

Professor H.P. Pati
- Current Honorary Secretary, Indian society of Hematology & Transfusion Medicine (2005–08)
- Qualified as a Technical Assessor, for NABL (National Accreditation Board Laboratories), New Delhi (for accreditation evaluation for medical laboratories).

Professor Rajat Kumar
- Continued to be Joint Secretary of Indian College of Physicians till January 2008.
- Elected as Member, Executive Council, Indian College of Physicians, Association of Physicians of India for the term 2008–2010.
- Appointed as Member, Expert Committee appointed by Medical Council of India to revise the curriculum of the super-specialty of Clinical Hematology

Dr Tulika Seth
- Selected to join the clinical epidemiology unit (CEU), AIIMS.

Dr Pravas Misra
- Elected as executive member of Delhi Hematology society
- Awarded Royal college of physicians London scholarship September 2007
9.15 Hospital Administration

**Head**
Shakti Kumar Gupta  
(Medical Superintendent, Dr R.P. Centre for Ophthalmic Sciences, AIIMS)

D.K. Sharma  
(Medical Superintendent, Main Hospital)

**Additional Professor**
Sidhartha Satpathy  
(Dr BRAIRCH & Main Hospital)

**Associate Professors**
I.B. Singh  
Sanjay Arya  
Aarti Vij  
(Main Hospital) (Main Hospital) (ORBO, CT & NS Centre)

**EDUCATION**
The Department of Hospital Administration is running a 2 year postgraduate programme viz. MHA (Masters in Hospital Administration)

The Department of Hospital Administration, AIIMS has introduced Integrated Learning Modules for the residents of Department of Hospital Administration from 1st January, 2008. This includes lectures, discussions, problem based learning, case studies, journal club etc. from 8.00 am to 9.00 am and 4.30 pm everyday. Each faculty member is assigned “Moderator” for a specific period. Various guest lectures were organised in the Department.

Faculty members conducted several training programmes for the 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 to Students from Different Institutes has also been Carried Out Throughout the Year 2007-2008**

- Five Medical Officers from Govt. Medical College, Jammu were given training on functioning and running of Control Room, AIIMS on 2–7 July 2007
- 30 Medical Officers from Himachal Pradesh Government Hospital were given training on Blood Bank, Emergency Services and Hospital Support Services in August 2007
- Fourteen students of MD (Community Health Administration)/ Diploma in Health Administration from National Institute of Health and Family Welfare, New Delhi received training in the Department for one month in September, 2007
- Thirty nursing personnel from Govt. Medical College, Jammu visited the Department for refresher course in December 2007 and January 2008
- Seventeen senior medical officers from Border Security Force were trained in administrative and management issues related to the functioning of hospital in February, 2008
- A student from Deccan School of Management, Hyderabad underwent a short term training for a period of three months in April–July 2007
CONTINUING MEDICAL EDUCATION

The department has conducted several “in service” CME programmes in the form of training in “Behavioural sciences and communication in hospitals” to all categories of staff. CME on “STERRICON-2008”, Recent Advances in Disinfection and Sterilisation Practices was organised by Department of Hospital Administration, AIIMS New Delhi on 16 February 2008.

LECTURES DELIVERED

Dr Shakti Kumar Gupta

• “Leadership in Mountains” in the High Altitude & Mountain Medicine Course at High Altitude Medical Research Centre at Leh organised by Indian Mountaineering Foundation, New Delhi, August, 2007
• “Networking in Disaster Management” in the Symposium on Disaster Management organised by National Academy of Medical Sciences at Guru Nanak Dev University, Amritsar, October 2007
• “An Overview of Health Services Disaster Plan” in the workshop on “Integrated Earthquake Mitigation Initiative” organised by Geohazard International, at Delhi Secretariate, New Delhi, 5 March 2008

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.
• Delivered lecture on “Services Rules & Disciplinary Procedures”, “Office Procedures and Communication” & “RTI Act in Hospitals” during the training programme on “Hospital Management and Administration” for Medical Superintendents, GDMOs, Non-Specialists of Coal India Ltd. held from 7–31 January 2008 at IICM, Ranchi and have 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

• “Quality Aspects in Hospital Infrastructure Planning” and “Quality Assurance in Human Resource Planning and Management” during 1st contact – cum – training programme for Post Graduate Certificate Course in Quality Management and Accreditation of Health Care Organisation at Academy of Hospital Administration, 3 April 2007
• “Introduction, Structures and Principles of Classification, importance and use of ICD-10” during training programme on “ICD-10 coding course” for non- medical/ para-medical personnel organised by CBHI, Jaipur, 8 October 2007
• “Health Services in Disasters – Hospital Perspective” at NIMHANS, Bangalore, 26 November 2007
• “Hospital Infection Control and Hospital Waste Management” during 78th Training Course in Hospital Administration for senior hospital administrator at National Institute of Health and Family Welfare, 27 November, 2007
• Delivered lectures on various hospital administration topics and conducted organization behaviour lab during special training programme on Hospital Management and Administration
for Medical Superintendents, GDMO’s and Non-specialists of Coal India Ltd. at Indian Institute of Coal Management, Ranchi, 7–10 January 2008 and 25–30 January 2008

- “Quality Issues in Emergency Services, ICU and OT” and “Human Resource Management – Training Development and Utilisation” during terminal training cum contact programme for Post-Graduate Certificate Course for Accreditation on 14 March 2008 in Quality Management and Accreditation of Health Care Organisation at Academy of Hospital Administration, Noida, UP

Dr Sanjay Arya
- Delivered lectures on various Hospital Administration topics during special training programme on “Hospital Management and Administration” for Medical Superintendents, GDMOs and non-specialists of Coal India Ltd., IICM, Ranchi, January 2008

Dr Aarti Vij
- Key Note Address on “Issues of National Importance – Organ Donation”, Ram Manohar Lohia Hospital, New Delhi, 19 March 2008
- “Role of Nurses in Brain Death and Organ Donation” in the Neuronursing Updates organised by College of Nursing, AIIMS, 16 October 2007
- “Nurses Role in Organ Donation” in the Critical Care Nursing Update organised by College of Nursing, AIIMS, 28 February 2008

CONFERENCES, SEMINARS, WORKSHOPS

Dr Shakti Kumar Gupta
- Programme Director, “Healthcare Executive Management Development Programme” for senior Healthcare Executive Professionals, organised by Department of Hospital Administration, at Goa, 27–31 August 2007
- Programme Director, Training Programme on Hospital Administration for Medical Superintendents, GDMOs, non-specialists of Coal India Ltd. held at IICM, Ranchi from 7–30 January 2008
- Chairman, CME “STERRICON-2008”, Recent Advances in Disinfection and Sterilisation Practices for doctors, residents and nurses of AIIMS, organised by Department of Hospital Administration, AIIMS, New Delhi, 16 February 2008.
- Organised a Seminar on “Medical Records, Medical Audit and Consumer Protection Act and its implication” for Medical Record Officers, Medical Record Technicians, Nursing Officers of AIIMS, April 2007
- Organised a public lecture on “Role of Information Technology in Healthcare – Merits and Limits”, at AIIMS, November 2007
- Organised a workshop on “Attitudinal Change and Communication Change” for residents, doctors and nurses of AIIMS, 6 October 2007
- Delivered lecture on “Quality Dimensions in Hospital Infection Control” during the 56th Annual Conference of Association of Pathologists and Microbiologist of India, PGIMER, Chandigarh, October 2007
- Delivered lecture on “Health Status in India – Issues, Challenges & Strategies” during Jammu & Kashmir State Science Congress organised by University of Jammu at Jammu, 26 February 2008
• Delivered lecture on “Medical Equipment Management – Issues, Challenges, Strategies” during China Medical Equipment Procurement and Management Summit, 2007 on 28–29 June 2007 at Wang Fu Jing, Grand Hotel, Beijing, China
• Delivered lecture on “Planning and Designing of Trauma Care Centre” during the Conference/Seminar organised by Department of Hospital Administration, Armed Forces Medical College, Pune; 12–13 January 2008
• Delivered lecture on “Laboratory Equipment Management Issues, Challenges and Strategies” in the 56th Annual Conference Association of Pathologists and Microbiologist of India at PGIMER, Chandigarh, October 2007

Dr Sidhartha Satpathy
• Delivered a lecture on “Hospital Waste Management in ICU – staff safety issues “ during 6th International Neonatal Nursing Conference organised by National Neonatology Forum, New Delhi from 15–18 September 2007 at New Delhi
• Delivered a lecture on “Bio-Medical Waste Incineration – recent advances” during the 7th Annual Indian Society for Hospital Waste Management (ISHWM) conference on 21–22 September 2007 at New Delhi
• Presented a paper entitled “Women with critical health needs in emergencies – a field operational model to reduce psychological distress” during the International Congress on Women’s Mental Health (ICWMH) at Melbourne, Australia from 16–20 March 2008

Dr I.B. Singh
Invited for peer review meeting on “Standard Treatment Guideline” project sponsored by WHO and Ministry of Health & Family Welfare, Govt. of India at Armed Forces Medical College, Pune, 26 August 2007

Dr Aarti Vij
Organised Training Programme for faculty and senior residents of Neurosurgery Department of AIIMS regarding Organ Donation and Transplantation

Organised Poster Competition on Organ Donation at AIIMS for MBBS students from all over the country, September 2007.

RESEARCH

Departmental Projects

Completed
1. To study and evaluate universal precautions practices being followed in high-risk areas of main hospitals of AIIMS

Ongoing
1. Role and Scope of Pharmaco-vigilance in Hospitals
2. Level of satisfaction amongst employees of AIIMS
3. Role, Scope and Economics of Robotic Surgery at AIIMS
4. Costing of training of undergraduate medical (MBBS) at AIIMS
5. Role, Scope and Economics of Minimal Invasive Surgery at AIIMS
6. Costing of In-patient care at AIIMS
7. The economics of hospital acquired infection at AIIMS
8. System of Empanelment of Private hospitals on CGHS panel
9. Costing of Neuro-Surgery ICU at AIIMS
10. Cost Analysis of Bone Marrow Transplant (allogenic) at AIIMS

PUBLICATIONS

Journals

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.

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 upgradation of support services has been done. An advanced, new laundry is being also installed.

AWARDS AND HONOURS
Dr Shakti Kumar Gupta Selected as an expert for the Bid Evaluation Committee meeting for selection of EPC Developer for construction of residential complex for six AIIMS like institutions, under PMSSY, 27–29 August 2007; Member of the Academic Council of Jammu University for the triennial period (2006–2009) vide notification no. 08/January/Gen/03 issued from the office of Registrar, University of Jammu; Expert for expansion programme of Nizam’s Institute of Medical Sciences, Hyderabad – University Campus under Pradhan Mantri Swasthya Suraksha Yojna
Dr D.K. Sharma elected 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; served as subject expert and member of selection committees of various organizations including State Public Service Commissions, Public Sector Undertakings, Medical Institutions, IIT etc. for the interview/selections of various positions like Medical Superintendent, Dy. Director (Admn.), Faculty of Hospital Administration, Medical Officers, Nursing and other categories of Group “A” and “B” staff, nominated as Chairman/Principal Member of various Committees of Bureau of Indian Standards (BIS), India on hospital planning, medical equipments, surgical instruments, disposables and dressings, nominated as Honorary Health Advisory member of Mother Teresa Mission an NGO for the service of poorest of the poor; permanent special invitee member of the Pradhan Mantri Swasthya Suraksha Yojna (PMSSY) of Ministry of Health and Family Welfare to establish six AIIMS like institutions

Dr Sidhartha Satpathy continued as Editor, Journal of Academy of Hospital Administration (JAHA); Member of Technical Committee, National Accreditation Board for Hospitals and Healthcare providers (NABH), under aegis of Quality Council of India (QCI); Member of Bureau of India Standards (MHR-14) involved in preparation/review of Indian Standards on Health Care Facilities; Expert member of National Accreditation Board for Certification Bodies (NABCB) under aegis of QCI; Expert member of National Accreditation Board for Personnel and Training (NRBPT) under aegis of QCI; awarded WHO fellowship on “Health Care Financing” at Chulalongkorn University, Bangkok, Thailand, August, 2007; External examiner for MD (Medical Administration), Post Graduate Institute of Medicine (PGIM), University of Colombo, February 2008; Member of Technical Committee for evaluation of Master Plan/Block Plans of six AIIMS like institutions under PMSSY at Ministry of Health and Family Welfare, Govt. of India

Dr Sanjay Arya invited as Expert for selection of DNB student at Sir Ganga Ram Hospital; Nominated as alternative member for Medical Equipment and Hospital Planning Council (BIS)

Dr Aarti Vij invited as Guest of Honour and received the Scroll of Honour for Pioneering work done in the field of organ donation conferred by Dadhichi Deh Dan Samiti, New Delhi, 25 May 2007; Invited as expert in the National Consultation on the Transplantation of Human Organ Act for amending the law (making transplantation of Human Organs Act more donor and recipient
friendly) at Rajiv Gandhi Foundation and Ministry of Health and Family Welfare, Govt. of India, New Delhi

Organ Retrieval Banking Organisation (ORBO) coordinates Organ & Tissue donations and transplantation. In addition, 16 whole bodies were also donated through ORBO to facilitate medical education in last one year. 2318 persons pledged for organ donation on motivation of ORBO. Awareness activities with various NGO’s, School, and Colleges etc were conducted. Three workshops/ training programmes were held to increase awareness among medical professional on organ donation. Collaboration with Dadhichi Deh Dan Samiti with ORBO 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 MSc Nursing students.

Visiting Scientist
2. Dr Peter Cox, Managing Director, Padghams, Australia and Expert Hospital Consultant, Australia
3. Ms Denise Burley, Senior Lecturer/International Coordinator (Health), Thamas Valley University, London
4. Dr Lawrie Walker, Thames Valley University, London
5. Dr Swapna Naskar Williams, Thames Valley University, London
9.16 Laboratory Medicine

Professor & Head
A.K. Mukhopadhyay

Professor
M. Irshad

Additional Professor
Sarman Singh

Associate Professor
Subhadra Sharma

Assistant Professors
(Trauma Centre)

Purva Mathur
S. Arulselvi

A.K. Srivastava S-IV
Vandita Vasudev S-III

Scientists

EDUCATION

Short Term Training
Fifteen trainees, 6 from CCS University, Meerut; 1 from Bundelkhand University, Jhansi; 1 from Rai Foundation (Deemed University) Delhi; 1 from EFLS, Bhopal University; 1 from JRN-RVP University, Udaipur; 1 from Jaypee Institute of Information Technology University, Noida; 1 from I.P. College, Bulandshahr, 1 SBSPGI, Dehradun, 1 HRD, New Delhi and 1 foreign student Dr Rajani Malla from Tribhuvan University, Kathmandu, Nepal underwent short term training in Laboratory Medicine, Clinical Microbiology and Molecular Biology.

CME

Workshops organized by the Deptt.; 2

Dr Sarman Singh
Workshop I: CD4 & CD8 cell count and HIV viral load estimation and their role in AIDS Monitoring 25 January 2008


Conference organized by the Department

International Conference

Dr Sarman Singh
1. The second International Conference on Opportunistic Pathogens in AIDS (ICOPA 2008) was organized by the Department of Laboratory Medicine, All India Institute of Medical Sciences, New Delhi, India. The conference, held at the All India Institute of Medical Sciences, New Delhi from 27–29 January 2008.
National and International conferences

Lectures delivered

Dr AK Mukhopadhyay
2. Three Consciousness, Mind and Information, International Conference on All India Student’s Conference on Science and Spiritual Quest in Tirupati, 22–23 December 2007. Also chaired two scientific sessions on 23 December 2007

Dr M. Irshad

Dr Sarman Singh
6. Delivered guest lecture on “Toxoplasmosis” during a national workshop on “Veterinary and Medical Perspectives on Emerging and Important Zoonotic Diseases in India” IVRI, Bareilly on 29 March 2008.
8. Chaired a Scientific Session and headed the jury to adjudge the best oral presentation during the National Conference of Indian Academy of Tropical Prasitology (Tropacon), Chennai, 6–7 October 2007.
Dr AK. Srivastava

RESEARCH

Funded Projects

Completed
2. Development of rapid diagnostic test for detection of autoantibodies in Myasthenia Gravis by plate and Dot blot ELISA. Dr M. Irshad, ICMR, 2004–07.
5. Genetic Heterogeniety amongst the Leishmania donovani isolated from Eastern India. Dr Sarman Singh. Funded by AIIMS for 3 years, 2003–2006. Rs 1.35 lacs.

Ongoing
2. Prevalence and significance of transfusion transmitted virus (TTV) and association of lipoprotein (a) with apoprotein A and B in various forms of liver diseases. Dr M. Irshad, ICMR, 2005–08.


11. Isolation and Purification of Herbal Compound(s) having anti-leishmanial activity. Dr Sarman Singh. Funded by ICMR (Fellowship) for 4 years (2004–2008), Rs 6 lakhs.


**Departmental Projects**

**Dr A.K. Mukhopadhyay**

2. Role of Interleukin - 1, 6 & 10 and TNF-a along with NFK- b and isoprostane in acute pancreatitis
3. Preparation and characterization of Vi-Polysaccharide-Protein conjugate for immunization against Salmonellae.
4. Recovery and stability of various analytes, enzymes and DNA from whole blood/serum spotted on filter paper.

**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.

**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. Prevalence and treatment response of coccidian parasitic infections in HIV positive patients at AIIMS (with Deptt. of Medicine).
6. To study reintroduction of anti-tuberculosis drugs and risk factors for anti-tuberculosis treatment induced hepatotoxicity (with Deptt. of Medicine).
7. Study of Mycobacteremia in Patients with milliary and extrapulmonary and tuberculosis (with Deptt. of Medicine).
8. To study the prevalence of ESBL of urinary pathogens using disk diffusion method and e-Test.
9. To study the immune response in acute Toxoplasmosis using Western Blot Method.
10. Comparative evaluation of Smear, LJ Culture, MGIT-960 Bactec Culture and Bactericophage tests for the diagnosis of Tuberculosis
11. Comparative evaluation of various TORCH test kits
12. Blood borne infections after needle prick injury in Health Care workers of AIIMS
13. Toxoplasma gondii IgG avidity assays in pregnant women attending AIIMS.
14. Sequence based diagnosis of Mycobacterial isolates from HIV positive and HIV negative patients.
15. Nested polymerase chain reaction for the diagnosis of congenital CMV infection.
16. Opportunistic infections in AIDS patients attending AIIMS.

PUBLICATIONS

Chapter in Books

PATIENT CARE
Total Tests Performed: 67,84,151

Centralised Collection Centres

**BLOOD COLLECTION**

<table>
<thead>
<tr>
<th>For the Dept. of</th>
<th>No. of Specimens</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laboratory Medicine</td>
<td>1,96,286</td>
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<tr>
<td>Blood Bank</td>
<td>2,658</td>
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<tr>
<td>Microbiology</td>
<td>12,891</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>17,099</td>
</tr>
<tr>
<td>(Samples collected from other clinics)</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>2,28,934</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>FLUID &amp; SECRETIONS COLLECTIONS</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Specimen</td>
</tr>
<tr>
<td>----------</td>
</tr>
<tr>
<td>Urine</td>
</tr>
<tr>
<td>Fecal samples</td>
</tr>
<tr>
<td>Sputum</td>
</tr>
<tr>
<td>Semen</td>
</tr>
<tr>
<td>Other fluids</td>
</tr>
<tr>
<td>Blood For Viral Marker/HIV Investigation</td>
</tr>
<tr>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>

Grand Total: 4,05,669
### Emergency Laboratory Service (Round The Clock)

#### CLINICAL BIOCHEMISTRY

<table>
<thead>
<tr>
<th>Test</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blood Sugar</td>
<td>15,825</td>
</tr>
<tr>
<td>Blood Urea</td>
<td>78,972</td>
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<tr>
<td>Bilirubin</td>
<td>24,778</td>
</tr>
<tr>
<td>Sodium</td>
<td>79,646</td>
</tr>
<tr>
<td>Potassium</td>
<td>79,646</td>
</tr>
<tr>
<td>Amylase</td>
<td>7,462</td>
</tr>
<tr>
<td>CSF Sugar</td>
<td>6,125</td>
</tr>
<tr>
<td>CSF protein</td>
<td>6,125</td>
</tr>
<tr>
<td>Arterial Blood Gas</td>
<td>13,266</td>
</tr>
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</table>

#### HEMOGRAM & BODY FLUID

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<thead>
<tr>
<th>Test</th>
<th>Number</th>
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<tbody>
<tr>
<td>Hb</td>
<td>85,711</td>
</tr>
<tr>
<td>TLC</td>
<td>85,711</td>
</tr>
<tr>
<td>Platelets</td>
<td>85,711</td>
</tr>
<tr>
<td>Proth Time</td>
<td>27,302</td>
</tr>
<tr>
<td>M.P.</td>
<td>3,089</td>
</tr>
<tr>
<td>CSF</td>
<td>7,709</td>
</tr>
<tr>
<td>Urine</td>
<td>957</td>
</tr>
<tr>
<td>Micro. Blood Culture</td>
<td>7,322</td>
</tr>
<tr>
<td>Micro. CSF</td>
<td>3,640</td>
</tr>
<tr>
<td>Gram Stain</td>
<td>2,632</td>
</tr>
<tr>
<td>Slide Stain Giemsa</td>
<td>3,089</td>
</tr>
<tr>
<td>Stool Hanging Drop</td>
<td>986</td>
</tr>
<tr>
<td>MCV</td>
<td>85,711</td>
</tr>
<tr>
<td>MCH</td>
<td>85,711</td>
</tr>
<tr>
<td>MCHC</td>
<td>85,711</td>
</tr>
<tr>
<td>PCV</td>
<td>85,711</td>
</tr>
<tr>
<td>RBC</td>
<td>85,711</td>
</tr>
<tr>
<td>Others*</td>
<td>11,210</td>
</tr>
</tbody>
</table>

**Total:** 3,11,845

**Grand Total:** 10,65,469

* Repeat test, trial test, Quality Control Sample, Internal Q.C. etc.

Note: Arterial blood gas 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.

### CLINICAL BIOCHEMISTRY

<table>
<thead>
<tr>
<th>Test</th>
<th>Blood</th>
<th>Urine</th>
<th>Fluid</th>
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</thead>
<tbody>
<tr>
<td>Sugar</td>
<td>1,17,231</td>
<td>900</td>
<td>3,103</td>
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<tr>
<td>Urea</td>
<td>1,99,316</td>
<td>463</td>
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<tr>
<td>T. Protein</td>
<td>1,89,871</td>
<td>—</td>
<td>3,103</td>
</tr>
<tr>
<td>Albumin</td>
<td>1,89,871</td>
<td>—</td>
<td>3,103</td>
</tr>
<tr>
<td>24h Albumin</td>
<td>—</td>
<td>8,058</td>
<td></td>
</tr>
<tr>
<td>Bilirubin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i) Total</td>
<td>1,89,346</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>ii) Conj.</td>
<td>1,89,346</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Alk. Phosphatase</td>
<td>1,98,748</td>
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<td>—</td>
</tr>
<tr>
<td>Cholesterol</td>
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<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Na</td>
<td>1,63,174</td>
<td>3,784</td>
<td>—</td>
</tr>
<tr>
<td>K</td>
<td>1,63,174</td>
<td>3,784</td>
<td>—</td>
</tr>
<tr>
<td>Test</td>
<td>Number</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------------</td>
<td>--------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calcium</td>
<td>1,42,132</td>
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<tr>
<td>Phosphate</td>
<td>1,35,371</td>
<td>5,210</td>
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<tr>
<td>Uric Acid</td>
<td>1,32,711</td>
<td>5,226</td>
<td></td>
</tr>
<tr>
<td>Amylase</td>
<td>11,303</td>
<td>210</td>
<td></td>
</tr>
<tr>
<td>Creatinine</td>
<td>1,96,873</td>
<td>8,792</td>
<td></td>
</tr>
<tr>
<td>SGOT</td>
<td>2,02,585</td>
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<td></td>
</tr>
<tr>
<td>SGPT</td>
<td>2,02,585</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>ABG</td>
<td>9,051</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>pCO₂</td>
<td>9,051</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>9,051</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>pO₂</td>
<td>9,051</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>HCO₃</td>
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<td>—</td>
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</tr>
<tr>
<td>CO₂</td>
<td>9,051</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>AsDO₂</td>
<td>9,051</td>
<td>—</td>
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</tr>
<tr>
<td>O₂ sat.</td>
<td>9,051</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>BE</td>
<td>9,051</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>27,57,896</td>
<td>41,999</td>
<td></td>
</tr>
</tbody>
</table>

Other Investigations (Done on request, Not as routine service)

<table>
<thead>
<tr>
<th>Test</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>HBsAg</td>
<td>650</td>
</tr>
<tr>
<td>Anti HBs</td>
<td>300</td>
</tr>
<tr>
<td>HBeAg</td>
<td>100</td>
</tr>
<tr>
<td>IgM anti HBc</td>
<td>400</td>
</tr>
<tr>
<td>Anti HCV</td>
<td>700</td>
</tr>
<tr>
<td>Anti HEV</td>
<td>100</td>
</tr>
<tr>
<td>IgM Anti HAV</td>
<td>200</td>
</tr>
<tr>
<td>HCV-RNA</td>
<td>50</td>
</tr>
<tr>
<td>TTV-DNA</td>
<td>300</td>
</tr>
<tr>
<td>Superoxide dismutase</td>
<td>100</td>
</tr>
<tr>
<td>T. Antioxidant</td>
<td>100</td>
</tr>
<tr>
<td>Apoprotein A</td>
<td>200</td>
</tr>
<tr>
<td>Apoprotein B</td>
<td>200</td>
</tr>
<tr>
<td>Lp(a)</td>
<td>100</td>
</tr>
<tr>
<td>CK</td>
<td>100</td>
</tr>
<tr>
<td>LDH</td>
<td>100</td>
</tr>
<tr>
<td>GGT</td>
<td>—</td>
</tr>
<tr>
<td>TG</td>
<td>200</td>
</tr>
<tr>
<td>TG</td>
<td>200</td>
</tr>
<tr>
<td>LDLC</td>
<td>200</td>
</tr>
<tr>
<td>HDLC</td>
<td>200</td>
</tr>
<tr>
<td>TOTAL</td>
<td>4,300</td>
</tr>
<tr>
<td>Grand Total</td>
<td>28,13,713</td>
</tr>
</tbody>
</table>
Service from Room no. 18

Adenosine Deaminase Assay (ADA) :  940
ELISA IgG-Ab Neuro Cysticercosis :  139
TOTAL :  1,079

HEMATOLOGY SECTION

<table>
<thead>
<tr>
<th>Test</th>
<th>OPD</th>
<th>Ward</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hb</td>
<td>80,638</td>
<td>72,051</td>
</tr>
<tr>
<td>TLC</td>
<td>80,638</td>
<td>72,051</td>
</tr>
<tr>
<td>PCV</td>
<td>80,638</td>
<td>72,051</td>
</tr>
<tr>
<td>DLC</td>
<td>75,246</td>
<td>72,051</td>
</tr>
<tr>
<td>ESR</td>
<td>74,146</td>
<td>36,916</td>
</tr>
<tr>
<td>D/Morphology</td>
<td>69,953</td>
<td>18,350</td>
</tr>
<tr>
<td>Platelet</td>
<td>80,638</td>
<td>72,051</td>
</tr>
<tr>
<td>Retic Count</td>
<td>11,461</td>
<td>10,076</td>
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<tr>
<td>Ab. Eosinophil Count</td>
<td>25,802</td>
<td>7,420</td>
</tr>
<tr>
<td>Malaria Parasite</td>
<td>49,386</td>
<td>6,524</td>
</tr>
<tr>
<td>Thick Smear</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MCV</td>
<td>80,638</td>
<td>72,051</td>
</tr>
<tr>
<td>MCH</td>
<td>80,638</td>
<td>72,051</td>
</tr>
<tr>
<td>MCHC</td>
<td>80,638</td>
<td>72,051</td>
</tr>
<tr>
<td>RBC</td>
<td>80,638</td>
<td>72,051</td>
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<td>BT</td>
<td>1,150</td>
<td></td>
</tr>
<tr>
<td>CT</td>
<td>1,150</td>
<td></td>
</tr>
<tr>
<td>PT</td>
<td>6,607</td>
<td>10,537</td>
</tr>
<tr>
<td>Blood Clotted</td>
<td>1,274</td>
<td>936</td>
</tr>
<tr>
<td>Others*</td>
<td>11,866</td>
<td>8,590</td>
</tr>
<tr>
<td>TOTAL</td>
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<td>7,47,808</td>
</tr>
<tr>
<td>Grand Total</td>
<td>17,20,953</td>
<td></td>
</tr>
</tbody>
</table>

*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

Pre- and post-test counseling (total)  485
TORCH patients                  138
HIV/AIDS                       347

Workload of the Tests done in Clinical Microbiology Section during April 2007 to March 2008. The clinical microbiology section caters two types of patient care services i.e. (A) Routine investigations & (B), Specialised investigations, mostly are on payment basis.
A. Routine Investigations

**Urine**

<table>
<thead>
<tr>
<th>Test</th>
<th>OPD</th>
<th>Ward</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical board</td>
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</tr>
<tr>
<td>Routine</td>
<td>61192</td>
<td>45966</td>
<td>107158</td>
</tr>
<tr>
<td>Microscopic</td>
<td>92988</td>
<td>68949</td>
<td>161937</td>
</tr>
<tr>
<td>PH</td>
<td>30996</td>
<td>22983</td>
<td>53979</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>30996</td>
<td>22983</td>
<td>53979</td>
</tr>
<tr>
<td>Acetone</td>
<td>30996</td>
<td>22983</td>
<td>53979</td>
</tr>
<tr>
<td>Bile pigment/salt</td>
<td>30996</td>
<td>22983</td>
<td>53979</td>
</tr>
<tr>
<td>Urobilinogen</td>
<td>30996</td>
<td>22983</td>
<td>53979</td>
</tr>
<tr>
<td>Blood</td>
<td>30996</td>
<td>22983</td>
<td>53979</td>
</tr>
<tr>
<td>Bence Jones Protein</td>
<td>202</td>
<td>275</td>
<td>477</td>
</tr>
<tr>
<td>Chyluria</td>
<td>110</td>
<td>190</td>
<td>300</td>
</tr>
<tr>
<td>Porphobilinogen</td>
<td>40</td>
<td>36</td>
<td>76</td>
</tr>
<tr>
<td>Myoglobinuria</td>
<td>4</td>
<td>5</td>
<td>9</td>
</tr>
<tr>
<td>Hemosiderin</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Microalbumin</td>
<td>3</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Urine Cultures</td>
<td>12735</td>
<td>-</td>
<td>12735</td>
</tr>
<tr>
<td>Strain identifications tests</td>
<td>10102</td>
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</tr>
<tr>
<td>Antibiotic Sensitivity</td>
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<tr>
<td>E-test for ESBL Testing</td>
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<td>-</td>
<td>-</td>
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<td><strong>Subtotal</strong></td>
<td>3,65,522</td>
<td>2,53,319</td>
<td>6,30,261</td>
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</table>

**Stool Investigations**

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<th>Ward</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wet mount saline</td>
<td>7091</td>
<td>2373</td>
<td>9464</td>
</tr>
<tr>
<td>Wet Iodine stain</td>
<td>7091</td>
<td>2373</td>
<td>9464</td>
</tr>
<tr>
<td>Occult blood in stool</td>
<td>2177</td>
<td>835</td>
<td>3012</td>
</tr>
<tr>
<td>Fat globules</td>
<td>279</td>
<td>412</td>
<td>691</td>
</tr>
<tr>
<td>Special stains for HIV Positive Patients</td>
<td>1186</td>
<td>1640</td>
<td>2826</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td>17,824</td>
<td>7,633</td>
<td>25,457</td>
</tr>
</tbody>
</table>

**Semen analysis**

<table>
<thead>
<tr>
<th>Test</th>
<th>OPD</th>
<th>Ward</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Routine</td>
<td>11459</td>
<td>-</td>
<td>11459</td>
</tr>
<tr>
<td>Morphology</td>
<td>434</td>
<td>-</td>
<td>434</td>
</tr>
<tr>
<td>Fructose</td>
<td>3418</td>
<td>-</td>
<td>3418</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td>15,311</td>
<td>-</td>
<td>15,311</td>
</tr>
</tbody>
</table>

**Sputum analysis**

<table>
<thead>
<tr>
<th>Test</th>
<th>OPD</th>
<th>Ward</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z-N Staining for AFB</td>
<td>-</td>
<td>-</td>
<td>17989</td>
</tr>
<tr>
<td>Concentration/Decontami-nation</td>
<td>-</td>
<td>-</td>
<td>17441</td>
</tr>
<tr>
<td>AR Staining</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>LJ Culture &amp; subculture</td>
<td>-</td>
<td>-</td>
<td>2323</td>
</tr>
<tr>
<td>BECTEC Culture</td>
<td>-</td>
<td>-</td>
<td>2775</td>
</tr>
<tr>
<td>BECTEC Drug Sensitivity</td>
<td>-</td>
<td>-</td>
<td>112</td>
</tr>
<tr>
<td>Mycobacterial strains maintained</td>
<td>-</td>
<td>-</td>
<td>2012</td>
</tr>
</tbody>
</table>
LJ Proportional method — — 11270
Non tubercular mycobacterium isolate maintained — — 50
Biochemical tests for culture identification — — 281
MB BacT Blood Culture for TB — — 253
MB BacT Culture — — 253
Drug Sensitivity — — 112
Clinical Samples Stored at -70°C/LN — — 2450
Accuprobe — — 110
Gene probe — — 65
Subtotal — — 46,408

Miscellaneous Investigations
Bone Marrow examination
- CSF Latex agglutination for Cryptococciosis,
- CSF Latex agglutination for Pyogenic meningitis,
- Blood for Malaria Parasite
- Blood for Microfilaria,
- Malaria Antigen detection,
- Urine Microalbumin,
- Pus Culture and sensitivity,
- Water sample testing

Laboratory Animals (Mice, Rabbits & Hemsters) used 520
for diagnosis of infectious diseases
Leishmania strains maintained 1440
Bacterial strains maintained 4000
Subtotal 6102
Total of A 7,23,539

B. Specialised Investigations on payment basis. The service is provided to all patients of AIIMS and outside AIIMS. For patients holding BPL (Below Poverty Line) cards, all tests are done free.

Serology and Molecular biology

<table>
<thead>
<tr>
<th>Test</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>TORCH</td>
<td>11422</td>
</tr>
<tr>
<td>Toxoplasma gondii IgG</td>
<td>954</td>
</tr>
<tr>
<td>Toxoplasma gondii IgM</td>
<td>1013</td>
</tr>
<tr>
<td>Rubella IgG</td>
<td>1027</td>
</tr>
<tr>
<td>Rubella IgM</td>
<td>1138</td>
</tr>
<tr>
<td>Cytomegalovirus IgG</td>
<td>1731</td>
</tr>
<tr>
<td>Cytomegalovirus IgM</td>
<td>1895</td>
</tr>
<tr>
<td>Herpes Simplex virus IgG</td>
<td>860</td>
</tr>
<tr>
<td>Herpes Simplex virus 2 IgG</td>
<td>860</td>
</tr>
<tr>
<td>Herpes Simplex virus (1+2) IgM</td>
<td>880</td>
</tr>
<tr>
<td>Toxoplasma gondii IgG avidity</td>
<td>156</td>
</tr>
<tr>
<td>Rubella IgG avidity</td>
<td>444</td>
</tr>
</tbody>
</table>
Cytomegalo virus IgG avidity 148
Parvo virus B19 IgG 158
Parvo virus B19 IgM 158
**Viral Marker & HIV** 40711
Anti HAV IgM 1446
HBsAg 14172
Anti HBcIgM 767
Anti HBc Total 192
HBeAg 1598
Anti HBe 317
Anti HBs 1469
Anti HCV antibody 8790
HEV IgM 1788
HIV (1+2) ELISA 9176
HIV Spot 490
HIV Westernblot 06
HBsAg (spot) 500
**Others Serology** 1468
TB IgG *(R.No.18) 300+147*
TB IgA 300
TB IgM 300
Measles IgG 53
Mumps IgG 53
Varicella IgG 106
Varicella IgM 106
Anti Leishmania antibodies 250
**PCR Tests** 2577
Toxoplasma gondii PCR 40
Cytomegalo virus PCR 110
Leishmania PCR 150
TB PCR 2130
Sub Total of B 56178
Grand Total (A + B) 7,79,717

**AWARDS AND HONOURS**

**Dr A.K. Mukhopadhyay:** Honorary Member of Editorial Board of *International Journal of BioSciences and Technology*. Reviewer of Manuscript of *Current Science*, and *Indian Journal of Clinical Biochemistry*, Reviewer of Manuscripts of Indian Council of Philosophical Research (ICPR) and Center for study of History of Civilization (CHC), New Delhi.

**Dr M. Irshad** was nominated as the reviewer for the articles of Blackwell Publishers & Elsevier Publishers.

**Dr Sarman Singh** was awarded the fellowship of the Royal Society of Tropical Medicine and Hygiene (FRSTMH), London; nominated for the Donald Mackay Medal of the American Society for Tropical Medicine and Hygiene (ASTMH), USA; Awarded by Council of Science and
Technology, Govt. of Uttar Pradesh by their highly prestigious “Vigyan Ratna Samman”; Awarded Professor B.P. Pandey Memorial Oration Award by Indian Society of Parasitology as best teacher in Parasitology; Nominated member of board of faculty of life sciences (RDC) of CSJM University, Kanpur; Member of the task force of SERC division of DST; Member of the abstract review committee for the World AIDS Conference to be held at Mexico City, Mexico in August 2008; Nominated member of the “Scientific Expert Committee on QA/QC implementation” of National Institute of Biologicals, Government of India and also member of the Joint Monitoring Mission of WHO & National Vector Borne Disease Control Programme, Government of India; Editor-in-Chief of Journal of Laboratory Physicians, India; Elected member of the editorial board of “Recent Patent Reviews on Anti-infective Drug Discovery; USA; The Open AIDS Journal, USA; Journal of Infections in Developing Countries, Italy; and the Clinical Medicine: Dermatology, Australia; Nominated as Editorial board member of the Indian Journal of Medical Microbiology, Journal of Parasitic Disease (India), and Journal of Immunology & Immunopathology (India).

SIGNIFICANT EVENTS
1. Inauguration of NASBA Laboratory in the Department on 24 January 2008

VISITING SCIENTIST
1. Representatives from 23 countries visited AIIMS, during the ICOPA.
EDUCATION

Professor Rita Sood the coordinator and faculty for an ‘Orientation Program for Interns’ held on 5–6 January 08, for the new batch of interns.

Short and long term training

13 postgraduate and undergraduate students from Bangladesh, USA, U.A.E., U.K., Singapore and Germany received training in the Department of Medicine during the current year. Dr Kripasindhu Gantait worked as a Short-Term Trainee in Rheumatology from 2 January 2008 till 31 March 2008.

Continuing Medical Education

Professor S. K. Sharma organized the following CME programmes:

- Organizing Chairperson for the Medicine Update 2007 in association with Association of Physicians of India (API) Delhi State Chapter at All India Institute of Medical Sciences on 5 August 2007
- Organizing Chairperson for the CME on Training Programme for Prevention, Control & Management of HIV/AIDS for Nurses with Delhi State AIDS Control Society (DSACS) at All India Institute of Medical Sciences from 29–30 September 2007
- Jointly organized the workshop on Sleep Apnea Syndrome with Association of Physicians of India (Saharanpur branch) at Mussoorie from 29–30 September 2007
- Jointly organized the workshop on Good Clinical Practices (GCP) with Pfizer Education And Research League (PEARL) at All India Institute of Medical Sciences from 29–30 March 2008

Dr Rita Sood was the Organizing Chairperson/ Course Faculty for the following:


3. Was Course faculty for the following:
   • Ist PSG-FAIMER regional institute faculty development program in medical education at Coimbatore, Tamil Nadu from 15–20 April 2007.
   • Third GSMC-FAIMER regional Institute Course in Medical Education from 15–19 June 2007 at KEM hospital and GSMC, Mumbai

Conducted following sessions during above courses:
• Project management
• Student assessment
• Mentoring-learning web and virtual curriculum
• Qualitative research
• Educational scholarship

Dr Biswas organized the National Conference on Best Medical Practices in HIV/AIDS Care. Apollo Hospital, New Delhi, 18 November 2007.

Dr Uma Kumar organized monthly Delhi Rheumatology Association meeting in December 2006.

Dr Rajiva Gupta organized the second workshop on Clinical Methods in Medicine for post graduates in March 2006 at AIIMS.

Lectures at CMEs

Dr Rita Sood
• Approach to arthritis. 6 July 2007 at PMCH, Patna
• Management of Rheumatoid arthritis. 6 July 2007 at PMCH, Patna
• OSCEs: In-house workshop on Assessment Strategies organized by CMET AIIMS, 2 August 2007
• Clinical Puzzle for Physicians, Delhi API–CME organized by Department of Medicine AIIMS, 5 August 2007
• Examination in Rheumatology: Clinical Skill workshop at MAMC CME, 9 December 2007
• CPC coordinator at MAMC CME, 13 December 2007
• Diagnostic Dilemma in inflammatory Polyarthritis, CME 2007 by EDPA at New Delhi, 16 December 2007

Dr Anant Mohan
• Guest speaker at panel discussion on Management of an unconscious patient, IMA East Delhi branch, 26 August 2007.

NATIONAL AND INTERNATIONAL CONFERENCES

Lectures delivered

Professor S. K. Sharma
• Treatment and Management of HIV-TB Co-infections in Indo-US Workshop on the “Clinical
and Translational Research for Prevention, Care and Treatment of HIV-related Co-Morbidities” organized by Indian Council of Medical Research (ICMR) at India Habitat Center, Lodhi Road from 24–25 September 2007
• “Obstructive Sleep Apnea” in North India Clinics organized by Association of Physician of India (Saharanpur branch) at Mussoorie from 29–30 September 2007
• “Sleep Apnea is not an independent risk factor for metabolic syndrome” in Sleepcon 2007 organized by Indian Sleep Disorders Association (ISDA), Department of Pulmonary, Critical Care & Sleep Medicine Vardhaman Mahavir Medical College & Safdarjung Hosiptal, New Delhi at India Habitat Center from 07–09 December 2007

Dr Rita Sood
• Sri Ramachandra University Harvard Medical International Conference on ‘Bridging Healthcare Education Gap’ at Ramachandra University, Chennai on 27–28 July 2007.
• Seminar for Directors and faculty of FAIMER regional institutes at FAIMER, Philadelphia, USA from 18–22 August 2007.
• API Gujarat chapter annual conference from 23–24 December 2007 at Karamsad, Gujarat. Coordinated workshop on “Assessment in Medical Education”.
• College of Nursing workshop on “Teaching & Learning for nurses” at AIIMS on 14 January 2008.
• Regional workshop on “Role - relevance and effective utilization of medical education units for faculty development in medical education” at Nagpur (organized by Datta Meghe University as part of platinum jubilee celebrations of MCI) on 3 February 2008.

Professor Ashok Kumar
• ‘Individualising methotrexate therapy in rheumatoid arthritis: the promise of pharmacogenetics’ during the Annual Conference of Indian Rheumatology Association held at Khajuraho from 26–29 October 2007.
• ‘Role of autoantibodies in the diagnosis of systemic rheumatic disorders’ on 1 April 2007 during the National Laboratory Symposium of Sohar Hospital, Oman
• ‘Haemophagocytic syndrome: an unusual cause of PUO’ during Monday CME on 18 September 2007 at Sohar Regional Hospital, Oman
• Discussed a CPC on ‘LA myxoma with embolism to multiple organs’ 24 September 2007 in Sohar Regional Hospital, Oman
• Panelist for the session on ‘Biological agents for the treatment of rheumatic disorders in India’ during an international conference organized in Mumbai on 16 October 2007
• ‘SLE: Beyond cyclophosphamide’ during the Rheumatology Update organized by the Delhi Rheumatology Association on 17 February 2008 at New Delhi.

Professor Randeep Guleria
• Delivered a talk and chair a session in the Respiratory Update, Goa from 13–14 July 2007.
• Delivered a lecture on Community Acquired Pneumonia in the CME on 4 August 2007 at the API, Dehradun.
• Attended the European Respiratory Society (ERS) Conference at Stockholm, Sweden w.e.f. 15–19 September 2007 and presented two posters.
• Delivered lecture and chaired a session at the Joint National Conference of the Indian Chest

- Attended the Asia Pacific Anti Infectives Summit Forum held at Shanghai, China on 20–21 October 2007.
- Delivered a lecture in the symposium on Community Acquired Pneumonia on 23 December 2007 at PGIMER, Chandigarh.
- Attended and presented a poster at the International Conference on Emerging Infectious Diseases (ICEID) from 16–19 March 2008 at Atlanta, USA.

Professor Rohini Handa

- Sixth Scientific Conference of Bangladesh Rheumatology Society, Dhaka, Bangladesh. 30–31 October 2007 on “Serology in the diagnosis and management of SLE”
- South Delhi Orthopedics, Delhi. 4 April 2007 on “Rational Management of RA”
- Rheumatology Update, SP Medical College, Bikaner. 8 April 2007 on “Approach to Arthritis & Connective Tissue Diseases” and “Approach to Vasculitis”.
- Internal Medicine CME-2007, PGI Chandigarh. 15 April 2007 on “Life threatening lupus”
- Aligarh Orthopedics Club, Aligarh. 22 April 2007 on “How to diagnose and manage Rheumatoid Arthritis?”
- Association of Physicians of India- Delhi State Chapter Mid term CME, Delhi. 22 July 2007 on “Biologies in Early RA”
- Mid Term Rheumatology Meet, IRA West Bengal Chapter, Kolkata. 29 July 2007 on “Osteoporosis in India: Challenges & Opportunities”
- Symposium on Osteoarthritis and Osteoporosis, Academy of Medical Sciences, Nagpur. 12 August 2007 on “Emerging therapies for Osteoarthritis and assessment of treatment efficacy in OA”
- Symposium on Rheumatic Diseases, Jaipur Hospital, Jaipur. 2 September 2007 on “Clinical Case Discussion: Vasculitis & Pregnancy in Rheumatic Diseases”
- Ninth Postgraduate Instructional Course in Orthopedics, Maulana Azad Medical College, New Delhi. 3–6 October 2007 on “Osteoporosis-Investigations & treatment”
- 15th Annual Conference of Indian Association of Clinical Medicine, Amritsar. 12–14 October 2007 on “Rheumatoid Arthritis- Current treatment paradigm”
- Association of Physicians of India, Jalandhar Chapter, Jalandhar. 13 October 2007 on “Challenges in management of pain in rheumatic diseases & Update on treatment of RA”
- 23rd Annual Conference of Indian Rheumatology Association- IRACON 2007, Khajuraho. 26–29 October 2007 on “Should corticosteroids be offered to all patients with RA”
- Annual Conference of Association of Physicians of India-Delhi State Chapter, New Delhi. 3–4 November 2007 on “Choosing a NSAID- Which drug for whom?”
- Indian Medical Association, East Delhi Branch- Pulmonary and Critical Care Update. 29 November 2007 on “Pulmonary Vasculitis”
• 60th Year Celebrations of SMS Medical College, Jaipur. 25 February 2008 on “Vasculitis-The inimitable mimic”
• 13th Annual Conference of Indian Menopause Society, Jammu. 14–16 March 2008 on “Osteoporosis-Dimensions & Diagnosis”

Professor G.C. Khilnani
• Community Acquired pneumonia During RAJCON -2008, organized by MS Medical college Jaipur under aegis of National college of Chest Physicians (Rajasthan Chapter) held at Jaipur on 24–25 February 2008
• Noninvasive ventilation: During National Level workshop on mechanical ventilation organized by Dept of Pulmonary and Critical care Medicine at PGIMS Rohtak on 6 May 2007
• NIPPV: When and when not: during Annual conference on Critical Care Medicine organized by Indian Society of Critical Care Medicine held at Jaipur from 5–8 April 2007
• Debate: Who should call the shots in ICU-The intensivist or the primary physician during Annual conference on Critical Care Medicine organized by Indian Society of Critical Care Medicine held at Jaipur from 5–8 April 2007
• Antibiotic Choice for Community Acquired Pneumonia During the conference held on 25–26 August 2007 at Delhi
• VAP: Use of ATS guidelines in Indian setting: During Asia Pacific Conference on Critical care held at Delhi
• Health Effects of Outdoor Air pollution: Indian Scenario during the conference IASTA 2007 held at National Physical Laboratory (NPL), Pusa Road New Delhi on 14 January 2007
• Served as Course coordinator on Work shop on Non-invasive ventilation during the National Conference on Pulmonary Medicine (NAPCON 2007) held at PGIMER Chandigarh from 22–25 November 2007
• What is NIV: During work shop on Non-invasive ventilation during the National Conference on Pulmonary Medicine (NAPCON 2007) held at PGIMER Chandigarh from 22–25 November 2007
• Chairperson for a panel discussion on Management of asthma in ICU during Annual conference of Indian College of Allergy and Applied Immunology held at VP Chest Institute from 9–12 December 2007
• Course Director for workshop on mechanical ventilation during Joint conference of Association of Physicians of India (APICON 2008) held at Cochin 10–13 January 2008
• Modes of Mechanical ventilation in workshop on mechanical ventilation during Joint conference of Association of Physicians of India (APICON 2008) held at Cochin 10–13 January 2008
• Guest lecture: Noninvasive mechanical ventilation in chronic obstructive pulmonary disease during Joint conference of Association of Physicians of India (APICON 2008) held at Cochin 10–13 January 2008
• Pneumonia in organ transplant patients: During NAMS symposium on Advances in Community Acquired Pneumonia held at PGIMER at Chandigarh on 23 December 2007
• ‘VAP on CAP: Pathogenic changes, Early diagnosis and modification in antimicrobial therapy’: Thematic Lecture during 14th annual National conference of Indian Society of Critical Care Medicine (Criticare 2008) held at Bhopal from 13–17 February 2008
• My strategy for selecting empiric antibiotics in ICU during 14th annual National conference of Indian Society of Critical Care Medicine (Criticare 2008) held at Bhopal from 13–17 February 2008
• Nosocomial Infections: from dynamics to surveillance and control: During CME on Antibiotic resistant microorganisms: A threat and challenge’ Organized by Indian Society of Critical Care Medicine at Mumbai on 2.9.074.

Dr Ashutosh Biswas
• Medinfo 2007, 12th World Congress on Health (Medical) Informatics, Brisbane, Australia, 20–24 August 2007.
• Clinical features of DF/DHF/DSS, Department of microbiology, AIIMS, 29 05 07.
• Antiretroviral Therapy for HIV infection. MEDCON-2008, Maharaga Agrasen Hospital, Panjabi Bagh, New Delhi, 30 March 2008.

Dr Uma Kumar
• “Neuropsychiatric lupus-Indian Scenario in IRACON 2007, at Khajuraho, India
• “Scleroderma- Present and future” in annual meeting of IACM 2007 at Amritsar, India.
• Prevalence of pulmonary artery hypertension and its predictors in systemic sclerosis in APICON 2008 at Kochi, India.

Dr Rajiva Gupta
• PET CT in Aortoarteritis, Indian Rheumatology Association Conference 2007, Khajuraho.
• “Pregnancy Outcomes in SLE in Indian Patients” – Annual Meeting of British Society of Rheumatology 2007 at Birmingham.
“Role of F18-FDG PET-CT scan in diagnosis and assessment of disease activity of Takayasu’s arteritis–Preliminary results” – Annual Meeting of British Society of Rheumatology 2007 at Birmingham.

“Prevalence and clinical significance of anti-cyclic citrullinated peptide antibodies in juvenile idiopathic arthritis” – Annual Meeting of British Society of Rheumatology 2007 at Birmingham.


**Dr Anant Mohan**


“Role of Inflammatory Mediators as Markers of Severity and Outcome in Acute Exacerbation of COPD” and “Impact of symptoms, respiratory status, nutritional profile and quality of life in patients with advanced non small cell lung cancer” at CHEST conference in Chicago, 20–25 October 2007.

Delivered guest lecture “Influenza Virus in Respiratory Diseases in India” at International Conference on Emerging Viral Infections in the Tropics and Sub-Tropics”, 14 December 2007, New Delhi.

**RESEARCH**

**Funded Projects**

**Completed**

1. Genomic and Molecular studies in patients bronchial asthma: Collaborative project; Department of Medicine, AIIMS New Delhi and Institute of Genomics and Integrated Biology, New Delhi, Dr S.K. Sharma, Department of Biotechnology, Ministry of Science and Technology, Govt. of India, 4,17,40,000, 3 years, 2004–2007

2. A double-blind, placebo-controlled, parallel, multicenter study on extended VTE prophylaxis in acutely ill medical patients with prolonged immobilization, Dr S.K. Sharma, Aventis Pharmaceuticals Inc., USA, 4,00,000, 1 year, 2006–2007


**Ongoing**

1. Comparison of tuberculin skin test (TST) and interferon-release assay in latent TB infection and tuberculosis disease, Dr S.K. Sharma, Revised National TB Control Programme NCT of Delhi, 4,99,937, 3 years, 2008–2011

2. Sustaining research momentum over the coming decades: mentoring the next generation of researchers for tuberculosis, Dr S.K. Sharma, European Union Frame Programme 7 Work, 67,84,000, 3years, 2008–2011

AIIMS 2007-2008 / 230
3. Efficacy and safety of immunomodulator (Mycobacterium w) as an adjunct therapy in Category II pulmonary tuberculosis long with assessment of Immunological parameters (Double blind, randomized, Placebo controlled, Multicentre Clinical Trial), Dr. S.K. Sharma, Department of Biotechnology, Ministry of Science & Technology, Government of India and Cadila Pharmaceuticals Ltd.: Principal Investigator & National Coordinator, 1,31,32,000, 6 years, 2004–2010

4. Evaluation of management strategy for pulmonary embolism (Multicountry international project), Dr. S.K. Sharma, International Atomic Energy Agency (IAEA), Vienna Austria, 1,80,268, 4 years, 2004–2008

5. Antiretroviral Treatment (ART) Center for free treatment of HIV/AIDS patients (National AIDS Control Organization (NACO); Ministry of Health and Family Welfare; Govt. of India), Dr. S.K. Sharma, Delhi State AIDS Control Society, 4,50,000, Initially one year likely to get extended indefinitely, 2005-ongoing till date

6. Nodal Center for free treatment of TB, Dr. S.K. Sharma, Revised National TB Control Programme NCT of Delhi through the area District TB Centre; Ministry of Health & Family Welfare, Govt. of India, 4,32,000, Initially one year likely to get extended indefinitely, 2005-ongoing till date

7. Treatment outcome and drug resistance among Category II pulmonary tuberculosis under Revised National TB Control Programme (RNTCP), Dr. S.K. Sharma, RNTCP NCT of Delhi, 8,01,731, 3 years, 2005–2008

8. Efficacy of thrice weekly intermittent short course anti-tuberculosis chemotherapy in tuberculosis patients with and without HIV infection, Dr. S.K. Sharma, National AIDS Control Organization (NACO); Ministry of Health and Family Welfare; Govt. of India, 45,42,000, 3 years, 2006–2009

9. Incidence of deep venous thrombosis (DVT) among patients admitted in medical wards and intensive care unit (ICU) of a tertiary care hospital (A study protocol), Dr. S.K. Sharma, Pfizer India Ltd., 5,70,000, 3 years, 2006–2008

10. 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), Dr. S.K. Sharma, Department of Biotechnology, Ministry of Science and Technology, Govt. of India, 90,90,000, 3 years, 2006–2009

11. 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), Dr. S.K. Sharma, Department of Biotechnology, Ministry of Science and Technology, Govt. of India, 63,38,000, 3 years, 2006–2009

12. Evaluation of the efficacy of thrice weekly DOTS regimen in TB pleural effusion at six months (multicenter project), Dr. S.K. Sharma, Revised National TB Control Programme NCT of Delhi, 14,36,615, 3 years, 2006–2009

13. Efficacy and safety of immunomodulator Mw as an adjunct therapy in category I (new sputum smear positive) pulmonary tuberculosis, along with assessment of immunological parameters (Double-blind, Randomized, Placebo-Controlled, Multicentre Clinical Trial), Dr. S.K. Sharma, Department of Biotechnology, Ministry of Science and Technology, Govt. of India, 76,81,000, 3 years, 2006–2009
14. Programme support for immuno-proteomics based diagnosis of infectious diseases, Dr S.K Sharma, Department of Biotechnology, Ministry of Science and Technology, Govt. of India, 1,73,488, 3 years, 2006–2009

15. A population based study of prevalence and risk factors in sleep disordered breathing in south Delhi [Designated as South Delhi Sleep Study Cohort (SDSSC)], Dr S.K. Sharma, Pfizer India Ltd., 5,00,002, 2 years, 2006–2008

16. Impact of HIV infection on latent TB among patients with HIV-TB co-infection (Facility has been designated as National Facility), Dr S.K. Sharma, Department of Biotechnology, Ministry of Science and Technology, Govt. of India, 219,96,000, 3 Years, 2007–2010

17. Methotrexate in rheumatoid arthritis: Pharmacogenetics and clinico-immunological correlates. Prof Ashok Kumar. Funding agency: DBT. Duration: 3 years, extended to 4 years presently. Total amount: Rs 91.72 lakhs (multicentric project)


22. Influenza awareness preparedness and response (IAPR an Inclen AIIMS NIHFW) Principle Investigator: Dr Randeep Guleria. Total Grant of Rs. 10 Lakh. Funding Agency Inclen India and CDC Atlanta. Duration of project December 2008.

23. Clinical implications of circulating DNA and protein markers in lung cancer” Principle Investigator: Dr Randeep Guleria. Total Grant of Rs.19,93,214/- lakh Funding Agency: ICMR. Duration of project Till December 2010.

24. An Interventional Nutritional study in subject with newly Diagnosed active Tuberculosis (TB). Funding agency: GSK. Duration of project July 2009, Total Grant Rs.12.8 lakh. Principle Investigator: Dr Randeep Guleria.

25. Genetic Metabolic and Hormonal Profile in Obstructive Sleep Apnea Syndrome” Dr Randeep Guleria. Funding agency Department of Science and Technology, Total Grant of Rs.24 lakh. Duration of project- Till April 2011.


28. Pharmaco-genetics of Methotrexate in Rheumatoid arthritis. Dr R. Gupta. Funding agency-DST.

29. Study the effect of statin on lipid profile and disease activity in rheumatoid arthritis. Dr R. Gupta. Funding agency-AIIMS. 2.0 lacs

30. Cutaneous vasculitis – etiological & pathological pathological study (co investigator). Dr R. Gupta. – 2 lacs.


**Departmental Projects**

**Completed**

1. To study the therapeutic window in rheumatoid arthritis
2. Screening for catastrophic antiphospholipid syndrome
3. Study of neuropathy associated with rheumatoid arthritis
4. Serum nitrite as a discriminatory marker for inflammatory back pain
5. Endothelial Dysfunction in Rheumatoid Arthritis (Depts. of Medicine & Radiology)
6. Hospitalization for Systemic Rheumatic Diseases (Depts. of Medicine, Dermatology, Gastro-enterology and Hospital Administration)
7. Treatment outcome and drug resistance among category II pulmonary tuberculosis patients under RNTCP.
8. Diagnosis of visceral Leishmaniasis by use of PCR on patient blood (Microbiology).
9. Critical Appraisal of Assessment in Key Clinical Disciplines in Undergraduate Course at AIIMS (CMET).
14. Screening for catastrophic antiphospholipid antibody syndrome.
15. Effect of IFN-ô and immune complex on neutrophil-CR1 transcript and its relationship with CR1 density polymorphism. (collaboration with Biochemistry)
16. Assessment of nutritional profile and CRP levels in patients with respiratory failure who are on mechanical ventilation.
17. Evaluation of 18- FDG PET-CT and comparison with CT findings in patients with mediastinal lymphadenopathy due to tuberculosis and sarcoidosis
18. Dynamics of commensal flora & development of nosocomial infections in the critically ill
19. Microbial patterns in severe exacerbations of COPD requiring mechanical ventilation
20. Study of Clinical and microbiological profile of community acquired pneumonia (CAP)
21. A case control study of ventilator associated pneumonia and comparative analysis of early and late onset disease

**Ongoing**
1. To study the clinical and laboratory correlations of hand abnormalities in scleroderma
2. To study the etiology of reactive arthritis in Indian patients
3. Atherosclerosis in Ankylosing Spondylitis
4. Dyslipidemia among HIV infected patients with Antiretroviral Therapy.
5. Evaluation of side effects of Anti retroviral therapy in patients with HIV/AIDS.
6. Evaluation of 18-FDG PET-CT and comparison with CT findings in patients with mediastinal lymphadenopathy due to tuberculosis and Sarcoidosis.
7. Dynamics of commensal flora & development of nosocomial infections in the critically ill.
8. To study the prevalence of *Clostridium difficile* in nosocomial diarrhea in patients admitted in Medicine ICU.
9. Prognostic utility of various acute phase reactants in acute exacerbation of COPD.
10. Existing status of Faculty Development in Medical Education in India (CMET).
11. Study of Mycobacteremia in Disseminated Tuberculosis (Laboratory Medicine)
12. Clinical profile of frail elderly patients in hospital setting.
13. Reference diagnostic range for serum free light chains in Indian Subjects. Comparison with multiple myeloma (Collaboration with Hematology)
15. Modulation of neutrophil CR1 expression by IFN-¥ and immune complexes, its relationship with CR1 density polymorphism and significance in SLE. (Collaboration with Biochemistry)
16. Role of complement regulatory protein DAF, MCP and CD59 in pathophysiology of SLE (Collaboration with Biochemistry)

**Collaborative Projects**

**Completed**
1. Study of etiological risk factor profile in pediatric strokes (Pediatrics)
2. Role of 18-FDG PET-CT scan in diagnosis and assessment of disease activity in primary systemic necrotizing vasculitis (Nuclear Medicine and Cardiac Radiology)
3. To study the pregnancy outcomes in patients with SLE with special reference to cyclophosphamide therapy (Obs & Gynae)
4. Holmium radiosynovectomy in refractory arthritis (Nuclear Medicine)
5. Role of 18 FDG PET Scan in the diagnosis and evaluation of pulmonary nodules (Dept of Surgery)
6. Evaluation of the role of MDCT, CT angiography and bronchial artery embolization in the management of hemothoptysis (with Dept. of Radiodiagnosis)

**Ongoing**
Complement regulatory proteins and their significance in the pathophysiology of systemic lupus erythematosus (Dept of Biochemistry)
PUBLICATIONS

Journals


28. Mohan A, Bhatt SP, Guleria R: Risk indexes for exacerbations due to COPD: need to validate using broader criteria; Chest August 2007; 132 (2)735.


**Books**

**Chapters in Books**


PATIENT CARE

**Chest Clinic (Friday 2:00 pm)**
- New Cases: 1885
- Old Cases: 4101
- Total: 5986

**Rheumatology Clinic (Wednesday 2:00 pm)**
- New cases registered: 442
- Number of follow up visits: 7730
- Total: 8172

**Rheumatology Procedures**
- Intravenous pulses of steroids and cyclophosphamide: 492
- Joint and soft tissue injections: 1905
- Synovial fluid aspirations: 80

**Adult Hematology Clinic (Thursday 2:00 pm)**
- New patients — 86
- Old patients — 423

**Infectious Diseases Clinic (Monday 2:00 pm)**
The Infectious disease clinic operates on Monday afternoon and is run by the consultants of Medicine. In 2007–2008, 556 new and 347 old patients attended this clinic. An antiretroviral center was started in this clinic on 9 July 2005 with the purpose of free antiretroviral drug distribution to registered patients. 918 patients have been registered at this center, out of which 530 are on regular
treatment. A Voluntary Counseling and testing center (VCTC) has been established that provides free HIV counseling daily. 1632 persons have utilized this facility since it’s inception.

**Laboratories**

(A) **Respiratory laboratory:**

- Spirometry procedures: 3195
- Diffusion capacity estimation: 281

(B) **Bronchoscopy Laboratory:**

- Total Fiberoptic bronchoscopy procedures: 564

(C) **Sleep laboratory:**

- Sleep studies: 254

(D) **ADA/ACE laboratory:**

- Adenosine deaminase tests: 940
- ACE tests: 101

(E) **Clinical Immunology Laboratory**

- Number of blood samples received: 9484
- Number of tests done: 22415

<table>
<thead>
<tr>
<th>Test</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF</td>
<td>4885</td>
</tr>
<tr>
<td>ANA</td>
<td>6207</td>
</tr>
<tr>
<td>Anti-dsDNA</td>
<td>1487</td>
</tr>
<tr>
<td>C3</td>
<td>1467</td>
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<tr>
<td>Serum IgG, IgA and IgM</td>
<td>1697</td>
</tr>
<tr>
<td>Cryoglobulins</td>
<td>107</td>
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<tr>
<td>ANCA</td>
<td>1803</td>
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<tr>
<td>aCL</td>
<td>3114</td>
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<tr>
<td>Anti-LKM-1</td>
<td>852</td>
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<tr>
<td>ASMA</td>
<td>796</td>
</tr>
<tr>
<td>Synovial fluid examination</td>
<td>80</td>
</tr>
</tbody>
</table>
- (Including polarizing light microscopy)

**AWARDS AND HONOURS**

Professor SK Sharma has edited first edition of Davidson’s Clinical Cases published in 2008. He continues to be the editor of Indian Journal of Chest Diseases & Allied Sciences. He is the Section Editor of Pulmonology Section of the API Textbook of Medicine 8th edition published in 2008. He continues to be the Associate Editor of Indian Journal of Tuberculosis. He is a member of the International Advisory Board of “Davidson’s of Principles and Practice of Medicine” (20th and 21st editions) and “Textbook and Clinical Medicine: by Kumar and Clark (6th edition). He has been nominated as the member of the Advisory Board of Davidson’s for the 21st edition. He is a Fellow of American College of Chest Physicians, National College of Chest Physicians (India), Indian College of Physicians, and the American College of Physicians. He is a member of World Association of Sarcoidosis and other Granulomatous Diseases (WASOG), 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, and the Indian
Society of Critical Care Medicine. He is one of the Editors of “The Indian Journal of Chest Diseases and Allied Sciences. He continues to be an Editorial Board Member of the Chest (American College of Chest Physicians), Chest (India edition), Journal of the Association of Physicians of India (JAPI), Journal of Indian Academy of Clinical Medicine & Indian Journal of Sleep Medicine. He continues to a reviewer for the following reputed International and National journals: The Lancet, American Journal of Respiratory and Critical Care Medicine (Blue Journal), Journal of Applied Physiology, Chest, The Lancet Infectious Diseases, Respiratory Medicine, Respirology, Journal of Molecular and Cellular Proteomics, Clinical Chimica Acta; Infection, Genetics and Evolution, Pharmacological Research, Journal of Laboratory and Clinical Medicine, Cytokine and Journal of Pharmacy Practice and Research. He was Editor of the Pulmonology section in the “API Textbook of Medicine” (8th Edition) and Associate Editor of the “Indian Journal of Tuberculosis” since 2006.

**Dr Rita Sood**
- Executive Committee member of South East Asian Regional Association of Medical Education (SEARAME).
- Member of Association for the Study of Medical Education in Europe (ASME).
- Editorial Board of ‘South East Asian Journal of Medical Education’ (SEAJME), published from Chulalongkorn University, Bangkok, Thailand.
- On the editorial board of “Journal of Indian Academy of Clinical Medicine”.

**Dr Ashok Kumar** took over as President of the Indian Rheumatology Association on 29 October 2007. He was elected President-Elect of the Delhi Rheumatology Association on 17 February 2008, and continues to serve as the Editor-in-Chief of Indian Journal of Rheumatology.

**Dr G. C. Khilani** was nominated Course Director for workshop on Mechanical ventilation at the Joint National Conference of Association of Physicians of India (APICON 2008) held at Cochin from 10–13 January 2008.

**Dr Rajiva Gupta** is member of International Advisory Board of Davidson’s - Principles and Practice of Medicine – 20th Edition, Member of International Advisory Board of Kumar & Clark – Clinical Medicine – 6th Edition, and Adjunct member – CMET, from department of Medicine.

**SIGNIFICANT EVENTS**

**Professor S. K. Sharma** continues to be the Chief Scientific Advisor of the International Multi-country project sponsored by International Atomic Energy Agency (IAEA), Vienna, Austria on “Evaluation of Management Strategy for Acute Pulmonary Embolism”; Chairperson of the National Task Force on Involvement of Medical Colleges in TB Control Programme of India, Ministry of Health and Family Welfare, Govt. of India; Chairperson of the Central Standing Committee for Operational Research on RNTCP related project, Ministry of Health & Family Welfare, Govt. of India. He continues to be a member of Scientific Advisory Committee (SAC), Infectious Diseases, Indian Council of Medical Research; World Lung Health [initiative of International Union Against Tuberculosis and Lung Diseases (IUATLD)]; Joint Steering Committee for collaboration between the two institutions: All India Institute of Medical Sciences, and University of Minnesota. He was a member of “Brain Storming meeting to discuss important project entitled “Bioinformatics in TB”
for involving strategies for considering their implementation at the Department of Biotechnology, Ministry of Science & Technology, Govt. of India. He has been appointed as a coordinator 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. He continues to be the expert member for reviewing research proposals from the Indian Council of Medical Research, New Delhi; Expert member for reviewing research proposals from the Department of Science and Technology, Expert and Task Force member of the Department of Biotechnology; Ministry of Science & Technology, Govt. of India; Expert member of the Third Task Force meeting of the Expert Group on Tuberculosis, Department of Biotechnology; Ministry of Science & Technology, Govt. of India. He participated in American Thoracic Society International conference, San Francisco, California 2007, The Cochrane Protocol Development workshop at Christian Medical College, Vellore, and in the “Consultative Meeting – India Response Plan for the Diagnosis and Management of MDR/XDR TB” organized by Central TB Division, Ministry of Health & Family Welfare, Govt. of India at Chennai in September 2007. He has been a member of the Selection Committee for the posts of Professor s, Associate Professor s and Assistant Professor s in Medicine at Postgraduate Institute of Medical Education & Research (PGIMER), Chandigarh. He has been appointed as a member of the Scientific Committee for the APICON-2009 to be held at NOIDA in 2009. He continues to be the Chairperson of Medical Board and Drugs Purchase Selection Committee at the All India Institute of Medical Sciences.

Professor Rita Sood
• Nominated by Ministry of Health to be on the Curriculum Committee for Revision of undergraduate National curriculum.
• Invited as expert by Medical Council of India for undergraduate and postgraduate curriculum revision in Medicine.
• Commissioned to write a paper on “Medical Education in India’ for the journal “Medical Teacher” series “Medical Education around the world”.
• Reviewer for the journals – International journal of Medical Education, National Medical Journal of India, JIACM

Professor Randeep Guleria
• External Examiner for DM (Pulmonary Medicine) PGIMER, Chandigarh
• External Examiner for M.D. (Medicine) University of Kashmir.
• Member of the expert Committee/ Interview Board to select the Associate Professor (Chest & TB) in the department of Medical Education, H.P.
• Member of the Advisory Committee for the Central Workshop, AIIMS
• Adviser in the Board for the interview of candidates who have qualified in the Combined Medical Services, Examination 2007 by the UPSC.
• Member of the interview board to interview the candidates for the post of Civilian Medical Officer by the UPSC on 22 August 2007.
• Adviser in the Board for the interview candidates for Assistant Professor (TB & Chest Disease), UPSC
• Member of the Project Review Committee on “Leprosy, Tuberculosis and Other Chest Diseases” of the ICMR.
• Member of the Project advisory Committee on Nutritional profile of Assam, Manipur and Meghalaya of the ICMR
• Member of the Expert Committee constituted by the Ministry of Health & Family Welfare to visit Leptospirosis affected areas in Surat, Gujrat visited on 21–24 September 2007.
• Nominated Member of the Stores Purchase Committee, AIIMS
• Nominated Member of the Scientific Advisory Committee of National Institute of Virology, Pune.
• Member of the Joint Monitoring Committee on Avian Influenza Constituted by the Govt. of India, Ministry of Health & Family Welfare.
• Invited by the International Atomic Energy (IAEA) as consultant at a meeting on Justification of patient exposure in medical imaging at the IAEA’s Headquarters in Vienna from 10–14 December 2007.
• Invited by the Ministry of Health & Family Welfare, Govt. India to act as the training programmes on Avian Influenza on 4–6 December 2007.
• Certificate of Appreciation as Guest Faculty in the eight (8) hour workshop on Basic Flexible Bronchoscopy, organized by Bronchoscopy International on 27 November 2007.
• First Prize Award in Dr M. Vishwanathan Poster Session (II–E ) on “Awareness and Attitude Towards Tuberculosis of Health Providers Outside the Ambit of DOTS Centres in the 62nd Annual Conference of Association of Physicians of India (APICON 2007)

Dr Rohini Handa was elected to the post of President Elect, India Rheumatology Association. He has been invited to Guest Edit an issue on “Musculoskeletal Conditions in the Developing World” by the journal Best Practice & Research Clinical Rheumatology. He continues to serve as Secretary General Asia Pacific League of Associations for Rheumatology, Member Governing Body of Association of Physicians of India & Secretary, and Delhi Rheumatology Association.

Dr G. C. Khilani was Chairman of Expert group of Task force for Multicentric project on ‘Epidemiology of asthma and atopy in adults’ funded by ICMR, New Delhi; Member of Respiratory disease task force of Global Environment change and health (By ICMR); Member of Project Review Committee (PRC) for ICMR for reviewing the projects for funding by ICMR; Member of expert committee for phase III clinical trial with RISUG by ICMR, New Delhi; Member of Data safety and Monitoring Board for the project ‘Zinc as an immunomodulator for the treatment of possible serious bacterial infection in infants more than 7 days and up to 4 months of age’ funded by Department of Biotechnology, Government of India; Expert for selection of Assistant Professor of Medicine at Autonomous Medical Colleges at Bhopal on 7 September 2007; Member Expert for (Pulmonary Medicine) for Rajiv Gandhi Superspeciality Hospital under GNCTC of Delhi

Dr Ashutosh Biswas was external examiner in General Medicine for B.D.S at I.T.S Centre for Dental studies and research, Delhi-Meerut Road, Murad Nagar, Ghaziabad November 2007. He was invited as external examiner in general medicine for MBBS examination, December, 2007, MAMC, Delhi University. Member of New York Academy of Sciences, (NYAS). Member of International AIDS Society (IAS). Member of the National Committee for Quality Assurance of anti TB drugs. Reviewer of International Journal “CHEST”. He is a member of National leprosy
eradication programme for workshop on facilitation skills for strategies planning through logical framework approach, Central leprosy division, Ministry of Health & Family Welfare, Govt. of India. He is a member of Technical Advisory committee in planning the strategies of clinical management of Dengue Fever, National Vector Borne Diseases Control Programme. Ministry of Health & Family Welfare.

**Dr Uma Kumar** was invited to deliver the Dr Sukumar Mukherjee Honor Lecture 2007 by Indian Association of Clinical Medicine at Amritsar, India. Zshe was appointed as Associate Editor of Indian Journal of Rheumatology for year 2007–2009. She was awarded complete Travel Bursary to attend Annual Congress of European League against Rheumatism (EULAR) held at Barcelona in June 2007. And Japanese college of Rheumatology 2008 International scholarship by Japan college of Rheumatology in Sapporo, Japan.

**Dr Naval K Vikram** was awarded third prize for the abstract entitled “Investigation of Hepatic Gluconeogenesis Pathway in Asian Indians with Non-Alcoholic Fatty Liver Disease Using In Vivo31 Phosphorus Magnetic Resonance Spectroscopy” in the 5th World Congress on Insulin Resistance Syndrome, held in Boston, USA from 10–13 October 2007.

**Dr Anant Mohan** was a co-author of an abstract awarded Vishwanathan best poster award in APICON 2007. He continues to be a member of the American College of Chest Physicians and the European Respiratory Society. He was an expert member on the Selection Committee of Medical Officers for Antartica Expedition and member of project review committee of ICMR.

**Visiting Scientists:** Dr Pratap Saraf, Professor of Medicine, University of Southern California Los Angeles, CA, USA delivered a lecture on “Sleep Apneas and its relation to heart failure” and participated in clinical discussion in the general wards and intensive care unit of the department. Dr SN Pipavath, Assistant Professor, Department of Radiology University of Washington, Medical Center, and Seattle, WA delivered lectures on “Imaging in idiopathic interstitial pneumonias & pulmonary artery hypertension”. Dr Dinesh Khanna, Asstt Professor, Rheumatology Division, UCLA, California visited the department and delivered a lecture on ‘Safety of biological agents for the treatment of rheumatic disorders’ on 29 November 2007 at AIIMS.

**Academic, Administration, Finance, Engineering, Library, Central Facilities etc**

**Professor S. K. Sharma** is the Chairperson of the AIIMS Drug Purchase Selection Committee, The Institute Medical Board, Operational Research in TB (Ministry of Health and Family Welfare, Government of India), and the National Task Force on Involving Medical Schools in DOTS programme. He is also Member of the Drug Selection Committee of National AIDS Control Organization, and of the Governing Body, L.R.S. Hospital, and New Delhi.

**Dr Rajiva Gupta** is member of Horticulture & Sanitation Advisory Committee of AIIMS.

**Dr Anant Mohan** is a member of the Institute Medical Board.
9.18 Microbiology

<table>
<thead>
<tr>
<th>Professor and Head</th>
<th>J.C. Samantaray</th>
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<tbody>
<tr>
<td>Professor</td>
<td>R. Chaudhry</td>
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<tr>
<td>S. Broor</td>
<td>R. Chaudhry</td>
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<tr>
<td>A. Kapil</td>
<td>B.R. Mirdha</td>
</tr>
<tr>
<td>B.K. Das (on leave)</td>
<td>B.K. Das (on leave)</td>
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<tr>
<td>L. Dar</td>
<td>B.K. Das (on leave)</td>
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<tr>
<td>Additional Professors</td>
<td>M. Vajpayee (on long leave)</td>
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<tr>
<td>B. Dhawan</td>
<td>I. Xess</td>
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<tr>
<td>Associate Professors</td>
<td>I. Xess</td>
</tr>
<tr>
<td>S. Sood</td>
<td>U.B. Singh</td>
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</tbody>
</table>

EDUCATION
Short-term summer training was provided to 7 and long-term training was provided to 1 student/s (M Sc) from various institutes/ universities.

Short-term summer training was provided to 1 MD student.

Continuing Medical Education (CME)
Organized a CME cum workshop sponsored by National Academy of Medical Sciences at S.N. Medical College, Agra on Mycoplasma Infections Economic Impacts & New Challenges on 5–6 October 2007 as president of Indian Association of Mycoplasma

National and International Conferences
Organized in collaboration with Department of Medicine, AIIMS & CTD “National Task Force for the Involvement of Medical Colleges in RNTCP” 29–31 October 2007.

21 papers were presented in various national and international conferences.

Lectures Delivered

Dr Shobha Broor

Dr Rama Chaudhry
2. Guest Lecture at School of Life Sciences, University of Tokyo on Probiotics on 2 December 2007.

Dr Arti Kapil
1. Indian Association of Medical Microbiologists-Delhi Chapter meeting “Judicious use of antibiotics and moving towards formulation of antibiotic policy” Vallabhbhai Patel Chest Institute, Delhi 21 April 2007
2. Hospital Infection Society-India-Delhi Chapter meeting, “Practices on Steam Sterilization” Indraprastha Apollo Hospital, New Delhi, 12 April 2007.
5. KL Wig CMET Workshop “Assessment Strategies in Medical Education” AIIMS New Delhi 21–23 February 2008

Dr Lalit Dar
1. Organised an interactive workshop session on “Multiple Choice Questions in Assessment” during the National Workshop on Advances in Medical Education at the All India Institute of Medical Sciences, New Delhi in 2008.
2. Public lecture on “Laboratory Diagnosis of Dengue” during the Golden Jubilee Year celebrations of the All India Institute of Medical Sciences, New Delhi in 2007.
3. Delivered a talk on “Influenza” during the physicians’ orientation and awareness activities of the Influenza Foundation of India at Delhi and Kolkata in 2007.

Dr Seema Sood

Dr Urvashi B Singh
2. TB Workshop on Mycobacteriology Procedures; How to do things right “TB in India, an overview” organized by Becton and Dickinson, USA at IHC New Delhi 24–25 April 2007.
5. Research Presentation Faculty meeting “Rapid Rifampicin Resistance Detection and Molecular Typing of Mycobacterium tuberculosi Isolates from Different Geographical Regions of India” AIIMS, 20 November 2007.

RESEARCH

Funded Projects

Completed

2. Diagnostic and prognostic evaluation of leishmaniasis by PCR and a newly developed Buffy Coat Assay using patient’s blood. Dr J.C. Samantaray. Funded by CSIR. Funds: Rs.7,50,000 lacs.
4. DNA amplification study by Polymerase Chain Reaction (PCR) to detect sub-clinical Pneumocystis carinii infections and colonisation in “at risk” patients with or without respiratory symptom. Dr B.R. Mirdha. 2004–2007. Funded by–DST. Fund: Rs 18 lakhs.
6. Congenital CMV infection in offspring of immune mothers; Dr Lalit Dar; funded by ICMR-NIH, 2004–2007, Rs. 35 lakhs
7. Optimisation and standardization of protocols to isolate Bordetella pertussis is from patients presenting with whooping cough. Dr. A Kapil; Funded by Department of Biotechnology, New Delhi.
8. Study of Haemophilus influenzae from invasive and non-invasive diseases Funded by Department of Science and Technology, New Delhi.

Ongoing

2. An RNA interference based approach to study the simultaneous inhibition of RSV and hMPV. Broor S, Dar L. 2007–2009. Funded by Department of Biotechnology (DBT). Funds: Rs. 35.26 lacs
3. Multisite monitoring of human influenza in India –phase I. Broor S, Dar L, Kabra SK. 2004–2009. Funded by Department of Health human Services USA (DHHS) and Indian Council of Medical Research. Funds:


10. Pneumolysin DNA construct as a Vaccine candidate against streptococcus pneumoniae (2007–2010). Dr. B. Das; Funded by Department of Science and Technology, New Delhi. Funds: Rs 22 lacs

11. PsaP DNA construct as a vaccine candidate against streptococcus pneumoniae (2005–2008). Dr. B. Das; Funded by Department of Biotechnology, New Delhi. Funds: Rs 22 lacs

12. Study of Carbapenemase production amongst nosocomial isolates of gram negative bacteria in a tertiary care hospital (2005–2007). Dr. A Kapil; Funded by Indian Council of Medical Research, New Delhi. Funds: Rs. 11 lacs

13. Detection, Identification and Molecular Characterization of Intestinal Coccidia and Microsporidia in patients with Chronic diarrhea and Malabsorption Syndrome Dr B.R. Mirdha Funded by ICMR. Fund: 8 lakhs


15. HIV National Reference Laboratory and EQAS programme; Dr Lalit Dar; funded by NACO; 2006-ongoing; Rs. 600,000 per year

16. HIV VCCTC Program; Dr Lalit Dar; funded by NACO/ DSACS; 2006-ongoing; Rs. 250,000 per year

17. HIV CD4 by flow cytometry for the ART programme; Dr Lalit Dar; funded by NACO; Reagent support


**Departmental Projects**

**Completed**

1. Study of emerging parasitic agents (Intestinal Coccidia and Microsporidia) in aetiology of Malabsorption Syndrome. (Microbiology, Gastroenerology & HNU and Paediatrics).

2. Diagnosis of visceral leishmaniasis by use of the polymerase chain reaction (PCR) on patient blood (Medicine & Institute of Pathology).
3. Tuberculosis as an aetiological factor in Liver Abscess in adults (Microbiology and Medicine, Dr RML Hospital).
4. To study epidemiology of tuberculosis in India using molecular methods

**Ongoing**
1. Study of emerging parasitic agents (Intestinal Coccidia and Microsporidia) in aetiologies of Malabsorption Syndrome (Microbiology, Gastroenterology & HNU and Paediatrics).
2. Antigenic and molecular characterization of human influenza virus strains from acute respiratory infections.
5. Study of inhibition of respiratory syncytial virus and human metapneumovirus multiplication by RNA interference in tissue culture and animal model.
6. Multiplex RT-PCR for detection of viruses causing lower respiratory tract infections viz. human respiratory syncytial viruses (RSV), human parainfluenza viruses, influenza viruses (FLU), and human metapneumovirus (hMPV) and and real time RT-PCR for detection of human Respiratory Syncytial viruses (RSV) and human metapneumovirus (hMPV).
7. Detection, genotyping and Study of immune response to human metapneumovirus.
9. Genetic variability of human caliciviruses from cases of sporadic acute gastroenteritis.
10. Molecular epidemiology of extensively drug-resistant tuberculosis and development of rapid diagnostic techniques.
11. Identification and evaluation of *M. tuberculosis* antigens as biomarkers in clinical samples from tuberculosis patients.
12. Association of host genetic determinants to susceptibility and progression to disease in patients with Pulmonary Tuberculosis.
13. Detection of viable *M. tuberculosis* by reverse transcriptase-real time PCR of mRNA.

**Collaborative Projects**

**Completed**
1. Study of emerging parasitic agents (Intestinal Coccidia and Microsporidia) in aetiologies of Malabsorption Syndrome. (Microbiology, Gastroenterology & HNU and Paediatrics).
2. Diagnosis of visceral leishmaniasis by use of the polymerase chain reaction (PCR) on patient blood (Medicine & Institute of Pathology).
3. Congenital CMV infection in offspring of immune mothers with Dr Lalit Dar (ICMR Indo-US project)
4. A comparative study of VIA, cytodiagnosis, HPV testing and colposcopy as tools for cervical cancer screening (DBT Indo-US project, with the Department of Obstetrics and Gynaecology, AIIMS)

**Ongoing**
2. Assessment of Intestinal permeability in Chronic Liver Disease and its Complications. Co-investigator Dr Seema Sood with the Department of Gastroenterology.
3. Detection of mycobacterial pathogens in Crohn’s disease patients with Department of Gastroenterology and Human Nutrition.
4. Diagnosis of genital tuberculosis in infertile women and the effect of antitubercular therapy with Department of Obstetrics and Gynaecology.
5. Drug Resistance Surveillance under RNTCP with Department of Medicine, Ministry of Health, Govt. of India.
6. Efficacy of thrice weekly intermittent short course antituberculosis chemotherapy in tuberculosis patients with and without HIV infection” with Department of Medicine.
7. Efficacy and safety of immnuomodulator (Mycobacterium w) as an adjuvant therapy in Category II and multi-drug resistant pulmonary tuberculosis along with reduction in the duration of therapy and to study immunological parameters with Department of Medicine.
8. Efficacy and safety of immunomodulator Mw as an adjunct therapy in Category I (new sputum smear positive) pulmonary tuberculosis, along with assessment of immunological parameters (Double-blind, Randomized, Placebo-Controlled, Multicentre Clinical Trial) with Department of Medicine.
9. Evaluation of the efficacy of thrice weekly DOTS regimen in TB pleural effusion at six months (multicenter project) with Department of Medicine.
10. 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) with Department of Medicine.
11. IBIS/SAPNA Project for Surveillance of Invasive Pneumococcal Disease with the Department of Pediatrics.
12. In vitro expansion and establishment of human fetal liver hematopoietic stem cell line with Department of Medical Oncology, IRCH.
13. Microscopy Center for Directly Observed, (DOTS) Therapy, Short-Course with Department of Medicine, Ministry of Health, Govt. of India.
14. Prevalence of respiratory viruses infection in hospitalized patient with acute exacerbation of COPD and their impact on morbidity and mortality” with Department of Medicine.
15. Role of oral vitamin D as an adjunct therapy in Category I Pulmonary Tuberculosis along With assessment of immunological parameters.” with Department of Medicine.
16. Study of emerging parasitic agents (Intestinal Coccidia and Microsporidia) in aetiologies of Malabsorption Syndrome with Microbiology, Gastroenterology and HNU and Paediatrics.
17. Treatment outcome and drug resistance among CAT II pulmonary tuberculosis under Revised National TB Control Programme (RNTCP) of India with Department of Medicine.

PUBLICATIONS

Journals


**Books**


**Chapter in Books**


1. Air Pollution and its Health Hazard p.3–24
2. Waterborne Microbes and Human Illness p.143–162

**PATIENT CARE**

**BACTERIOLOGY LABORATORY**

| Clinical samples | 79,315 |
| Antimicrobial Susceptibility tests | 28,115 |
| **Total** | 1,07,430 |

AIIMS 2007-2008 / 253
SEXUALLY TRANSMITTED DISEASES LABORATORY

Clinical samples
High vaginal swabs (HVS) 311
Semen 357
Expressed prostatic secretions (EPS) 104
Urethral discharge 01
Cervical discharge 11
Total 784

Antimicrobial susceptibility testing
HVS 77
Semen 35
EPS 17
Urethral discharge -
Cervical discharge 08
Total 137

HOSPITAL INFECTION CONTROL
Samples processed as a part of surveillance 15,731
Disinfectant in-use test and Autoclave control
Water Bacteriology samples processed 1,064

SEROLOGY LABORATORY

Clinical samples
1. WIDAL 1,280
2. VDRL 5,085
Total 6,365

ANAEROBIC BACTERIOLOGY
Anaerobic culture 245
Antimicrobial sensitivity 30
Stool culture for C. difficile 256
ELISA for C. difficile toxin 256
Referred Anaerobic culture (for identification) 03
Anaerobic strains supplied to other hospitals 10

Leptospira
Leptospira culture 106
Leptospira serology for IgM antibodies
By ELISA 106
By Lepto dri-dot 106

Mycoplasma
Mycoplasma pneumoniae IgM, IgG, IgA antibodies by ELISA 102
Mycoplasma pneumoniae culture 34
Mycoplasma hominis culture 156
Ureaplasma urealyticum culture 156
Legionella pneumophilla 31

**Antibiotic Susceptibility**
for Mycoplasma hominis 11
for Ureaplasma urealyticum 19

**Campylobacter jejuni**
Culture 285
Serology 05

**Chlamydia pneumoniae**
By ELISA 102

**Legionella pneumophilla**
By ELISA 102

**Polymerase Chain Reaction**
for Salmonella typhi 36
for Mycoplasma pneumoniae 34
for Legionella pneumophilla 34
for Mycoplasma hominis 76
for Ureaplasma urealyticum 76
for Chlamydia trachomatis 58
for Campylobacter jejuni 285
Total 2,720

**PARASITOLOGY LABORATORY**

**Serological investigations**
1. Toxoplasma gondii serology for IgG antibodies by ELISA 39
2. Hydatid diseases serology by Indirect haemagglutination test 125
3. Amoebic serology of IgG antibodies by ELISA 159
Total 323

**Investigation for malaria**
1. Fluorescent staining (Acridine Orange) 3072
2. Giemsa staining 3072
3. Quantitative Buffy Coat (QBC) Assay 902
4. HRP-II Antigen Detection 253
Total 7299

**Investigation for Kala-azar**
1. Fluorescent staining (Acridine Orange) 124
2. Giemsa staining 124
4. Kala-azar serology (rk-39) 292
5. Aldehyde test 292
Total 1047
Examination of faecal samples for intestinal parasitosis
1. Direct and concentration 2998
2. Culture 25
3. Modified Acid-fast and special staining for intestinal coccidian 2998
4. Tissue specimens (homogenates) 60
   **Total 6081**

Examination of aspirates
1. Sputum, pus and others 53

Investigation for filariasis
1. Direct and Concentration 75
2. Acridine Orange 75
3. Thin & Thick Smear 75
4. Hetrazan provocative test 15
   **Total 240**

Other investigations
1. Broncho-alveolar lavage (BAL), Induced sputum, 197
2. Tracheal aspirate, Nasopharyngeal aspirates
3. for *Pneumocystis jiroveci* infection
4. Cerebrospinal fluid examination for Free Living Amoebae (FLA) 42
   **Total 15,282**

**TUBERCULOSIS LABORATORY**
Samples processed for ZN Smear & Culture on LJ medium 15,341
Samples inoculated for Rapid Culture on BACTEC 460 1,861
Anti-tubercular Drug Sensitivity done on BACTEC 460 171
PCR for *Mycobacterium tuberculosis* 2,968
   **Total 20,341**

**VIROLOGY LABORATORY**
Viral culture and identification (HSV, dengue etc) 34
Viral serology
Rubella IgM 4
CMV IgM 13
HSV (serum and CSF) 64
Measles (serum and CSF) 33
Dengue 578
Chikungunya 45
PCR
CMV 167
HSV 103
Dengue 3
CMV antigen detection (pp65) 85
Miscellaneous (Tzanck smear etc.) 33
   **Total 1162**
HIV AND IMMUNOLOGY LAB
CD4/CD8 Count 4,079
HIV PCR 46
HIV ELISA Tests 7142
Total 11,267

MYCOLOGY AND ICP LABORATORY
Samples Processed for Direct Examination and Culture 7,578
Fungal Serology 309
Cryptococcal serology 29
Aspergillus serology 14
Histoplasma serology 14
Total 7,930

AWARDS and HONOURS

Dr Shobha Broor is the member of the following national committees: Task force on “Infectious Disease Biology” of Dept. of Biotechnology, Government of India, Scientific Advisory Group on Communicable diseases ICMR, Committee of ICMR for “Establishment of New Virology Laboratories in the Country”, Associate Editor of Indian Journal of Medical Microbiology, Advisor to NACO for procurement of kits for HIV, HBV and HCV, Advisor Govt. of India for procurement of equipment under PMSSY for medical colleges, Project Advisory Committee on Medical Sciences of Dept. of Science and Technology, Scientific Advisory Committee of National Institute of Virology, Task force on Influenza ICMR, Committee for procurement of Kits of National vector Borne Disease Control Programme of Govt. of India, Joint Monitoring Group on Avian Influenza of Ministry of Health

Dr Arti Kapil was awarded the DBT overseas fellowship as a guest researcher at CDC Atlanta, GA, USA for a period of 3 months w.e.f 15 October 07–15 January 08. She was awarded Certificate of Course Mastery by CDC, Atlanta in Laboratory Safety, Occupational Emergency Program and General Responsibilities

Dr B.R. Mirdha received Fellowship from Indian Society for Malaria and Other Communicable Diseases. He was also nominated for Fellowship from National Academy of Medical Sciences (India) and selected as Governing Body Member of Shaheed Bhagat Singh College, Delhi University by Delhi Government

Dr Lalit Dar is the Secretary General of the Influenza Foundation of India (IFI) and Editor, IFI Newsletter. He was also elected the Joint Secretary of the Indian Association of Medical Microbiologists (IAMM). He was invited as a Technical Expert by the International Atomic Energy Agency, Vienna and is a member of the HIV Technical Resource Group of the National AIDS Control Organisation (NACO)

Dr Seema Sood has been nominated as member of the National Academy of Medical Sciences - NAMS (India). She also received the Best Poster Award for “Synthesis of size controlled ZnO nanoparticles” at the International Conference on Nanomaterial Toxicology (ICONTOX-2008) held from 5–7 February, 2008 at Lucknow.
Dr Urvashi B Singh has been nominated as member of the National Academy of Medical Sciences-NAMS (India). Best Poster Award for “Genetic Biodiversity of Mycobacterium Tuberculosis Isolates from Patients with Pulmonary Tuberculosis” at academic meet of Indian Association of medical Microbiologists, Delhi Chapter held on 4 August 2007.

VISITING SCIENTISTS
1. Dr Wayne Sullender, University of Alabama at Birmingham, USA
2. Dr Salman Siddiqi, Becton Dickinson Diagnostic Systems, MD, USA

Academic, Administration, Finance, Engineering, Library, Central Facilities, Etc
Dr Shobha Broor Faculty in charge of Rajgarhia Vishram Sadan, Sai Vishram Sadan and Surekha Vishram Sadan (sarais) of AIIMS.
EDUCATION

Long Term Training
Department runs DM Nephrology a 3-year degree course for post MD (Medicine) candidates, who get selected by AIIMS on the basis of merit. Three candidates were admitted to the DM Course and one passed out. Postgraduates in internal medicine are posted on rotational basis for a short period of one to two months. At present the department has thirteen DM students.

Short Term Training
Pool Officer from CMC Vellore worked for six months in the department. One doctor from Australia and two from Sikkim received training in nephrology. The department also provided training to nurses and technicians from other hospitals in Delhi.

Continuing Medical Education

Conferences, Seminars, Workshops
1. 2nd National congress on Prevention of Kidney Disease in India was conducted on 16–17 February 2008 at New Delhi.

Lectures Delivered

Professor S.C. Tiwari
1. Invited faculty for Annual Dialysis Conference, Orlando, Florida, USA and chaired a session from 2–4 March 2008, where he chaired a session.
3. Invited faculty for chairing a session “Pediatric nephrology in the 21st Century” and “Acute kidney injury – what is new” during 3rd Paediatric Nephrology Course organised by department of Paediatric, AIIMS, New Delhi; 23 February 2008.
6. Chairperson for a symposium on “Multiple myeloma” organized by Delhi Nephrology Society; February 2008.

Dr S.K. Agarwal
1. Invited as faculty for the conference titled “Big Fight” on role of ACEI/ARB in patients with Diabetic Renal Disease held at Gurgaon on 18 August 2007.
2. Invited as chairperson for the meeting on “HIV Nephropathy and HIV scenario in India” held at New Delhi; 23 August 2007.
3. Attended “CKD Registry Meeting” as a core group member at Mumbai on 25–26 August 2007.
4. Invited to chair a session on plenary lecture on CAPD in India during 9th Annual conference of Peritoneal Dialysis Society of India held at New Delhi; 7–9 September 2008.
5. Invited talk on “CNI in Renal Transplant: Controversy and Challenges” during annul Conference of East Zone of Indian Society of Nephrology held at Kolkata; 22 September 2007.
9. Invited faculty for a talk on “Primer in Renal Transplantation” during third Paediatric Nephrology Course organised by department of Paediatric, AIIMS, New Delhi; 2–3 February 2008.

Dr D. Bhowmik
1. “Metabolic Syndrome and Kidney Disease”, Department of Nephrology, SSKM Hospital, Kolkata, June 2007.
2. ‘Kidney Education’ Public Lecture in a programme organised by NGO Swar Rang; December 2007

Dr S. Mahajan
2. “Post transplant Diabetes”. Transplantation Update Ahmedabad; November 2007
4. “Cardio renal Syndrome”. DNS Nephrology Update, MAMC; March 2008
5. Invited faculty for “Modalities of renal replacement therapies” during 3rd Paediatric Nephrology Course organised by department of Paediatric, AIIMS, New Delhi; 2–3 February 2008.

RESEARCH

Funded Projects

Ongoing


4. Detection of HCV core antigen (HCVc-Ag) for Diagnostic Screening of HCV Infection in Patients on Maintenance Hemodialysis. Dr SK Agarwal. Funded by ICMR, New Delhi, November 2007–November 2010. Funds: Rs 27 lakhs.

5. Linezolid Vs Vancomycin/Cefazolin in treatment of haemodialysis patients with catheter related gram Positive Blood Borne Infection. SK Agarwal. Funded by Pfizer Ltd for one year. Funds: Rs.5 lakhs (approx.).

**Departmental Projects**

**Completed**

1. Spectrum of patients presenting as unilateral small kidney.
2. Impact of new onset diabetes mellitus after renal transplantation on patients and graft survival.
3. Factors governing depression in spouses with ESRD.
4. Clinical characteristics associated with depression in Indian CKD patients.
5. Comparison of factors affecting depression on HD and CAPD.
7. Donor kidney volume and transplant outcome.
8. Spectrum of renal involvement in HIV 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. Impact of CsA and Tacrolimus on outcome of living related renal transplantation.
5. Incidence of Hypertension and CKD among the native population in Leh valley.
6. Incidence of depression and its effect on clinical outcomes in patients on CAPD.
7. Oxidative stress in patients of CKD.
8. Efficacy and tolerability of extraneal in CAPD patients (randomized open label study).
10. Sleep and cognitive function in ESRD.

**Collaborative Projects**

1. Costing of hemodialysis procedure at AIIMS, New Delhi (with Hospital Administration).
2. A study of Psychiatric Morbidity and Quality of Life in Patients before and after Renal Transplantation (with Psychiatry).
3. To study the pregnancy outcomes in systemic lupus erythromatoses with special reference to cyclophosphamide therapy.
4. Estimation of anti-Oxidant in blood in renal and liver diseases (Laboratory Medicine).
5. Detection and genotyping of Human Cytomegalovirus from Neonates and Renal Transplant Recipients (Doctor of Philosophy in Microbiology).
7. Molecular detection and characterization of Pneumocystic jiroveci in respiratory samples from the patients both immunocompromised as well immunocompetent with suspected interstitial pneumonia and other chronic lung diseases (Microbiology).
8. Targeted screening for CKD and its risk factors in first degree relatives of patients of non-diabetic CKD (Laboratory medicine).
9. Role of urinary cytology and immunocytochemistry in diagnosis and management of acute renal allograft dysfunction with department of Pathology.

PUBLICATIONS

Journals


PATIENT CARE

Facilities Available in the Department

1. Hemodialysis
2. Acute peritoneal dialysis
3. Continuous Ambulatory Peritoneal Dialysis
4. Vascular Access (Minor surgery)
5. Plasmapheresis/Plasma exchange
6. CRRT (C II ICU, AB8 and CTVS)
7. Renal Transplants
8. Renal Laboratory Tests

I. Specialized treatment procedures
Department provides specialty care for seriously ill acute and chronic kidney failure patients. Department performed the following specialized treatment methods:

- Hemodialysis 5467
- Intermittent peritoneal dialysis 490
- Continuous Ambulatory Peritoneal Dialysis 96
- Plasmapheresis/Plasma Exchange 110
- Continuous Renal Replacement Therapy 11

Venovenous/Arteriovenous Hemofiltration and Hemodialysis)
- Femoral vein catheterization 732
- Jugular and Subclavian Catheter Insertion 152
- AV Fistula 37
- AV Shunt 23
• Preparation for kidney transplantation
  Patients of End stage kidney failure are treated,
dialyzed and selected for kidney transplantation on the
basis of suitable tests. Similarly patients and their donor
work up are done by a variety of tests for selection or rejection
• Renal Transplant done

II. Other Therapeutic Methods (Day Care Treatment)
• Kidney Biopsy
• Intravenous Pulse therapy for Immunosuppressants and iron therapy

III. Laboratory tests for diagnosis of renal diseases
• No. of patient
• No. of Investigations

Clinics
1. Renal Clinic (6 days per week)
2. Renal Transplant Counseling Clinic (3 days per week)
3. Renal Transplant Clinic
4. Indoor Admissions (Long and Short)
5. Nephrology Consultations

COMMUNITY SERVICES
Professor SC Tiwari attended Super Speciality Medical Camp in Leh, Ladakh in August 2007. He also wrote an article on Transplantation information for kidney patients and their donors in Mahavir International.

AWARDS AND HONOURS
Dr S.C. Tiwari
1. Letter of appreciation from his Excellency, Shri Bhairon Singh Shekhawat, Hon’ble Vice President of India for the deep commitment to duty and Professional excellence during the last five years.
2. Nominated as Chairman, Hospital Management Board; July 2007 onwards.
3. Governing Body Member of RIMS, Jharkhand
4. Member, State Health Society, Bihar
5. Chairman, Organising Committee, 2nd National congress on Prevention of Kidney Disease in India
6. Referee of articles in Renal Failure.
7. Chairman, Antarctica Expedition programme under the auspices of Ministry of Earth Sciences, Goa.
8. Member of Editorial Board, Heal, India.
9. Editor, Journal of Renal Sciences,
11. Visiting Professor at University of Missouri, Columbia, USA
Dr S.K. Agarwal
1. Invited to be external reviewer for faculty promotion to the post of professor in department of Nephrology in the University of Wisconsin, USA.
2. Invited to be member of “Advisory Group” for the “Registry of People with Diabetes with Young Age” initiated by ICMR, New Delhi.
3. Invited to be member of nephrology instrument specification committee for PMSSY scheme of government of India, held at New Delhi.
4. Working as co-investigator in a study titled “A randomised double blind placebo controlled parallel group study to determine whether in patients with type-2 diabetes at high risk for cardiovascular and renal events, aliskerin, on top of conventional treatment, reduces cardiovascular and renal morbidity and mortality” (ALTITUDE Trial, Novartis for five years).
5. Invited as expert for ICMR-WHO Workshop on “Mapping Pattern of Diabetes in India” held at ICMR headquarter; 21 November 2007, New Delhi.
7. Member of Committee of Faculty expert for evaluation of Architectural Designs for AIIMS Likes institutions at Bhopal, Bhubaneshwar, Raipur and Patna, 2008.

Dr S. Mahajan
1. Young investigator Award at the World-Congress of Nephrology, Brazil April 2007.

VISITING SCIENTISTS
1. Dr Sandeep Gupta Deptt. of Nephrology, University of Minnesota, USA.
2. Dr Edward Cole, Division of Nephrology, University of Toronto, Canada.
3. Professor Sumant Chugh, University of Alabama, U.S.A.
4. Professor Praveen Singhal, Chief of Nephrology, LIJ Medical Centre Albert Einstein University, U.S.A.
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

Funded Projects

Completed

Pre-phase I Pharmacokinetic and dosimetric study of Lu177 EDTMP in Metastatic bone pain palliation in prostate cancer.

Ongoing

1. To evaluate radiolabelling and efficacy of radiolabelled α-cyclodextrin for infection imaging, ICMR, New Delhi. Dr G.P. Bandopadhayaya; Funds: Rs 45,00,000; Duration: 3 years (2006 – 2009).
2. Synthesis and Chemical Characterization of Different Formulations of Alginate-Tamoxifen beads. Department of Science and Technology, New Delhi. Dr G.P. Bandopadhayaya; Funds: Rs 60,00,000; Duration: 3 years (2006-2009).
3. Detection of silent of ischemia in asymptomatic diabetes using myocardial perfusion imaging. Funded by an International Atomic Energy Agency (IAEA), Vienna, Austria. Dr Rakesh Kumar; Rs 4,05000; Duration: 3 year (2006-2009).
4. A Multicenter, 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. Dr C.S. Bal; Funded by OXIGEN Inc., USA. Funds: Rs 10,00,000; Duration: 2 years (2007-2009).
5. Phasal Pharmacokinetic and dosimetric study of Lu177 EDTMP in Metastatic bone pain palliation in prostate cancer. Funded by an International Atomic Energy Agency (IAEA), Vienna, Austria. Dr C.S. Bal; US $ 12,000; Duration: 2 year (2008-2010).

Departmental Projects

Completed

1. Evaluation of cardiac function in patients receiving anthracycline therapy by 1st pass study and equilibrium radionuclide ventriculography.
2. Usefulness of Tc99m – MAA lung perfusion imaging in patients post BD Glenn & TCPC.
3. Standardization of the preparation and quality control of $^{188}$Re-Tin-colloid for Radiosynovectomy.
4. Studies on Development and Analytical Pharmacokinetics of Polymeric radiopharmaceuticals under Varied Experimental Conditions.

**Ongoing**
1. Comparative analysis of 99mTc MDP vs. 18FDG & 18Fluoride PET-CT for detection of bone metastasis in Ca-breast/Ca-lung/Ca-prostate.
2. Role of F-18 FDG in acute Rheumatic heart disease.
3. Correlation between cardiovascular autonomic function and indicators of Myocardial ischemia in patients presenting anginal symptoms.
4. Prevalence of symptomatic and asymptomatic coronary artery disease in stroke patients.
5. Role of PET-CT in initial staging and post therapy assessment in patients of carcinoma ovary.

**PUBLICATIONS**

**Journals**

**Chapters in Books**

**PATIENT CARE**

<table>
<thead>
<tr>
<th>Radionuclide Investigations</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Radioactive Iodine Uptake (RAIU)</td>
<td>1288</td>
</tr>
<tr>
<td>2. Perchlorate discharge test</td>
<td>15</td>
</tr>
<tr>
<td>3. I-131 Whole body scans</td>
<td>7013</td>
</tr>
<tr>
<td>4. Dimercaptosuccinic Acid Scans</td>
<td>750</td>
</tr>
<tr>
<td>5. P-32 treatment</td>
<td>12</td>
</tr>
<tr>
<td>6. Ca-thyroid 1-131 Whole body scan</td>
<td>100</td>
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<tr>
<td>7. Thyrotoxicosis</td>
<td>320</td>
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<tr>
<td>8. DTPA/LLEC 99m Tc renal dynamic scan</td>
<td>3850</td>
</tr>
<tr>
<td>9. Direct Radionuclide Cystourethrography</td>
<td>336</td>
</tr>
<tr>
<td>10. GER</td>
<td>750</td>
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<tr>
<td>11. GFR</td>
<td>1470</td>
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<tr>
<td>12. Bone Scan</td>
<td>3000</td>
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<td>13. 99m Tc HIDA</td>
<td>500</td>
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<td>14. Thyroid Scan</td>
<td>600</td>
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<td>15. Liver Scan</td>
<td>48</td>
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<tr>
<td>16. Meckel’s Study</td>
<td>90</td>
</tr>
<tr>
<td>17. GI Bleed</td>
<td>80</td>
</tr>
<tr>
<td>18. RBC Mass Survival</td>
<td>11</td>
</tr>
<tr>
<td>19. Lymphoscintigraphy</td>
<td>120</td>
</tr>
<tr>
<td>20. Pleuro Peritoneal Shunt Scintigraphy</td>
<td>4</td>
</tr>
<tr>
<td>21. MIBG (diagnostic and therapeutic)</td>
<td>500</td>
</tr>
<tr>
<td>22. Venography</td>
<td>10</td>
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<tr>
<td>23. 153Samarium bone palliation</td>
<td>20</td>
</tr>
<tr>
<td>24. 90Yttrium Synovectomy</td>
<td>20</td>
</tr>
<tr>
<td>25. 67Gallium Scan</td>
<td>40</td>
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<tr>
<td>26. 99m Tc DMSA-V</td>
<td>750</td>
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<tr>
<td>27. Radionuclide ventriculography</td>
<td>1272</td>
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<tr>
<td>28. Thallium Scan</td>
<td>979</td>
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<tr>
<td></td>
<td>Procedure</td>
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<td>29.</td>
<td>Tetrofosmin</td>
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<tr>
<td>30.</td>
<td>Misc. (V/Q Ca Lung, PTH)</td>
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<tr>
<td>31.</td>
<td>Brain SPECT</td>
</tr>
<tr>
<td>32.</td>
<td>PET Whole Body</td>
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<tr>
<td>33.</td>
<td>Brain Glucoheptonate (GHA)</td>
</tr>
</tbody>
</table>
9.21 Nuclear Magnetic Resonance

Professor & Head
N.R. Jagannathan

Associate Professor
Rama Jayasundar (on leave)

Assistant Professor
S. Senthil Kumaran

Scientist II
Uma Sharma

Scientist I
Sujeet Kumar Mewar

EDUCATION

Postgraduate
The faculty participated in and delivered lectures for course entitled “Structural Biology and NMR Technology”, of M. Biotech programme of the Dept. of Biotechnology.

Short/Long Term Training
Five persons from medical and science disciplines from various Institutes and Universities from all over India underwent training in MRI 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.

Lectures delivered

Professor N.R. Jagannathan
- Biochemical characterization of lymphadenopathy in TB, Sacrcodosis and Metastasis using in vitro MRS. 15th Scientific Meeting of the International Society for Magnetic Resonance in Medicine (ISMRM), Berlin, Germany; May 2007.
• Role of various in vivo MR methodologies in the evaluation of prostate cancer. 16th International Union of Pure and Applied Biophysics (IUPAB) Biophysics Congress, February 2-6, 2008, Long Beach, USA.

Dr. S. Senthil Kumaran

Dr. Uma Sharma
• Magnetic Resonance Spectroscopy Study in Oncology. ‘National Symposium on Biophysics’, 15-17 November, 2007, Department of Biophysics, Panjab University, Chandigarh.

RESEARCH

Funded Projects
Ongoing
1. 700 MHz NMR Spectrometer for Biomedical Research. N. R. Jagannathan. Funded by Department of Science and Technology (DST), Government of India, December 2007 to December 2012. Funds: Rs. 842.6 lakhs.

Departmental Projects
Ongoing
1. MRI and MRS study of animal model of demyelination

Collaborative Projects
Ongoing
1. MRI/MRS studies to evaluate brain metabolism in sleep apnea patients (with Department of Medicine).
2. In-vivo MRS of muscle in NIDDM patients (with Department of Medicine).
3. High-resolution $^1$H MR Spectroscopy of axillary lymph nodes (with Department of Surgery).
4. In-vivo and in-vitro MR spectroscopy studies of tissue extracts of prostate cancers (with Departments of Urology and Pathology).
5. In-vitro MR spectroscopy of colon tissue in patients of IBD (Dept. of GI Surgery).
7. MRI studies of skin cancers (with Department of Biochemistry).
8. In-vivo MRS of brain in NIDDM patients (with Department of Medicine).
9. Neuro-cognitive changes associated with perception, spatial orientation and coordinates in visually handicapped subjects, using functional magnetic resonance imaging (with RPC unit).
10. Functional MRI study in IBD and Achalasia Cardia patients (with Department of Gastroenterology).
11. Neural mapping during stoop task of familiar faces (with Department of Physiology)

**PUBLICATIONS**

**Journals**
1. Kumar V, Jagannathan NR, Kumar R, Thulkar S, Gupta SD, Dwivedi SN, Hemal AK, Gupta NP. Determination of a cut-off value of apparent diffusion coefficient (ADC) for the peripheral zone (PZ) of prostate in men with raised serum prostate specific antigen (PSA) or abnormal digital rectal examination (DRE) prior to transrectal ultrasound (TRUS) guided biopsy. *NMR Biomed* 2007; 20:505-11.
Abstracts


6. Role of various in vivo MR methodologies in the evaluation of prostate cancer. 16th International Union of Pure and Applied Biophysics (IUPAB) Biophysics Congress, February 2-6, 2008, Long Beach, USA.


PATIENT CARE
The department has two 1.5 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 2007 to March, 2008 are:
Clinical Diagnostic MRI Scan : 5061 patients
Research : 218 patients

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”; President of the Indian Biophysical Society (IBS); elected Fellow of the National Academy of Medical Sciences of India (FAMS); 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); moderator, Joint Meeting of the International Society for Magnetic Resonance in Medicine (ISMRM) and European Society of MR in Medicine and Biology (ESMRMB), Berlin, May 2007; member of the Swarnajayanthi Fellowship Award Committee, Department of Science and Technology (DST), Government of India; 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; council member of the International Conference on Magnetic Resonance in Biological Systems (ICMRBS); coordinator of the expert panel on “Biomedical Devices and Bioengineering”, Life Sciences Research Board (LSRB), DRDO; member of the INSA combined committee for International Union of Pure and Applied Biophysics (IUPAB) and International Union of Crystallography (IUCr); member of the Program Advisory Committee (PAC), National Facility for High Field NMR, Tata Institute of Fundamental Research (TIFR), Bombay; member of the Regional Sophisticated Instruments Facility (RSIC), Indian Institute of Technology (IIT), Chennai.
9.22 Obstetrics And Gynaecology

Professor & Head
Suneeta Mittal

Professor
Alka Kriplani
Sunesh Kumar
Deepika Deka

Additional Professor
Neerja Bhatla
K.K. Roy

Associate Professor
Neena Malhotra
Vatsla Dadhwal
Nutan Agarwal

Assistant Professor
J.B. Sharma
Neeta Singh (on transfer from Reproductive Biology)
Pradeep Garg (adhoc)

Scientist Gr.I
Rohini Sehgal
Abnish Chandra Tiwari

EDUCATION

Undergraduate, Postgraduate, paramedical
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 and 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 post graduates.

Short Term and Long Term Training

CME
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. Module 3-Series 2 was held on 21-22 April 2007 and Module 4-Series 2 on 2-3 November 2007 at AIIMS, New Delhi. The CME modules are attended by more than 200 students as well as senior gynecologists and were accredited by Delhi Medical Council.

CME, Workshops & Seminars
1. CME cum Workshop on “IUGR : Maternal – Fetal Management and Therapy “, 8th April, AIIMS, 2007

AIIMS 2007-2008 / 277
4. Delhi Post Graduate Medical Forum meetings held on 11th August 2007, AIIMS, New Delhi
5. Women’s Health Initiative Training Course in Minimally Invasive Gynaecology conducted by Department of Obst. & Gynaec, AIIMS, 10th September, 2007 to 20th September, 2007.
10. National CME in Obstetrics and Gynaecology (Module 4, Series 2) on 2nd–3rd November, 2007 at AIIMS, New Delhi
12. Delhi Post Graduate Medical Forum meetings held on 1st December 2007 at AIIMS, New Delhi
13. Delhi Post Graduate Medical Forum meetings held on 22nd December 2007 at AIIMS, New Delhi
14. Delhi Post Graduate Medical Forum meetings held on 19th January 2008 at AIIMS, New Delhi
15. Pre AICOG (All India Congress of Obstetrics & Gynaecology) Workshop on ‘Genetic & Fetal Medicine, Maternal-Fetal Care For Prevention Of Birth Defects’, Organised by Genetic and Fetal Medicine Committee, FOGSI, Department. of Obstetrics & Gynaecology, AIIMS, 1st February 2008
17. Post AICOG Workshop on Urogynaecology at AIIMS, New Delhi on 6th February, 2008
18. Women’s Health Initiative Training Course in Minimally Invasive Gynaecology conducted by Department of Obst. & Gynaec, AIIMS, 18th February – 28th February, 2008.
19. Delhi Post Graduate Medical Forum meetings held on 29th March 2008 AIIMS, New Delhi

Lectures delivered

Dr. Suneeta Mittal

4. “Emergency Contraception” during the 2\textsuperscript{nd} International Training Course ‘Non scalpel vasectomy’ for candidates from Ghana, MAMC, New Delhi on 27\textsuperscript{th} July, 2007.
5. “Vescio-Vaginal fistula and urinary incontinence (case discussion) Tenth Practical Course & CME in Obst. & Gynaec., MAMC on 4\textsuperscript{th} August, 2007.
6. “Elucidating endometriosis using genomic strategy” during the CME on Endometriosis at Intraprastha Apollo Hospital, New Delhi on 12\textsuperscript{th} August, 2007.
10. “Introduction to WHO-RHL” during the National CME in Obst. & Gynaec. (Module 4 – Series 2) organized by the Department. of Obstetrics. & Gynaecology, AIIMS, New Delhi on 2\textsuperscript{nd} November, 2007.
11. “Hyperprolactinemia” during the National CME in Obst. & Gynaec. (Module 4 – Series 2) organized by the Deptt. of Obst. & Gynaec., AIIMS, New Delhi on 2\textsuperscript{nd} November, 2007.
12. “Introduction to 12 x 12 Initiative” during the CME organized by the Gurgaon Obstetricians & Gynaecologists Society, 11\textsuperscript{th} January, 2008 at Gurgaon.

**Dr. Alka Kriplani**
12. “Endoscopy & Hysterectomy” during the Women’s Health Initiative Training Course in minimally Invasive Gynaecology organized by Deprt. of Ob. & Gynaec., AIIMS, UNU & Karl Storz Germany, Delhi, 1.8.2007.
13. “Endoscopy in infertility” during the Women’s Health Initiative Training Course in minimally Invasive Gynaecology organized by Deprt. of Ob. & Gynaec., AIIMS, UNU & Karl Storz Germany, Delhi, 2.8.2007.
14. “Adnexal mass”, (Case discussion), Tenth practical course & CME in Obstetrics & Gynaecology, Organised by Maulana Azad Medical College & Associated Lok Nayak Hospital, Delhi, 4:8:.2007.

**Dr. Sunesh Kumar**

**Dr. D. Deka**
1. “Invasive procedures in Prenatal Diagnosis” at the ‘Genetics for Obstetricians – 2nd CME’ sponsored by DBT on 7th April, 2007, AIIMS, New Delhi
2. “Maternal Plasma volume expansion, Amnioinfusion Therapy” at CME cum Workshop on IUGR : Maternal – Fetal Management and Therapy, 8th April, Conference Hall, AIIMS
4. “Fetal Therapy what is possible in India” and “An Introduction to Fetal Medicine & Genetics: The New Obstetrics” at CME In O&G on 5 August 2007 at Baroda, organized by Baroda Obst & Gynae Society.


6. “Introduction to Gyan Yatra Program of FOGSI” in the CME on Genetics and Foetal Medicine and Gyan – Yatra program on 7th September, 2007 at Guwahati Medical College, Assam


8. “Panel discussion on Prenatal Diagnosis & Therapy” in the CME on Genetics and Foetal Medicine and Gyan – Yatra program on 7th September, 2007 at Guwahati Medical College, Assam

9. “Screening for aneuploidy and prenatal diagnosis” at National CME, Department of Obstetrics & Gynaecology Module 4, Series 2 on 2nd November, 2007 at AIIMS.


Dr. Neerja Bhatla


Dr. Vatsla Dadhwal


Dr. Nutan Agarwal


Dr. J.B. Sharma
1. “Prediction and prevention of Pre-eclampsia” during the National CME in Obstetrics and Gynaecology on 21st April, 2007 at AIIMS, New Delhi.
National and International Conferences

Organized by the department

National
2. Core Implementation Committee meeting of “12 by 12” on 15th May, 2007 at AIIMS, New Delhi.
4. MRCOG Part 2 Course from 11th to 18th August 2007 in AIIMS, New Delhi and delivered a lecture on Urogynaecology in the Course.
6. Meeting of Delhi Society For Prenatal Diagnosis & Therapy (DESPAT), 8th March, 2008 at LT-I, AIIMS

Lectures delivered during National & International Conferences

Dr. Suneeta Mittal
4. “We and EMOC” during the 29th Annual Conference of AOGD, 1-4th November, 2007 at AIIMS, New Delhi.
6. “Emergency Contraception” during the Workshop on Contraction and Safe Abortion, 16th December, 2007 at PGIMER, Chandigarh
8. “Introduction to 12 x 12 Initiative” during the CME organized by the Gurgaon Obstetricians & Gynaecologists Society, 11th January, 2008 at Gurgaon.
9. “Superspecialisation – need of hour” during the 51st All India congress of Obstetrics & Gynaecology, 1-5th February, 2008 at Delhi.
10. “Critical Appraisal” during the MRCOG Post-Graduate Course organized by the Amity University, 8th February, 2008 at Noida.
13. “Medical Eligibility Criteria for Contraceptive Use” during AICC-RCOG Conference, 29th February, 08 – 2nd March, 08 at Indore.
14. Moderator – panel discussion on “Sterilization to do or not” Symposium during AICC-RCOG Conference, 29th February, 08 – 2nd March, 08 at Indore.

15. Moderator – panel discussion on “Current Status of Medical Abortion in India” during AICC-RCOG Conference, 29th February, 08 – 2nd March, 08 at Indore.


**Dr. Alka Kriplani**


Dr. Sunesh Kumar
2. “Preventing maternal deaths through safe blood transfusion” at Indian Red Cross Society, New Delhi on 14th June, 2007.

Dr. D. Deka
6. “Primary Amenorrhea : ‘Take home messages’ at
7. All India PG training programme “FOCUS 2007” at Jubilee Mission Medical College, Thrissur, Kerala on 23rd August, 2007
8. “Introduction to Fetal Medicine and Genetics” at Clinical Meeting of Thrissur O & G Society, 23rd August, 2007 Kerala
10. “Understanding TORCH Test” clinical meeting of Rewari Obstetrics & Gynaecological Society, Rewari on 15th September, 2007,
11. “Endoscopy in fetal therapy and in pregnancy”, Sixth Training course in “Minimally Invasive Gynaecology” on 17th September, 2007, Organised by Deppt of O & Gynaec, AIIMS
12. “Treatment of Fetal Anemia in Rh Iso-immunized pregnancies with Ultrasound – Guided Intrauterine Fetal Blood Transfusion” at Faculty Research Presentation on 18th September, 2007 at Conference Hall, AIIMS.
13. “Introduction to Fetal Medicine and Genetics”, conducted Panel Discussion ‘PND and Therapy’ at Fetal Medicine Workshop (25th Sept., 2007) at Guwahati Medical College & Hospital, Guwahati, Organised by GOGS and GMCH.
19. “Fetal Endoscopy” at Workshop on Fetal Endoscopy on 5th December, 2007 at Deptt. of Obst. & Gynae, AIIMS
23. “Intrauterine Transfusion” at Genetic & Fetal Medicine Workshop on Maternal-Fetal Care For Prevention Of Birth Defects, Organised by: Dr. Deka, Deptt. of Obst. & Gynae, AIIMS, 1st February 2008, JLN Auditorium, AIIMS

Dr. Neerja Bhatla
3. “Mahilaon mein kuposhan se hone wali bimarian or unka ilaj” at All India Radio, New Delhi, 26th April 2007.
9. Lecture on “Mahilaon mein khoon ki kami, karan va nivaran” at All India Radio, New Delhi, September 27, 2007.
10. “Screening of Ovarian Cancer”, Annual Conference - Indian Menopause Society (Delhi Chapter), Delhi Habitat Center, New Delhi, 7th October 2007.
16. National Faculty for the Precongress Colposcopic Workshop of AICOG 51st All India Congress of Obstetrics & Gynaecology (AICOG), New Delhi, 1-5th February 2008
17. “Proteomic & Genomic approach to diagnosis of ovarian cancer” in the session “Ovarian Malignancy” 51st All India Congress of Obstetrics & Gynaecology (AICOG), New Delhi on 3.2.2008
18. “Laparoscopy in Gynaec Oncology” in Women’s Health Initiative Training Course in Minimally Invasive Gynaecology conducted by Deptt. of Obst. & Gynae, AIIMS, February

Dr. Neena Malhotra
1. Intrauterine Insemination- Optimising outcome”: During ART Training Programme organized by the Reproductive Research Center, Cleveland Clinic Foundation, Cleveland, Ohio, USA. 2-28th May, 2007
2. “Female Patient Selection for ART”: During ART Training Programme, Organized by the Reproductive Research Center, Cleveland Clinic Foundation, Cleveland, Ohio, USA. 2-28th May, 2007.
4. “Induced abortion- Current Guidelines “at MRCOG Post-Graduate Course organized by the Amity University, 8th February, 2008 at Noida.
5. “Etanercept-Drug Update”- 51st AICOG, organized by Federation of Obstetricians and Gynecologists of India (FOGSI), 5th February 2008, New Delhi

Dr. Vatsla Dadhwal
6. “FOGSI AIDS Day lecture-What is the need of the hour?” during the Gyan Yatra and Delhi Post Graduate Medical Education Forum, 1st December, 2007 at AIIMS.
9. “CVS risks and apprehension” during the Hemophilia Conference organized by Society for Hemophilia Care (India) on 13-14th March, 2008 at AIIMS, New Delhi.

Dr. Nutan Agarwal
1. “Medical management of ectopic gestation” at monthly meeting of East Obs & Gynae Society, Delhi on 20th April, 2007.
3. “Special issues on the management of Rh-Negative pregnancy in teleconference symposia” at ISRO, Ahmedabad on 22nd April, 2007.

Dr. J.B. Sharma
1. “Incidental findings at Laparoscopic sterilization ‘at 1st Delhi Gynecological Endoscopic Society Conference on 15th April 2007 in New Delhi

7. “Outcome of Haemoglobinopathies at RCOG SAFOG 2007 conference at Kolkata from 14th – 16th December, 2007


RESEARCH

Funded Projects

Completed


Ongoing


2. Prevention of Parents to Child Transmission of HIV. Dr. Suneeta Mittal. Funded by Delhi State AIDS Control Society. Funds: Rs. 0.5 lakhs.

3. Phase I Clinical trial of once weekly administration of 50 mg Mifepristone as oral contraceptive. Dr. Suneeta Mittal. Funded by ICMR.

4. Phase III Multicentre clinical trial with subdermal single Rod contraceptive Impalnt - Implanon. Dr. Suneeta Mittal. Funded by ICMR (Two years).


7. Evaluation of Curcumin in the management of Advace cancer cervix. Dr. Sunesh Kumar. Funded by DBT, January 2006 to 2009. Funds: Rs. 51 lacs. (approx.).


10. A phase III, double-blind, randomized, controlled study to evaluate the immunogenicity and safety of GlaxoSmithKline Biologicals’ HPV-16/18 VLP/AS04 vaccine administered intra-
muscularly according to a 0, 1, 6 months schedule in healthy Indian female subjects aged 18-35 years. Dr. Neerja Bhatla. Funded by GSK. June 2006 to May 2008. Funds: Rs. 6.88 lakhs.


**Departmental Projects**

**Completed**

1. To study the efficacy of uterine biophysical profile, antral follicle count and ovarian diameter in predicting outcome in infertile women on ovulation induction.
2. Evaluation of ultrasound and MRI in diagnosis of fetal congenital anomalies.
3. Ovarian function and endometrial changes in cases of carcinoma breast.
4. Role of bile acids in diagnosis and therapeutic effect of ursodeoxycholic acid in intrahepatic cholestasis of pregnancy.
5. The effect of warmed and humidified carbon dioxide pneumoinsufflation on intraoperative and postoperative pain in laparoscopy.

**Ongoing**

1. Detection and quantification of fetomaternal hemorrhage (FMH) following deliveries in Rh-ve non immunized pregnancy by KBT, flow cytometry.
2. Comparison of harmonic scalpel with bipolar cautery in laparoscopic assisted vaginal hysterectomy.
3. A comparative study of VIA, cyto diagnosis, HPC testing and colposcopy as tools for cervical cancer screening.
4. 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.
5. Doppler Assessment in various fetal vessels and fetal weight estimation using antenatal soft tissue thickness in intra uterine growth restriction with normal pregnancies.
6. Prevention of uterine atony during cesarean section : Randomized comparison of sublingual misoprostol versus syntocinon
7. Value of routine antenatal screening ultrasonography at 24-28 weeks of gestation.
8. Effect of intraperitoneal bupivacaine in reducing postoperative pain after laparoscopic gynaecological surgery.
9. Endometrial changes and ovarian function in women with early breast cancer
10. A randomized study to compare two surgical technique of laparoscopic stripping of ovarian endometrioma.
11. Role of Middle Cerebral Atery – Peak Systolic Velocity in Predicting fetal anemia in Rh Isoimmunisation after previous Intrauterine Transfusions.
12. Use of Letrozole Versus Climphene Citrate combined with Gonadotrophin in Superovulation and IUI Cycles.
14. Prophylactic administration of micronized progesterone in prevention of preterm labour in women at increased risk.
15. Prospective randomized comparative study of total laparoscopic hysterectomy, laparoscopically assisted vaginal hysterectomy and non descent vaginal hysterectomy for treatment of benign diseases of the uterus.
16. Correlation of stage and imaging of endometriosis with fertility outcome.
17. Role of messenger RNA PCR in the diagnosis of genital tuberculosis in infertile women.
18. Comparison of uterine and radial artery flow changes detected by pulse Doppler in women undergoing stimulated intrauterine insemination for unexplained infertility.
19. To compare three different time regimen of vaginal misoprostol after oral Mifepristone for medical abortion.
20. Transvaginal ultrasound markers for ovarian reserve and periovarian adhesions after laparoscopic ovarian drilling in patients with clomiphene citrate resistant polycystic ovarian syndrome.
22. Role of PET in staging of ovarian malignancies.
23. Persistence of HPV DNA and its correlation with residual diseases in treated cases of CIN.
24. To compare BPP with Doppler in pregnant patients with IUGR in normal pregnancies.
26. Ovarian function and endometrial changes in case of carcinoma breast.
27. Comparative study between MRI and Ultrasound in prenatal diagnosis using autopsy or postpartum imaging as a standard of reference.
30. Effect of oral contraceptive containing ethinyl estradiol combined with drospirenone vs desogestrel on clinical and biochemical parameters in patients of PCOS.
31. Correlation of HPV DNA testing with residual decrease in treated cases of CIN.
32. Sentinel Lymph node biopsy in cancer cervix.
33. The Comparison between laparoscopic assisted vaginal hysterectomy with non descent vaginal hysterectomy for large large uteri - a randomized clinical trial.

**Collaborative Projects**

*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.(with Biochemistry).
2. Apoptosis in placental membranes in pre-eclampsia: An immunohistochemical study (with Anatomy).
3. PEARL study (post menopausal evaluation and risk reduction with lasofoxifene). Global research and development, Pfizer Ltd., Pfizer Ltd. (with Endocrinology).
4. 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 (with Endocrinology)
5. Chromosome Anenploidy and Mosaicism in preimplantation Embryo. (with Anatomy).
6. Sequence based identification of mycobacterium species isolated from extra-pulmonary tuberculosis cases (with Lab. Medicine)
7. Establishment & characterization of human fetal liver hematopoietic stem cell line. (with Medical Oncology, IRCH)
8. To study the subset of Antiphospholipid syndrome defined by anti b2 glycoprotein 1 antibody. (with Lab. Medicine)
9. Role of centchroman in benign breast disease (with Surgery)
10. Epidural analgesia in labour (with Anaesthesiology).
11. Chromosome Aneuploidy and Mosaicism in preimplantation Embryo (with Reproductive Biology).
12. Prenatal development and maturation of the human inferior colliculus (with Anatomy).
13. Evaluation of ovarian function in female patients with multi-bacillary leprosy (with Dermatology & Venereology)
15. A study of molecular basis of endometrial receptivity for blastocyst implantation in primates (with Physiology)
17. Diabetis mellitus and vulvo vaginal candidiasis : prevalence and its rational management (with Endocrinology)
18. Prevalence of bacterial vaginosis and other reproductive tract infections among symptomatic women (study in tertiary centre) (with Microbiology)
19. 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 (with Physiology)
20. Effect of progesterone on hsp 27 expression in human, mid-secretary stage endometrial cells grown on collagen matrix in vitro (with Physiology).
21. Elucidation of endometriosis based on transcript profiling (with Physiology)
22. To study the prevalence of vitamin D deficiency in pregnant women at first and third trimester during the routine case (with Endocrinology).
23. Correlation between first trimester glucose screening & serum insulin levels with development of gestational diabetes mellitus in pregnancy (with Endocrinology).
24. Comparative evaluation of neo adjuvant chemotherapy vs primary debulking surgery in the management of advanced epithelial ovarian cancer (with IRCH).
25. pl61NK 4a and E-cadherin expression profile in pre-cancerous lesions of cervix and cervical carcinomas (with Pathology).
26. Role of circulating angiogenetic factors in the pathogenesis of preeclampsia (with Anatomy).
27. Validation of strategies for rapid prenatal detection of aneuploides (with Genetics).
29. Non invasive prenatal diagnosis of Beta Thalassemia and fetal RhD status (with Peadiatrics).
30. Establishment & characterization of human fetal liver hematopoietic stem cell line (with Medical Oncology, IRCH).
31. Endothelial progenitor cells as biomarker of disease activity in multiple myeloma (with Oncology).
32. Use of Hb A estimation by HPLC for prenatal diagnosis of b-thalassemia in fetal blood samples during second trimester pregnancies (with Haematology).
33. Delineation of molecular basis of trophoblast invasion (with National Institute of Immunology).

PUBLICATIONS


63 Sharma JB. Female genital tuberculosis revisited:. Obs & Gynae Today, 2007; XII (2):61-63


65 Sharma JB. Current trends in caesarean section: Obs & Gynae Today 2007; XII (5):224-225


74 Sharma JB, Bahadur A, Mittal S. Survey of the attitude to knowledge and practice of Contraception and Medical Abortion in women attending a Family Planning Clinic J.Turkish-German Gynaecological Association 2008;9:29 –34.
75 Sharma JB, Gupta N, Agarwal P, Mittal S. A survey of obstetricians practice of using prophylactic antibiotics in vaginal deliveries and Cesarean sections JIMA 2008; 106;147–149
78 Sharma JB, Bahadur A. Hazards and bearing of PIH: Remote from term FOGSI FOCUS 2007 (May): 13-14

Books and Monographs

Chapters in books

AIIMS 2007-2008 / 298
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>
<tbody>
<tr>
<td>5. Post natal clinic</td>
<td>3/week New – 176 Old – 84</td>
</tr>
</tbody>
</table>

Operations Performed

Gynaecological

Major:
- Surgery for benign diseases: 1300
- Oncology Surgery: 188
- Infertility: 703
- Endoscopy surgeries: Laparoscopy: 2001
- Hysteroscopy: 146
- Plastic surgery: 49

Minor:
- D&C/EA: 2300
- Colposcopy/cryo/LEEP: 284
- Diagnostic hysteroscopy: 986
- MTP: 1300
- Pap’s smear: 3200
- Cervical biopsies: 186
Obstetrics
Major: LSCS - 836
     Em. Laparotomies - 48
Minor: Operative vaginal deliveries - 184
     Vaginal deliveries - 1648

Fetal Medicine
Cordocentesis - 86
Chorionic Villus Sampling - 113
Amniocentesis - 109
Intra Utero Infusion - 69
High risk Obstetrics
   - Obstetric ultrasound - 3600
   - NST - 2684
   - BPP - 2465
Gynae Ultrasound - 184
Ovarian cyst aspirations - 49

Laboratory Investigations
Urine Pregnancy test - 2650
Haemoglobin - 3600
Blood Groups - 3165
Urine Alb./ Sug. - 48600

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 with 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 (2006-2007)

<table>
<thead>
<tr>
<th>Methods</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>CuT</td>
<td>684</td>
</tr>
<tr>
<td>Oral Pills (13 cycles=1 user)</td>
<td>cycles 312</td>
</tr>
<tr>
<td>Conventional Contraceptives (72 pieces=1 user)</td>
<td>pieces 69384</td>
</tr>
</tbody>
</table>

Sterilisation
(a) Tubectomy - 713
(b) Vasectomy - 37

Note: Family Planning Methods are free of target
Maternal and Child Health (MCH) Performances (2006-2007)

<table>
<thead>
<tr>
<th>Services</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pregnant Women</td>
<td></td>
</tr>
<tr>
<td>TT(Mothers)(2\textsuperscript{nd} or Booster)</td>
<td>1734</td>
</tr>
<tr>
<td>Children (0-1) Year</td>
<td></td>
</tr>
<tr>
<td>DPT (3\textsuperscript{rd} Dose)</td>
<td>1178</td>
</tr>
<tr>
<td>Polio (3\textsuperscript{rd} Dose)</td>
<td>1234</td>
</tr>
<tr>
<td>BCG</td>
<td>2167</td>
</tr>
<tr>
<td>Measles</td>
<td>1374</td>
</tr>
<tr>
<td>Children under five years</td>
<td></td>
</tr>
<tr>
<td>DT</td>
<td>713</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.

4. Reproductive Child Health camps organized by the Directorate of Family Welfare at different hospitals of Delhi Govt.

AWARDS AND HONOURS

Dr. Suneeta Mittal is Editor, Reproductive Health Library, WHO; Chairperson, North Zone, ISOPARB; Fellow of Royal College of Obstetricians & Gynaecologists, London; Vice-President, Federation of Obstetricians & Gynaecologists of India; Vice-President, Indian Society for Study of Reproduction & Fertility; Short Term Consultant for Technical assistance to WHO on Safe abortion in DPRK; awarded Dr Manju Gita Mishra Award – Annual ISOPARB Symposium, best performance North Zone, 2008; Member of WHO Fertility Regulation Group, WHO Task Force on Post-Ovulatory Methods of Contraception, International Clinical Epidemiology Network (INCLEN), Indian Clinical Epidemiology Network (IndiaCLEN), Global Network for Perinatal & Reproductive Health (GNPRH), Asia Pacific Network for Promotion of Emergency contraception (APNEC), International Consortium for Medical Abortion (ICMA), Core Assessment committee, ICMR; Member, Regional Technical Advisory Group (RTAG) on Adolescent Health Development (AHD) of the WHO; Member, Editorial Board, Asian Journal of Obst. & Gynae; Obstetrics & Gynaecology today; Samachar, MOHFW, Govt. of India; Scientific Communications in Obstetrics & Gynaecology; Chairperson at the 14\textsuperscript{th} World Congress on In Vitro Fertilization and 3 World Congress on In Vitro Maturation organized by the International Solciety for IVF, 15-19 September 2007 at Montreal Canada; Chairperson of Indian delegation for the 24th Meeting of ISO/TC/157: Mechanical Contraceptives, 8-12 October 2007 at Jeju Island, South Korea.Appointed as a Consultant in the panel of consultants/experts to extend medical advice to the Vice President of India; Reviewer for

Dr. Alka Kriplani is Editor, Asian Journal Obs & Gynae Practice; Vice President, North Zone, IMAGES (Indian Society of Minimal Access and Gynaecological Endoscopic Surgery) since 2003; Member Governing Council ICOMG, 2006-08; Member, Managing Committee, Indian Association of Gynaecological Endocopists, 2007-09; Chairperson, Journal Committee, IAGE (Indian Association of Gynaecological Endoscopists), 2007; Chairperson, North Zone IAGE, 2007; Awarded Rashtriya Gaurav Award for meritorious services, outstanding performance and remarkable role by India International Friendship Society, 27 Nov 2007; MAAMS distinguished service Award 2007 (IMA Academy of Medical specialties) at Annual National Conference of IMAAMS–AMSCON 2007, New Delhi, 9 Dec 2007; Member editorial board of 4 journal.

Dr. Sunesh Kumar is Member, Project Advisory Committee on Screening for Common Cancers in three districts of Himachal Pradesh being conducted by ICMR

Dr.Deepika Deka is Chairman, Genetics & Fetal Medicine Committee (FOGSI) (2007-10) and Perinatal Medicine Committee Assoc. Obst. & Gynae of Delhi (AOGD); Executive Member of of FOGSI Imaging Sciences Committee and International Exchange Committee; UNFPA Technical Advisory Committee, Member for Maternal Morbidity; Peer Reviewer for Journal of Obstetrics & Gynaecology of India; Editorial Board Member of Obs & Gynae Today; Member, Staff Council, 2006-07; Consultant incharge of Fetal Medicine OT and Obst. & Gynae OPD of department; UG & PG Examiner for Delhi Univ., Gauhati University, MAHE, Calcutta University –also (PhD), Bharti Vidhyapeeth - Pune, National Board of Examinations, AMU, Faridkot, Utkal Universities etc.

Dr. Neerja Bhatla is Founder-President, AOGIN-India (Asia Oceania research organisation on Genital Infections and Neoplasia, India Chapter); Member, Scientific Committee & Abstract Reviewer, 24th International Papillomavirus Conference, Beijing, November 2007; Member, Scientific Advisory Committee, PATH.

Dr. Neena Malhotra received Boyscast Fellowship of the Department of Science and Technology, GoI, tenable at Reproductive Research Center, Cleveland Clinic Foundation, Cleveland, Ohio, USA (April-Nov 2007) and was Visiting Fellow at the Yale Fertility Center, Department of Obstetrics and Gynaecology, Yale Medical School, New Haven, Connecticut, USA (October 2007)

Dr. Vatsla Dadhwal received Fellowship of Indian College of Obstetricains & Gynaecologists

Dr. Nutan Agarwal awarded WHO fellowship 2006-2007 in Australia; Member, National Academy of Medical Sciences, Oct 2007; Fellow, International Medical Sciences Academy, October 2007.

Dr. J.B.Sharma received AMRUT MODY Unichem Prize of ICMR on Maternal and Child Health for research contribution in the field of Management of Anemia During Pregnancy by Honourable Minister of Health and Family Welfare Govt. Of India on 6th July 2007; Co-ordinator for CORONIS
TRIAL on Caesarean section with National Perinatal Epidemiology Unit Oxford; Reviewer for following journals (i) International Journal of Gynecology and Obstetrics, (ii) Indian Journal of Medical Research, (iii) Indian Journal Of Medical Sciences, (iv) Archives in Obstetrics & Gynaecology; (v) BMC online, Journal of Obstetrics & Gynaecological Research; Editor, Obs and Gynae Today; Member, Editorial board of (i) International Journal of Gynaecology & Obstetrics, (ii) Indian Journal of Gynaecological Endoscopy, (iii) Asian Journal of Obstetrics and Gynaecology, (iv) Indian Medical Journal; Representative for AICC RCOG North Zone Representative Committee

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. Helena von Hertzen, WHO, Switzerland
2. Dr. Jeffrey M. Smith, Johns Hopkins University, USA
3. Dr. Shailaja Nair, London Women’s Clinic, UK
4. Prof. S. Kennedy, Oxford University, UK

WHO fellows
2. Dr. Nandini, Sadar Hospital, Bihar 19.2.07 – 18.8.07
3. Dr. Sumitra Bachani, CGHS Maternity Hospital, New Delhi 19.2.07 – 18.8.07
4. Dr. Lumrylyne Myliem Umlong, Ganesh Das Hospital, Meghalya 19.2.07 – 11.8.07
5. Dr. Rajesh Panicker, INHS Sanjivini, Naval Base, Kochi, Kerala 12.2.07 – 11.8.07
6. Dr. Rajesh Kumari, Safdarjung Hospital, New Delhi 12.2.07 – 11.8.07
7. Dr. Sushma Rani, Safdarjung Hospital, New Delhi 12.2.07 – 11.8.07
8. Dr. Bindu Bajaj, Safdarjung Hospital, New Delhi 27.1.07 – 26.6.07
9. Dr. Rita Ranjan, DDU Hospital, New Delhi 22.1.07 – 21.7.07
10. Dr. Sujoy Mitra, Air Force Hospital, West Bengal 19.2.07 – 18.8.07
11. Dr. Srinivas Sangisapum, Kerala 1.10.07 – 31.3.08
12. Dr. Renu Arora, Safdarjung Hospital, New Delhi 9.9.07 – 8.4.08

Short Term Training
1. Mr. Bader Mohammed Salim Al-Amri, Sultanate of Oman 7.5.07 – 18.5.07
2. Mr. Khalfan Nasser Hamood Al-Abadli, Sultanate of Oman 7.5.07 – 18.5.07
3. Mr. Abdullali Mohd. Khamis Al-Alawi, Sultanate of Oman 7.5.07 – 18.5.07
4. Dr. Hanoon P. Pokharel, B.P. Korala, Nepal 1.8.07 – 31.10.07
5. Mr. Ashwin Kumaria, India 24.10.07 – 31.10.07
6. Stephanie Yau, Australia – 6.11.07 – 13.11.07
7. Phoebe Alice Thwaites, Australia – 6.11.07 – 13.11.07
8. Aaron Chidgey, Australia – 6.11.07 – 13.11-07
9. Annabelle Kamrash, Australia – 13.11.07 – 2.11.07
10. Dr. Kim SinII, DPR Korea – 3.3. 08 - 31.5.08
11. Dr. Kangsun Chaul, DPR Korea – 3.3. 08 - 31.5.08
12. Dr. Kim In Hyok, DPR Korea – 3.3. 08 - 31.5.08
9.23 Orthopaedics

<table>
<thead>
<tr>
<th>Professor &amp; Head</th>
<th>Prakash P. Kotwal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professors</td>
<td></td>
</tr>
<tr>
<td>Shishir Rastogi</td>
<td>Arvind Jayaswal</td>
</tr>
<tr>
<td></td>
<td>Rajesh Malhotra</td>
</tr>
<tr>
<td>Additional Professor</td>
<td></td>
</tr>
<tr>
<td>Hira Lal Nag</td>
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</tr>
<tr>
<td>Associate Professors</td>
<td></td>
</tr>
<tr>
<td>Ravi Mittal</td>
<td>Chandrashekhar Yadav</td>
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<tr>
<td>Assistant Professors</td>
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<tr>
<td>Shah Alam Khan</td>
<td>Vijay Kumar</td>
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EDUCATION

Short and long term training
The department hosts many short and long term observers in Spinal surgery, Sports Medicine, Hand surgery, Joint Replacement surgery and General orthopaedics. These observers are from several parts of India and abroad.

Continuing Medical Education

Dr. P.P. Kotwal
1. Chairman, Principles A.O. Course, New Delhi; Feb. 2008. This A.O. Course was organised under the aegis of A.O. Education, Switzerland

Dr. S. Rastogi
1. CME Programme of Orthopedic Club (UP chapter of IOA) on 15th June, 2007 at Jhansi. – Management of Hip fractures in geriatric age group.
3. As a faculty for DNB-CME teaching programme in Orthopaedics at Central Institute of Orthopedics on 22.2.’08 at Safdarjung Hospital: Taught: Examination of Hip Joint.

Dr. H.L. Nag
1. “Arthroscopy and rehabilitation” – Guest Lecture by Dr. H.L. Nag at Indraprastha association of rehabilitation medicine: Inaugural Conference and CME, New Delhi, April 7, 2007.


Dr. Ravi Mittal
1. AO fracture classification at AO: Basic Course at New Delhi, Feb19-21, 2008
2. Infection after fracture surgery at AO: Basic Course at New Delhi, Feb19-21, 2008
3. ‘Clinical examination’ for DNB students at Safdarjung Hospital on February 23, 2008

NATIONAL AND INTERNATIONAL CONFERENCES

Dr. P.P. Kotwal
14. Performed demonstration surgery on cadavers during the Pre-Conference Workshop at the 52nd Annual Conference of the Indian Orthopaedic Association held at Kolkata, Dec. 2007

Dr. S. Rastogi
2. Speaker in the international symposium on Nimesulide of University of Novi Sad held in Belgrade from 14-15th May 2007- Lecture on: Clinical studies on Nimesulide in India
3. 9th Annual Meeting of Indian Orthopaedics Society (UK) on 30th June 2007 – Lecture on: Current status of Limb Salvage in Malignant Bone Tumours,
5. Flap course for trauma surgeon’s - Principles of soft tissue reconstruction learning in cadavers as faculty on 19-21st October 2007, Sri Sakthi Hospital, Tirunelveli, India. – Delivered lectures on: i) Management of open fractures of upper limb. ii) Management of open fracture of lower limb.
6. 7th Annual Conference Central Zone of Indian Orthopaedic Association (CEZCON 2007) at B.R. Ambedkar Memorial Hospital, Raipur from 26-28th October 2007. – delivered guest lecture on: Musculoskeletal Malignancies in Elderly People.


13. Faculty in Workshop on the principles of Practice of orth. research held on 24.3.’08 at UCMS, New Delhi.

14. As Indian Investigator Meeting in CV185-047 meeting held on 23rd July 2007 at Mumbai.


Dr. A. Jayaswal
4. “Vertebroplasty & Complication”, Hands on Cadaveri Workshop+Certification Course on Kyphoplasty” at AIIMS New Delhi on 5-6 May 2007
16. “Minimally Invasive Surgery for Lumbar Disc” Faculty Lecture at Pre conference workshops on “Minimally Invasive surgery & Motron Preservation in Spine” at Combined spine Society of Europe (SSE) & (ASSI) Associate of Spine Surgeons of India (ASSI) Instructional Course on Spine ICS 2007 Goa on 9th August 2007
17. “Minimally Invasive Lumbar Instrumentation & Fusion” Faculty Lecture at Pre conference workshop on “Advances in Spine surgery & Motion Preservation in Spine” at Goa on 9th August 2007
19. “Vertebroplasty Vs Kyphoplasty” Faculty Lecture at Cadaveric Workshop & Course on Kyphoplasty at Chennai 9 September 2007
21. “Scoliosis – Posterior Correction & Instrumentation” Video demonstration & Faculty Lecture at “Conference on Spinal Deformities” ISIC New Delhi 5-7 October 2007
24. “Posterior Hardware Complications in T-L Spine” Faculty Lecture at “Complication in Spine Surgery organized by Musculoskeletal Education & Research Centre (MERC), Las Vegas USA 8-10 November 2007
25. “TB Spine” Faculty Lecture by at “Complication in Spine Surgery organized by Musculoskeletal Education & Research Centre (MERC), Las Vegas USA 8-10 November 2007
27. Invited Lecture “Mini Open Pedicle Screw fixation & Interbody Fusion” Lecture at “Advanced Spine Care- MISS” 30th November 2007 at New Delhi


35. “Minimally Access Surgery for low grad Spondylololisthesis” invited Faculty lecture at “Combined Instructional Course of International Society for Study of Lumbar spine (ISSLS) & Association of Spine Surgeons of India (ASSI) & XXI Annual Conference of Association of Spine Surgeons of India (ASSICON 2008) 17-20 January 2008 at Coimbatore Hospital


42. “Failed Back Syndrome” “Spine Update” at National Hospital of Srilanka, Colombo- 26-27 February 2008


Dr. R. Malhotra
3. “Redefining Pain Management-Lornoxicam” lecture delivered at India Habitat Centre on 5.08.2007.
6. “Role of orthopedic surgeon in management of osteoporosis – Are we missing the opportunity?” at Hotel Taj, New Delhi, on Sep. 30, 2007.
16. “MIPPO Vs ORIF” in DEBATE Dr. Lee vs Dr. Malhotra, IOACON 2007 held at Science City - Kolkata on December 3, 2007.
“Classification of long bone fractures with prognostic values” in Advances in Intramedullary Nailing in IOACON 2007 “Workshop on Advances in Intramedullary Nailing” held at Science City - Kolkata on December 4, 2007.


“TRAP approach for intercondylar fractures of humerus” in INVITED CONFERENCE LECTURE in IOACON 2007 held at Science City - Kolkata on December 6, 2007.

“Templating” in Delhi Arthroplasty Course (Basic) held at Ethicon Institute of Surgical Education (Johnsons & Johnsons) New Delhi on 17.02.2008.

“The Valgus Knee – Tips for correction” in Delhi Arthroplasty Course (Basic) at Ethicon Institute of Surgical Education (Johnsons & Johnsons) New Delhi on 17.02.2008.

“Revision THR” in 3rd Annual Conference Indian Railway Orthopaedic Association (IROA) at Rail Museum, Chanakyapuri, New Delhi on 15-16 March, 2008.

Faculty- “AO Advance Course” held at Hotel Grand, New Delhi, on July 29-31, 2007.

MIDCON 2007 – Midterm Conference of Delhi Orthopedic Association held at India Habitat Centre, New Delhi, on Aug 5, 2007.

Panelist in “Panel Discussion on Osteoporosis” organized by ISBMR on the occasion of Release of Book on Osteoporosis by Hon’ble Minister for Mrs. Renuka Chowdhury at Hotel Shangri La, New Delhi, on 21.04.2007.

Penalist in “Fixed Drug Combinations of COX inhibitors, analgesics, muscle relaxants and proteolytic enzymes for inflammation and pain” In, Brainstorming Workshop on Rationality Assessment and Guidelines for Fixed Dose Combinations, sponsored by World Health Organization held at AIIMS, New Delhi, on June 26, 2007.

Moderator for session on “Hip & Knee Arthroplasty” Case Discussion during the DOA at India Habitat Centre, New Delhi on 05.08.2007.

Penalist for “Discussion with the Bosses!” In “Dissection Hall to Operation Theater” Conference at Maulana Azad Medical College and Sant Parmanand Hospital on September 8, 2007.


Faculty in IOACON 2007- Chairperson for the “Session IV: Difficult Scenarios” in IOACON 2007 held at Science City - Kolkata on December 3, 2007.

Faculty in the 15th Annual Conference of Delhi Orthopaedic Association (DOACON) held at National Science Centre, Pragati Maidan, New Delhi on January 05-06, 2008. Panelist for “Fire the Panel an Interactive Session” Case Discussion during 15th Annual Conference of Delhi Orthopaedic Association (DOACON), Pragati Maidan, New Delhi on 05.01.2008.

Moderator for session III “Arthroplasty” Case Discussion during the 15th Annual Conference of Delhi Orthopaedic Association (DOACON) held at National Science Centre, Pragati Maidan, New Delhi on 06.01.2008.

Faculty in DNB-CME held at Safdarjung Hospital, New Delhi on February 23, 2008.

Faculty in the International Spine and Spinal Injuries Conference (ISSICON) For Panel discussion on “Role of Stem Cells in Spinal Cord Injury.” panelists- Dr. Ekran Kaptanoglu, Prof. Alfredo
Dr. H.L. Nag

Dr. C.S. Yadav
1. Large diameter head in THR. NZIOACON April 2007, CMC Ludhiana
3. Large diameter head in THR.(What we have achieved?) Workshop by Bihar Orthopaedics Association, Patna, 26TH Aug. 2007
4. Over view if Arthritis & Joint Replacement Arthroplasty, Gymkhana Club, New Delhi 31-08-07
5. Management of infection in THR (Main Conference) IOACON, Calcutta, 2007
7. Surgical techniques in cemented THR, Pre-conference workshop, IOACON, Calcutta, 2007
8. Surface Arthroplasty of Hip or Headless Chicken, BOACON, Bhagalpur,, Feb 2007

Dr. Ravi Mittal
2. MRI of knee at DOACON 2007 at Delhi Jan 5-6, 2008
3. ACL radiology and its correlation with arthroscopy at Gangaram Hospital, New Delhi on March 2, 2008
Dr. Shah Alam Khan

2. Faculty for the CME in Orthopaedics organised by the National Board of Examinations of India, Safdarjung Hospital, New Delhi on February 23-24, 2008.
3. Endoprosthetic Replacement on Giant Cell Tumors, Annual Conference of the UP Chapter of Indian Orthopaedics Association, held in Aligarh on February 1-3, 2008.
5. Examination of Bone Tumors, UP Postgraduate Instructional Course Lectures, Jhansi, 2-4 November 2007.
8. 72nd Annual Conference of the American Academy of Orthopaedic Surgeons Chicago, February 13-17, 2007, Presented a paper entitled Ankle function following Fibular Tumors – A Clinical Study

Dr. Vijay Kumar


RESEARCH

Funded Projects

Ongoing

1. Role of free radical scavengers and the effect of antioxidants on their levels in patients with ankylosing spondylitis—to investigate the possible role of antioxidants as therapeutic agents in ankylosing spondylitis. Dr A. Jayaswal. Funded by ICMR, 3 years (23/12/2004 to 22/12/2007).
2. A new hip hemiarthroplasty option based on femoral stem design suitable for the morphology of proximal femur of elderly Indian population. Dr. R. Malhotra. Funded by CSIR, 3 years (June 2005-June 2008). Funds: Rs. 23.33 lakhs.
4. Clinical and electrophysiological recovery following endoscopic or open carpal tunnel release for carpal tunnel syndrome. Dr. R. Malhotra. Funded by ICMR. 3.5 years. Funds: Rs. 21 lakhs
5. A new hip hemiarthroplasty option based on femoral stem design suitable for the morphology of proximal femur of elderly Indian population. Dr. R. Malhotra. Funded by CSIR.
Departmental Projects

Completed
1. Arthroscopic and MRI correlation of meniscal lesions in ACL deficient knee
2. MRI evaluation of gleno humeral instability
3. Arthroscopic and MRI correlation of meniscal lesions in ACL deficient knee
4. MRI evaluation of gleno humeral instability

Ongoing
1. Arthroscopic assessment of the extent of Bankart lesion in acute traumatic shoulder dislocation and radiological correlation
2. Functional outcome after arthroscopic assisted miniopen rotator cuff repair
3. MRI evaluation of gleno humeral instability
4. Comparison of Nitroglycerin and Diltiazem as adjuncts to Lignocane in intravenous regional Anaesthesia
5. Clinical prognostic factors in Osteosarcoma
7. Thesis co guide - Effect of intra articular pressure, post comminution & Gordon’s alignment index on the management of intracapsulae fracture neck femur
8. Arthroscopic assessment of the extent of Bankart lesion in acute traumatic shoulder dislocation and radiological correlation
9. Functional outcome after arthroscopic assisted miniopen rotator cuff repair
10. MRI evaluation of gleno humeral instability
11. Project entitled, “Biodegradable Polymer Composite Bone Scaffolds by Microcellular Injection Mould Technique” accepted and funded by the Department of Science & Technology, Government of India. Project is in collaboration with the IIT, Delhi. Cost Rs. 25 Lacks/ year, DBT, 2006 onwards.
13. Co-Guide for MS Orthopaedic thesis entitled, Role of PET-CT in Osteosarcoma for initial staging and chemotherapy response evaluation: Comparison with conventional radiological modalities (MRI Scan, CT Scan & Bone Scan) and Histopathological tumor necrosis. Project underway)
15. A new hip hemi-arthroplasty option based on femoral stem design suitable for the morphology of proximal femur of elderly Indian population – CSIR Project.

Collaborative Projects
1. Prevalence of vitamin D deficiency in atraumatic hip fracture.
2. Efficacy & safety studies of medicinal plant used in Unani system in inflammatory arthritis
PUBLICATIONS

Dr. P.P. Kotwal

Chapters in Books

Dr. S. Rastogi

Dr. A. Jayaswal

Dr. R. Malhotra
24 Bhavuk Garg, Rajesh Malhotra: Pioneers in Orthopaedics (Ambroise Pare 1510 - 1590); Orthopedics Today 2008: Vol. X No. 1; 42.
26 Malhotra R: Osteoporotic Fractures: Need to act before it is too late! Orthopedics Today 2007: Vol. IX No. 2; 63-64.
27 Malhotra R: Road to Predition: Orthopedics Today 2007: Vol. IX No. 3; 112.

Dr. H.L. Nag
2. Sameer N, Ravi M, Nag HL, Raju S. “Arthroscopic and MRI evaluation of meniscal lesions in chronic ACL deficient knee” Arthroscopy (accepted)

Chapters in Books

Dr. C.S. Yadav
4. Neogi DS, Yadav CS, Rastogi S. Methicillin resistant S Aureus site infection following primary total hip arthroplasty, JBJS (Br), March 2008

Abstracts
10. Devdatta SN, CSYadav, Khan SA. Total hip replacement in active tuberculosis – A myth or reality. Souvenir of 52nd Annual conference of IOACON on 5-8th Dec 2007 at Kolkata

Dr. Ravi Mittal
2. Sameer N, Ravi Mittal, HL Nag, Raju Sharma. Arthroscopic and MRI evaluation of meniscus lesions in chronic ACL deficient knee. -accepted for publication in Arthroscopy”.
3. Yeow Wai Lim, Roger P van Riet, Ravi Mittal, Gregory I Bain. Pattern of osteophytes distribution in primary osteoarthritis of the elbow. Accepted in Journal of Shoulder and Elbow Surgery

Dr. Shah Alam Khan

Books

PATIENT CARE

• At Jawaharlal Nehru Stadium, Lodhi Road, Dr. H.L. Nag attends the injured athletes and Sports personnels every Monday afternoon as the Honorary Consultant of Sports Authority of India (SAI).

Community Service

• On DD News Channel TV Programme – “Health show”, Dr. H.L. Nag discussed and deliberated on “Arthrities – causes and management” – 4 to 4.30 pm on 29/03/2008.

The department of Orthopaedics is one of the finest departments in the country. State of the art surgery is being performed in all specialities of Orthopaedics and Traumatology. The department has separate operation theatre complex which is fully equipped with all the modern equipments and instruments. Effective control of infection in the operation theatres has lead to aseptic surgery. The department has a spinal surgery centre of excellence in the entire North India. It has also developed the specialty of Hand Surgery, a facility which is available at very few centres in the country particularly in the North India. The department runs various speciality clinics. The department also has an excellent physical therapy and occupational therapy set up.

AWARDS AND HONOURS

Dr. P.P. Kotwal
1. Appointed on the panel of Consultants of experts to extend medical advice to the Hon’ble Vice President of India, Oct. 2007.
2. Expert Member, Selection Committee of the North Eastern Indira Gandhi Regional Institute of Health and Medical Sciences, (NEIGRIHMS), Shillong to select Professor of Orthopaedics, April 2007.
3. Nominated by the National Centre for Antarctic and Ocean Research, Goa (under the Ministry of Earth Sciences, Govt. of India) to represent India at the “Workshop on Research in Medicine in Antarctica” held at the National Institute of Polar Research, Tokyo, Japan in Aug. 2007.
4. Nominated as an Expert member by the Union Public Service Commission (UPSC), New Delhi to assist in the selection of Specialist Grade II (Jr.Scale) in Orthopaedics, Oct. 2007.
5. Expert Member, Selection Committee constituted by the Govt. of Madhya Pradesh to select Assistant Professors in Orthopaedics in the Medical Colleges of Madhya Pradesh, March 2008.
6. Nominated as a member of Board of Studies in Orthopaedics by the Barkatullah University, Bhopal, April 2007.
7. Expert Member, Screening Committee for evaluation of National Awards for the Empowerment of Persons with Disabilities, under the Ministry of Social Justice & Empowerment, Govt. of India; Aug. 2007
8. Member, Technical Specification Committee or procurement of equipment for JDWNR Hospital, Thimpu and Regional Referral Hospital, Mongar, Bhutan; July 2007.
9. Nominated as a Faculty member for the A.O. Advanced Course in India, Organised by the A.O. International, Switzerland. The Course was held at New Delhi in July 2007.
10. Member, Committee regarding alleged negligence in providing medical treatment to Shri Ravinder Prasad, May 2007.

Dr. S. Rastogi
1. Nominated Chairman of IOA Instructional Course Lectures (IOAICL) of Indian Orthopaedic Association.
2. Chairman, Foreign Fellowship committee of Indian Orthopaedic Association.

Dr. A. Jayaswal
1. Member of Board of Directors of World Spine Society (WSS).
2. Executive Committee Member of (i) Pacific Asia Society for Minimally Invasive Spine Surgery (PASMISS); (ii) Asian Academy of minimally Invasive Spine Surgery (AAMISS); (iii) Spine Section of Asia Pacific Orthopaedic Association (APOA); (iv) World Society for Endoscopic Navigated & Minimally Invasive Spine Surgery (WENMISS).
3. President of Association of Spine Surgeons of India (ASSI); President of Delhi Spine Society; Vice President Spinal Cord Society of India

Dr. R. Malhotra
1. Adjunct Faculty CMET, AIIMS
2. Editor, “Orthopaedics Today”:
4. Member, Editorial Board, Neurology India
5. All India Radio Program on “Bone Banking” on 28.03.2007 (Wednesday) at 2.00 PM in New Delhi; Regional Advisory Board Member – Ortho Hyperguide – A web based global Orthopedics learning portal
Dr. H.L. Nag
2. Nominated as the 1st Secretary General of Indian Federation of Sports Medicine (IFSM)
3. Medical Council of India (MCI) nominated member of the “Board of speciality of Sports Medicine” for periodic update of curriculum of Sports Medicine Course in India.
4. Nominated as Honorary Member of the “Editorial Board of International Journal of Biosciences and Technology”
5. Nominated as board member of “Elsevier Clinical Advisory Boards” for the clinical updates for Sports Medicine and Arthroscopy
6. Honorary Consultant of Sports Authority of India (SAI) for the care and treatment of injured athletes and sport personnel.
7. Reviewer for (i) Indian Journal of Orthopaedics, (ii) Indian Journal of Medical Research, and (iii) Indian Journal of Physical Medicine and Rehabilitation
8. Member, Doctoral Committee, Ph.D student at AIIMS.

Dr. C.S. Yadav
1. Elected representative of Delhi chapter of IOA, Member national executive IOA
2. Reviewer Indian J Paediatrics

Dr. Shah Alam Khan
1. Elected as a co-opted member on the Editorial board of the Indian Journal of Orthopaedics
5. Selected as Member, Expert Group of Indian Council of Medical Research (ICMR) Co-ordinated project, Nutrition Profile of Assam, Manipur & Meghalaya. Attended the meeting & Training Workshop held in New Delhi on September 8, 2007.
6. Selected as an Expert Member, Review Group of ICMR on the project entitled, Developing Capacity Building of Primitive Tribes for Health Care. Attended the Review Group meeting in ICMR, New Delhi held on Sep 16th, 2007.

Dr. Ravi Mittal
1. AO fellowship at Städtisches Klinikum at Karlsruhe, Germany- 3 September to 12 October 2007
4. Member of executive committee of Indian Federation of Sports Medicine for 2007-2008
5. Member of the MBBS curriculum at AIIMS for 2008
6. Adjunct faculty at CMET, AIIMS since 2008

Dr. Vijay Kumar
1. Membership of the Royal College of Surgeons and Physicians of Glasgow, UK.
SIGNIFICANT EVENTS

Dr. A. Jayaswal
1. Current President of Association of Spine Surgeons of India (ASSI), President Spine Society Delhi Chapter & Vice President of the Spinal Cord Society of India.
2. Delivered the Presidential address at the XXI Annual Conference of Association of Spine Surgeons of India (ASSICON 2008) 18 January 2008 at Coimbatore.
4. Invited Faculty to Three International Spine Conferences - held in London, Las Vegas (US), Hochi Minh City (Vietnam)
5. Nominated to organize the Scoliosis Research Society (USA) meeting in under the SRS World wide programme – SRS, in India – New Delhi Oct. 2-4 2008
7. Nominated Coordinator for Conducting Cadaveric Workshops & Certification Course of Kyphoplasty in India – organized at Delhi & Chennai.
10. Two scientific papers awarded at National conferences, one Best paper and poster awards.
11. Invited Panelist at 4 Conferences; Chairperson/Moderator of sessions at Conferences: 5 national, 3 international.

Dr. R. Malhotra
1. Member of working group for “ICMR-WHO Workshop on Development of feasibility Modules on Road Traffic Injury Surveillance”, New Delhi.
2. Member of “Advisory Group for Research in Accidents and Injuries (AGRAI) of ICMR-”, New Delhi.
3. 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.
4. Member Advisory Group on Determination of Musculoskeletal Burden in Indian Population.
5. Member Advisory Group on Determination of Normative Laboratory Parameters in Indian Population.
6. Member Expert Group for ICMR Task Force on Cancer Management Guidelines
7. Member Expert Group for ICMR Task Force on Osteoporosis.
8. Expert/Chairman Project Review Committee of ICMR for funding of projects in the field of NCD, BMS and Biomedical Engineering since 1994.
9. 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.
13. Member of “Staff Council”.
14. Member of Advisory Committee for the Central Workshop (orthopedic implants & devices) at the All India Institute of Medical for the year of 2007, 2008.
15. Member Department Store Purchase Committee.
16. Member of the Education and Community Development body of the AO India Council for the year of 2007.
18. Member of the Collaborative for the International Hip Fracture Research Collaborative (IHFRC) for the year, 2007.
20. Consultant for the Expert Group for New Millennium Indian Technology
22. Member of Doctoral Committee for “Bone Tissue Engineering by Growing and Differentiating Mesenchymal Stem Cell on Biocomposite Scaffold” candidate Mr. Krishan Gopal Jain, PhD student in Stem Cell Facility, Department of CTVS, at All India Institute of Medical Sciences.
23. Attended the National Seminar on the promotion of voluntary blood donations on National Voluntary Blood Donation Day on 1st Oct. 2007 at Gulmohar Hall, India Habitat Center, New Delhi.
24. Attended PRC meeting (Non Communicable Diseases - NCD) of Indian Council of Medical Research (ICMR) for reviewing projects submitted to ICMR as expert (NCD) of ICMR on 05.11.2007.
26. Internal Examiner for MS (Orthopaedics) in All India Institute of Medical Sciences, New Delhi for the Examination held in May 2007.
27. Examiner for IIT for M. Tech thesis (Evaluation) for Mr. SS Pathan, Mr. Sagar Umhale, Mr. Tushar, Mr. KL Mishra on 24.05.2007 in Indian Institution of Technology, New Delhi.

Dr. H.L. Nag
1. Sent by Medical Council of India for the inspection of Santokba Durlabhji Memorial Institution Research Institute for DNB Course, Jaipur, Rajasthan on May 12 – 14, 2007.
2. Technical Expert Committee for the procurement of equipments for JDWNR Hospital, Thimpu and Regional Referral Hospital at Mongare, Bhutan.
3. Member Expert Committee of U.G.C did inspection of Institute of Medical Sciences and SOM Hospital, Bhubaneshwar, Orissa for inclusion under ambit of Siksha ‘O’ Anusamdhani, Khandagiri Square Deemed University.
Dr. C.S. Yadav
1. Acted as Expert for the selection of Lectures in Orthopaedics in various medical colleges of UP, Public Service Commission Allahabad, Jan 2007
2. Reviewer of ICMR Projects
3. Appointed as paper setter & Examiner for MS(Ortho) for L N Mithila University
4. Reviewer for Indian Journal of Pediatrics
5. Did AO Tips for Trainers Course, Chennai, Jan 2007
6. Appraiser for DNB Hindu Rao Hospital
7. Examiner & Paper setter for M.Ch in Surgery, MBBS & Paper setter, AIIMS students
8. Examiner & Paper setter Master in Physiotherapy for Jamia University
10. Acted as Penalist, Brain storming Workshop on Fixed drugs combinations, 25th to 26th June 2007
12. Acted as Demonstrator, cemented THR, Pre-conference workshop, IOACON, Calcutta, 2007
13. Chaired a session, BOACON, Bhagalpur, Feb 2007
15. Appointed as Delhi State Representative for IOA national executive

Dr. Shah Alam Khan
1. Attended the workshop on Orthopaedic Research and Evidence Based Medicine, at the University College of Medical Sciences, New Delhi on March 24, 2008.
2. Served as a Table instructor at the Basic AO Course, organized by the AO Group, Switzerland in New Delhi, February 19-21, 2008.
3. Attended the national meet of Editors of Indian Biomedical Journals organized by the US – India Science & Technology Forum in the AIIMS, New Delhi, February 8-11, 2008.

Dr. Vijay Kumar
1. Faculty in “Delhi Arthroplasty course” 17th February 2008, New Delhi


**9.24 Otorhinolaryngology (ENT)**

**Professor and Head**  
Ramesh C. Deka

**Professors**  
Sudhir Bahadur  
(Superannuated on 29.2.08)  
Suresh C. Sharma  
(On assignment)

**Associate Professors**  
Kumud K. Handa  
Alok Thakar

**Assistant Professors**  
Rakesh Kumar  
Venkatakarthikeyan C.

**EDUCATION**

The departmental faculty has actively participated in the academic activities of undergraduate, postgraduate and paramedical teaching

**Continuing Medical Education**

*CME programmes organized*

- The department organized and hosted the monthly meeting of the Delhi Chapter of Association of Otolaryngologists of India at AIIMS in July 2007.

**Lectures delivered**

**Professor R.C. Deka**

- ‘Need of quality Control of Health Care Institutions and the Role of such an organization’, expert talk while chairing the session in “National Health Accreditation–Achieving Excellence in Health Care in India—Regional ICHA Convention at Bangalore on 21st April 2007.
- ‘Health Care Management—Need in North Eastern Region’, S.M. Medical college and Hospital, Panikhaiti, Gauhati; 29th March 2008.
**Professor Sudhir Bahadur**

**Professor S.C. Sharma**
‘Management of carotid body tumours’. “Professor R. N. Misra Memorial oration” on 20th August 2007, At King George Medical University & G.M. associated Hospital, Lucknow.

**Dr K.K. Handa**
- “Surgical management of Sleep Medicine” at CCR in AIIMS on 5th February 2008
- “Spasmodic Dysphonia” at Surgical workshop on Phonosurgery, Kolhapur, 8–9 March 2008.

**Dr Alok Thakar**
- ‘Stapedotomy, glomus Jugulare tumour’—Surgical Video presentation, XIXth advanced course in Microsurgery of the Ear, Sir Ganga Ram Hospital, Delhi, March 2008.

**Dr Rakesh Kumar**
- ‘Rhinological diseases for GP and ENT surgeons’ at Mata Chanan Devi Hospital, New Delhi, in March 2008.
Dr C.V. Karthikeyan


**NATIONAL AND INTERNATIONAL CONFERENCES**

*Lectures delivered*

Professor R.C. Deka

- ‘Role of safe perforation in the prevention of middle ear cholesteatoma’, expert talk as a panelist in the panel discussion at 6th SAARC Otolaryngology and head and Neck surgery conference, 15–18th February 2008, Dhaka, Bangladesh.

Professor S. Bahadur

Dr K.K. Handa
• Medialisation Thyroplasty versus Type I Throplasty—Current day status. EUFOS Conference, Vienna, 3rd July 2007.
• “Fungal Ball” in the International meeting of the Fungal sinusitis group at PGIMER Chandigarh from 9–11th February 2008.
• ‘Approach to Dysphonic patient’ at workshop on Phonosurgery at Bombay Hospital from 1-2nd September 2007.

Dr Alok Thakar
• Near Total laryngectomy: a failure analysis. EUFOS conference, Vienna, July 2007
• Endoscopic Optic Nerve Decompression. 9th Annual Conference Skull Base Surgery Society of India. October 2007, New Delhi.
• Surgical Treatment of Intracranial Angiofibroma. 9th Annual Conference of the Skull Base Society of India, New Delhi, October 2007.
• Pulsatile Tinnitus. 29th Annual Conference, Neuro-otological and Equilibriometric Society of India, Kolkata, December 2007.
• Clinical Diagnosis and Treatment of Positional Vertigo. 29th Annual Conference, Neuro-otological and Equilibriometric Society of India, Kolkata, December 2007.

Dr Rakesh Kumar

Dr C.V. Karthikeyan
“Surgical management of large juvenile nasopharyngeal angiofibroma” World Federation of Neurosurgical societies, microsurgery & Endoscopic skull base cadaver workshop and 9th annual

Resident and Research Associates


**RESEARCH**

**Funded Projects**

**Completed**

1. Role of Amphotericin lavage & Corticosteroid nasal spray combination therapy in Allergic Fungal Sinusitis—Prof RC Deka. ICMR Project, 6.32 lakhs, 3 yrs.
2. Effect of electromagnetic field of mobile phones on the hearing and vestibular system in human beings—Fellow: Dr Subhalaxmi Rautray, Chief Guide: Prof RC Deka, CSIR project, 3 years.
3. Quality of life in Head and Neck Cancer following multi-modality treatment —Fellow: Dr Tapaswini Pradhan, Chief Guide: Dr S Bahadur, CSIR funded project, 3 years.

**Ongoing**

1. Role of bacterial and fungal colonizion 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.
2. ‘Role of intratympanic dexamethasone therapy in patients with tinnitus’ Prof RC Deka, ICMR project, 3 years.
3. ‘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, 3 years.
4. Phase II/III Randomized placebo controlled clinical trial of curcumin in respectable stage III & IV squamous head and neck cancers. Professor S. Bahadur/Dr A. Thakar. DBT Project Rs.43 lakhs, 3 yrs.
5. Voice changes in Presbylarynges and Disorders of central origin. Dr KK Handa, Fellow: Dr Rajiv, CSIR project, 3 years.

**Collaborative Projects**

**Ongoing**

1. Neuro-developmental disabilities in children; An INCLEN study In collaboration with International Epidemiological Clinical Network
2. Stereological study of the age related morphological and neurochemical changes in the human cochlear nucleus (with Department of Anatomy)
3. Prenatal Development and Maturation of Human Inferior Colliculus (with Department of Anatomy)

**Departmental Projects**

**Ongoing**

1. To determine the efficacy of flutamide as a tumour volume reducing agent in Nasopharyngeal angiofibroma(NPA)
2. Role of proton pump inhibitors in laryngopharyngeal reflux
3. Clinical profile of patients with laryngotracheal stenosis
4. Bilateral Submandibular duct transposition and bilateral sublingual gland excision for drooling in children
5. Comparison of various techniques of tonsillectomy in terms of post operative pain and other post operative variables
6. Oncologic efficacy and functional outcome in early and moderately advanced laryngeal and hypopharyngeal cancer using laser

**Completed**
1. Otolaryngologic and head and neck manifestations in HIV/AIDS patients
2. Ki-67 expression in retraction pocket of TM & to evaluate its effect on healing of TM.
3. Study of indications, outcome & limitations of endoscopic management of CSF rhinorrhea

**PUBLICATIONS**

**Journals**
Abstracts

Chapters in book

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, 201 patients have been subjected to Cochlear implantation at AIIMS till March, 2008. 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 40 cases have had successful cochlear implantation. All such cases are 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 Specialty Clinics– (Vertigo, Audiology, skull base, Rhinology, Voice clinics) and provides 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 & Specility Clinics**

<table>
<thead>
<tr>
<th>ENT OPD</th>
<th>New Cases: 44193</th>
</tr>
</thead>
<tbody>
<tr>
<td>Old cases: 36014</td>
<td></td>
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</tbody>
</table>

**Specialty Clinics**

- RUAS– Speech : 2456
- RUAS–Hearing : 2086
- Head & Neck Clinic : 5591
- Voice : 1589
- Vertigo : 213
- Audiology : 121
- Skull Base : 89
- Rhinology : 167

**In– Patients**

- Long Admission– 869
- Short Admission– 242

**Surgical Procedures**

- Major– 2027
- Minor– 1501
- Minor OT– 22736

**Community Services/ Camps**

The Department provides comprehensive ENT services at Primary Health Center at Ballabgharh, Haryana. In addition Dr Rakesh Kumar rendered his services in the OPD once a week at Deaf Center Gurgaon, under Haryana government.
AWARDS, HONOURS AND SIGNIFICANT EVENTS

Professor R.C. Deka is the Dean of AIIMS; founder chairman of Indian Academy of Otolaryngology– Head Neck Surgery; Inspector for Medical council of India (MCI) and National board of examinations (NBE); Chairman of the Technical advisory group for the speech and hearing handicapped to the Ministry of Social Welfare; Chairman of Sectional committee of ENT surgical instruments (MHR04) of Bureau of Indian standards; International Editorial Board Member of (i) Acta–Otolaryngologica (Stockholm), (ii) Otolaryngology– Head and Neck Surgery (USA), (iii) Otology–Neurotology (USA), (iv) Pakistan Journal of Otology; Editorial Chief of Indian J of Otology and Vertigo view point.

Professor Deka was an invited international distinguished faculty at 50th Anniversary celebration of Widex International: An International seminar on Deafness and Hearing aid technology, Copenhagen, Denmark, 10–17th June 2007 and delivered a lecture on the Deafness problem in India including Cochlear implant Surgery; distinguished national faculty and patron for the World Federation of Neurosurgical societies, microsurgery & Endoscopic skull base cadaver workshop and 9th annual conference of skull base society of India and international skull base CME, 26–28th October 2007, AIIMS, New Delhi and he chaired a scientific session on “Endoscopic surgery of Paranasal sinuses and anterior skull base”

He was an invited distinguished international guest faculty at the 12th Asian Research Symposium on rhinology (ARSR) 28th to 29th November 2007 at Manila, Republic of Philippines and delivered a lecture on the treatment of allergic fungal rhino sinusitis ; invited distinguished international guest faculty at the 6th SAARC Otolaryngology and head and Neck surgery conference, 15 to 18th February 2008, Dhaka, Bangladesh. He delivered lectures on ‘Cochlear implantation in India’, ‘Basic Aspect of middle ear cholesteatoma and Tympano mastoid surgery, gave his expert talk as a panelist in the panel discussion’ Role of safe perforation in the prevention of middle ear cholesteatoma’ and chaired the session on ‘Discharging ear’; invited distinguished international guest faculty at the 3rd UAE Medical Students conference. Dubai, 16–17th March, 2008 and delivered a lecture on ‘Undergraduate Medical Education: Need for skill enhancement and research enquiry’

Professor Deka was the organizing chairman of “RHINOFESS 2007” Live surgical workshop and CME on Rhinoplasty and FESS on 30-31st December 2007 & 1st January 2008, AIIMS, New Delhi. He demonstrated the techniques of functional endoscopic sinus surgery to the audience and moderated a session on current concepts in Rhinology.

Professor Deka was honored with the most coveted institutional and globally reputed presentation of “Rashtriya Gaurav Award” along with the “Certificate of Excellence” at the grand annual ceremony of the India International friendship society in New Delhi on 7th July 2007 and spoke on the seminar with the theme “Economic growth and National integration”; awarded the “Best Citizen of India” at the grand annual ceremony of the India International friendship society in New Delhi on 7th July 2007.

Professor S. Bahadur is President of the Skull Base Surgery Society of India, 2006–2007; Chairman, Organizing Committee in the World Federation of Neurosurgical societies, microsurgery & Endoscopic skull base cadaver workshop and 9th annual conference of skull base society of India and international skull base CME, 25–28th October 2007, AIIMS, New Delhi ; Moderator for the
Panel discussion on Parapharyngeal space tumour and Panelist for Panel discussion on Therapeutic dilemmas in head and neck cancers at the Diamond Jubilee Annual conference of the Association of Otolaryngologists of India, Agra, 3–5th January 2008

Professor SC Sharma was awarded Professor R. N. Misra Memorial oration on 20 August 2007 at King George Medical University & G.M. associated Hospital, Lucknow.

Dr K.K. Handa is Vice President of Association of Phonosurgeons of India from January 2006 to date; Treasurer of Neuro–otological and Equilibriometric Society of India from October 2005 till date; Reviewer of Indian Journal of Pediatrics and Indian Journal of Otorhinolaryngology; Delivered NK Agarwala oration “Phonosurgery Past Present and Future “at Guwahati at workshop on Phonosurgery organized by AOI North Eastern branch on 15th March 2008; invited guest faculty for the workshop on Developmental pediatrics at LHMC new Delhi on 05.10.2007 and he delivered a talk on Auditory pathways, Assessment of hearing in children; invited Faculty for surgical workshop in Phonosurgery at Ahmedabad on 15.04.2007; invited Faculty for the workshop on Phonosurgery at Bombay Hospital on 1.9.2007 to 2.9.2007; invited Faculty for Phonosurgical workshop and Hands on Cadaveric dissection at Annual conference of the Association of Phonosurgeons of India at Calcutta on 16.02.2008; invited Faculty for Surgical workshop on Phonosurgery in Kolhapur on 8-9th March 2008, for the International meeting of the Fungal sinusitis group at PGIMER Chandigarh on 9-11th February 2008, and for workshop on Phonosurgery organized by AOI North Eastern branch at Guwahati on 15th March 2008; Panelist for the panel discussion on care of professional voice at Annual conference of the Association of Phonosurgeons of India at Calcutta on 16.02.2008; Panelist for the panel discussion on “angiofibroma” in the 9th annual conference of skull base society of India on 27.10.2007; Panelist for panel discussion on phonosurgery Annual conference of Association of Otorhinolaryngologists of India Agra 4.01.2008; Instructor for the Instructional course on “Facial Nerve “at Annual conference of NES India at Calcutta on 08.12.2008; Moderator for Cross fire “Is the present system of residency training “adequate “at Annual conference of association of Otorhinolaryngologists “Delhi branch on 13.05.2007; Moderator for panel on “Laryngeal Framework Surgery “at Annual conference of the Association of Phonosurgeons of India at Calcutta on 16.02.2008; Conducted Surgical workshop on Phonosurgery in Kolhapur on 8–9 March 2008; Table tutor for temporal bone dissection on 25.10.2007 in 9th annual conference of skull base society of India on 27.10.2007 and a Faculty for Hands on Cadaveric dissection at Annual conference of the Association of Phonosurgeons of India at Calcutta on 16.02.2008.

Dr Alok Thakar was Vice Chairman, Organizing Committee, 9th Annual conference–Skull Base Society of India, and International Skull Base CME, October 2007, New Delhi; Co–organizer Head–Neck Cancer CME and Workshop, Mar 2008, New Delhi; was awarded the European Federation of Otolaryngological Societies (EUFOS) Fellowship (2007) to attend the 7th EUFOS Congress at Vienna; availed of the UICC International Cancer Technology Transfer Fellowship (2007) awarded by the UICC (International Union Against Cancer) for training to be undertaken at Kiel, Germany (Sept 2007) on “Disability limitation by Trans–oral CO2 Laser Surgery for Laryngeal and Hypopharyngeal Cancers”; Member, ICMR Task Force on Review of Cancer Management Guidelines; Invited Faculty, SAARC Otolaryngological Association congress. Dhaka, February 08; Work undertaken by him was awarded the best paper award & Best video Awards at the Skull
Dr. Rakesh Kumar is a co-member of the Sectional committee of ENT surgical instruments (MHR04) of the Bureau of Indian standards. As Organising Secretary for the Live surgical workshop on FESS and Rhinoplasty (Rhinofess 07–08) organized by the ENT department, AIIMS from 30 December to 1st Jan 2008; as Joint Secretary for the panel discussion on “Functional Endoscopic Sinus Surgery” held at India International Center and organized by AOI (Delhi Br) in May 2007; Panelist for the panel discussion on “Patient selection in rhinoplasty” and “Rhinoplasty made easy – Tips and Tricks in rhinoplasty” at the RHINOFESS 2007. Live surgical workshop and CME on Rhinoplasty and FESS. 30–31st December 2007 & 1st January 2008, AIIMS, New Delhi; Table Demonstrator for the World Federation of Neurosurgical societies, microsurgery & Endoscopic skull base cadaver workshop, 25–28th October 2007, AIIMS, New Delhi.

## 9.25 Paediatrics

### Professor and Head
Veena Kalra

### Professor
- Maharaj K. Bhan
  (On deputation)
  Arvind Bagga
- Vinod K. Paul
- Ashok K. Deorari
- Narendra K. Arora
  Upto September 2007

### Additional Professor
- Sushil K. Kabra
  Madhulika Kabra

### Associate Professor
- Pankaj Hari
  Sheffali Gulati

### Assistant Professor
- Rakesh Lodha
  Rachna Seth
  Vandana Jain
- Ramesh Agarwal

### Scientists
- Shinjini Bhatnagar
  Pratima Ray
  Suman Vashisht
- Manju Ghosh
  Madhumita Roy Choudhary
  Manju Saxena

### EDUCATION
Undergraduate, Postgraduate, Paramedical (Only innovations; changes; new courses):
- PhD Program: Total PhD students 8 (Pediatric Gastroenterology 4, Genetics 4)
- DM in Child Neurology ongoing program
- DM in Neonatology ongoing program
- MSc Pediatric Nursing ongoing program of College of Nursing: pediatric faculty participate in teaching and guiding students
- MSc Biotechnology: Pediatrics faculty participate in teaching
- BSc Nursing: Pediatric faculty including dietician participate in teaching
- Postgraduate Quiz in Pediatrics (college round) organized under the aegis of Indian Academy of Pediatrics

### Short term training
A total of 57 short term trainees were trained in different superspecialties in the department.
- Pediatric Neurology: 20
- Genetics: 11
- Neonatology: 9
- Nephrology: 7
- Nurses: 3
- Nutrition & Dietetics: 6
- Pediatric Pulmonology and Intensive care: 1
CME

The department organized 17 seminars/ workshops or training courses:

1. IPOKRaTES Seminar of Neonatal Neurology on 21-23rd November 2007, for Teaching of Teachers organized by Division of Neonatology.


3. Thesis Writing and Research Methodology Workshop for young faculty members from Medical Colleges, 12-15th November 2007 at AIIMS, New Delhi organized by Division of Neonatology


7. VI-National CME in Neonatology, AIIMS, New Delhi, Feb 15-17, 2008 Organized by Division of Neonatology.


12. Third Pediatric Nephrology Training Course on 2-3 February 2008 at AIIMS, New Delhi Organized by Division of Nephrology.

13. Workshop on Data Analysis for Clinical Trials, February 2008. Organized by Division of Gastroenterology

14. 7th Workshop on “Prenatal & Postnatal Diagnosis of Genetic Disorders using Molecular Methods” from 10th -17th April 2007 organized by Departments of Anatomy, Pediatrics (Genetics) & Hematology, AIIMS.

15. Lab workshop funded by DBT March 2008 Organized by Division of Genetics


17. Educational workshop for parents and patients of Cystic Fibrosis, organized by Pediatric Pulmonology and Intensive Care division from 15-17 Dec 2007

Faculty members delivered a total of 110 lectures in various national and international CME programs.

National and International Conferences

Lectures delivered

The faculty took 84 lectures in international and national conferences.
RESEARCH

Funded Projects

Completed
1. Vitamin D status of exclusively breastfed term healthy infants at a median age of 3 months during summer season and its correlation with maternal vitamin D status. Investigator Dr Vandana Jain, Funding Agency- AIIMS, total funding: Rs 1 lac, Duration: 2007-08.
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, Investigator: Dr. Pratima Ray, Funded by DST; Duration: 2004-2007, Funds: 19,90,000.00
5. Developing the training material for the multisite LBW feeding study Investigators Dr VK Paul, Dr AK Deorari, R Agarwal, J Sankar, and Y Kumar, funding agency: WHO, total duration: 6months, Grants: US $ 3000.
6. Determination of mesenchymal stem cell concentration in umbilical blood at birth and their correlation with gestation Investigators: R Agarwal, A Jain, VK Paul and AK Deorari, funding agency: AIIMS, INR 100,000, total duration: 2007-2008
7. Serum cystatin C assay for the detection of early renal insufficiency in malnourished children with chronic kidney disease, Investigator: Dr. Pankaj Hari; Funded by AIIMS; 2005-2007, Funds: 70,000.
8. Assessment of psychosocial and neurocognitive outcomes in childhood Leukemia, 2007, Funding Agency: All India Institute of Medical Sciences, Funds: 67,000.
10. ICMR INDIACLEN COLLABORATIVE TRIAL Effectiveness of 3-day amoxicillin versus 5-day co-trimoxazole in the treatment of non-severe pneumonia in children aged 2-59 months- A multi-centric open labeled trial, funding by ICMR, INDIACLEN, 20005-2007, Total funds: 4,60,264.
11. High dose and low dose azithromycin in cystic fibrosis and interventional study to evaluate effect on disease parameter. Funded by ICMR 1.7.2005- 30.6.2007 (I 453) Total funding Rs, 4,32,559.
12. Capacity building for sweat chloride estimation test by indigenously developed method funded by Solvay Phrama 2006-2008, Total funding RS 1,71,000
**Ongoing**

1. KIGS multinational Growth Survey, Investigator Dr Vandana Jain, Funding Agency-Pfizer Research Division, Total funding Rs 90, 000 per year, Duration:2006-ongoing.


3. Etiological significance of microscopic colitis in chronic diarrhea in children and its pathogenesis, Funding Agency: ICMR, Name of Investigator: Dr. Shinjini Bhatnagar, Co-PI Dr. Siddhartha Datta Gupta (Pathology), Duration: 2003 – 2007, Total funding: 2,350,580

4. 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, Investigator: Dr. Shinjini Bhatnagar, Co-PI Dr. S.K. Kabra, Duration: 2005-2008, Total funding: 87,64,000

5. Specific targeted research or innovation project – Funded by University of Bergan, Norway, European Union Investigator: Dr. Shinjini Bhatnagar Co-PI Dr. S.K. Kabra, Duration:2005-2008, Total funding, 7,215,299

6. Efficacy of zinc in the treatment of severe and very severe pneumonia in hospitalized children 2-24 months of age, Funding Agency: Johns Hopkins Hospital and Health System, Investigator: Dr. Shinjini Bhatnagar Duration: 2006-2009, Total funding: 5,384,284


8. 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, Investigator: Dr. Shinjini Bhatnagar: Co-PI Dr. H.K. Prasad, Duration: 2007-2009, Total funding: Rs. 4,034,000

9. Efficacy of Stem cell in improvement of left ventricular function in patients with acute myocardial infarction. Funding Agency: DBT, Investigator, Dr. Shinjini Bhatnagar, Duration: 2006-2009, Total funding: Rs. 10,042,00

10. Characterization of rotavirus strains from a multicentric Rotavirus study at AIIMS, Chief Investigator: Dr. Pratima Ray, Funded by DBT; Duration: 2005-2008, Funds: Rs. 31,97,000.00

11. The Indo-US collaboration to develop rotavirus vaccine, Chief Investigator: Prof. M.K. Bhan/ Dr. Pratima Ray, Funded by NIH; Duration: 2003-2008, Funds: Rs. 2,13,43,185.00


26. Newborn screening for congenital Hypothyroidism and congenital Adrenal Hyperplasia - A multicentric study, Prof. Veena Kalra, Prof V.K. Paul, Prof AK Deorari, Dr. Madhulika Kabra, Dr. Sheffali Gultati, Dr. Ramesh Aggarwal, Dr. Vandana Jain, Dr. Suman Vashisht, ICMR, 15 lacs. Duration: 2007-2010.


29. Enhancing networking capacity for advancing newborn health in South East Asia, Principal Investigator, Dr. Vinod Paul, Funding Agency: Saving New born Lives, Save the Children US Total funding: US $ 4500 Duration 2006-09
31. Antibiotic prophylaxis in the management of vesicoureteric reflux: a randomized double blind placebo controlled trial Investigator: Dr. Pankaj Hari; Funded by ICMR; 2006-2009, Funds: 11,41815
32. Daily corticosteroids to prevent infection associated relapses in patients with frequently relapsing nephritic syndrome, Investigator: Dr. Arvind Bagga; Funded by ICMR; 2006-2009, Funds: 9,22,020
33. Dose-ranging study to evaluate the safety and efficacy of olmesartan medoxomil in children and adolescents with hypertension, Investigator: Dr. Arvind Bagga; Funded by Sankyo Pharma; 2006-2008, Funds: 7,60,734.
34. A multicenter double blind, randomized, parallel group evaluation of 12 weeks of valsartan compared to enalapril on sitting blood pressure in children 6-17 years of age with hypertension. Investigator: Dr. Arvind Bagga; Funded by PPD Pharmaceutical Development India Ltd.; 2007-2009, Funds:3,30,270
35. A randomized double blind multicenter 6 week study to evaluate the dose response of valsartan on blood pressure in children 1-5 years old with hypertension followed by a 2 week placebo withdrawal period. (Chief Investigator: Dr. Arvind Bagga; Funded by PPD Pharmaceutical Development India Ltd.; 2007-2009, Funds: 7,60,734
36. Evaluation of Anthracycline induced myocardial cardiotoxicity in children with Cancer: A comparative study with echocardiography and MUGA, Investigator-Dr Rachna Seth, Funding Agency-All India Institute of Medical Sciences, New Delhi, Duration-one year, Funds - Rs 40,000/-
37. 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, Rachna Seth, Savita Sapra, Suman Vashisht, DST,4,08,000 Duration: 2006-2009.
39. Strengthening of CF services at AIIMS. Funded by Cystic Fibrosis Worldwide (CFW), Investigator S K kabra, total funding Rs: 3,10,525, duration 2006-2008
41. A Randomized Controlled Trial to Evaluate the Effect of Normal Saline in 5% Dextrose at Standard Maintenance Rate, Reduced Volume (2/3 Maintenance rate) of N/5 Saline in 5% Dextrose and N/5 Saline in 5% Dextrose at Standard Maintenance Rate on the Incidence of Hyponatremia in Hospitalized Children. Investigator Rakesh Lodha; Funding Agency: AIIMS, Duration: 2007-2008 Total funding: Rs. 1,00,000.
Departmental Projects

Endocrinology
2. Study of factors associated with precipitation of diabetic ketoacidosis in previously diagnosed patients with type 1 diabetes mellitus.
3. Basal and stimulated cortisol levels in preterm and very low birth weight infants with and without shock: a case control study.
4. Implementation and evaluation of Structured Clinical Case Presentation for the end of posting practical assessment of 4th and 5th semester undergraduate students posted in Pediatric Outpatient Department at AIIMS: A curriculum innovation project.

Genetics
1. Celiac disease in Down Syndrome
2. Molecular studies for Wilsons Disease
3. Mutational Spectrum of Osteogenesis Imperfecta in Indian patients (CSIR, fellow- Dr Neerja Gupta)
4. Chromosomal breakage syndromes (CSIR fellow- Dr Rashmi Shukla)
5. Molecular genetic studies in Rett Syndrome, Ms Rajni Khajuria (Ph D Student). ICMR fellowship
6. Cytogenetics and Molecular studies in Chromosomal Breakage syndromes (CSIR) Dr. Madhulika Kabra, CSIR, CSIR Fellowship (Dr. Rashmi Shukla), Five Years.
7. Molecular Genetic Studies in Osteogenesis Imperfecta, Dr. Madhulika Kabra, Ms Pallavi Shukla (Ph.D student), UGC Fellowship
8. Genetic polymorphisms and expression of MTHFR & RFC-1 genes in NTD and CAD molecular Genetic studies in Cystic fibrosis Madhulika Kabra, Dr. Shivram S, Shastri, CSIR fellowship.

Neonatology
2. Predictors of CPAP failure in respiratory distress in newborn.
3. Evaluation of phototherapy units used for treatment of neonatal Jaundice.
4. Hypoxemia in Young Infants a predictor of severity of illness.
5. Impact of transcutaneous bilirubinometry by multiwavelength reflectance method (bilichek) compared to visual inspection assessment of jaundice of the need for blood sampling for confirmation of total serum bilirubin in healthy term and near-term neonates in first week of life
6. Correlation of cord serum retinol level in preterm very low birth weight infants weight maternal serum retinol level at delivery
7. Knowledge and skills acquisition by nurses through telemedicine and conventional in-person classroom teaching: A randomized trial
8. Mesenchymal stem cell concentration in umbilical cord blood at different gestation
9. Use of bubble and conventional CPAP to facilitate extubation in preterm very low birth weight infants: A Descriptive Study
10. Neuro-sensory outcomes of very low birth weight neonates at 18 months of age
12. Efficacy of zinc in reducing hyperbilirubinemia among High risk neonates
13. Basal and stimulated cortisol levels in preterm very low birth weight infants with and with out shock: A case-control study
14. Behavior and feeding performance on paladai feeding in preterm neonates
15. Rate of rise in transcutaneous bilirubin levels during first 48 hour in healthy near term and newborns

**Nephrology**
1. Effect of vitamin D3 supplementation on bone disorders in children with chronic kidney disease
2. Randomized controlled trial on efficacy and safety of cyclosporine versus tacrolimus in children with steroid resistant nephrotic syndrome
3. Efficacy of sevelamer versus calcium acetate in patients with chronic kidney disease stage 3 and 4: An open label, randomized study
4. Non-invasive screening for early atherosclerosis in children with nephrotic syndrome using high resolution ultrasonography
5. Outcome of lupus nephritis in Indian children
7. Glomerular filtration rate estimation in children using prediction equation from plasma creatinine and height
8. Incidence of acute kidney injury in sick, hospitalized children: A prospective observational study
9. Efficacy of rituximab for patients with steroid resistant nephrotic syndrome
10. 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
11. Complement abnormalities in patients with atypical hemolytic uremic syndrome

**Neurology**
1. A double blind placebo controlled trial to study the efficacy of Baclofen in reducing tone in children with spastic Cerebral palsy 2-5 years of age.
2. To study the role of creatine in Duchenne Muscular dystrophy using Magnetic resonance spectroscopy.
3. A randomized control trial of IV Valproate versus IV Phenytoin in status epilepticus after initial midazolam bolus
4. Study of etiological risk factor profile in pediatric strokes
5. Evaluation of ketogenic diet as add-on therapy in infants and young children with refractory epilepsy.
7. Immunodiagnosis of childhood tubercular meningitis by detection of antigens in cerebrospinal fluid using ELISA
8. Noninvasive screening for early preclinical atherosclerosis in children on phenytoin or carbamazepine monotherapy for more than 18 months.

10. Effect of low dose folic acid supplementation on phenytoin induced gingival overgrowth: a randomized double blind controlled trial.

11. Randomized open label comparative trial of 4:1 versus 2:1 ratio of ketogenic diet in refractory childhood epilepsy.

12. Efficacy of modified constraint induced movement therapy on upper extremity in cerebral palsy children with asymmetrical motor impairment: a randomized control trial.


14. Evaluation of cardiac dysfunction in children with Duchenne muscular dystrophy

15. Comparison of recurrence of seizures in neurocysticercosis: calcified versus non-calcified healed lesions.

**Oncology**

1. Clinical profile of autistic children in India.

2. Role of Olanzapine in modifying some of the core features of autism

3. Role of IGF-1 in modification of core symptoms of autism and autism rating scales

4. Neurocognitive and psychosocial issues in children with acute leukemia and survivors of acute leukemia

5. Arsenic versus ATRA in Acute Promyelocytic Leukemia.

**Pulmonology and Intensive Care**

1. Effect of addition of oral montelukast to standard treatment in acute moderate to severe asthma in children between 5-15 years of age – a randomized, double blind, placebo controlled trial

2. Oral Mucosal Decontamination with Chlorhexidine for Prevention of Ventilator Associated Pneumonia in children – A Randomized Controlled Trial.


**Collaborative Projects**

**Endocrinology**

1. Body fat and its relationship with metabolic syndrome indicators in overweight pre-adolescents and adolescents. (Clinical Pharmacology Division, Department of Medicine, Funding agency-IAEA, Vienna).

2. Efficacy of Flutamide in reducing tumor size and vascularity in nasopharyngeal carcinoma. (Department of ENT).

**Genetics**

1. An Integrated approach for mutation analysis and identification of new gene(s) for X-linked Mental Retardation in collaboration with Dr. B.K. Thelma, Delhi University, South Campus, funded by DBT, duration 2005-2008. Total funding Rs 14 lacs

2. CFTR mutations in congenital absence of Vas deference Departmental project in collaboration with Department of Urology AIIMS

4. Fibrillin gene mutations in TOF. In collaboration with department of CTVS AIIMS
7. Molecular Genetic Studies in Indian Children with Steroid Resistant Nephrotic Syndrome

**Neonatology**
1. Effect of early versus delayed feeding in preterm neonates with reversed or absent end diastolic flow: a RCT. 4 centre multisite study. (Nangia S, Paul VK, Deorari AK, Agarwal R on behalf of AIIMS)

**Neurology**
1. Comparative evaluation of expression of dystrophin, utrophin and n-NOS in muscle and skin biopsy of patients with dystrophinopathies in collaboration with Department of Pathology
2. Molecular detection of Campylobacter jejuni by PCR and it’s subtyping using PCR-RFLP and PFGE in collaboration with Deptt. Of Microbiology
3. Development and validation of high throughput assays for the rapid diagnosis of Tuberculosis in collaboration with Department of Biotechnology
4. Screening for CMV infection by PCR with department of Microbiology.

**Oncology**
1. Detection of minimal residual disease (MRD) in B cell lineage acute lymphoblastic leukemia (ALL) at the end of induction by flowcytometry. In collaboration with Laboratory Oncology, IRCH.
2. Role of Paclitaxel in the management of Retinoblastoma In collaboration with RPC.
3. Evaluation of expression of P-glycoprotein (P-gp) in retinoblastoma in collaboration with RPC.
4. Evaluation of myocardial function in pediatric cancers and pediatric cancer Survivors In collaboration with Cardiology.
5. Evaluation of anthracycline toxicity in childhood cancers; A comparative study with echocardiography and MUGA in collaboration with Cardiology & Nuclear medicine.

**Pulmonology and Intensive care**
1. Multiplex –RT PCR for detection of viruses causing lower respiratory tract infections viz human respiratory syncitial viruses (hRSV), human para influenza viruses (h PIV), Influenza virus (FLU) and human Metapneumovirus (hMPV) and Real time RT-PCR for the detection and quantification of h RSV. In collaboration with Microbiology department
2. Detection genotyping and immune response study of human metapneumovirus. In collaboration with Microbiology department
3. Role of human Meta pneumo virus in acute respiratory infection, In collaboration with Microbiology department, Funded by NIH, USA
4. Diagnosis of symptomatic visceral leishmaniasis by use of polymerase chain reaction on peripheral blood samples in collaboration with Microbiology
5. Antigenic and molecular characterization of Influenza Virus strains from acute respiratory infection. In collaboration with Microbiology department
6. A prospective study on nosocomial infections in a Pediatric high risk unit with special reference to device associated infections with Microbiology department.

AIIMS 2007-2008 / 346
7. Development of taqman based real timer quantitative polymerase chain reaction assay for detection of pneumocystis carinii/ jerovacci pneumonia. With Microbiology department

PUBLICATIONS

Indexed journals
63. Narang A, Deorari AK. Signs on severe illness in young infants. Indian Pediatr 2008; 45:244-5.

Books
**Chapters in Books**


**PATIENT CARE**

**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>29,574</td>
<td>37,698</td>
<td>67,272</td>
</tr>
<tr>
<td>Pediatric Neurology Clinic</td>
<td>1545</td>
<td>3378</td>
<td>4923</td>
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<tr>
<td>Myopathy Clinic</td>
<td>292</td>
<td>501</td>
<td>793</td>
</tr>
<tr>
<td>Pediatric Gastroenterology Hepatology and Nutrition</td>
<td>1241</td>
<td>4110</td>
<td>5351</td>
</tr>
<tr>
<td>Well Baby Clinic</td>
<td>492</td>
<td>562</td>
<td>1054</td>
</tr>
<tr>
<td>High Risk Neonatology Clinic</td>
<td>202</td>
<td>764</td>
<td>966</td>
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<tr>
<td>Pediatric Nephrology Clinic</td>
<td>442</td>
<td>3028</td>
<td>3460</td>
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<tr>
<td>Pediatric Chest Clinic</td>
<td>452</td>
<td>3388</td>
<td>3840</td>
</tr>
<tr>
<td>Pediatric Tuberculosis Clinic</td>
<td>264</td>
<td>2097</td>
<td>2361</td>
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<tr>
<td>Pediatric Rheumatology Clinic</td>
<td>137</td>
<td>1293</td>
<td>1430</td>
</tr>
<tr>
<td>Genetics and Birth Defects Clinic</td>
<td>1538</td>
<td>1050</td>
<td>2588</td>
</tr>
<tr>
<td>Pediatric Oncology Clinic</td>
<td>113</td>
<td>3223</td>
<td>3110</td>
</tr>
<tr>
<td>Pediatric Cancer Survivor Clinic</td>
<td>115</td>
<td>205</td>
<td>320</td>
</tr>
<tr>
<td>Pediatric Endocrine and Metabolism Clinic</td>
<td>800</td>
<td>1200</td>
<td>2000</td>
</tr>
<tr>
<td>Development Clinic</td>
<td>565</td>
<td>587</td>
<td>1152</td>
</tr>
<tr>
<td>Grand Total</td>
<td>37,772</td>
<td>63,084</td>
<td>1,00,620</td>
</tr>
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</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

**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.

- Admissions in ORU: 1500
- Long admissions in Pediatric wards: 1840
- Admissions in Day care facility (Short admission): 2700
- Patients admitted in PICU: 266

**Special investigations/ procedures**

**Endocrinology Division**
- Water deprivation test: 10
- Vasopressin challenge test: 10
Gastroenterology Hepatology and Nutrition Division

Upper Gastrointestinal Endoscopy
EST
Colonoscopy
Intestinal Biopsies
Stricture dilation
D-Xylose
24 hrs. Fecal Fat Estimation
Immuno-Fluorescence Assay (IFA) to
Detect Anti Endomysial Antibodies (AEA)
And Tissue transglutaminase ELISA for
Diagnosis of Celiac
Nitro-blue tetrazolium test for CGD
Serum Zn estimation
Serum Cu estimation
HBsAg:
Hbe/antiHBe:
Urinary Succinyl Acetone (Tyrosinemia):

Genetics Division

Developmental / Behavioural evaluation and intervention: were provided developmental assessment, early stimulation and behavioural intervention.

Cytogenetics Lab.
Peripheral Blood Cultures
Cord Cultures for Karyotyping
Chromosomal Breakage studies

Biochemical Lab.
Urine and Plasma for disorders of aminoacid metabolism
Disorders of mucopolysaccharidosis (Spot test)
Galactosemia
Prenatal diagnosis for high risk pregnancies by Triple test
MSAFP
B hCG
Estriol
Homocystenuria test
Other Urine chemical tests
Plasma Ammonia
<table>
<thead>
<tr>
<th>Enzyme assays</th>
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<tbody>
<tr>
<td><em>Molecular lab.</em></td>
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<tr>
<td>Thalassemia family studies</td>
<td>101</td>
</tr>
<tr>
<td>Thalassemia prenatal diagnosis</td>
<td>96</td>
</tr>
<tr>
<td>Duchenne muscular dystrophy family studies</td>
<td>100</td>
</tr>
<tr>
<td>Duchenne muscular dystrophy prenatal diagnosis</td>
<td>16</td>
</tr>
<tr>
<td>Cystic fibrosis family studies</td>
<td>48</td>
</tr>
<tr>
<td>Cystic fibrosis prenatal diagnosis</td>
<td>4</td>
</tr>
<tr>
<td>Spinal muscular atrophy family studies</td>
<td>69</td>
</tr>
<tr>
<td>Spinal muscular atrophy prenatal diagnosis</td>
<td>13</td>
</tr>
<tr>
<td>Hemophilia A family studies</td>
<td>14</td>
</tr>
<tr>
<td>Hemophilia A prenatal diagnosis</td>
<td>3</td>
</tr>
<tr>
<td>Hemophilia B family studies</td>
<td>2</td>
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<tr>
<td>Hemophilia B prenatal diagnosis</td>
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</tr>
<tr>
<td>Fragile X screening</td>
<td>89</td>
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<tr>
<td>Fragile X Prenatal diagnosis</td>
<td>5</td>
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<tr>
<td>Xmnn polymorphism studies</td>
<td>5</td>
</tr>
<tr>
<td>Amniotic fluid Rh genotyping</td>
<td>20</td>
</tr>
<tr>
<td>Intersex cases for genotyping</td>
<td>32</td>
</tr>
<tr>
<td>Skeletal dysplasia mutations</td>
<td>17</td>
</tr>
<tr>
<td>Skeletal dysplasia prenatal</td>
<td>1</td>
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<tr>
<td>MTHFR</td>
<td>25</td>
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<tr>
<td>RhD Genotyping</td>
<td>5</td>
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<table>
<thead>
<tr>
<th>Nephrology Division</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Hemodialysis</td>
<td>510</td>
</tr>
<tr>
<td>Acute peritoneal dialysis (including automated peritoneal dialysis)</td>
<td>120</td>
</tr>
<tr>
<td>Continuous ambulatory peritoneal dialysis</td>
<td>12</td>
</tr>
<tr>
<td>Plasmapheresis</td>
<td>70</td>
</tr>
<tr>
<td>Temporary hemodialysis catheter placement:</td>
<td>124</td>
</tr>
<tr>
<td>(internal jugular, subclavian, femoral)</td>
<td></td>
</tr>
<tr>
<td>Renal biopsy</td>
<td>120</td>
</tr>
<tr>
<td>Renal transplantation</td>
<td>3</td>
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<table>
<thead>
<tr>
<th>Neurology division</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Electroencephalography:</td>
<td>1155</td>
</tr>
<tr>
<td>Electrophysiological studies (EMG, NCV, BERA, VER)</td>
<td>68</td>
</tr>
<tr>
<td>Blood lead estimations</td>
<td>15</td>
</tr>
<tr>
<td>Arterial Lactate</td>
<td>350</td>
</tr>
<tr>
<td>CSF Lactate</td>
<td>130</td>
</tr>
<tr>
<td>Muscle biopsies</td>
<td>203</td>
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<tr>
<td>Nerve biopsies</td>
<td>8</td>
</tr>
<tr>
<td>Skin biopsies</td>
<td>10</td>
</tr>
</tbody>
</table>
**Oncology Division**
Bone marrows aspirations/ biopsies 500
CSF examinations for malignant cells 300

**Pulmonology and Intensive care Division**
Sweat Chloride estimation 567
Fibre-optic bronchoscopy 221
Spirometry 552
Allergy skin testing 20
Mechanical Ventilation 225
Arterial Blood Gas Analysis 12025
Electrolyte estimation 10560

**Rheumatology Division**
Intraarticular steroid injections 32

**Community Service & camps**
1. Volunteered professional services through Pulse Polio Initiative, Spastic Society of North India, Inner Wheel (Rotary), Prayas many other NGO’s
3. “1st Childhood Diabetes meet” organized by Endocrinology division 26th June 2007
5. 3rd Childhood Diabetes- celiac meet” organized by Endocrine and Gastroenetrology, Hepatology and Nutrition Division 11th March 2008.
7. Tuberculosis clinic provides free ATT through NGO (IC Trust) to all poor patients
8. Support for children suffering from Cancer in collaboration with Cancer Patients Aid Association. The association provided services in form of counseling, nutritional support, medicinal support, support for accommodation etc. During year 2007-2008, 123 new patients were enrolled.
9. Following celebrations were done for children suffering from cancer in collaboration with Cancer Patients Aid Association: Holi celebration, Rakhi celebration, Rose day celebration, Diwali celebration, Children’s day celebration, Christmas celebration. During these celebrations sweets and toys were distributed to children. In addition children with cancer were taken to movie, and drama
10. A play room is being maintained by Cancer Patients Aid Association in Pediatric wards. Their volunteer maintain the room, provides toys and educational material.
11. Children with disability are provided comprehensive care in collaboration with Action for Ability Development and Inclusion (AADI).

**AWARDS AND HONOURS**

**Dr V. K. Paul**
Dr Arvind Bagga
Councilor, International Pediatric Nephrology Association (2001-07); Member, Pediatrics Board, Medical Council of India (2007-08); Member, Expert Group on Classification of Childhood Vasculitides, European League Against Rheumatism (2005-08); Member Expert Group, Acute Kidney Injury Network (2005-08); Associate Editor, Indian Pediatrics; Member, International Advisory Board, Current Pediatrics; Core Group Member, Chronic Kidney Disease Registry, Indian Society of Nephrology; Editor, Bulletin Indian Society of Pediatric Nephrology

Dr S. K. Kabra
Editor Indian Journal of Pediatrics; Chairman Taskforce on HIV research of Indian Council of Medical Research

Dr Pankaj Hari
Awarded Fellowship of International Society of Nephrology at Cedars Sinai Medical Center, Los Angeles, USA; Honorary Secretary, Indian Society of Pediatric Nephrology; Member Disease Outbreak Response Cell (DORC); Reviewer for Pediatrics, and American Journal of Kidney Disease

Dr Sheffali Gulati
Served as Expert for Neurology projects for Indian Council of Medical Research and National Trust; Editorial Consultant of Indian Journal of Pediatrics and Executive board member of Editorial board of Indian Pediatrics.

Dr Rakesh Lodha
Associate Editor of Indian Pediatrics, the official journal of Indian Academy of Pediatrics

Dr Vandana Jain
Selected for the prestigious fellowship of Foundation for Advancement in Medical Education and Research (FAIMER) Philadelphia 2007-9; The International Scholars Award 2008 of the Lawson Wilkins Pediatric Endocrine Society of North America.

Dr Ramesh Agarwal
NNF Gold medal for the research paper, ‘Comparison of transcutaneous bilirubinometry and visual assessment of level of jaundice in term and near term neonates for deciding the need for blood sampling: a randomized trial and economic evaluation ’ on neonatal jaundice ’ at the 26th Annual Convention of National Neonatology Forum (NNF), Pune, Dec 2008 (Along with Drs. S. Mishra and D. Chawla)

Dr Shinjini Bhatnagar
Elected a Fellow of the National Academy of Sciences, India, 2007

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, Ind J Pediatric, Pediatric Infectious Diseases Journal.
Ms Savita Sapra
Received Asha Nigam award for her contribution in the field of Child Psychology in 35th National annual conference of Indian Association of Clinical Psychologists on Feb. 2008.

SIGNIFICANT EVENTS

Department
• Department of Pediatrics was judged as Best Department of Pediatrics in the country by ‘The Week’ magazine for the year 2007.
• The Department continues to host the WHO Collaborating Centre for Training and Research in Newborn Care for the South East Asia Region.
• The Department continues to host the WHO Collaborating Centre for Training in Clinical and Laboratory Genetics in Developing Countries for the South East Asia Region, and is recognized as a Centre of Excellence by the Department of Biotechnology, Government of India.
• Neonatology division is the nodal center for National Neonatal Perinatal Database for five countries in SE Asia region namely Nepal, Bangladesh, Sri Lanka, Thailand & Indonesia.
• Team of Doctors & Nurses in neonatology division have developed a high quality training tool on Essential Newborn Nursing based on participatory learning methods for nurses working in district hospital with the assistance of SEARO-WHO office. State of Gujarat has undertaken systematic scaling of this programme with introduction of ENBC in pre-service education.
• Division of Neonatology continues to maintain highly popular websites on neonatal health, namely, www.newbornwhocce.org, and on Kangaroo Mother Care, namely, www.kmcindia.org These websites highlights the activities of our Division and provides free access to learning resource materials developed by Neonatology Division.
• A premature neonate weighing only 580 g at birth survived in the neonatal unit. This is among the lowest birth weight survivors ever in the country. He was also perhaps the lowest weight neonate in India who underwent a major surgical procedure to excise a lung cyst.

Dr Veena Kalra
Expert for Science and Society Division of DST for review of health projects; External Expert to select candidates for faculty positions in different Specialities at Sher-i-Kashmir International Convention Complex, Srinagar; External Examiner for final year M.B.B.S. clinical examination in Paediatrics at Government Medical College Srinagar, Government Hospital for Children, Srinagar. External Expert for faculty selections at PGIMER, Chandigarh; Appointed by the Govt. Medical College, Ajmer, as External Examiner in MD (Pediatrics); Nominated by Medical Council of India for Inspection of Krishna Institute of Medical Sciences, Karad for increase of seats in M.D. (Paediatrics) and D.C.H. courses.

Dr V K Paul
Nominated as the member of the Board of the global Partnership for Maternal, Newborn and Child Health, WHO Geneva; Expert member, of the International Advisory Panel of the National Rural Health Mission; Member, Advisory Group of the American Academy of Pediatrics on Neonatal Resuscitation; Advisor, WHO/SEAR on newborn health for the WHO child health focal points in South East Asia Region; Member of the following committees of the Ministry of Health and Family Welfare, Government of India: a) Pre-service IMNCI scale up, b) Home-based newborn care through
ASHAs, c) National Child Health Policy, and d) incorporating malaria treatment guidelines in IMNCI, National Coordination Group for National Action Plan for Children, Ministry of Women and Child development, Government of India; Technical advisor to the Norway-India Partnership Initiative (NIPI); Member of the Indo-US Joint Working group (NIH-ICMR) on MCH research; Expert Reviewer, Department of Biotechnology, Government of India, for research on recombinant surfactant; Member, International Scientific Advisory Council, Bill and Melinda Gates Foundation Project on Prevention of Prematurity and Stillbirths, University of Washington, School of Medicine, Seattle, US; Member of the technical / academic advisory panels of: a) SURE Start (PATH / Gates Foundation, b) International Institute of Population Sciences, Mumbai, c) SNEHA Mumbai, d) USAID funded project on MCH PAIMAN, Pakistan, and d) Saving Newborn Lives, Save the Children, US.

**Dr N K Arora**

**Dr A K Deorari**

**Dr Madhulika Kabra**
Genetic subdivision was given Center of Excellence Program by the department of Biotechnology Government of India under leadership of Dr Madhulika

**Dr Rakesh Lodha**
Member, WHO Technical Reference Group, Pediatric HIV-Care and treatment; Member, Pediatric Working group, National AIDS Control Organization; Associate Editor of Indian Pediatrics.

**Dr Rachna Seth**
Elected as a member of the ‘International Society of Pediatric Oncology’; Elected life member to the Pediatric Hematology Chapter, IAP; Attended the Integrated Management of Neonatal & Childhood illness TOT workshop of Physicians and the facilitator program at Safdurjung Hospital. Represented INCLEN at the ‘Child Anemia Workshop’ held at the National Institute of Health & Family Welfare.

**Dr Vandana Jain**
Founder member of the “Indian Society for Pediatric and Adolescent Endocrinology”. ‘Vitamin D levels in exclusively breastfed winter born babies and their mothers’ has been selected for presentation at the prestigious Pediatric Academic Society (PAS) meeting, May 2008 at Hawaii.

**Dr Shinjini Bhatnagar**

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Dr. Pratima Ray
Visiting scientist, Center for Disease Control and prevention, Atlanta, USA and Emory Vaccine Center, Emory University, Atlanta, USA; Examiner PhD thesis, Swinburn University of Technology, Victoria, Australia

Ms. Anuja Agarwala
Appointed as Spokesperson and Leader of Indian Dietetic Association by National Executive Committee members of Indian Dietetic Association on 21st July 2007 to form Dietetic Council of India; Invited as Member Jury for countrywide Lead India Campaign of Times of India to judge the semi finalists at IIT campus, New Delhi on 6th October 2007; Invited to attend “Nestle Nutrition Institute Workshop” as Special guest for presenting the latest science in Nutrition Education organized by Nestle India at Hyatt Regency, New Delhi on 17th November 2007.

Residents and research staff
Dr Ashima Gulati (Research Associate) and Dr Sidharth Sethi (Research Officer) awarded best poster and oral research presentations, National Conference of Pediatric Nephrology (Hyderabad) November 2007

Dr Meghana R. Sebastian, Jr. Resident, received ICMR grant for her thesis: “Oral Mucosal Decontamination with Chlorhexidine for prevention of ventilator associated Pneumonia in children – A Randomized Controlled Trial”.

Dr Sunil Kumar Gupta, Jr. Resident: received ICMR grant for his thesis: “Detection of Minimal Residual Disease in B-cell Acute Lymphoblastic Leukemia at end of induction by slow cytometry”

Dr. Bipin Jose, Jr. Resident: received ICMR grant for his thesis: “Comparison of Dietary and blood Magnesium levels in obese and Lean Children and their Association with Insulin resistance”

VISITING SCIENTISTS
2. Dr Niranjan “Tex” Kissoon, Senior Medical Director, Acute and Critical Care Programs, British Columbia Children’s Hospital, University of British Columbia, Vancouver, British Columbia, V6H 3V4, Canada
3. Dr Peter Rimensberger. University Children’s Hospital of Geneva Pediatric and Neonatal ICU 6, Rue Willy-Donze CH-1211 Geneva Switzerland
4. Dr Jay Deshpande, Monroe Carell Jr. Children’s Hospital, Vanderbilt University, USA
5. Ms Rebekah Nesbitt, RN, Monroe Carell Jr. Children’s Hospital, Vanderbilt University, USA
EDUCATION

Undergraduate, Postgraduate and Paramedical

- Teaching of undergraduate medical and nursing students
- Postgraduate teaching and training of MCh Paediatric Surgery trainees; this inclusive of seminars, journal clubs, case discussions, thesis presentations
- Trainees on rotation—MCh trainee in Neurosurgery, DM trainees in Neonatology, MS trainees in General Surgery
- Training in the ward of BSc and MSc Nursing students

Short- and long-term training

Four trainees from various countries (Israel-1, Ireland-2) underwent short-term training/observership at the department.

CONTINUING MEDICAL EDUCATION

Organized by the department

- International symposium on fetal interventions and genetic counseling for major congenital malformations, AIIMS, New Delhi, October 3, 2007
- International symposium on recent advances in Pediatric Oncology, AIIMS, New Delhi, October 29, 2007

Lectures delivered

Professor D.K. Gupta

- Lectures during International Symposium on Fetal Therapy and Genetic Counseling in Major congenital anomalies AIIMS, New Delhi, October 2007
  — Chairman’s speech – challenges in diagnosis and management.
  — Role of stem cell in major congenital malformations
- 17th Imre Pilaszanovich visiting Professorship Lecture at the University of PECS, Hungary, Management of Complicated Esophageal atresia and Tracheoesophageal fistula, 20 May 2007
- Spectrum, Etiology, clinical Presentation and Management of Intersex children, at the University Children Hospital, Vienna, Austria on May 22, 2007
- Lectures and demonstrations in the Live Operative Workshop on Esophageal replacement, Niloufer Children Hospital, Hyderabad, August 21-22, 2007
• Lecture on Epidemiologic differences in the causes of the Corrosive Strictures of the esophagus in India and moderated the panel discussion on the subject
• Esophageal replacement – A 27 year experience at AIIMS, during the Symposium of Esophageal replacement held in honor of the superannuation of Prof Karl Waag, University of Mannheim, Germany, June 16-18, 2007
• Inguino scrotal swelling in Children, Jodhpur Rajasthan, August 28, 2007
• Inaugural Speech on the Magnitude of the Problems of Pediatric Cancer in India, International symposium on oncology, AIIMS, 27 October 2007
• Challenges of Global Child Health in developing Nations to Ekal Vidhalaya Foundation of India–Health Care Education for Empowerment of Tribal and Rural Bharat, 9 December 2007
• Pediatric Pyeloplasty – How to minimize complications, Workshop on Pediatric Urology, Mumbai January 12-13, 2008
• Intersex disorders in Children and TEF and OA–New Insights, Department of Pediatrics and Pediatric surgery, King Fahd Armed Forces Hospital, Jeddah, March 2008.

Professor V. Bhatnagar
• Rationalisation of preservation of congenital pouch colon and coloplasty as part of staged reconstruction of congenital pouch colon. Consensus Meeting on management of congenital pouch colon, Indian Association of Pediatric Surgeons, New Delhi, March 12, 2007.

Professor M. Bajpai
• Clinical presentation, pathology, genetics and decision making in the management of true hermaphrodites: CME on Intersex disorders held in B.J. Wadia hospital, Mumbai on April 13, 2008.

Dr. S. Agarwala
• ‘Foreign bodies in the airways’, CME on essentials of chest surgery for general surgeons, ASICON surgical research and education foundation of ASI, Delhi state chapter, 24 March 2008, New Delhi.

National and International Conferences

Lectures delivered

Professor D.K. Gupta
• M.S Ramakrishnan Oration, 33rd Annual conference of the Indian Association of Pediatric Surgeons, Jaipur, 2007 on – Esophageal substitution in Neonates – An alternative approach
• Role of Myectomy for Hirschsprung’s disease and Management of complicated Hirschsprung’s disease, 2nd World Congress of the World Federation of the Association of Pediatric Surgeons, held in Buenos Aires, Argentina, September 2007
• Neuroblastoma in Children during the 44th Annual Meeting of the Japanese Society of Pediatric Surgeons, Tokyo, Japan from May 31- June 2, 2007
• 2nd Congress of the International Society for Hypospadias and Intersex Disorders, Rome, Italy November 16-18, 2007 and deliver the speech during the inaugural function.
• Stem Cells in Regenerative Medicine – Hope and Scope, 3rd International Neonatology Conference, Jeddah, Saudi Arab, February 17-20, 2008
• 7th Conference of the Nepal Pediatric Society with 3rd Conference of the SAARC region, Kathmandu, Nepal, March 28-30, 2008 on Stem Cell therapy in children – Hope and Scope

Professor M. Bajpai
• Long term results of bladder exstrophy repair without osteotomy: Annual conference of IAPS, Jaipur, 2007
• Management concerns in Vesico-ureteric reflux: Annual meeting of the Indian Society for Paediatric Nephrology, held at AIIMS, 2007

Dr Sandeep Agarwala
• ‘Guidelines for treatment of hepatoblastoma for resource challenged nations (RCN Guidelines)’ at annual meeting of SIOPEL held at Mumbai, October 2007.

RESEARCH

Funded projects
3. Melanocyte cell culture and transplantation in albinos- An National Institute of Immunology, Funded by DST joint research Project with AIIMS, as co-investigator (only technical support).
4. A study on clinical and molecular markers of the chronic interstitial nephropathy in congenital unilateral ureteropelvic junction obstruction Funded by DST, 3 years (2008-11). Funds: Rs 30 lakhs
5. ACE I/D gene polymorphism in Vesico ureteric reflux and its correlation with transforming growth factor-b1, Tumour Necrosis Factor (TNF)-a, soluble TNF receptor-1, interleukin-6 (IL-

**Departmental projects**

**Completed**

1. Outcome of patients with antenatally diagnosed unilateral pelviureteric junction obstruction managed conservatively and surgically

**Ongoing**

1. Effect of intraleisional injection sclerotherapy using sodium tetradecyl sulphate in vascular malformations
2. Mucous production in the neobladder after augmentation colocystoplasty
3. Bladder and urethral function evaluation by uroflowmetry in Patients operated for hypospadias
4. Assessment of associated anomalies with the Cystoscopy and uroflowmetry in patients with hypospadias
5. A randomized and controlled study to evaluate the incidence of leaks with the early institution of expressed breast milk feeds through the nasogastric tube after repair of TEF
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
8. Prospective study of treatment of children with Wilms’ tumour on treatment with National Wilms Tumor Study Group-5 regimen
10. Prospective study of treatment of children with hepatoblastoma on treatment with Cisplatin and Doxorubicin regimen
11. Prospective study on five drug regimen for the management of clear cell sarcoma of the kidney
12. Clinical and urodynamic changes after valve ablation and their correlation with radiological anatomy of the urinary tract before and after pharmacotherapy.
14. Study on oral vs intravesical efficacy of anticholinergic agents in neurogenic bladder

**Collaborative Projects**

**Completed**

1. Role of FDG-PET-CT in staging and evaluation of early response to chemotherapy in children with neuroblastoma and rhabdomyosarcoma (with Nuclear Medicine)
2. Histological changes occurring after colonic diversion in rat: A study to test beneficial effects of various agents (with Anatomy)
3. Comparison of efficacy and safety of oral antibiotics (amoxycillin-clavulinic acid and ofloxacin) with intravenous combination (ceftriaxone and amikacin) in outpatient setting in pediatric patients of low risk febrile neutropenia (with Medical Oncology)
4. Telomerase estimation in patients with Wilms’ tumour and hepatoblastoma as a marker for prognosis (with Pathology)
5. Evaluation of lymphocytic infiltration in Wilms’ tumour and adjoining normal renal parenchyma and its relation to recurrence and outcome (with Pathology)
6. 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 (with Medical Oncology, Radiodiagnosis and Nuclear Medicine)
7. To compare efficacy of total gut irrigation using normal salins vs polyethylene glycol for children undergoing corrective colo-rectal surgeries (with College of Nursing)
8. Comparison of imaging modalities in the evaluation of neonatal cholestasis (Radio-diagnosis).
9. Long term follow-up of patients after augmentation cystoplasty (Endocrinology & Metabolism)

**Ongoing**
1. Antibiotic prophylaxis in the management of vesicoureteric reflux: A multicentric randomized double-blind placebo-controlled trial (with Paediatrics)
2. Comparison of efficacy of continuous epidural infusion of morphine, fentanyl and combination of morphine and fentanyl with bupivacaine for post-operative analgesia in children. (with Anaesthesiology and Intensive Care)
3. Therapeutic use of stem cells in various congenital malformations. (with Department of Stem Cell facility, pathology, anesthesiology, interventional radiology and Medical Oncology)
4. Use of stem cell therapy in children with renal dysplasia and end stage renal disease. (with Stem Cell facility, pathology, interventional radiology and Medical Oncology)
5. To study the role of autologus stem cell therapy in patients with Intersex disorders and infertility. (with Stem Cell facility, anesthesiology, pathology, and Medical Oncology)
7. Comparison of imaging modalities in the evaluation of portal hypertension (Radio-diagnosis).
8. Volumetric analysis of the spleen in portal hypertension (Radio-diagnosis).
10. The role of nitric oxide in portal hypertension (Biochemistry).
12. Long term results following Kasai’s procedure for biliary atresia.
13. Long term results following tubularisation of pouch colon for pull through (Radio-diagnosis).
14. An evaluation of cardiotoxicity related to adriamycin in children with solid tumours (with Nuclear Medicine)
15. Evaluation of hearing deficiencies in children who have received cis-platinum for treatment of solid tumours (with ENT)
16. Evaluation of restrictive lung disease in long-term survivors of malignant germ cell tumours who have received bleomycin as a part of treatment (with Paediatrics)
17. Gain of chromosome 17q and its effect on outcome in patients with neuroblastoma (with Anatomy and Pathology)
18. Role of PET scan in evaluation of response to chemotherapy pediatric tumors (with Nuclear Medicine)
19. Evaluation of role of adjunctive therapy with 131 I MIBG therapy for advanced non-responsive, relapsed and metastatic neuroblastoma (with Nuclear Medicine)
**PUBLICATIONS**

**Journals**


**Chapters in books**

**PATIENT CARE**
Attendance in OPD and specialty clinics

<table>
<thead>
<tr>
<th>New cases</th>
<th>Old cases</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>General OPD 6,378</td>
<td>12,589</td>
<td>18,967</td>
</tr>
<tr>
<td>Specialty clinics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydrocephalus 29</td>
<td>209</td>
<td>238</td>
</tr>
<tr>
<td>Intersex 21</td>
<td>207</td>
<td>228</td>
</tr>
<tr>
<td>Craniosynostosis 9</td>
<td>17</td>
<td>26</td>
</tr>
<tr>
<td>Pediatric urology 344</td>
<td>2,797</td>
<td>3,141</td>
</tr>
<tr>
<td>Pediatric solid tumor 130</td>
<td>1468</td>
<td>1,598</td>
</tr>
<tr>
<td>CRHSP, Ballabgarh 602</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>OPD Minor procedures 2,800</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Admissions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AB-5 ward 2396</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AB5-ICU 163</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surgical procedures</td>
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<td></td>
</tr>
<tr>
<td>Major 1063</td>
<td></td>
<td></td>
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<tr>
<td>Minor 541</td>
<td></td>
<td></td>
</tr>
<tr>
<td>At CRHS, Ballabgarh 346</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special investigations</td>
<td></td>
<td></td>
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<tr>
<td>Urodynamic evaluation 373</td>
<td></td>
<td></td>
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<tr>
<td>Uroflometry 763</td>
<td></td>
<td></td>
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<tr>
<td>Ano-rectal manometry 46</td>
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<td></td>
</tr>
<tr>
<td>Oesophageal manometry 12</td>
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<td></td>
</tr>
</tbody>
</table>

**AWARDS, HONOURS AND SIGNIFICANT EVENTS**
**Professor D.K. Gupta** delivered the MS Ramakrishnan Oration of the Indian Association of Pediatric surgeons -2007; Re-elected as the President, Federation of SAARC Association of Pediatric Surgeons for 2007-9; Re elected as the Executive council Member, World Federation of Association of Pediatric Surgeons (WOFAPS) for 2008-2010; Re elected as the Hony Secretary of the International society of the Intersex and hypospadias 2008; invited as the President of the Asian Association of Pediatric
Surgeons and the SAARC Association of Pediatric Surgeons and the Secretary of the Internal Society on Hypospadias and Intersex disorders to deliver welcome address, plenary/Guest lectures, conduct scientific meetings in Rome, Germany, Buenos Aires, Japan, Saudi Arab and Nepal; Nominated as the Congress President of the 3rd World Congress of Pediatric Surgery, by the Asian Association, SAARC Association and the Indian Associations of Pediatric Surgeons, New Delhi in 2010; invited to participate on the LIVE Program at Doordarshan for the promotion of health in General public on- Total Health- Congenital anomalies April 8, 2007-12-23 and cancers in children, on February 10, 2008; Invited as the Inspector for the MCI Inspection, Pt BD Rohtak Medical College, –December , 2007; Invited as an external examiner for M.Ch in Pediatric surgery, SMS College, Jaipur, 2007; Invited as an expert for the CSIR selection of the pool officers – November 2007; Invited as Chairman of the Committee to prepare the curriculum for the undergraduates in medicine and the Postgraduates in Pediatric Surgery by the Medical Council of India, New Delhi , December 9, 2007; Hosted the Meeting with the Indo - Swiss Group visiting India on promotion of science and technology under the Bilateral exchange Program from the University of Lausanne, Switzerland, April 27, 2007; Served as the Editor in Chief, Journal of Indian Association of Pediatric surgeons for a period of 3 years 2005-07; Continues to be reviewing Editor for the following Indexed Journals- Journal of pediatric surgery, Ped surgery International, Indian Journal of Pediatrics, Journal of Cell Proliferation; Continued to be the Consultant Editor for the following Journals-Journal of Pediatric Surgical Specialties, Polish Journal of Pediatric Surgery; Nominated as the Editorial Consultant of the following International Journals- Gold Journal of Urology– Pediatric Urology section, only one outside USA, Pediatric Surgery International, only one from India, African Journal of Pediatric Surgery, only one from India, Journal of Emergency Medicine, Trauma and Shock;


Professor M. Bajpai is Member- Reviewer for American Urology Association for the meeting held in Annheim, California, USA in May 19-24, 2007; Member- Reviewer for American Urology Association for the meeting to be held in Orlando, Florida, USA in, 2008; Moderator for poster session at the annual meeting of the American Urology Association for the meeting held in Annheim, California, USA in May 19-24, 2007; Member on the Board of studies in Paediatric Surgery from 29.10.07 for two years at Banaras Hindu University, Varanasi; Member Expert Committee on Tissue Engineering: Department of Biotechnology, Ministry of Science and Technology, Government of India- September 28, 2007; Member Project Advisory Committee: Department of Science and Technology, Government of India; External Examiner for MCh: University of Gujarat; West Bengal University of Health Sciences; PGI, Chandigarh; Internal Examiner for MCh: AIIMS, New Delhi; External Examiner/Expert for Faculty Selection Committee: Banaras Hindu University, Varanasi-August 2007; Expert for Medical Council of India for recognition of MCh training programme in the country; Expert for MCh curriculum: Delhi University-appointed in 2008

VISITING SCIENTISTS
Gordon Mackinlay, Edinburgh; Richard Azizkhan, USA; Amulya Saxena, Austria; P. Reddy, USA; Timothy Cromblehome, USA; Pramod Rastogi, Switzerland; Penolope Brock, UK; Gill Levitt, UK; Derek Roebuck, UK; Mark Gaze, UK.
9.27 Pathology

Professor and Head
Subrat K. Panda

Professors
Chitra Sarkar
S. Datta Gupta
V.K. Arora
M. Vijayaraghavan
Rajni Safaya
A.K. Karak
Manoj K. Singh
Ruma Ray

Additional Professors
A.K. Dinda

Associate Professors
M.C. Sharma
Venkateswaran K. Iyer
Manju Aron (on-leave)
(On deputation)

Assistant Professors
Sandeep R Mathur
Vaishali Suri
Kabita Chatterjee
(Blood Bank)

EDUCATION

Undergraduate
MBBS Students

Postgraduate
MD students: 20
Senior Residents: 10
PhD students: 6
Pool Officer: 2

Short term and Long term training
1. Mohd. Naushad from Amity University, Uttar Pradesh underwent summer training for one month.
3. Dr. Shyamali Dutta and Dr. Bhushan Asthana, DM Hematopathology Department, AIIMS underwent training for one month in Histopathology Section from 1/9/2007 – 30/9/2007.
4. Trained young technicians for 3-4 weeks in histopathology and histochemistry from Indian Veterinary Research Institute, Izatnagar
7. Dr. Pragya Verma and Dr. Rojan Ghimiree from BPKlHS, Dharan, Nepal underwent training for one month from 1/2/2008 to 29/2/2008.
9. Dr. Harpreet Kaur, Professor of Pathology, Dayanand Medical College & Hospital, Ludhiana underwent training for two weeks from 31/3/2008 to 12/4/2008.
10. Dr. Namrata Sinha, Junior Consultant from National Neurosciences Centre, Kolkata came for Neuropathology training for three months.
11. Ms. Anjana Sharma, M.Sc. (Bioinformatics) student came for training for six months in laboratory techniques.

CONTINUING MEDICAL EDUCATION

Conferences, seminars, workshops organized by the department
1. Indian Association of Pathologists & Microbiologists (IAPM), Delhi Chapter Annual Conference in April 2007
3. 1st National Course in Renal Pathology, organized by Pathology Study Society, Department of Pathology on 18 – 19 August, 2007 at AIIMS.

Lectures delivered

Professor S.K. Panda
• Replication of HEV: the localization at sub-cellular site, Indian Institute of Chemical Biology, Calcutta in July 2007.
• Vaccine for HEV–Current Status, Conference of Indian National Assoc. for Study of Liver, 7-9 March, 2008

Professor Chitra Sarkar
• Approach to Diagnosis of Malignant Small Round Cell Tumors of the Brain and Pathology of CNS Infections, Summer CME, GNRC Institute, Guwahati in July 2007
• Pathology of CNS tumors, August 2007 and Pathology and genetics of embryonal tumors, February 2008, Seminars for PG students, IRCH, AIIMS:
• Approach to Diagnosis of Muscular Dystrophies, Embryonal tumors: Pathology and differential diagnosis and Approach to Diagnosis of Meningeal Tumors, CME in Pathology, Christian Medical College and Brown Medical College, Ludhiana, October 2007.
• Spectrum of Pediatric Brain Tumors & Status of Brain Tumor Banking in India. Neuro-Update 2007, Fortis Hospital, NOIDA, December 2007.
Dr. Rajni Safaya
- Slide seminar in “Update in Surgical Pathology 2007”, held in Tata Memorial Hospital, Mumbai, India, from 31st Aug. to 2nd Sept., 2007.

Dr. S. Datta Gupta
- Panel discussion on “Metastatic Ovarian Tumours” at The symposium on Ovarian Cancer, All India institute of medical Sciences, New Delhi 13-14 April 2007
- Conducted a Clinico-Pathological Conference (CPC) on “Necrotizing Sarcoidosis” at the XVII Annual CME of the Association of Physicians of India, Delhi State Chapter, on 04 November 2007.

Dr. A. K. Dinda
- CME on Renal Pathology organized by Indian Society of Renal and Transplantation pathology on 12th December 2007 at Sir Ganga Ram Hospital, Rajinder Nagar, New Delhi, guest lecture entitled, “Podocytes and molecular markers in idiopathic nephrotic syndrome”.
- Pre-conference CME, 56th Annual Conference of Indian Association of Pathologists and Microbiologists, 26th December, 2007, Post Graduate Institute of Medical Education and Research, Chandigarh, invited lecture, “Recent advances in imaging and image analysis”.

Dr. V. K. Iyer
- Role of fine needle aspiration cytology in the management of pediatric renal and liver tumors. International symposium on recent advances in pediatric oncology. AIIMS New Delhi (2007)

Dr. S. Mathur
- Delivered a lecture entitled “Role of Cytology in management of ovarian cancer” in the symposium on Ovarian Cancer organized by the Dept of Medical Oncology, IRCH at AIIMS on 13th April 2007.

National and International Conferences

Lectures delivered
1. Prof. S.K. Panda presented a poster of Distinction during the 58th Annual Meeting of the American Association for the Study of Liver Diseases (AASLD), 2-6 Nov., 2007, Boston, USA.


8. Sarkar C. Morphology of High Grade Gliomas and Importance of their Molecular Markers in Diagnosis. EBM conference on Molecular Diagnostics, Tata Memorial Hospital, March 2008.


10. Dr S Datta Gupta delivered a Guest Lecture on “Interpretation of Liver Biopsy” at the XIX Annual Conference of the North Eastern Regional Chapter of the Indian Association of Pathologists and Microbiologists, Agartala, Tripura 09 September 2007

11. Dr S Datta Gupta conducted a Slide Seminar at the XIX Annual Conference of the North Eastern Regional Chapter of the Indian Association of Pathologists and Microbiologists, Agartala, Tripura 10 September 2007


17. Dr A. K. Dinda. ASSOCHAM 5th Global Knowledge Millennium Summit, 18-2 September 2007, New Delhi, “Health and safety issues in nanotechnology”.

18. Dr A. K. Dinda. Annual Conference of Indian Association of Pathologist and Microbiologists, Delhi Chapter, 28 April 2007, “Nanotechnology in Diagnostic Pathology”.

19. Dr A. K. Dinda. “Nanotechnology” in 12th refresher course on Environmental Sciences, 18th April, 2007, Jawharlal Nehru University, Delhi.


35. Das P, Sharma MC, Rishi A, Suri V, Sarkar C. Childhood Chordomas: Twenty seven years of clinicopathologic experience from All India Institute of Medical Sciences, India. Delhi Chapter IAPM, April 2007.


proteins with histological typing and clinical outcome. 56th Annual Conference of IAPM, PGIMER, Chandigarh, November 2007,


RESEARCH

**Completed**

1. To Study the site of replication of hepatitis E virus (HEV) by inlocalizing the viral replicase (RdRp) into the subcellular compartments by transfection studies using HepG2/Huh7 cells and fusion reporter construct; S. K. Panda; Funded by DST (2004 – 2007);
3. Development of small interfering RNAs (siRNAs) for Inhibition of Hepatitis E virus (HEV) Replication and Transcription; S. K. Panda; Funded by DBT for 3 years (2004 – 2007).
4. Myopathic disorders: a comparative clinico-pathological and in vitro proton magnetic resonance spectroscopy (MRS) study on muscle biopsies, Dr. Chitra Sarkar, ICMR, Rs. 6 lacs (approx), 3 years (2004-07)
5. Multicentric study of Interferon-Glycyrrhizin combination therapy and Interferon- Ribavirin combination therapy in management of Chronic Hepatitis C. Funded by Indian Council of Medical Research (ICMR) as Chief Investigator of Histopathology Reference Centre with Prof S.K. Acharya (Dept. of Gastroenterology & Human Nutrition, All India Institute of Medical Sciences, New Delhi) as Chief Investigator. (Code No. I 350 / ICMR) [ICMR Funded 2002-2005 Rs.1010790=00]
6. Genomics and molecular studies on the immunopathogenesis of Bronchial Asthma: A multicentric Project. Dr AK Dinda, DBT, Rs 70,00,000, 2005-07.
7. Post Chemotherapeutic Expression of Apoptotic Proteins in Hepatoblastoma. Dr. Venkateswaran K Iyer, Rs 105,000, AIIMS, 2 yrs

**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; Funds: Rs 65.85 lakhs; Funded by DBT for three years (2007-2010).
2. Investigation related to mechanism of entry of HEV into the host cells; S. K. Panda; Funds: Rs 84.89 lakhs; Funded by DBT for 3 years (2008-2011).
3. Fund for improvement of S&T infrastructure in Universities and higher Educational Institutions (FIST), Funding Agency: DST, Funds: Rs 2.7 crore duration: Five years
4. Glial tumors: a correlative clinicopathological study of chromosomes 1p/19q status, epidermal growth factor receptor (EGFR) amplification and p53 expression Glial tumors: a correlative clinicopathological study of chromosomes 1p/19q status, epidermal growth factor receptor (EGFR) amplification and p53 expression. Dr. Chitra Sarkar, ICMR, Rs 16.5 lakhs (approx), 3 years (2007-10)
5. Ligand based selection from combinatorial libraries for generating recombinant antibodies to the placental (oncofoetal) isoenzymes of alkaline phosphatase: characterization and validation in clinical cancer. Dr. Chitra Sarkar (Co-PI), DBT, Rs 25 lakhs (approx), 2005-08.
6. Acute thalamic involvement in severe head injury-An autopsy study with histopathological correlation. Dr. Chitra Sarkar (Co-PI), AIIMS, Rs 2.2 lakhs (approx), 2006-09.
7. A randomized phase-3 study of enzastaurin versus lomustine in the treatment of recurrent intracranial GBM. Dr. Chitra Sarkar (Co-PI), Eli Lily, Rs 5 lakhs (approx), 2006-07.
8. An open label prospective multicentric study to evaluate the safety and efficacy of BIOM Ab-EGFR Tm (Nimotuzumab) as induction and maintenance therapy in combination with radiotherapy plus temozolamide (concomitant and adjuvant) in Indian patients with glioblastoma multiforme. Dr. Chitra Sarkar (Co-PI), Biocon, Rs 15 lakhs (approx), 2007-08.
9. A multicentre, 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 alone in the treatment against Anaplastic Thyroid Carcinoma. Dr. Chitra Sarkar (Co-PI), OXiGENE Inc., USA, Rs 5 lakhs (approx), 2007-08.
10. Role of Sonic Hegdehog signaling in Human Cerebellum Development. Dr. Chitra Sarkar (Co-PI), NBRC, DBT, Rs 15 lakhs (approx), 2007-09.
11. 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 (approx), 2007-10.
12. Study of the role of bone marrow derived mononuclear cells in peripheral nerve repair of adult rats. Dr. Vaishali Suri (PI), AIIMS, Rs 18 lakhs, 2006-09.
13. Development of nanoparticulate system for selective receptor specific macrophage targeting. Dr AK Dinda, DBT, Rs 30,90,000, 2007-09.
14. Evaluation of chromosome 1p and 11p deletions in hepatoblastoma and hepatocellular carcinoma, Dr VK Iyer, Funding Agency: AIIMS, Rs. 325,000, Duration 3 years
15. “p16INK4a and E-cadherin expression profile in pre-cancerous lesions of cervix and cervical carcinomas”. Dr Sandeep R Mathur, AIIMS, Rs 1 lakh, 2007-08.

**Departmental Projects**

**Completed**

1. Comparative evaluation of expression of dystrophin, utrophin and n-NOS in muscle and skin biopsy of patients with dystrophinopathies.
2. A correlative study of morphological subtype of Focal Segmental Glomerulosclerosis (FSGS) and tubulo-interstitial changes in renal biopsy.
3. An ultrastructural study of glomerular changes in renal biopsy of HIV patients with persistent proteinuria.
4. Study of C4d deposition in peritubular capillaries of renal transplant biopsy and its correlation with morphological features of severity of rejection
5. Wilms’ Tumor: Relation of Apoptotic Gene Expression with subtype, chemoresponse and prognosis.
6. Hepatoblastoma: Role of DNA ploidy, cell proliferation and cytokeratin 19 expression in subtyping and prognosis.
7. Morphological and morphometric evaluation of follicular lesions of thyroid on fine needle aspiration cytology
8. Cytological evaluation of extra-gonadal germ cell tumours.

**Ongoing**
2. GBMs with long term survival – Role of cell cycle regulatory genes.
3. Study of gliomagenesis: Possible involvement of CNS developmental pathway
4. p53, EGFR & HER2 receptor in osteogenic sarcomas
5. Childhood GBMs: A clinicopathological and molecular genetic study
6. Study Of Limb Girdle Muscular Dystrophy (LGMD) Patients In Indian Population Using Calpain-3, Dysferlin And Sarcoglycan Protein Analysis
7. Clinicopathological study of angiogenesis in glioblastoma multiforme.
8. Study of alteration of microvascularity in renal biopsy in chronic renal transplant rejection.
9. Role of macrophage in modulation of renal fibrosis.
10. Ultrastructural study of podocyte changes in immune and non-immune mediated glomerular diseases.
11. Study of endocytosis and fate of calcium phosphate based and gold nanoparticle.
12. Modulation of macrophage function with nanoparticle.
13. Transplant glomerulopathy; An ultra structural, immunohistochemical and morphometric study.
14. Airway remodeling in Bronchial Asthma; A study in experimental mice model.
15. The spectrum of 11p13 and 11p15 deletions in Wilms tumor with histological correlation
16. Immunohistochemical and image analytic characterization of primary and recurrent giant cell tumor of bone
17. Study of cytological features of Solid-pseudopapillary neoplasm of the pancreas.
19. Role of PET-CT in osteosarcoma for initial staging and chemotherapy response evaluation; comparison with conventional radiological modalities (MRI scan, CT scan, & Bone scan) and histopathological tumor necrosis. Institute Rotary Cancer Hospital (IRCH), AIIMS, New Delhi

**Collaborative Projects**

**Completed**
1. Invasive versus non-invasive meningiomas: comparative study of proliferation index, and expression of VEGF, p53 and cathepsin.- Dept. of Neurosurgery, AIIMS.
2. Morphological features of steatosis in Non-alcoholic steatohepatitis and HCV hepatitis (Gastroenterology)
3. Evaluation of epithelial proliferation in pediatric and adult cholesteatoma (ENT)
4. A study of T cell homing pattern and cytokine profile in tubercular pleural effusion (Dept of HLA & Immunogenetics)
5. Telomerase activity in paediatric renal tumors (with paediatric surgery)
6. A correlative study of Th1 and Th2 upregulation with lepromin challenge in clinically “anergic” cases of leprosy – (JALMA – Agra)
7. A comparative study of VIA, cytodiagnosis, HPV testing and colposcopy as tools for cervical cancer screening. (with Gynaecology)
8. The role of percutaneous vertebroplasty in the management of painful vertebral lesions. (with Radio-Diagnosis)

Ongoing
1. Advanced Center for Liver Diseases ICMR Project [I-441] comprising of five projects with Prof SK Acharya (Gastroenterology, AIIMS))
2. Immunogenetic analysis and HPV typing of cervical cancer in Indian women; in collaboration (Department of Obstetrics and Gynecology, AIIMS)
3. Development of HPV candidate vaccine/s: preparation of a clinical trial site/ cohort for vaccine testing; in collaboration (Department of Obstetrics and Gynecology, AIIMS)
4. 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
5. Study of HIC-1 in tumorigenesis and cell response – Dept of Biochemistry, AIIMS
6. Effects of administration of human umbilical cord blood cells (HUCBG) in combination with melatonin versus HUCBG along in rat with stroke – Dept of Neurology, AIIMS
7. Altered DNA sequences in gliomas: characterization of changes and context sequences with reference to tumor type – Dept of Biochemistry, AIIMS
8. Characterization of the properties of an amplified region of DNA in primary meningeal tumors – Dept of Biochemistry, AIIMS
9. Analysis of FAT gene in glial tumors – Dept of Biochemistry, AIIMS
10. Pilocytic astrocytomas : correlation of clinical features and outcome with proliferation index and angiogenesis – Dept of Neurosurgery, AIIMS
11. Advanced Center for Liver Diseases ICMR Project [I-441] comprising of five projects with Prof SK Acharya, Prof SK Panda as one of the Co-investigators (with Gastroenterology)
12. Etiological significance of microscopic colitis in chronic diarrhea in children and its pathogenesis. Funded by the Indian Council of Medical Research (ICMR). Co-Investigator with Dr Shinjini Bhatnagar (Department of Paediatrics, All India Institute of Medical Sciences, New Delhi) as a Principal Investigator. (with Pediatrics)
13. Multicenter phase III randomized trial comparing Doxorubicin and Cyclophosphamide followed by Docetaxel (AC’!T) with Doxorubicin and Cyclophosphamide followed by Docetaxel and Transtuzumab (Herceptin ®) (AC’!TH) and with Docetaxel, Carboplatin and Transtuzumab (TCH) in the adjuvant treatment of node positive and high risk node negative patients with operable breast cancer containing the Her2 alteration. Funded by the British Cancer International Research Group as one of the co-investigators with Prof PK Julka as the local Co-ordinator and investigator. (with Radiation Oncology)
14. Relationship between genetic polymorphism in drug metabolizing enzymes, CYPIAI and GSTM1, and risk of developing oral precancer and cancer among consumers of tobacco and
chewing products. Funded by the Indian Council of Medical Research as one of the Co-Investigators with Prof GK Rath, Prof PK Julka, Prof Anurag Srivastava and Dr Ranju Ralhan as the Investigators/Co-Investigators. (with Biochemistry, Surgery, Radiation Oncology, Surgical Oncology)

15. Histological diagnosis of Celiac disease and its correlation with other markers (Pediatrics)
16. Clinicopathological study of reflux Esophagitis (Gastroenterology)
17. Distinction between Crohn’s Disease and Tuberculosis in Indian patients (Gastroenterology, Biotechnology)
18. Histopathology of Acute and Subacute Liver Failure (Gastroenterology)
19. Evaluation of molecular markers and anticancer agents in Non-Small cell lung cancer (Biochemistry)
20. A comparison of urease based tests and conventional histology with immunohistochemistry for detection of H pylori in gastric biopsies (Gastroenterology, Microbiology, Nuclear Medicine)
21. A study of molecular markers in oral cancers (Biochemistry, Surgery, Surgical Oncology)
22. A study of molecular markers in cervical cancers (Biochemistry, Obstetrics & Gynecology)
23. Evaluation of efficacy of radiofrequency ablation of primary tumour in early breast cancer (Surgery, Radiation Oncology, Nuclear Medicine, Radio Diagnosis)
24. Emerging parasitic etiologies in malabsorption syndromes (Microbiology, Pediatrics, Gastroenterology)
25. Significance of tumour thickness and molecular margins in cancer of the tongue. (ENT)
26. Effect of Glutamine Supplementation on structure and function of the intestines in patients with Crohn’s Disease (Gastroenterology)
27. Clinicopathological features of Microscopic Colitis. (Gastroenterology, Pediatrics)
28. Evaluation of Curcumin in advanced Cervical Cancer (Biochemistry, Obstetrics and Gynecology, Radiation Oncology)
29. Pharmacological and molecular studies on cardioprotective potential of cox-2 inhibitor and indigenous antioxidant drugs in experimentally induced myocardial infarction – Pharmacology
30. Development of tumor targeting with nanogel system. (Center for Biomedical Engineering, IIT, Delhi).
31. Role of macrophage and oxidative stress in airway remodeling (IGIB, Delhi).
32. Effect of blocking of HIF1á gene expression on macrophage endocytosis and generation of ROS. (JNU, Delhi).
33. Detection and molecular characterization of Pneumocystis jiroveci from patients with clinical diagnosis of interstitial pneumonia (with microbiology)
34. Molecular detection and genotyping of HPV in cervical cancer – a population based study (with biochemistry)
35. Study of genetic polymorphisms of dihydropteroate synthase (DHPS) gene in Pneumocystis jiroveci isolates: correlation with clinical outcome in patients with PCP. (with microbiology)
36. Development of HPV candidate vaccine/s: Preparation of a clinical trial site/cohort for vaccine testing (with Department of Gynaecology)
37. Randomized study of preoperative short course radiotherapy (25 Gy) Vs preoperative concurrent radiotherapy (45Gy) and chemotherapy followed by surgery in rectal cancer. (Funded by ICMR). With Dept of Radiotherapy.
38. A randomised phase II biomarker neoadjuvant study of sequential AC followed by Ixabepilone compared to sequential AC followed by Paclitaxel in women with early stage breast cancer not over expressing HER-2 and estrogen receptors”. With Dept of Medical Oncology.
39. Correlation of HPV DNA testing with residual disease in treated cases of CIN. With Dept of Obstetrics & Gynecology.
41. A comparative study of Histopathological changes in ascending aorta and the risk factors related to histopathological conditions and aortic dilatation in patients with Tetralogy of Fallot and a functionally univentricular heart.

PUBLICATIONS


Chapters in Books

PATIENT CARE

Laboratory services
Surgical Pathology Laboratory
Specimens processed 32752
Special stains 27423
Frozen sections 564

Cytopathology Laboratory
Total specimens 20107
FNAC (out patient) 6937
Ultrasound guided FNAC 1371
Exfoliates routine 11524
Millipore preparations 275
Immunocytochemistry 38
Autopsies performed 31
Electron microscopy specimens processed 938
Immunohistochemistry Laboratory Specimens processed 11099

Neuropathology services
Neuropathology surgical specimens 2376
Immunohistochemistry 2837

Muscle biopsies
Total number received 408
Muscle enzyme histochemistry 1719
Myelin stain 244

Tissue Culture Lab
Special stains 762
Immunohistochemistry 595
Frozen sections 1225

Renal pathology services
Urine sediment analysis 878
Immunofluorescence of kidney biopsy 687
Electron microscopy of kidney biopsy 80

Cardiac Pathology Services
Routine Cases 80
Research Cases 229
Poly. L Lysineslides 14,500
Special stains 338
Unstained 140

Hepatic Pathology Services
HBs Ag 1440
HBe Ag 1760
HBc-IgM 264
HAV IgM 256
Anti-HCV IgG 800
Anti-HEV IgM 216
HBV DNA 761
HBV DNA (quantitative) 82
HCV RNA (Qualitative & Quantitative) 183
Anti-HBc 344

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Dr S. K. Panda was Expert for selection of Sr. Research Associates (Pool Officer), CSIR.

Dr Chitra Sarkar was nominated as member of the Subject Expert Committee on Life Sciences of the ‘Fund for Improvement of S&T infrastructure in Universities and other higher education institutions’ (FIST) program of Department of Science & Technology, Govt. of India; Program Advisory Committee on Health Sciences, of DST, Govt. of India; Expert Committee, Women Scientist Scheme, DST, Govt. of India; Chronic Disease Biology Committee of DBT, Govt. of India; nominated as Vice President of the Asian Society of Neuropathology; nominated as Executive Member of the Neuro-Oncology Society of India; was invited as a Guest Faculty to participate in Meeting of Asian
Dr Ruma Ray was awarded Fellowship of the Royal College of Pathologists, UK.

Dr Vaishali Suri won the Herbert Krause Gold Medal for the paper entitled “Pediatric glioblastomas, a histopathological and molecular genetic study” at the 56th Annual conference of Neurological Society of India, Agra, December 2007.

Dr Shipra Agarwal, junior resident, won the Ramalingaswami award for Best paper for: Relation of FNAC and apoptotic gene expression with subtype, chemotherapy response and prognosis in Wilms tumor. Indian Association of Pathologists & Microbiologists, Delhi Chapter, 2007

Dr Ayushi Jain won First Prize for the poster entitled “MELAS (Mitochondrial myopathy, encephalopathy, lactic acidosis and stroke like episodes) with urticaria pigmentosa- report of a rare case” at the Xth annual conference DNA (DNACON-2008), Delhi.

Dr Arvind Ahuja won the Second Prize for the poster entitled “Malignant transformation of benign meningiomas after gamma knife radiosurgery: report of two cases”. 56th annual conference of IAPM, PGIMER, Chandigarh, November 2007; Appointed as Visiting Research Fellow of New South Wales University, Sydney, Australia from March, 2008 to February 2011 (3 Years)

Dr S. Datta Gupta was elected Honorary Secretary, Indian Association of Pathologists and Microbiologists in 2006.

Dr Amit Dinda was nominated as Indian resource person for organizing Indo-US workshop on Tissue Engineering and Regenerative Medicine in India 2008-09; elected Honorary Editor, Journal of Indian Society of Renal and Transplantation Pathology; nominated as advisor to Association of Chambers of Commerce, India for development of policy related to safety issues in nanotechnology; A documentary film on the hydrogel based biocompatible implant for drug delivery developed as a collaborative project with IIT Delhi has been commissioned for History Channel as “INDIA INNOVATES – A Documentary on path-breaking scientific technologies from India with a significant global impact”, by The Ministry of External Affairs, Government of India.

The procedure for detection of deletions of 1p&19q using Fluorescence in situ Hybridization (FISH) on formalin fixed paraffin embedded tissue for the diagnosis and prognostication of oligodendrogliomas and Western blotting for diagnosis of calpainopathy, a common form of limb girdle muscular dystrophy, has also been standardized for the first time.

VISITING SCIENTISTS

- Dr. Baibaswata Nayak, Faculty Research Associate, Department of Veterinary Medicine, University of Maryland, College Park, USA visited the Department of Pathology and delivered a lecture entitled “Myo-Inositol Oxygenase (MIOX) – its regulation during metanephrogenesis and diabetic nephropathy” and Novel Vectored vaccines for Control of Highly Pathogenic Avian Influenza Viruses” on 11th April, 2008. AIIMS, New Delhi.
- Dr. Nitya Ghatak, Director of Neuropathology, Virginia University, USA visited the Neuropathology laboratory and presented a Slide seminar on Interesting cases in January 2008.
EDUCATION

Undergraduate
a. The teaching of undergraduates has undergone a significant change in its content in the Pharmacology curriculum in the current year. Several topics of Clinical Pharmacology have been introduced in the form of lecture/group discussions & integrated mini symposia. Such topics include: Management of systemic fungal infections, management of HIV & opportunistic infections, Drug Development-A Practical Approach, Environmental Pharmacology, H5N1 infections & opportunistic infections, management of osteoporosis, diabetes mellitus, peptic ulcers, & bronchial asthma.

b. A novel method of assessment of undergraduate students has been introduced in the form of group discussion during mid & end semester examinations.

c. Objective Structured Electronic Examination (OSSE) was also introduced in the mid/end semester examinations.

d. The interactive discussions on subject through Email with undergraduate students has also been started and the feedback has been enormous.

e. The conventional practical classes of pharmacy have been replaced with demonstration & group discussion on marketed pharmaceutical products, new drug delivery systems, prescription audit, drug interaction exercises etc.

f. Animal experimentation (isolated tissue experiments) have been minimised in the form of demonstration only. These have been replaced with computer simulated exercises.

Postgraduate
In order to meet the appropriately trained human resource to meet the requirements of the academic & research institutions, the pharmaceutical industry, regulatory bodies, and also in the area of scientific writing, several initiatives have been taken in the training of MD & DM students. Five
lectures from experts in the industry were organised in the department on contemporary topics. Several interactive Mini Symposia, in collaboration with clinicians and industry experts, were also organised on important topics such as Strategic Approach for Biomarkers in Drug Development, Phase II & III clinical trials, Mechanisms of Placebo, Pharmacoepidemiology, Epigenetics & Complex Diseases, and Toxicogenomics.

**Continuing Medical Education**

**Conferences, Seminars, Workshops organized by the Department -**


**Lectures delivered**

**Dr Y. K. Gupta**

2. “Pharmacovigilance in India” at DIA Conference at San Diego, USA on April 26, 2007.
5. Key Note Address at the National Seminar on Quality Control & Standardization of Metal-Based Siddha and Ayurveda Medicine at Sasatra University, Tanjavur on August 3, 2007.
6. “Pharmacovigilance-An Introduction” at the “Round Table Session of the Japan Society for the promotion of Science (JSPS) on “Development for the medicinal Chemistry based on biologically active natural products in the subtropical zone” in Tokyo, Japan from Feb 9-13, 2008.
9. “SWOT Analysis of Pharmacovigilance, PMS, PSUR in India” at Moscone North Convention Centre at San Francisco, USA on March 27, 2008.
10. “Status of Independent & Institutional Ethics Committees in India” at Moscone North Convention Centre at San Francisco, USA on March 26, 2008.
12. Special lecture on “Clinical Trials in India” at University of Maryland, Department of Neurology, Maryland, USA on April 4, 2008.
13. Talk on “Antioxidants and Herbal Drugs in Neurological Disorders” at MNI, Montreal, Canada on April 11, 2008.
14. “Navigating the Regulatory Landscape throughout Asia” at Moscone Convention Centre, San Francisco, USA on March 27, 2008.

RESEARCH

Departmental Projects

Ongoing

Dr Y. K. Gupta
2. Pharmacological Evaluation of plant extracts and their medicinal products. Funded by Ranbaxy research foundation. Duration of project is

Dr. Kamal Kishore
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.

Dr. S. K. Maulik
2. Modulatory effects of phytoadapto gens on cardiovascular and neurological changes induced by experimental stress in rats. Department of Science and Technology, New Delhi.
3. Estimation of oxidative stress during oral iron supplementation (daily vs weekly) with or without Vitamin C among anaemic pregnant mothers- An ICMR Task Force Study. Funded by the Indian Council of Medical Research, New Delhi.

Dr. K. H. Reeta
1. Plasma level monitoring of mycophenolic acid and clinical outcome in renal transplant patients (Institute Research Grant, 2007-2008) Funds: Rs 1.00 lakhs.

Dr. Surender Singh
1. Major research project funded by ICMR, New Delhi on “Standardization and pharmacological studies on antiarthritic Unani formulation “Majoon suranjan” based on clinical Unani literature” as Principal Investigator. Duration of period 3 years. Funds: Rs 20,99,160/-

Completed
2. Dr. Jagriti Bhatia- Neurobehavioual evaluation of hydroalcoholic extract of *Emblica officinalis* with special reference to its antiepileptic activity.
3. Dr. Jagriti Bhatia- AIIMS funded project on “Evaluation of anti-inflammatory activity of plant lipids containing alpha-linolenic acid” as Principal Investigator.
PUBLICATIONS

Journals

Abstracts

**Chapters in Books and Monographs**


**PATIENT CARE**

**Urinary Catecholamine test**

Urinary catecholamines estimation is routinely performed in the department for the diagnosis of pheochromocytoma (adrenal gland tumor). A total of 220 samples from different departments were analyzed during the year.

**Clinical Pharmacology Facility**

As an extension of the Department of Pharmacology, a newly constructed wing in New Private Ward building was taken up as ‘Clinical Pharmacology Wing’ by Department of Pharmacology in collaboration with Forensic Medicine to upscale patient care facilities and in-patient wards for various clinical pharmacology activities.

**Therapeutic Drug Monitoring Facility**

Therapeutic drug monitoring has become important for dose titration of many drugs of narrow therapeutic margin. The Department of Pharmacology in collaboration with the Department of Nephrology at All India Institute of Medical Sciences, has started therapeutic drug monitoring facility of several drugs for patient care and research. To start with, antiepileptic drugs, immunosuppressants like cyclosporine, and methotrexate have been started for patient for patient care free of cost. In the year 2007-2008, the following samples were from different departments were done for patients:

- Leutinizing Hormone (LH) 35 patients
- Follicular Stimulating Hormone (FSH) 7 patients
- Estradiol (E2) 38 patients
- Progesterone 4 patients
- Prolactin 1 patient
- Valproate 65 patients

**National Poison Information Centre:** The Department of Pharmacology has a 24X7 National Poison Information Centre, which caters to calls from all over the country in providing information about poisoning, management, symptomatology and specific antidotes. Some qualitative as well as quantitative tests are also done in the department for various poisons.

In the year 2007-08, the centre received a total of 1002 calls about poisoning and their management from all over the country.
Total Poisoning Calls (941 Calls)

Total Information Calls (61)

<table>
<thead>
<tr>
<th>Household Products</th>
<th>Agricultural Pesticides</th>
<th>Industrial Chemicals</th>
<th>Drugs</th>
<th>Bites &amp; Stings</th>
<th>Plants</th>
<th>Unknown</th>
</tr>
</thead>
<tbody>
<tr>
<td>397</td>
<td>133</td>
<td>111</td>
<td>180</td>
<td>22</td>
<td>30</td>
<td>52</td>
</tr>
<tr>
<td>Oral Route</td>
<td>Dermal Route</td>
<td>Inhalation</td>
<td>Others</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>907</td>
<td>21</td>
<td>9</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Suicidal cases: 430
Accidental cases: 481
Others: 30

National Pharmacovigilance Programme: CDSCO, Ministry of Health, Govt. of India had initiated the National Pharmacovigilance Programme with 32 centres including five regional and two zonal centres. AIIMS is the designated Zonal Centre for the North East region of the country and receives data from peripheral and regional centres of this region. The data is then collated and analysed for causality assessment of the adverse drug reactions which is then submitted to the Centre (CDSCO) which is the National Centre. The Zonal Centre received a total of 1790 Adverse Drug Reaction Reports in the year 2007-2008 from North and East Region.

Awards and Honours

During the year (2007-2008) Dr. Kamal Kishore was awarded Rashtriya Gaurav Award by India International Friendship Society

1. Dr. Madhur Gupta was awarded during the year 2007-2008 the “Shakuntala Amir Chand Prize” by the Indian Council of Medical Research, New Delhi, for her published research work on pharmacotherapy of epilepsy in children

Significant Events

Awareness & Training in Good Clinical practice (GCP) and Good Laboratory Practices (GLP): The department has been instrumental in the inception and conduct of several GLP and GCP workshops in the past years including this year. Various training sessions for scientists, faculty, and more importantly for the junior scientists were organised for the same.

Dr Y.K. Gupta is Member, Review Committee of Central Council for Research in Ayurveda and Siddha New Delhi; Member, Review Committee of Central Council for Research in Unani Medicine New Delhi; Chairman, National Technical Committee on Good Laboratory Practices (GLP), New Delhi; Member, Expert Group to review toxicity data for indigenous manufacture of pesticide formulation, Directorate of Plant Protection, Quarantine and Storage; Ministry of Agriculture, GOI; Member, Task Force to increase the undergraduate and postgraduate seats at AIIMS; Chairman, Project Advisory Committee on Biomedical Science and Technology, Department of Science and Technology, New Delhi; Member, Screening Committee for HIV/AIDS under Golden Triangle Partnership Programme, ICMR, New Delhi; Member, Working Group on Development of Antifertility Agent ISM Drug Pippalyadi Yoga; Member, Task Force on ‘Quality standards of Indian medicinal plants’ by ICMR; Member, Task Force for Science and Society Division of Department of Science and Technology, New Delhi; Member, Review Group of Programme ‘Charak’ by Defence...
Research and Development Organization, Delhi; Chairman, Ethics Committee, Fortis Flt Lt Rajan Dhall Hospital, Vasant Kunj, New Delhi; Expert Member, Biomedical Ethics Committee, Sitaram Bhartiya Institute for Science and Research, New Delhi; Chairman, Committee for Amendment of Insecticides Rules, 1971 of Plant Protection and Quarantine and Storage, Faridabad; Member, Task Force on Biotechnology for Medicinal and Aromatic Plants of Department of Biotechnology, New Delhi; Member, Ethics Committee for Research on Human Subjects, AIIMS; Member, National Disaster Management Authority, Government of India; Member, Navodaya Vidyalaya Samiti, New Delhi; Member, High Powered Committee on ‘Global Environment Change and Health’ of ICMR; Member, Drug Selection Committee, AIIMS; Member, Project Review Group INDO-US Project proposals of National Institute of Occupational Health, Ahmedabad; Member, Scientific Advisory Committee on Food and Water Safety, International Life Sciences Institute, India; Editor, IJPP (Pharmacology Section)- A national peer-reviewed journal of pharmacology and physiology in India; Coordinator, Zonal Centre of National Pharmacovigilance Programme under the aegis of the CDSCO, New Delhi; Member, Research Council, Central Drugs Research Institute, Lucknow and Central for Cellular and Molecular Biology, Hyderabad; Member, Institutional Review Board for National Institute of Health and Family Welfare, Delhi; Member, IUNS–IUPS–IUPHAR National Committee; Member, IUPHAR-IOSP International Committee; Member of Consumer Awareness Task Force, Ministry of Health and Family Welfare, New Delhi; Member, National Environmental, Engineering Research Institute, Nagpur; Member, Editorial Board of Indian Journal of Experimental Biology, Indian Journal of Pharmacology, Journal of Ecophysiology and Occupational Health, Annals of Neurosciences, Indian Journal of Medical and Pediatric Oncology.

Dr. Surender Singh is Member, Project Evaluation committee, Department of AYUSH, Govt. of India; Member , Pharmacopoeia Committee (U), Department of AYUSH, Govt. of India; Member , Apex Appraisal Committee, AICTE, Govt. of India; Member , Inspection Committee, Pharmacy Council of India, Govt. of India; Member , Expert Committee (PGDPSM), IGNOU, Govt. of India; Member , Board of Research Studies, Jamia Hamdard, New Delhi; Member , Board of Research Studies, UP Technical University, Lucknow (UP).
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 in their Thesis, and Computer Facility Project trainees.

CONTINUING MEDICAL EDUCATION

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. Delivered a talk on “Rehabilitation Approaches in Nerve Injuries” during the Inaugural conference of Indraprastha Association of Rehabilitation Medicine (Delhi Chapter of IAPMR), organized by the Department of PMR, AIIMS, New Delhi, held at India Habitat Centre, New Delhi, from April 7-8, 2007.

2. Delivered a lecture on “Quality of Life after Stroke” during the Mid Term CME program of the Indian Association of Physical Medicine and Rehabilitation, organized by Medical College, Trivandrum, September 15-16, 2007.

3. Delivered a lecture-cum-demonstration on “Prosthetics and Orthotics Aids and Appliances” during the 9th Post Graduate Instructional Course in Orthopedics, 2007, organized by Maulana Azad Medical College, New Delhi, October 5, 2007.

4. Delivered a lecture on “Rehabilitation of patients suffering from Neurological Disorders” during the “Neuro-nursing update” organized by College of Nursing, AIIMS, New Delhi, October 16, 2007.


6. Delivered a lecture on “Stroke Rehabilitation” during a course for Medical Officers in Rehabilitation, organized by NIOH, Kolkata, November 28, 2007.
7. Delivered a lecture on “CAD CAM and Newer Technology in Lower Extremity Prosthetics” during the pre-conference workshop on Osseointegration, organized by Indian Orthopaedic Association (IOACON) and NIOH, Kolkata, December 3, 2007.
8. Delivered a Key Note Address on “Future of In-patient Rehab Care in India” during Rehabasic Seminar, organized by Freedom Trust, Chennai, December 8, 2007.
11. Was a panelist on the following panel discussions during Basic Workshop on SCI Management during ISSICON 2008, organized by Spinal Cord Society (Indian Chapter), Indian Spinal Injuries Centre, New Delhi, February 25-27, 2008:
   a. Assessment of patients with SCI
   b. Pre-hospital and acute care of SCI patients
   c. Management of vertebral fractures in SCI
   d. Nursing in SCI patients
   e. Bladder and Sexuality Management of SCI
   f. Management of early and late complications of SCI
   g. Management of Pressure sores in SCI
   h. Therapy, wheel chairs and assistive devices in SCI

Dr. Gita Handa
1. Sportsmedcon 2007 as an organizing committee member on 16-17 November 2007
2. Faculty training Seminar on OCSP organized by CMET at AIIMS
3. Scientific committee Chairman and coordinator for Inaugural Conference of Indraprastha Association of Rehabilitation medicine, organised by the department at India Habitat Center on April 7-8, 2007

Conference Organised by Department
Inaugural Conference of Indraprastha Association of Rehabilitation Medicine, (Delhi Chapter of IAPMR), organized by the department of PMR, AIIMS, New Delhi, held at India Habitat Centre, New Delhi, from April 7-8, 2007.

Lectures delivered

Dr. U. Singh
1. Low Back Ache in Old Age, A Diagnostic Challenge, presented during the Mid Term CME program of the Indian Association of Physical Medicine and Rehabilitation, Medical College, Trivandrum, September 15-16, 2007.


Dr. S.L. Yadav
2. Role of Intra-articular Hyuran in the management of PA shoulder, our experience, presented in the 4th world congress of ISPRM, June, 10-14, 2007, Co Ex, Seoul, Korea.

Dr. Gita Handa
1. Guest Faculty at the Seminar Organized at National institute of Social Defence (NISD) on 23rd August, 2007 to deliver a Guest lecture on “Role of Rehabilitation Medicine in care of elderly”

Camps
Faculty and residents participated in different camps at Srikrishna Janambhumi Mandir at Mathura

RESEARCH

Collaborative Projects
1. ICF Core Set Development in:
   a. Stroke : Institute for health and Rehabilitation Sciences, University of Munich, Germany.
   b. Ank Spond : University Hospital Maastricht, The Netherlands.
   c. Spinal Corol Injury: Ludwig – Maximilians – University, Munich, Geramany.

PUBLICATIONS


PATIENT CARE

Facilities Available in the Department
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, Electrophysiology Lab, Minor O.T etc.

New Cases

<table>
<thead>
<tr>
<th>Facility</th>
<th>Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPD</td>
<td>12103</td>
</tr>
<tr>
<td>Ballabgarh</td>
<td>5287</td>
</tr>
<tr>
<td>Camps</td>
<td>125</td>
</tr>
<tr>
<td>Prosthetic &amp; Orthotic</td>
<td>2391</td>
</tr>
<tr>
<td><strong>Total New Cases</strong></td>
<td><strong>19906</strong></td>
</tr>
</tbody>
</table>

Old Cases

<table>
<thead>
<tr>
<th>Facility</th>
<th>Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPD</td>
<td>10182</td>
</tr>
<tr>
<td>OPD visits – PT section</td>
<td>14689</td>
</tr>
<tr>
<td>OPD visits – OT section</td>
<td>19657</td>
</tr>
<tr>
<td>OPD visits- MSW</td>
<td>2642</td>
</tr>
<tr>
<td>OPD visits-Vocational Counselor</td>
<td>2852</td>
</tr>
<tr>
<td>Disability Evaluation Clinic</td>
<td>232</td>
</tr>
<tr>
<td>Railway Concession certificates</td>
<td>840</td>
</tr>
<tr>
<td>Prosthetic &amp; Orthotic</td>
<td>9786</td>
</tr>
<tr>
<td>Minor O.T Procedures</td>
<td>2458</td>
</tr>
<tr>
<td><strong>Total Old Cases</strong></td>
<td><strong>63338</strong></td>
</tr>
</tbody>
</table>

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Dr. U. Singh won First Prize in Special Hindi Essay Competition (Category Non-Hindi Speaking) organized by AIIMS, New Delhi during Hindi Week, September 10-15, 2007; Awarded “Freedom Trust Award” for “Social Responsibility in the Field of Rehabilitation,” by Freedom Trust, Chennai, December 2007; Awarded second prize in the essay writing competition during the Vigilance Awareness Week 2007, AIIMS, November 13, 2007; Member of the Sub-Committee on Locomotor, Leprosy Cured etc., of Rehabilitation Council of India, Ministry of Social Justice and Empowerment; Chairman, Specialty Advisory Board in PMR, National Board of Examinations; Chairman, Technical Advisory Group, District Rehabilitation Center Scheme, Ministry of Social Justice and Empowerment; Member, Executive Council, National Institute for the Orthopaedically Handicapped,
Kolkata; Inspector, GGS IP University, Govt. of NCT, Delhi; Inspector, Rehabilitation Council of India; Member BIS, Rehabilitation Appliances and Equipment for Disabled Sectional Committee (MHD 10); Consulting Editor and Reviewer, Journal of Rehabilitation Council of India Locomotor and Associated Disabilities; Editor, Indian Journal of Physical Medicine and Rehabilitation; Organizing Chairman, Inaugural Conference of Indraprastha Association of Rehabilitation Medicine, (Delhi Chapter of IAPMR), organized by the department of PMR, AIIMS, New Delhi, held at India Habitat Centre, New Delhi, from April 7-8, 2007; Chairman of the Scientific Session II, Inaugural Conference of Indraprastha Association of Rehabilitation Medicine, (Delhi Chapter of IAPMR), organized by the department of PMR, AIIMS, New Delhi, held at India Habitat Centre, New Delhi, from April 7-8, 2007; Chairman of the following Scientific Sessions: (i) Prognostic Indices & functional outcome measures in Stroke, September 15, 2007; (ii) Free paper Session, 16 September 2007 during the National Mid Term CME 2007 of Indian Association of Physical Medicine and Rehabilitation, organized by Medical College, Trivandrum, 15-16 September 2007; 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; 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; Chairman, Scientific Session I, Pre Conference Workshop on Osseointegration and Newer Prosthetic System for Lower Limb, IOACON 2007, organized by IOA and NIOH, Kolkata, December 3, 2007; Chairman, Scientific Session IV, during the 36th Annual National Conference of the Indian Association of Physical Medicine and Rehabilitation, organized by Sweekaar Academy of Rehabilitation Sciences, Secunderabad, January 18-20, 2008; Chairman, Scientific Session II, Acute Management of SCI, during International Spine and Spinal Injuries Conference, organized by Spinal Cord Society (Indian Chapter), Taj Palace Hotel, New Delhi, 22 February 2008; Member, Academic Committee, National Institute for the Orthopaedically Handicapped, Kolkata.

Dr. Gita Handa is Assistant Editor - Indian Journal of Physical Medicine and Rehabilitation; Examiner for Post Graduate Programme in Sports Physiotherapy for GND University, Amritsar; Chairman of the Scientific Committee, Inaugural Annual Conference of the IAPMR (Delhi Chapter), held at IHC, New Delhi, April 7-8, 2007; Chairman of the Scientific Session at Annual Conference of IAPMR, at Secunderabad on 18-20 January 2008.

Dr. S.L. Yadav was Awarded WHO fellowship on Trauma and Rehabilitation at Royal North Shore Hospital, NSW, Sydney, Australia; Chosen as faculty (International) for teaching Neuro-rehabilitation by ISPO.
EDUCATION

Undergraduate Postgraduate/Paramedical
The department provided about 400 hours of teaching to the first year MBBS students and about 60 hours of teaching to students of BSc Nursing and allied courses, besides conducting MSc (Physiology) and MD (Physiology) courses and guiding PhD students. Dr Nalin Mehta designed and taught a module (10 sessions) on Bioethics as a part of the Departmental PG program and conducted a sensitization session followed by an interactive problem solving group session on Bioethics for Interns for the Interns Orientation Program and delivered a lecture “Ethics and Professionalism in Patient Care & Research” during the Post Graduate Resident Doctor’s Orientation Program conducted by AIIMS on 6 January and 13 January 2008, respectively.

Short-term and long-term training
The department provided short-term training for 2 months (15 May, 2007 to 14 July, 2007) to a student from BSc (H) Biomedical Science, Acharya Narendra Dev College, Delhi University; for 2 months (04.06.07–27.07.07) to a lecturer, Dr B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab; and for 15 days (15.6.07–29.6.07) to a lecturer, Surat Municipal Institute of Medical Education & Research, Surat and MSc (Biotechnology) and long term training for 6 months (4.7.07–31.7.07) to a MSc (Biotechnology) student from Department of Bio-Medical Sciences, Bundelkhand Univesity, Jhansi.

CONTINUING MEDICAL EDUCATION

Organised by the department
The Department of Physiology, AIIMS, conducted the National workshop on Assessment Methods in Learning Evaluation in Basic Medical Sciences from 20–22 September 2007. The workshop was attended by 37 faculty members from medical colleges across the country from the three pre-clinical disciplines. The Workshop was an extensive ‘hands-on’ training in groups for making,
analyzing and improving questions for each tool of assessment. Professor J. Sengupta (Chairperson), Dr Anjana Talwar (Organizing Secretary), Professor D. Ghosh, Dr Ratna Sharma, Dr Suman Jain and Dr R.K. Yadav were the members of the Organizing Committee of this workshop.

Lectures delivered

Dr R. Mathur


National and International Conference

Organised by the department

- Dr N. Mehta conducted a training session on “Priority Setting in Healthcare & Research” on 7.9.2007 during ICMR-NIH 10-week Training Program on Bioethics (20August–22 September 2007) for trainers, researchers, faculty and Institutional Ethics Committee Members, organized by Indian Council of Medical Research at St. Johns National Academy for Health Sciences, Bangalore.

Lectures delivered

Dr R. Mathur

- “Patterns of aggressive behaviour in rats exposed to chronic ELF-MF”, 95th Indian Science Congress, Visakhapatnam, 3–7 Jan., 2008.

Dr K.K. Deepak
• “Clinical Physiology to boost sports performance”, Sport Medicine and Arthroscopy Workshop Basic (shoulder), New Delhi; 18 March, 2007.
• “Objectives structured practical examination (OSPE): an overview”, National Workshop on Assessment methods for Learning Evaluation in Basic Medical Sciences, Department of Physiology, AIIMS; 21 Sept., 2007.
• “Monitoring of autonomic functions during cardiac rehabilitation program involving physical training”, 1st International Conference of Physiotherapy and Sports Sciences, Punjabi University, Patiala; 4–9 Oct., 2007.
• “Myocardial insult and autonomic neural function”, XIX Annual conference of Physiological Society of India (PSI), Faridabad; 6–8 Dec., 2007.
• Mechanism of setting of question paper, question banking and item analysis, Workshop on Effective Teaching/Learning Strategies in Nursing, College of Nursing, AIIMS; 14 Jan., 2008.
• Writing research proposals: Problems and solutions, 13th refresher course in environmental sciences, UGC Academic Staff College, JNU, New Delhi; 13 Feb., 2008.

Dr K.P. Kochhar
• Lecture series (5) on Healthy lifestyle, Physical Activity, Stress Management and De Addiction delivered to school students of Delhi as part of HRIDAY SHAN Project (Health Related Information Dissemination Amongst Youth-Student Health Action Network)

Dr N. Mehta

Dr S. Jain

Dr R.K. Yadav

Dr S.K. Sood

RESEARCH

Funded Projects

Completed
1. Histochemical investigations into the possible neural substrates responsible for sucrose induced pain modulation. Dr S. Jain. Funded by AIIMS, from 2006–2007. Funds: Rs. 1,00,000/-.
3. The effect of smoking on stress induced changes in cognitive functions. Dr A. Talwar. Funded by AIIMS from 2005–2007. Funds: Rs 1,40,000/-.

Ongoing
1. Elucidating endometriosis using genomic strategy. Dr J. Sengupta. Funded by Department of Biotechnology, from April 2007 to March 2010. Funds: Rs.1,66,94,000/-.


7. Role of the warm receptors of the preoptic area in altering sleep. Dr H.N. Mallick. Funded by Defense Institute of Physiology and Allied Sciences from August 2003 to August 2007. Funds: Rs 5.0 lac.

8. 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. Dr H.N. Mallick. Funded by ICMR from 15 Jan 2007 to 14 Jan. 2010. Funds: Rs.5.0 lac.


13. A study to assess acute mental stress induced changes in EEG, cognitive behavior and neurosteroids across the menstrual cycle and effect of meditation on stress induced changes. Dr R. Sharma. Funded by Central Council for Research in Yoga and Naturalpathy, Ministry of Health from 2006-2009. Funds: Rs.15.0 lac.


Departmental Projects

Ongoing
1. Effect of varying stimulus onset asynchronies on multisensory prepulse modulation of startle response.
2. Effect of speech and non-speech stimuli variation on prepulse inhibition in dyslexic children.
3. Effect of acute deep brain stimulation of the subthalamic nucleus on selective attention in Parkinson’s disease.

Collaborative Projects

Completed
1. Assessment of autonomic response and arterial stiffness using Photoplethysmographic signal (Centre for Biomedical Engineering, IIT Delhi).
2. Efficacy of a relaxation program during early postpartum period on volume of expressed breast milk in mothers of very preterm babies: A randomized controlled trial (Department of Pediatrics, AIIMS.)
3. Autonomic functions and selected immune markers in inflammatory bowel disease: Role of yogic intervention, (Department of Gastroenterology, AIIMS).

Ongoing
1. Purglautation of human adult retinal pigment epithelial (GRPE) cells in the 6-OHD & lesioned rat model of Parkinsons’ disease (PD), (Department of Neurology, AIIMS)
2. Assessment of endogenous opioid system and muscle spasm in headache patients, (Departments of Neurology, Psychiatry, Endocrinology; AIIMS)
3. Modified neuroendocrine method to estimate endogenous opioid levels in healthy volunteers, (Department of Endocrinology, AIIMS.)
4. Bioeffects of magnetic field: role of protein kinase C and cytochrome oxidase in adult rats, (School of Environment Sciences, JNU).
5. A comparison of autonomic function before and after surgical intervention in patients with temporal lobe epilepsy, (Department of Neurology, Neurosurgery, AIIMS).
6. Correlation between cardiovascular autonomic function and myocardial ischemia, (Department of Cardiology, AIIMS).
7. Cardiovascular autonomic functions after Myocardial Infarction: effect of short-term exercise training, (Department of Cardiology, AIIMS).
8. Autonomic dysfunction in newly detected Type-II diabetes mellitus patients, (Department of Endocrinology, AIIMS).
9. Electroencephalographic and sympathetic responses to visual and cues with emotional and rational contents, [Atal Bihari Vajpayee Indian Institute of Information Technology and Management, Gwalior].
10. Influence of prenatal auditory stimulation on the development of synaptic proteins, brain derived growth factor and spatial memory in chick hippocampus. (Department of Anatomy, AIIMS).
11. Role of proteomic approach and biomarkers in the diagnosis of endometriosis. (Department of Obstetrics and Gynaecology, AIIMS).

PUBLICATIONS

Journals


**Abstracts**


**Chapters in Books**


**Books and Monographs**


**PATIENT CARE**

Neurophysiology Research Laboratory offered assessment of pain and pain modulation status for chronic pain patients. 60 patients (headache, fibromyalgia) were assessed during the year. Autonomic function lab and vascular function lab provided diagnostic facility for referred patients. The labs provided routine test of autonomic reactivity along with autonomic tone quantification and non-invasive recording of gastric motility (electrogastrography, EGG). A total number of 888 subjects have been tested for autonomic function test this year, which included 715 patients.
Integral Health Clinic (IHC) is a patient care facility that offers a lifestyle modification course for the treatment of Lifestyle disorders like Ischemic heart diseases, Hypertension, Peptic Ulcer syndrome, Bronchial asthma, Diabetes mellitus, obesity. 10 courses were conducted. 38 patients attended the IHC.

Continuing Health Education to parents, school teachers and students of 500 of Delhi as part of HRIDAY SHAN Project.

AWARDS, 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 Member, Programme Advisory Committee in Health Sciences, Department of Science and Technology, Govt. of India; Member, National Committee of International Union of Physiological Sciences, International Union of Basic and Clinical Pharmacology of the Indian National Science Academy.

Dr R. Mathur Appointed Member Board of Studies, Department of Physiology, J N Medical College, Aligarh Muslim University, Aligarh; Member, Board of Research Studies of the faculty of interdisciplinary Research Studies, Jamia Hamdard University, Delhi; Member, Board of Studies of Department of Anatomy and Physiology, Jamia Hamdard University, Delhi; Member of PhD. Sub Committee in the Department of Physiology, Delhi University, Delhi; Continue to serve as a treasurer of Indian Society of Pain Research and Therapy, Delhi; Serving as inspector, Medical Council of India, Delhi; Member, selection board for recruitment of scientist (B, C) in Defense Research Developmental Organization, Government of India; Member selection board for recruitment of faculty, Institute of Postgraduate Medical Education & Research, Medical College, Rohtak; Kumar S, Jain S, Behari J, Behari M, Avelev V. D, Gupta A, Mathur R received the 2nd prize and best poster presentation certificate award by Editor in Chief of Asian Journal of Experimental Sciences (AJES) for the poster entitled “Effect of magnetic field on motor response of tail to a wide range of thermal stimuli in complete transection of spinal cord injured rats” in the workshop cum symposium on Electromagnetic Field: Bio-Interactions, Applications and Mobile Computing Electromagnetic Pollution, Jawaharlal Nehru University during March 14-15, 2008; Suri M., Jain S., Mathur R received the 1st prize for poster presentation entitled “study of dietary influence on pain perception in healthy adult male rat in the National symposium on “Emerging role of physiology and lifestyle intervention in health sciences”, Delhi, February, 2008.

Dr K. K. Deepak Member, education committee of International Union of Physiological Sciences; Appointed member, Board of Specialty of Physiology of Medical Council of India; Serve as Professor-Incharge, Examination Section, AIIMS; Appointed as Appellate Authority under RTI act 2005 for entire AIIMS; Served as Central Public Information Officer (CPIO) for examination related matter at AIIMS; Continue as member, Advisory Committee, Central Board of Secondary Education. Appointed as visiting Professor, conducted two days workshop on “Autonomic Testing and Autonomic Lab Organization in Department of Physiology, JIPMER, Pudducherry; Serving as member, Ethics Committee, AIIMS, New Delhi; Appointed as member, Institutional Animal Ethics Committee, AIIMS; Member expert committee for Evaluation/Ballistic trial of Bullet Proof Patka,
Bureau of Police R&D, Ministry of Home Affairs, Government of India; Appointed as Officer-In-charge, Legal Cell, AIIMS; Serving as member Project Advisory committee (DST) for Biomedical “International Collaborative Projects”, Department of Science and Technology (DST), Government of India; Member, Project Review and Steering Group for MCIT funded project on “pulse examination and diagnostics” under Medical Electronics and Telemedicine division, Ministry of Communication and Information Technology, Government of India; Continue as member, project evaluation committee for evaluation of extramurally funded projects scheme of Morarji Desai National Institute of Yoga; Served as Director’s nominee for “Project Management Committee” under Pradhan Mantri Swasthya Suraksha Yojana, MOHFW, Government of India; Serving as member, Academic council, Netajee Subhash National Institute of Sports Patiala, Punjab; Member, selection board for recruitment of scientist (G) in Defense Research and Development Organization, Government of India; Member, Selection Board, Jamia Hamdard, New Delhi; Chairman, Counseling Committee for AIIMS P.G. Junior Resident/senior resident selection; Sub-editor for Indian Medical Journal; Reviewer for Internal Journal of Yoga, Journal of Post Graduate Medium and Indian Journal of Physiology and Pharmacology; Member, National Advisory Committee for organizing “National Yoga Week” and “Re-orientation Training program in yoga by Morarji Desai National Institute of Yoga (An autonomous organization under Department of AYUSH, Ministry of health and Family welfare, Government of India); Member, Stores Purchase Committee, AIIMS, New Delhi; Member, Indian Science congress Association; Member, National Advisory board, 53rd Annual Conference of Association of Physiologists and Pharmacologists of India; Project reviewer, National Research Development Corporation, Govt of India; Post-graduate examiner for Delhi University, Hamdard University and Punjabi University, Patiala; Member, editorial board, International Journal of yoga, Biomedicine an International Journal for Biomedical Sciences; Awarded “Maj. Gen. S L Bhatia Oration Award” by Association of Physiologists and Pharmacologists of India for outstanding contribution to the research and development in the field of Physiology for the year 2007 held at Andhra medical College, Vishakapatnam, Andhra Pradesh; 27-30 Dec 2007; The research paper “Sharma P, Makharia G, Ahuja V, Deepak KK. Comparative study of cardiovascular autonomic function in patients with ulcerative colitis and Crohn’s disease. J. Gastroentrol Hepatol 2007;22(2):178, was awarded “Journal of Gastroenterology and Hepatology Travel grant” at Asian Pacific digestive week 2007, Kobe, Japan; 16th Oct 2007.

Dr H. N. Mallick Chairperson, Scientific Committee, Asian Sleep Research Society; General Secretary, Indian Society of Sleep Research; Finance Secretary, Association of Physiologists and Pharmacologists of India.

Dr D. Ghosh continued to be Executive Editor of Indian Journal of Physiology and Pharmacology.

Dr SC Mahapatra Chaired a scientific session during the 13th Annual conference of the Indian Society for Parenteral and Enteral Nutrition, held at AIIMS, New Delhi, 12-14 October 2007.

Dr N. Mehta PSG-FAIMER (2007-2009) Fellowship - Awarded PSG-FAIMER Fellowship for the year 2007-2009 at the PSG-FAIMER Regional Institute a South Asia Regional Centre for Faculty Leadership Development in Medical Education at Coimbatore, sponsored by the Foundation for Advancement of International Medical Education and Research (FAIMER), a non-profit Foundation of the Educational Commission for Foreign Medical Graduates (ECFMG) Philadelphia, USA; Member ‘National Health Information Network’, a committee set up by the Ministry of Health &
Family Welfare to suggest measures for implementation of the recommendations of the National Knowledge Commission; Chairman, Institutional Ethics Committee for Research involving Human Subjects, AMITY School of Physical Education and Sports Sciences, NOIDA, (U.P.); Member, Institutional Ethics Committee for Research on Human Subjects, Dr Ram Manohar Lohia Hospital, New Delhi.

**Dr R.K. Yadav** represented AIIMS at the Digestive Disease Week 2007, one of the largest medical conferences of the world, at Washington Convention center in Washington DC, USA; 19-24 May, 2007.

**Department provides central facilities:**

i) Autonomic Function Laboratory and Vascular Function Laboratory;

ii) Confocal Imaging Laboratory;

iii) Integral Health Clinic;

iv) Molecular Biology Laboratory.

**VISITING SCIENTISTS**

1. Professor John Hearn, Deputy Vice-Chancellor (International), the University of Sydney, Australia.
2. Mr. Rajeev Yadav, Concordia University visited the department and delivered a talk on “Challenges in long term EEG monitoring”; 28 Nov 2007.
3. Dr Andreas Michalsen, Head of the Clinic for Internal and Integrative Medicine, University Duisburg-Essen, Germany, visited Integral Health Clinic on 10th October 2007. He also delivered a lecture on the topic, “Lifestyle modification and Mind-Body Medicine in stress-related disease: Current evidence and research implications”, on 11th October 2007 in the Seminar Room, Department of Physiology, AIIMS.
4. Dr Subimal Dutta, Professor, Sleep Research Laboratory, Department of Psychiatry, Boston University, School of Medicine, Boston, Massachusetts 02118 on 26 Nov. 2007 visited the REM Sleep and Memory Laboratory, Department of Physiology, AIIMS.
5. Dr Deepak Srivastava, Professor, UC Davis School of Medicine, Davis Director, San Joaquin General Sleep Centre, Stockton, California on 12 Dec. 2007 visited REM Sleep & Memory Laboratory, Department of Physiology, AIIMS.

**ACADEMIC, ADMINISTRATION, FINANCE, ENGINEERING, LIBRARY, CENTRAL FACILITIES ETC.**

Running Departmental Central Facilities of ‘Biochemistry Lab’ and Molecular Biology Lab’.

Dr H.N. Mallick continues to serve as Deputy Superintendent of hostels.

Innovation in Undergraduate Teaching

(i) Quiz Sessions

(ii) Interactive Question Answer

(iii) Using Poetry

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9.31 Psychiatry

Professor and Head
Rajat Ray

Professor
Manju Mehta
S.K. Khandelwal
Pratap Sharan

Associate Professor
Manju Mehta
S.K. Khandelwal
R.K. Chadda
Pratap Sharan

Assistant Professors
Nand Kumar
Mamta Sood

EDUCATION

Undergraduate
M.B.B.S.
3rd Semester: 24 hrs
6th Semester: 14 hrs
8th Semester: 06 hrs

Clinical Posting
4-5th Semester: 20 days
6-8th Semester: 40 days
The department has introduced case based teaching in CRHSP, Ballabgarh and OSCE couplet in psychiatric evaluation in CRHSP, Ballabgarh and department of Medicine, AIIMS

B.Sc. Nursing:
Two semesters: 38 hrs

Postgraduate and Doctoral
Conjoint teaching activity of the department and the National Drug Dependence Treatment Centre (NDDTC)
Journal discussion: Weekly
Seminar: Weekly
Case Conference: Weekly
Faculty/Staff presentation: Weekly

Specific teaching activity of the department of Psychiatry
Psychotherapy supervision for M.D. (Psychiatry) and Ph.D. (Clinical Psychology) students
The department has introduced supervised Consultation-Liaison training for junior residents

Specific teaching activity at NDDTC
Seminars: Weekly

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CME
Organised a half-day workshop on “Stress Management” for medical undergraduates (August 2007) and medical-surgical postgraduates (September 2007 & February 2008). Organised a half-day workshop on “Counselling Skills for Dermatology Residents” (March 2008).

Lectures delivered

Dr Pratap Sharan
• “Mental Health: Treatment and Services.” Mental Health Day, 2007 at All India Institute of Medical Sciences. New Delhi, October 2007.
• “Stop Exclusion: Dare to Care.” Panel Discussion held for school students at All India Institute of Medical Sciences. New Delhi, January 2008.

Dr Nand Kumar

Dr Mamta Sood

National and International Conferences

Dr. Manju Mehta

Dr. S.K Khandelwal

Dr. R.K. Chadda
• “Criminal Psychology” for the officers of police and Central Bureau of Investigations (CBI), Government of India. The CBI Academy, Ghaziabad, 11 December 2007.


Dr. Rajesh Sagar


• Resource person. 60th Annual National Conference of Indian Psychiatric Society, Kolkata, January 2008.

Dr. Mamta Sood


Dr. Manju Mehta


Dr. Pratap Sharan


Dr. Rajesh Sagar


Dr. Nand Kumar


RESEARCH

Funded Projects

Ongoing


2. Second phase trial of Norepinephrine Reuptake Inhibitor (NERI) in depression. (Dr. Pratap Sharan, Dr. Rajesh Sagar). Funded by Eli Lilly. Funds: Rs. 10 lakhs; 2006-2008.

3. Analysis of Research related to Diagnosis and Classification of Mental and Behavioural Disorders. (Dr. Pratap Sharan). Funded by World Health Organization. Funds: Rs. 2 lakhs; 2007-2008.


5. Efficacy and Safety of Agomelatine given orally compared to Placebo, in Addition to a Mood Stabilizer in Bipolar I Patients with a Current Major Depressive Episode. (Dr. Rajesh Sagar). Funded by Servier International.

6. Central Coordinating Team (CCT) and Technical Advisory Group (TAG) member of the multicentric research project on Neuro-developmental Disability in Children. Funded by Autism Speaks/ the Indian National Trust/ Ministry of Social Justice and Empowerment/ International Clinical Epidemiology Network (INCLEN) (Dr. Rajesh Sagar).

7. Improvement of Quality of Life, Depression and Glycemic Control in Diabetes Mellitus with Rhythmic Breathing (Sudarshan Kriya Yoga And Pranayam) in Addition to Standard Treatment of Diabetes. (Dr. Nand Kumar). Funded by Indian Council for Medical Research. Funds Rs. 9 lakhs; 2008-2010.

8. Prospective Longitudinal Study on Duration of Untreated Psychosis in Patients with First Episode of Psychosis (Dr. Mamta Sood). Funded by All India Institute of Medical Sciences Research Grant. Funds: Rs. 1 lakh; 2007-2008.
**Completed**


2. Risk Factors of Substance Use and Abuse in Offspring of Substance Abuse Patients (Dr. Manju Mehta). Funded by Indian Council for Medical Research. Funds: Rs. 6 lakhs; October 2004 - April 2007.


**Collaborative Projects**


Functional Status in Patients with Schizophrenia and Substance Misuse (with College of Nursing) (Dr. Pratap Sharan). 2007-2008.


**PUBLICATIONS**

**Journals**


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Books/Chapter in Books


**PATIENT CARE**

<table>
<thead>
<tr>
<th></th>
<th>NEW</th>
<th>OLD</th>
<th>TOTAL</th>
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<tbody>
<tr>
<td><strong>General OPD:</strong></td>
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<td></td>
<td></td>
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<tr>
<td>Walk in Clinic:</td>
<td>12017</td>
<td>21823</td>
<td>33840</td>
</tr>
<tr>
<td>Detailed assessment</td>
<td>1813</td>
<td>-</td>
<td>1813</td>
</tr>
<tr>
<td><strong>Specialty Clinic</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Child Guidance Clinic:</td>
<td>398</td>
<td>396</td>
<td>794</td>
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<tr>
<td>De-Addiction Clinic:</td>
<td>122</td>
<td>1439</td>
<td>1561</td>
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<tr>
<td><strong>Total:</strong></td>
<td><strong>14350</strong></td>
<td><strong>23658</strong></td>
<td><strong>38008</strong></td>
</tr>
<tr>
<td>Total Admission:</td>
<td>325</td>
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<td>Total discharges:</td>
<td>334</td>
<td></td>
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<tr>
<td><strong>Laboratory Investigations for Patient Care:</strong></td>
<td></td>
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<td></td>
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<tr>
<td>Total Number of Serum Lithium levels: 1000</td>
<td></td>
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</tr>
</tbody>
</table>

The department has undertaken a new initiative for “Structuring and expansion of consultation-liaison (C-L) psychiatry services.” Its highlights are:

- 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.
- Background work on development of screening instruments for management of psychological/psychiatric morbidity in medical oncology inpatients.
- Development of outpatient liaison interaction with endocrinology department.

**AWARDS, HONOURS AND SIGNIFICANT EVENTS**

Dr. Manju Mehta was nominated as the President of Indian Society for Pain Research and Therapy, Vice President of the Indian Association for Child and Adolescent Mental Health, and member of
Central Mental Health Authority; Delhi Mental Health Authority; Board of Visitors and of the Academic Committee of IHBAS. She acted as a resource person for the programme “Judicial Method: The Science, Art and Craft of Judging” organized by the National Judicial Academy, Bhopal (13-15 April 2007). She was invited as an Adviser in the P.T. Boards for interviewing candidates at the Union Public Service Commission, New Delhi (16-20 April 2007) and at Bihar Public Service Commission, Patna (10-16 September 2007). She was also invited as an expert in the two-day workshop at National Centre for Antarctic and Ocean Research, Goa (27-28 June 2007) and for a meeting organized by the Indira Gandhi National Open University for launching the Diploma Programme in Family Counselling and Therapy in the School of Extension and Development Studies (25-26 February 2008).

**Dr. S.K. Khandelwal** participated as a member of the summer team in the prestigious 27th Indian Scientific Antarctic Expedition on deputation from Government of India (10 November 2007 to 13 April 2008). To prepare for this, he attended the high altitude training programme for the members of the Expedition at the Mountaineering & Skiing Institute, Indo-Tibetan Border Police, Auli (12-25 September 2007), where he also delivered a lecture on the “Mental Health Consequences in the Extreme Climatic Conditions of Antarctica.” He was awarded the “Best Trainee” award for members of the Indian Scientific Antarctic Expedition at the High Altitude Training Programme. He also conducted training in “Mind Management and Survival in Antarctica” and “Group dynamics and Behaviour during Expedition to High Altitude with Special Reference to Kailash Mansarover Expedition” at Maitri, the Indian Scientific Station, Antarctica (December 2007).

**Dr. R. K. Chadda** was nominated as member of the advisory council of the International Academy of Behavioural Medicine, Counselling and Psychotherapy (IABMCP) and awarded the Diplomat of the academy (IABMCP). He took over as the Secretary General of the Indian Association for Social Psychiatry. He was also appointed as a member of the Ethics Committee of the Institute of Human Behaviour & Allied Sciences (IHBAS) Delhi; as the Principal Coordinator for revision of the standard treatment guidelines for mental disorders, developed by the Delhi Society for Promotion of Rational Use of Drugs. He conducted a series of one day CME programmes on common mental disorders for the medical officers in the Directorate of Health Services, Government of Delhi. About 80 doctors received this training. (29th August 2007, 12th September 2007, 29th September 2007). He organised a number of community awareness activities during the World Mental Health week. The activities included mental health awareness stalls in the general hospital, street plays, public lectures, painting competition for school children and release of an information booklet in Hindi on mental disorders. The Programme was funded by the WHO- India office (4th -10th October, 2007). He delivered a lecture on “Somatoform Disorders” and “Anxiety Disorders” in the training programme for medical officers under the District Mental Health Programme at Post Graduate Institute of Medical Sciences, Rohtak (April 2007). He also delivered lectures (once every month) in a training programme in Psychiatry for medical Officers, organized at G.B. Pant Hospital, New Delhi.

**Dr. Pratap Sharan** was a Special Invitee to the 2nd Meeting of the International Advisory Group for the Revision of ICD-10 Mental and Behavioural Disorders of the World Health Organization (2007). He is a resource person for the WHO’s Research for Change Initiative: Enhancing the quality of mental health publications from low- and middle-income countries (2003-2010);
Dr. Rajesh Sagar was appointed as a member of the Clinical Epidemiology Unit (CEU) of Indian Clinical Epidemiology Network (IndiaCLEN) body of International Clinical Epidemiology Network (INCLEN). He received the membership of National Academy of Medical Sciences, 2007. He was elected to the Executive Council of the Indian Association for Child & Adolescent Mental Health (2007-2009). He is a member of task force on Clinical Research in Mental Health in Central Council of Homeopathy Research, New Delhi & Member, Editorial Advisory Board for Indian Journal of Research in Homoeopathy, published by the Central Council for Research in Homoeopathy (CCRH) under the Department of AYUSH, Ministry of Health & Family Welfare, Govt. of India. He was also a member of the International Advisory Board of Schedule for Clinical Assessment in Neuropsychiatry (SCAN), and the International Federation of Psychiatric Epidemiology. He was invited to attend as the India coordinator of the World Mental Health Survey Consortium Annual Meeting since 2005 including the one at Portsmouth, USA (June 2007). He is a member of the Scientific Advisory Committee (SAC) of the National Brain Research Centre (NBRC) and was invited to attend its 9th meeting at Manesar, Haryana (April 2007). He was invited as a guest speaker in the CME of Physical Medicine and Rehabilitation - organized by Physical Medicine and Rehabilitation Department, AIIMS, New Delhi (April 2007). He was invited as a speaker on ‘Differential Diagnosis of Pervasive Developmental Disorders - Psychiatrist’s Perspective’ in the workshop to train medical officers in Delhi Government Hospitals, New Delhi (18-19 July 2007). He was a resource person for the First National Meet of State Mental Health Authorities (25-26 July 2007) and for the National Meet of State Run Mental Health Institutions of the country (21-22 November, 2007) organized by Ministry of Health & Family Welfare at New Delhi. He organized a meeting for Finalization of Training Modules and Operation Guidelines for National Mental Health Program (NMHP) at AIIMS, New Delhi (March 2008).

Dr Nand Kumar was elected as Honorary General Secretary for Mental health Foundation (India). He was a resource person in Gidhour Health Mela in Bihar under National Rural Health Mission (5-8 January 2008); for the training of general duty medical officers organized by the Director
General Health Services, Delhi Government (September 2007); and for a mental health and de-addiction camp organized under the aegis of Art of Living Foundation (February 2008). He restarted the Day Care Centre of the Psychiatry Ward at AIIMS with in May 2007. He successfully circulated online and offline Request Petition for inclusion of mental illness in the National Trust Act. He conducted a mental health awareness program for Mental health Foundation at the Residents Welfare Association annual carnival (9 February 2008). He became a Fellow of the Indian Association for Social Psychiatry and a member of the International Initiative for Mental Health and Asia Pacific Society of Alcohol and Addiction Research (APSSAR).

Dr. Mamta Sood was appointed as the Trainee Editor of Journal of Indian Association for Child and Adolescent Mental Health (2005 onwards) and nominated as the Assistant Secretary General of the Indian Association for Social Psychiatry in January 2008. She is a resource person for training of students of ‘postgraduate diploma in old age care’ conducted by Project NICE (National Initiative for Care of Elderly) under National Institute of Defense which is under the Ministry of Social Empowerment and Justice; and for the training of general duty medical officers organized by the Director General Health Services, Delhi Government (September 2007). She became a Fellow of the Indian Association for Social Psychiatry and member of the Asia Pacific Society of Alcohol and Addiction Research (APSSAR) and American Psychiatric Society.
9.32 Radio-Diagnosis

**Professor and Head**

Sushma Vashisht
(Retired on 29.2.2008)

Arun Kumar Gupta
(w.e.f. 1.3.2008)

**Professor**

Deep Narayan Srivastava

**Additional Professor**

Raju Sharma

**Associate Professors**

Sanjay Thulkar
(IRCH)

Sanjay Sharma
(RPC)

Ashu Seith

Smriti Hari

Shivanand Gamanagatti
(Trauma Centre)

Atin Kumar
(Trauma Centre)

**Assistant Professors**

Smriti Hari

Shivanand Gamanagatti
(Trauma Centre)

**Scientist-IV**

Shashi B. Paul

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**EDUCATION**

**Undergraduate and Postgraduate**

BSc (Hons) Medical technology in radiography (MTR): A batch of 7 students was admitted to BSc (Hons) Medical technology in radiography course in 2007-2008. This course is of three years duration. A total of 20 students are enrolled in this course.

MD: There are a total of 19 junior residents out of whom 3 are sponsored candidates.

**Continuing Medical Education**

**Lectures delivered**

**Dr Arun Kumar Gupta**


**Dr Deep Narayan Srivastava**

Dr Raju Sharma
• ‘Film Reading Session’, Annual Conference of Indian Radiology & Imaging Association, Delhi Branch, 23-24 February 2008.
• ‘Imaging of focal liver lesions’, EDRACON, New Delhi, 3 February 2008.

Dr Sanjay Thulkar
• Role of CT scan in management of Ovarian Cancer’, Symposium on Ovarian Cancer, AIIMS, New Delhi, 14 April, 2007.
• ‘Breast MRI’, CME on breast imaging organized by Indian Radiology & Imaging Association, Bihar State Branch and IGIMS, Patna at IGIMS, Patna, 2 March 2008.
• ‘Breast Interventions’ at CME on breast imaging organized by Indian Radiology & Imaging Association, Bihar State Branch and IGIMS, Patna at IGIMS, Patna, 2 March 2008.
• ‘Imaging and diagnostic procedures in breast diseases’, at the Training Workshop of CGHS doctors organized by Department of Surgery AIIMS, New Delhi, 8 March 2008.

Dr Sanjay Sharma
• ‘Advances in Breast Cancer Imaging’, CME on Breast diseases organised by the Delhi State Chapter of the Association of Surgeons of India (ASI), Lady Hardinge Medical College, New Delhi, 29 July 2007.

Dr Ashu Seith
• ‘CT in paediatric chest’, Annual Conference of Indian Radiological and Imaging Association, Delhi Branch, AIIMS, New Delhi, 23-24 Feb 2008.

Dr. Smriti Hari
• ‘Normal CT Anatomy of pelvis’, “Interpretation of CT Scan for beginners”, organized by Department of Medicine/ Nuclear Medicine VMMC and Safdarjang Hospital New Delhi, 26 August 2007.
• CPC at XVIII annual CME of Association of Physicians of India-Delhi Chapter, New Delhi, 3-4 November 2007.

CPC at Golden Jubilee Medicine Update 2007 organized by Department of Medicine MAMC, 13 December 2007.


Dr Shivanand Gamanagatti


Dr Atin Kumar


Dr Shashi B. Paul


Other departmental staff


National and International Conferences

Lectures delivered

Dr Sushma Vashisht

- “Imaging of Tracheobronchial Tree”, Annual conference of Indian Radiological and Imaging Association (IRIA), Bangalore, 17-20 January 2008

Dr Deep Narayan Srivastava

Dr Sanjay Thulkar


Dr Ashu Seith


Other departmental staff


RESEARCH

Departmental projects

Completed

- Role of directional vacuum assisted breast biopsies in patients with previously equivocal biopsy results
- Imaging evaluation of intra-orbital masses causing proptosis.
- Imaging evaluation of locally advanced squamous cell carcinoma of oral cavity.
- Evaluation of tracheobronchial lesions by Multidetector row CT
- Role of magnetic resonance imaging and magnetic resonance sialography in salivary gland diseases
- Comparison of conventional and Gadolinium-BOPTA enhanced MR Cholangiography in the evaluation of biliary enteric anastomosis.
- MR evaluation of recurrent shoulder dislocation
- Role of MRI in planning of breast conserving surgery for carcinoma breast
- Role of MR arthrography in the assessment of glenohumeral instability

Ongoing

- 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 US, CT and MR Portography in children with EHPVO
- MRI and PET-CT evaluation of soft tissue sarcomas
- Comparison of MDCT, Endoscopic Ultrasound, MRI & PET-CT in evaluation of pancreatic malignancy
- MRI in evaluation of chronic wrist pain
- Percutaneous management of malignant biliary obstructions
- Diffusion weighted MRI: A new tool for evaluation of focal liver lesions
• Diagnostic accuracy of whole body diffusion weighted MRI in oncologic imaging: comparison with whole body STIR MRI and FDG-PET-CT.
• Role of PET-CT Enteroclysis and double balloon enteroscopy in the evaluation of Crohn’s disease.
• Role of PET-CT colonography and colonoscopy in the evaluation of ulcerative colitis
• Role of PET and CEMRI in the evaluation of suspected breast cancer in patient already undergone mastectomy of opposite breast for carcinoma.
• Role of MRI in characterization of sonographically indeterminate adnexal masses
• To evaluate the role of CT-guided radiofrequency ablation in the management of inoperable primary lung cancer.

Collaborative projects

Completed
• Comparative evaluation of ultrasonography and MRI in prenatal diagnosis of fetal anomalies. (with Obstetrics and Gynecology)
• Comparative evaluation of MRI and Arthroscopy in the diagnosis of meniscal tears in anterior cruciate ligament deficient knees. (with Orthopedics)
• Long Term Follow-up study to compare changes in the Temporomandibular Joint following mandible advancement using Twin Block and Bionator Appliances using MRI. (with Dental Surgery)
• Comparative Study of MR Enteroclysis and Double Balloon Enteroscopy in Ulcero-Constrictive Lesions of Small Bowel. (with Gastroenterology)
• Study of natural history of portal biliopathy and impact of shunt surgery. (with Gastrointestinal Surgery)
• Quantitative imaging study of breast cancer and its correlation with oxidative stress. (with Medical Physics)
• Study of structure and function of lung in patients with achalasia cardia. (with Gastroenterology)
• Prevalence of osteoporosis in patients with ankylosing spondylitis. (with Endocrinology)
• Role of $^{18}$F-FDG PET/CT in the evaluation of nodular pulmonary lesions and its comparison with CT scan findings. (with Surgery)
• Evaluation of $^{18}$F- FDG PET/CT and comparison with CT findings in patients with mediastinal lymphadenopathy due to tuberculosis and sarcoidosis. (with Medicine)
• Donor kidney size and outcomes following live donor kidney transplantation. (with Nephrology)
• To study the role of core decompression with and without fibular grafting in patients with avascular necrosis of femoral head; and its effects on the disease progression. (with Orthopedics)
• To document the effect of the time of institution of DMARDs on the radiological outcome in patients with rheumatoid arthritis (with Medicine)
• Effect of Vitamin D3 supplementation on bone disorders in children with chronic kidney disease. (with Pediatrics)
• Evaluation of high-resolution ultrasound for screening of premature atherosclerosis in children with nephrotic syndrome. (with Pediatrics)
• Endothelial dysfunction in rheumatoid arthritis (with Medicine)
• Profile of micronutrient deficiency & hepatobiliary dysfunction in cystic fibrosis. (with Pediatrics)
• Study of radio diagnostic services of AIIMS hospital & their utilization pattern, so as to identify equipment, physical facilities & manpower for the diagnostic imaging services of hospitals of Coal India Ltd. commensurating with their needs (with Hospital Administration).
• Prospective randomized double blind control trial of dexamethasone vs Albendazole on calcification as an outcome in 1-2 ring enhancing lesions in neurocysticercosis of children (with Pediatrics)
• Study of aetiological & risk factor profile in Pediatric strokes (with Pediatrics)
• Advancement of epidural catheter to thoracic space in children: comparision of two gauge of catheters (with Anaesthesia).
• Management of liver cancer using radionuclide methods with special emphasis on early diagnosis, locoregional therapy (intra-arterial) and internal dosimetry. (with Nuclear Medicine)
• Evaluation of image based treatment planning in radiotherapy (with Radiation Therapy)
• Randomized comparison of ABVD with EVAP in newly diagnosed cases of Hodgkin’s lymphoma (with Medical Oncology)
• Role of three dimensional computed tomographic scanning in assessment of mandibular invasion and its utility in planning mandibular resection and reconstruction in oral cancer patients (with Surgical Oncology)

Ongoing
• Comparative evaluation of CT and PET in assessment of efficacy of Radio frequency ablation of unresectable non-small cell lung cancer. (with Radiotherapy, Medical Oncology and Nuclear Medicine)
• 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). (with Medical Oncology and Gynecology). 
• Validation of gel dosimetry as 3D verification tool in highly conformal radiotherapy techniques (with Neurobiochemistry and Radiotherapy).
• Role of FDG-PET and MRI in assessment of Osteosarcoma: Prechemotherapy and Post chemotherapy (with Medical Oncology and Orthopedics).
• Regulation of Coagulation in orthopedic surgery to prevent DVT and pulmonary embolism (with Orthopedics).
• Comparison of FDG-PET and Dynamic MRI in correlation of VEGF expression on tumour cells in patients with Osteosarcoma (with Medical Oncology).
• Comparison of minimally invasive techniques and conservative treatment in vertebral collapse (with Orthopedics).
• A comparative Evaluation of changes in ultrasonographic dimensions of masseter muscle with EMG activity prior and subsequent to twin block therapy (with Dental Surgery).
• Clinico-radiological evaluation of total knee arthroplasty; short term retrospective-prospective study (with Orthopedics).
• Assessment of endothelial dysfunction and oxidative stress in chronic kidney disease of varying severity and after renal transplantation (Department of Nephrology)
• To determine the efficacy of Flutamide as a tumour volume reducing agent in nasopharyngeal angiofibroma. (with ENT)
• A Phase 3, Open-Label, Parallel-Group Study to evaluate the efficacy of pre-prandial Human Insulin Inhalation Powder (HIIP) Compared to pre-prandial Injectable Insulin I patients with Type 1 Diabetes Mellitus. (with Endocrinology)
• Equivalence randomized controlled trial of bioresorbable plates and titanium plates in the osteosynthesis of mandibular fracture: A pilot study. (with Dental Surgery)
• Utility of PET scan in assessing extent of disease and response to treatment in sarcoidosis. (with Medicine).
• The differential cellular profile of broncho-alveolar lavage and its correlation with pulmonary function test and CT chest in patients of pulmonary sarcoidosis. (with Medicine)
• A clinical and cephalometric study of temporary anchorage device (TAD) supported anchorage in the management of maximum discrepancy extraction cases. (with Dental Surgery)
• Role of Alfa 1 reductase inhibitors in treatment of nasopharyngeal angiofibroma. (with ENT)
• Use of CT as an adjunct to pre-operative planning and monitoring for osteo-odontokeratoprosthesis in patients’ with end-stage Steven Johnson syndrome. (with Ophthalmology)
• Relationship of fetal Doppler velocimetry to biophysical profile and fetal outcome in normal pregnancies and in pregnancies with intrauterine growth retardation. (with Obstetrics and Gynecology).
• Evaluation of PET Scan in preoperative assessment of cases of endometrial carcinoma. (with Obstetrics and Gynecology).
• Feasibility of Virtopsy: Minimally invasive autopsy using ultrasonography and percutaneous organ biopsies as an alternative to open body autopsy in fetal abnormality. (with Obstetrics and Gynecology).
• Correlation of stage and imaging of endometriosis with fertility outcome. (with Obstetrics and Gynecology)
• Randomized controlled trial of Radio frequency ablation (RFA) versus Percutaneous acetic acid injection (PAI therapy for the treatment of small hepatocellular carcinoma. (with Gastroenterology)
• Surveillance of patients of cirrhosis for detection of hepatocellular carcinoma - a cohort study. (with Gastroenterology)
• Validation of the symptomatology as a predictor of hepatocellular carcinoma in patients of cirrhosis of liver. (with Gastroenterology)
• Randomized controlled trial of Transarterial Chemoembolization (TACE) versus TACE plus oral chemotherapy in the treatment of unresectable hepatocellular carcinoma. (with Gastroenterology)
• Randomized controlled trial in the treatment of Transarterial Chemotherapy (TAC) versus Oral chemotherapy of unresectable Hepatocellular carcinoma. (with Gastroenterology)
• Randomized controlled trial of N-Acetylcysteine in prevention of renal failure in hepatocellular carcinoma patients undergoing Transarterial Chemotherapy (TAC) and Transarterial Chemoembolisation (TACE). (with Gastroenterology)
• Randomized controlled trial Oral chemotherapy versus supportive therapy in the treatment of unresectable hepatocellular carcinoma. (with Gastroenterology).
• Study of effectiveness of virtual simulation in external beam radiotherapy planning of carcinoma cervix (with Radiotherapy).
• Metabolic characterization of soft tissue tumours and pathologic and radiological correlation with in vivo Magnetic Resonance Spectroscopy. (with Surgical oncology and NMR).
• Molecular Genetic Studies in patients with Leukodystrophy (with Pediatrics).
• A Survey on the prevalence of tuberculosis (with Medicine).
• Endothelial dysfunction in systemic sclerosis. (with Medicine)
• Evaluation of the efficacy of thrice weekly DOTS regimen in TB pleural effusion at six months. (with Medicine).
• Role of Centchroman in regression of mastalgia and regression of fibroadenoma and its correlation to histopathology and estrogen & progesterone receptors. (with Surgery).
• Study of physical parameters and quality assurance in the gamma knife based stereotactic radiosurgery with non-coplanar beam in the phantom (with Medical Physics).
• Role of PET-CT in differentiating benign and malignant pancreatic mass lesions in patients with or without chronic pancreatitis (with Nuclear Medicine).
• Efficiency of zinc supplement as an adjunct with ATT in children below 15 years age with pulmonary TB. in reducing time to sputum conversion, a randomised blind control trial (with Pediatrics).
• Renal functions & their maturation & renal volume in normal & growth restricted neonates. (with Pediatrics).
• Efficacy of zinc (given as an adjunct) in the treatment of severe and very severe pneumonia in hospitalized children 2-24 month of age. (with Paediatrics).
• Utility of cardiac MRI in RV function evaluation in health and disease (with Cardiac Radiology)
• Correlation between splenic volume with splenic vein diameter, portal pressure before and after the shunt, grade of varices in extrahepatic portal vein obstruction (with Paediatric Surgery).
• Comparison of seizure recurrence in neurocyticercosis patients with calcified and non calcified healed lesions (with Paediatrics).
• Incidence of acute kidney injury in sick, hospitalized children: A prospective observational study (with Paediatrics).

PUBLICATIONS

Journals
44. Kandpal H, Seith A. Rapidly enlarging mediastinal mass in a middle aged patient with fever: Case of the month: *Br J Radiol.* 2008 Apr;81 (964):357-9


80. Falodia S, Garg P, Bhatia V, Ramchandran V, Dash NR, Srivastava DN. EUS diagnosis of a left gastric artery pseudoaneurysm and aneurysmogastroduodenal fistula seen with a massive GI hemorrhage (with video).Gastrointest Endosc. 2008 Feb 26; (Epub)

Abstracts

Chapters in Books
PATIENT CARE
Details of investigations for the period 1 April 2007 to 31 March 2008

Routine X-rays

<table>
<thead>
<tr>
<th>S.No.</th>
<th>X-Rays</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Routine Outdoor</td>
<td>1,16,271</td>
</tr>
<tr>
<td>2.</td>
<td>Routine Indoor</td>
<td>25,004</td>
</tr>
<tr>
<td>3.</td>
<td>Portable X-Rays</td>
<td>24,454</td>
</tr>
<tr>
<td>4.</td>
<td>Casualty X-Rays</td>
<td>74,362</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>2,40,091</strong></td>
</tr>
</tbody>
</table>

Special Investigations

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Investigation</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Barium Meal</td>
<td>1297</td>
</tr>
<tr>
<td>2.</td>
<td>Barium Enema</td>
<td>431</td>
</tr>
<tr>
<td>3.</td>
<td>Barium Swallow</td>
<td>1190</td>
</tr>
<tr>
<td>4.</td>
<td>Intravenous Urography</td>
<td>1841</td>
</tr>
<tr>
<td>5.</td>
<td>Adult Micturating Cystouretherography</td>
<td>886</td>
</tr>
<tr>
<td>6.</td>
<td>Paediatric Micturating Cystouretherography</td>
<td>695</td>
</tr>
<tr>
<td>7.</td>
<td>Hysterosalpingography</td>
<td>286</td>
</tr>
<tr>
<td>8.</td>
<td>Contrast Studies</td>
<td>910</td>
</tr>
<tr>
<td>9.</td>
<td>Mammogram</td>
<td>1579</td>
</tr>
<tr>
<td>10.</td>
<td>Digital Subtraction Angiography</td>
<td>139</td>
</tr>
<tr>
<td>11.</td>
<td>Interventional Digital Subtraction Angiography</td>
<td>1091</td>
</tr>
<tr>
<td>12.</td>
<td>Venogram</td>
<td>81</td>
</tr>
<tr>
<td>13.</td>
<td>OT Procedures</td>
<td>82</td>
</tr>
<tr>
<td>14.</td>
<td>MRI</td>
<td>1932</td>
</tr>
<tr>
<td>15.</td>
<td>Routine Ultrasound</td>
<td>20289</td>
</tr>
<tr>
<td>16.</td>
<td>Doppler</td>
<td>2405</td>
</tr>
<tr>
<td>17.</td>
<td>Ultrasound guided Interventions: Routine + Emergency</td>
<td>1748</td>
</tr>
<tr>
<td>18.</td>
<td>Casualty Ultrasound</td>
<td>18981</td>
</tr>
<tr>
<td>19.</td>
<td>Casualty Doppler</td>
<td>780</td>
</tr>
<tr>
<td>20.</td>
<td>Body CT</td>
<td>10826</td>
</tr>
<tr>
<td>21.</td>
<td>Head CT</td>
<td>4417</td>
</tr>
<tr>
<td>22.</td>
<td>CT Guided Biopsy</td>
<td>331</td>
</tr>
<tr>
<td>23.</td>
<td>Ultrasound (Room No. 8)</td>
<td>637</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>73, 327</strong></td>
</tr>
</tbody>
</table>

Grand Total = 2,40,091 + 73,327= 3,13,418
New Equipment:
• 2 High End Doppler Ultrasound machines
• 3 Mobile X-Ray units
• 2 Flat panel radiography system
• 1 RF Ablation System

AWARDS, HONOURS AND SIGNIFICANT EVENTS
• **Dr Raju Sharma** elected ‘Member of the International Society for Magnetic Resonance in Medicine’.


• **Dr. Sanjay Sharma** Reviewer for a peer reviewed international indexed Journal ‘Catheterization and Cardiovascular Interventions’, an official journal of the Society of Cardiac Angiography and Interventions.

• **Dr. Shivanand** awarded ‘Editor’s recognition Award for reviewing’ (European Journal of Radiology).
9.33 Reproductive Biology

Professor and Head
Anand Kumar

Associate Professors
Narendra Nath Sarkar
Ashutosh Halder

Assistant Professor
Pradeep Kumar Chaturvedi

EDUCATION

Undergraduate/Postgraduate Training
PhD/DM–5
Postgraduate—MD Laboratory Medicine Students on RIA

Short- and long-term training
Two long term trainees on WHO fellowship (6 months) and Short-term training was provided to 2 students

Continuing Medical Education
The department organized the National Workshop on Molecular Cytogenetics: Rapid Aneuploidy Diagnosis, AIIMS, New Delhi; 20-25 August, 2007.

National and International Conferences/Workshops

Lectures delivered

Professor Anand Kumar
- Was a speaker at the National symposium ‘An update of male reproduction and infertility, CDRI, Lucknow; March 13-14, 2008 and chaired a session.
- Invited speaker at the National Seminar in Recent Trends in Biochemistry, Pondicherry University, March 2008.
- Attended and presented a paper at the Annual Meeting of American Society of Andrology, Tampa, USA; 2007.

Dr A. Halder
Delivered the following talks:

RESEARCH

Funded Projects

Completed
1. Secretion of progesterone and expression of hypoxia inducible factor 1á during hypoxia induced by cobalt chloride in MA 10 cells. Investigator: Anand Kumar. Funded by ICMR, RA Project.
2. Evaluation of sexually transmitted diseases among adolescents and young adults in India. N. N. Sarkar.
3. Enumeration of elucidation of barriers to condom use. N. N. Sarkar.

Ongoing

Departmental Projects

Completed
2. To study the pregnancy outcomes in patients with special reference to cyclophosphamide therapy .

Ongoing
1. Chromosome aneuploidy and mosaicism in preimplantation embryo on mouse model and human embryo.
2. An investigation on underlying etiology on primary testicular failure.
3. Role of hypoxia on progesterone and vascular endothelial growth factor secretions in MA-10 cells.
4. Regulation of proliferation of prostatic cancer cell line LNCaP.
5. Regulation of granulose cell steroidogenesis.
7. Role of cobalt chloride induced hypoxia on MA-10 cells.
8. Elucidation of barriers to emergency contraception (EC): Does promoting EC increase risk for contacting sexually transmitted infections, HIV/AIDS.
9. Evaluation of the impact of intimate partner violence on woman’s reproductive health and pregnancy outcome.
10. Childhood sexual or physical abuse and its impact on woman’s life.
Collaborative Projects

Ongoing
1. Characterization of chromosomal anomalies in multiple myeloma patients using cytogenetics and FISH (with Medical Oncology, Dr B.R.A. IRCH).
2. Use of letrozole versus clomiphene citrate combined with gonadotropins in superovulation and IUI cycles (with Obstetrics & Gynaecology).
3. Effect of oral contraceptive containing ethinyl estradiol combined with drospirenone v. desogestrel on clinical and biochemical parameters in patients of polycystic ovarian syndrome (with Obstetrics & Gynaecology).

PUBLICATIONS

Chapters in Book

PATIENT CARE
Routine assays for LH, FSH, Prolactin, T3, T4, TSH, Testosterone, Estradiol, Progesterone, alpha Feto-Protein, Prostate Specific Antigen (PSA), Beta hCG, CA-125 and cortisol in the blood samples of patients were carried out in the facility.

<table>
<thead>
<tr>
<th>Name of Assays</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSH</td>
<td>2547</td>
</tr>
<tr>
<td>LH</td>
<td>2061</td>
</tr>
<tr>
<td>Prolactin</td>
<td>1980</td>
</tr>
<tr>
<td>T3</td>
<td>4430</td>
</tr>
<tr>
<td>T4</td>
<td>5497</td>
</tr>
<tr>
<td>TSH</td>
<td>10453</td>
</tr>
<tr>
<td>Testosterone</td>
<td>976</td>
</tr>
<tr>
<td>Estradiol</td>
<td>729</td>
</tr>
<tr>
<td>Progesterone</td>
<td>62</td>
</tr>
<tr>
<td>AFP</td>
<td>2002</td>
</tr>
<tr>
<td>PSA</td>
<td>1405</td>
</tr>
<tr>
<td>Beta hCG</td>
<td>373</td>
</tr>
<tr>
<td>CA-125</td>
<td>833</td>
</tr>
<tr>
<td>Cortisol</td>
<td>71</td>
</tr>
<tr>
<td>Total Number of tests</td>
<td>33419</td>
</tr>
</tbody>
</table>

Sample number has been increased from 24935 last year to 33419 this year 34% increase.

Andrological Examinations: Semen Examination: 290, Seminal Fructose: 103.

Not as part of standard outpatient service however, ~150 cases were referred to me mainly from Sex and Marriage Counseling Clinic(SMCC), Pediatric Genetics, CTVS and other hospitals of Delhi for Counseling/Advice (all in my office/department) and related to Reproductive Genetics in particular Male Primary Hypogonadism and Microdeletion Syndrome.

AWARDS, HONOURS AND SIGNIFICANT EVENTS
Professor Anand Kumar appointed as Expert to Royan Awards (Iran) 2007 in Biomedical Research; Expert in World Bank aided National Agricultural Innovation Project Consortium at NDRI, Karnal
for Project Development; nominee of the University Grant Commission in DRS-I SAP Advisory Committee of ML Sukhadia Unviesity, Udaipur 2007; nominee of the Committee for the Purpose of Control and Supervision of Experiments on Animals (CPCSEA) to the Institutional Animal Ethics Committee of Dr. BR Ambedkar Centre of Biomedical Research, University of Delhi, Delhi and Jaipur College of Pharmacy, Jaipur; a paper entitled ‘Hypoandrogenaemia associated with subclinical hypothyroidism in men’, submitted to Int J Androl has been included in top ten articles.

**Dr. Ashutosh Halder** is in the Reviewers Panel, Medicinal Science Monitor International; Consultation to consultant Rolf Bie, consultant pathologist; Continuing as Executive Committee Member, ADNAT (Association for the Promotion of DNA Fingerprinting & other DNA Technologies), CCMB, Hyderabad; reviewed manuscript/scientific papers for the British Medical Journal, Oncogene Research, Indian Pediatrics, Indian Journal of Med Rese, Indian J Clin Biochem, Indian J of Pediatrics, Indian J of Human Genetics, J Maxillofacial and Oral Surgery; reviewed various projects submitted to DST, ICMR, CSIR, etc; invited as faculty for conducting a workshop session on Application of FISH in Prenatal Diagnosis, Annual Conference Indian Society of Prenatal Diagnosis and Therapy, Chennai; 23-25 November, 2007; co-organized International Conference on Molecular and Clinical Aspects of Gonadotropin, AIIMS, New Delhi; 7-9 February 2008; Dr. A. Halder Biography included in 25th Silver Anniversary Edition of Who’s Who in the World, 2007 & Who’s Who in Asia, 2007’ Member, Board of Speciality of Medical Genetics by Medical Council of India; Organized National Workshop on Molecular Cytogenetics: Rapid Aneuploidy Diagnosis, AIIMS, New Delhi; 20-25 August 2007.


**Dr. NN Sarkar** is the Reviewer of the Journal of Public Health, International Journal of Gynaecology & Obstetrics.

**VISITING SCIENTIST**
Dr C.V. Rao (USA), Dr Nafis Rahman (Finland) visited the department.
9.34 Surgical Disciplines

**Faculty**

**Professor and Head**  
M.C. Misra

**Professor**

Anurag Srivastava

**Additional Professor**

Arvind Kumar

Sunil Chumber

Sandeep Guleria

Rajender Prashad

V. Seenu

Sandeep Aggarwal

V.K. Bansal

**Assistant Professor**

Anita Dhar

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**EDUCATION**

**Short term training**

1. Dr. Piyush Choudhry (27.08.07 to 26.2.08)

**Elective Training:**

8 undergraduate students from Germany, UK, UAE and from other states in India completed elective training.

**Continuing Medical Education**

**Organized by the department**

**Professor M. C. Misra**

- Course Director for
  i. **1st Training course in Laparoscopic Suturing Skills** from 25th February to 27th February 2008 at Minimally Invasive Surgery Training Centre, AIIMS, New Delhi.
  ii. **2nd Training course in Operative Laparoscopic- Basic and Advanced** from 8th -12th May 2007 at Minimally Invasive Surgery Training Centre, AIIMS, New Delhi.
  iii. **3rd Training course in Operative Laparoscopic- Basic and Advanced** from 23rd July -27th July 2007 at Minimally Invasive Surgery Training Centre, AIIMS, New Delhi.
  iv. **4th Training course in Operative Laparoscopic- Basic and Advanced** from 10th September - 14th September 2007 at Minimally Invasive Surgery Training Centre, AIIMS, New Delhi.
  v. **5th Training course in Operative Laparoscopic- Basic and Advanced** from 22nd October -26th October 2007 at Minimally Invasive Surgery Training Centre, AIIMS, New Delhi.
  vi. **6th Training course in Operative Laparoscopic- Basic and Advanced** from 26th November -30th November 2007 at Minimally Invasive Surgery Training Centre, AIIMS, New Delhi.
  vii. **7th Training course in Operative Laparoscopic- Basic and Advanced** from 7th January -11th January at Minimally Invasive Surgery Training Centre, AIIMS, New Delhi.
viii. 8th Training course in Operative Laparoscopic- Basic and Advanced from 31st March -4th April 2007 at Minimally Invasive Surgery Training Centre, AIIMS, New Delhi.

- Organizing Chairman, Second AIIMS Surgical Week, Inaugural Conference of Society of Endoscopic and Laparoscopic Surgeons of India (SELSI) at All India Institute of Medical Sciences, New Delhi from 27th March to 30th March 2008.
- Organizing Chairman, of Live Operative Workshop on Obesity Surgery, All India Institute of Medical Sciences, New Delhi on 31st January 2008.

**Professor A. Srivastava**

- Co-Organizing Chairman, of Second AIIMS Surgical Week & Inaugural Conference of Society of Endoscopic and Laparoscopic Surgeons of India (SELSI) at All India Institute of Medical Sciences, New Delhi from 27th March to 30th March 2008.
- Organized Surgical CME (March 27th March 2008) comprising theoretical deliberations by the national faculty and operative workshop on diseases of the breast, thyroid, parathyroid and adrenal diseases during Second AIIMS Surgical Week.
- Training of lady doctors working in Central Government Health Services: Organized “Training of Trainers” workshop on breast self examination to increase the awareness about the increasing breast cancer and train them in the methodology and benefits of self examination in early detection of breast cancer which was attended by 153 CGHS doctors. This is the first step towards launching a screening programme for common cancers in the community of Delhi. This programme has been initiated by Director General of Health Services, Ministry of Health & FW, Nirman Bhawan, India.

**Dr Sandeep Guleria**

- Co-Convener of CME on – Essentials of Chest Surgery for General Surgeons organized by ASICON Surgical Research & Education Foundation ASI, Delhi State Chapter & Deptt. Of Surgical Disciplines, on 24th February 2008 at AIIMS.
- National Faculty in Inaugural Conference of Society of Endoscopic and Laparoscopic Surgeons of India (SELSI) (International Minimal Access Surgery Conference, CME cum Live Workshop), ENDOSURG 2008 organized by the Department of Surgical Disciplines from 27th to 30th March 2008 at AIIMS.

**Dr. Rajinder Parshad**

- Co-Convener of CME on – Essentials of Chest Surgery for General Surgeons organized by ASICON Surgical Research & Education Foundation ASI, Delhi State Chapter & Deptt. of Surgical Disciplines, on 24th February 2008 at AIIMS.
- National Faculty in Inaugural Conference of Society of Endoscopic and Laparoscopic Surgeons of India (SELSI) (International Minimal Access Surgery Conference, CME cum Live Workshop), ENDOSURG 2008 organized by the Department of Surgical Disciplines from 27th to 30th March 2008 at AIIMS. Live demonstration of laparoscopic procedures.

**Dr. Sandeep Aggarwal**

- Organized the Live Operative Workshop on Obesity Surgery on Jan 31 2008, at Dr. V Ramalingaswami Board Room, AIIMS, New Delhi. This workshop marked the commencement of Bariatric Surgery Services at AIIMS.
• Joint Secretary, Second AIIMS Surgical Week, Inaugural Conference of Society of Endoscopic and Laparoscopic Surgeons of India (SELSI) at All India Institute of Medical Sciences, New Delhi from 27th March to 30th March 2008.

Dr. V K Bansal
• Course Coordinator for
  i. 2nd ‘Training Course in Operative Laparoscopy- Basic and Advanced” from 8th -12th May 2007 at Minimally Surgery Invasive Training Centre, AIIMS, New Delhi.
  ii. 3rd ‘Training Course in Operative Laparoscopy- Basic and Advanced” from 23rd July to 27th July 2007 at Minimally Invasive Surgery Training Centre, AIIMS, New Delhi.
  iii. 4th ‘Training Course in Operative Laparoscopy- Basic and Advanced” from 10th September to 14th September 2007 at Minimally Invasive Surgery Training Centre, AIIMS, New Delhi.
  iv. 5th ‘Training Course in Operative Laparoscopy- Basic and Advanced” from 22nd October to 26th October 2007 at Minimally Invasive Surgery Training Centre, AIIMS, New Delhi.
  v. 6th ‘Training Course in Operative Laparoscopy- Basic and Advanced” from 26th November to 30th November 2007 at Minimally Invasive Surgery Training Centre, AIIMS, New Delhi.
  vi. 7th ‘Training Course in Operative Laparoscopy- Basic and Advanced” from 7th January to 11th January 2008 at Minimally Invasive Surgery Training Centre, AIIMS, New Delhi.
  vii. 8th ‘Training Course in Operative Laparoscopy- Basic and Advanced” from 31st March to 4th April 2008 at Minimally Invasive Surgery Training Centre, AIIMS, New Delhi.
• Organizing Secretary of Inaugural Conference of Society of Endoscopic and Laparoscopic Surgeons of India (SELSI) at All India Institute of Medical Sciences, New Delhi from 27th March to 30th March 2008.

Dr. Anita Dhar
• Organized training workshop “Training of the Trainers on Breast Self Examination” for the doctors of the CGHS on 8th and 15th March 2008 at AIIMS. More than 153 doctors attended the workshop till now and were given hands on training also in the wards for clinical breast examination.
• Organized the Breast Day in Second AIIMS Surgical Week and Inaugural Conference of Society of Endoscopic and Laparoscopic Surgeons of India (SELSI) (Internationa Minimal Access Surgery Conference, CME cum Live Workshop) and ENDOSURG 2008 organized by the Department of Surgical Disciplines from 27th to 30th March 2008 at AIIMS.

Lectures delivered

Professor M. C. Misra
• Special Meeting of the Board of Studies of the Department of Surgery JN Medical College on 4.04.07 at AMU, Aligarh.
• As a Member of the Search Committee for the Vice- Chancellor on 5th May 2007 at Hyderabad.
• Visited as part of Central Technical Team for appraisal of Rajendra Institute of Medical Sciences, Ranchi for upgradation under PMSSY on 7th and 8th May 2007.
• Invited to visit “R Adams Cowley Shock Trauma Center” University of Maryland Medicine, Baltimore, USA on 6th June 2007.
• Invited to present Surgical Grand Rounds on 13th June 2007 at Mount Sinai Hospital, USA – Topic: Generalized peritonitis – Tropical spectrum
• As a Guest Faculty in National Conference on Medical Preparedness and Mass Causalities Management on 24th to 25th July 2007 at New Delhi, Organized by the National Disaster Management Authority.
• As a Faculty Member in Global Hernia Clinical Advisory Board meeting from 26th & 27th July 2007 at Lyon, France & Trevoux, France.
• As Guest Faculty in NATCON-IASO-2007 conference at Mohan Dai Owsal Cancer Treatment Research foundation Ludhiana from 21st to 23rd September 2007.
• Deliver an Oration at the Bazpur Conference, CME 2007 of IMA Bazpur Branch, Udham Singh Nagar, Uttarakhand on 7.10.07 held at Nainital.
• Appointed to act as an advisor in the PT Board for interviewing candidate in the Combined Medical Services Examination on 8.10.07 at UPSC Office.
• Invited as a Panelist during the Parenteral and Enteral Nutrition Conference held at AIIMS from 12th to 14th October 2007.
• Invited as a Faculty Member in 16th Asian Congress of Surgery, the Biennial Congress of the Asian Surgical Association (ASA) from 19th to 22nd October 2007 at Beijing, China to deliver guest lecture on Laparoscopic repair of incisional and ventral hernia.
• Invited as Operating Faculty in 6th Live Endo Laparoscopic Workshop at Agra on 27th to 28th October 2007
• Invited to deliver a lecture on “Laparoscopy in General Surgery Emergencies” in 33rd Annual Conference of UP Chapter of Association of Surgeons of India from 2nd to 4th November 2007 at BHU Varanasi.
• Invited to act as a Faculty Member, Workshop on Best practices in Tertiary Healthcare on 5th November 2007 at the Ministry of Health & FW, Govt. of India, Nirman Bhawan, New Delhi.
• Invited Guest Faculty Act as a National Faculty during the 8th Postgraduate Endocrine Surgery Course and 8th Indian Association of Endocrine Surgeons’s conference at SGPGI, Lucknow from 22nd to 25th November 2007.
• Invited Faculty at the National Hernia Congress & Live Workshop at New Delhi from 14th to 16th December 2007.
• Invited to participate during Symposium on Severe Dudenal Trauma and Intra-abdominal infections during ASI conference in Bhubaneshwar on 27th & 28th December 2007.
• Invited as guest faculty during the 3rd Meeting of International Endohernia society (IEHS) at Stuttgart, Germany from 17th to 19th January 2008 and presented “Comparison of open and laparoscopic repair of incisional/ventral hernia – results of a prospective randomized study”.
• Invited as a National Faculty to participate during 8th National Congress of IAGES& workshop of Minimal Access Surgery at Jaipur from 14th to 17th February 2008.
• Invited as a National Faculty to participate at the Live operative Workshop on Laparoscopic Surgery on 9th March 2008 at J N Medical College, AMU Aligarh
• Invited as a Chairperson in 7th Annual International Conference of Rajiv Gandhi Cancer Institute and Research Centre from 7th March to 9th March 2008
• Participated at the Second Meeting of Global Hernia Clinical Advisory Board on 11th & 12th March 2008 at the Camelback Inn in Scottsdale, Arizona, USA.
• Invited as a National Faculty to participate at the Live operative Workshop on Laparoscopic Surgery on 15th & 16th March 2008 during Kanpur Endosurgery – 2008, Organized at Mariampur Hospital under Kanpur Surgical Club and UP Chapter of ASI.

Papers presented at various conferences
• Three Ports Vs. Four Ports Laparoscopic Cholecystectomy; A Prospective Randomized Controlled Study. National Conference of Indian Association of Gastrointestinal Endo-Surgeons at Jaipur in February 2008
• A Prospective Randomised Controlled Study of Direct Telescopic Dissection Vs. Balloon Dissection in Laparoscopic Total Extraperitoneal Inguinal Hernia Repair. National Conference of Indian Association of Gastrointestinal Endo-Surgeons at Jaipur in February 2008
• Preoperative Localization and Surgical Management in Duodenal Gastrinoma. National Conference of Indian Association of Surgical Oncology held at Ludhiana from 20th -23rd September 2007
• Prospective Study to evaluate the Role of Helicobacter pylori in Gall Bladder Diseases. National Conference of Indian Association of Surgical Oncology held at Ludhiana from 20th -23rd September 2007
• Effective Training of Laparoscopic Hepaticojejunostomy using procine model. Annual Conference of Association of Surgeons of India held at Bhubaneswara from 27th to 28th December 2008
• Laparoscopic Percystectomy for Hepatic Hydatid cyst. Annual Conference of Association of Surgeons of India held at Bhubaneswara from 27th to 28th December 2008
• Post Cholecystectomy Symptoms Following Laparoscopic Cholecystectomy A Prospective Study. National Conference of Indian Association of Gastrointestinal Endo-Surgeons at Jaipur in February 2008 National Conference of Indian Association of Gastrointestinal Endo-Surgeons at Jaipur in February 2008
• Prospective Evaluation of Laparoscopic Skills Acquisition in a Short term Focussed Training Programme on a Phantom Model using Porcine Gall Bladder. National Conference of Indian Association of Gastrointestinal Endo-Surgeons at Jaipur in February 2008


• Transabdominal Preperitoneal Repair of Groin Hernia Annual Conference of Delhi State Chapter ASI held at MAMC, New Delhi November 2007.

• Transanal Endoscopic Microsurgery: A Case Report Annual Conference of Delhi State Chapter ASI held at MAMC, New Delhi November 2007.


• Varied Presentations of Hepatobiliary and Pancreatic Tuberculosis – A Series from a Tertiary Care Centre Annual Conference of Association of Surgeons of India held at Bhubaneswar from 27th to 28th December 2008.


Professor A. Srivastava

• Surgical techniques of ilio-inguinal block dissection –Annual meeting of Indian Association of Surgical Oncology, Ludhiana Punjab in September 2007

• Surgical technique of parotidectomy for parotid tumours – Annual meeting of Association of Surgeons of India – Bhubneshwar, Orissa December 2007

• Surgical technique of breast conservation surgery - Annual meeting of Association of Surgeons of India – Bhubneshwar, Orissa December 2007

Dr Sandeep Guleria

• Guest Lecture Indian Society of Nephrology (East Zone): Simultaneous Kidney Pancreas Transplantation: A cure for diabetes. 22nd September 2007 Kolkata

• Guest Lecture IASO Ludhiana: Management of Cancer after Transplantation 23rd September 2007, Ludhiana


• “Generic Tacrolimus in Renal Transplantation” Poster presentation at the Xth Congress of the Asian Society of Transplantation. December 1st to 4th 2007. Patayya Thailand

- Chair Person “Management of Vascular Trauma” ASICON Golden Jubilee CME, Sir Ganga Ram Hospital 23rd December 2007
- Chair Person Annual Conference IMA South Delhi Branch “Management of Acute Renal Failure” 6th January 2008
- Panelist Renal Summit II “CNI’s in Renal Transplantation” New Delhi 12th January 2008.
- Chair Person “Session on Transplantation” in Meeting on prevention of chronic Kidney disease. 17th February 2008, AIIMS New Delhi.
- Guest Lecture on “Pre-emptive transplantation” at the Nephrology Urology Transplant Meeting of SAARC countries at Kathmandu Nepal. 7th to 9th March 2008
- Guest Lecture “Should Protocol biopsies be routine” Annual meeting Delhi Nephrology society 12th March 2008
- Guest Lecture “Simultaneous Kidney Pancreas Transplantation” Indian Academy of Nephrology 16th March 2008 Jaipur.
- Chairperson Asicon Golden Juiblee CME on Oncology Shanti Mukand Hospital 23rd March 2008.

Dr. Rajinder Parshad

- Mirza Sameer, Sharma Gayatri, Prashad Rajindra, Gupta D Siddhartha, Ralhan Ranju.: Prognostic Significance of RARB hypermethylation in Invasive Ductal Breast Carcinoma Patients.. Poster

Dr. Sandeep Aggarwal

• Overview of Bariatric Surgery during the Live Operative workshop on 31st Jan 2008 held at AIIMS, New Delhi

Dr. V K Bansal

• Management of Pancreatic duct stump after Pancreaticoduodenectomy. National Conference of Indian Association of Surgical Oncology held at Ludhiana from 20th-23rd September 2007
• Training in Laparoscopic Surgery. Inaugural Conference of Society of Endoscopic and Laparoscopic surgeons of India at All India Institute of Medical Sciences from 27th March to 30th March 2008.
• National Conference of Indian Association of Gastrointestinal Endo-Surgeons at Jaipur in February 2008.
• National Conference of Indian Association of Surgical Oncology held at Ludhiana from 20th - 23rd September 2007
• Annual Conference of Delhi State Chapter ASI held at MAMC, New Delhi in November 2007.
• National Conference of Hernia Society of India in January 2008
• National Conference of Endocrine Surgeons of India at SGPGI, Lucknow in October 2007
• Three Ports Vs. Four Ports Laparoscopic Cholecystectomy: A Prospective Randomized Controlled Study. MC Misra, VK Bansal, HK Bhattacharjee, V Jindal, B Prashant, Gaurav C, A Krishna,

Dr. Anita Dhar


RESEARCH

Funded Projects

Ongoing
1. Prospective study to evaluate the role of Helicobacter pylori in benign and malignant hepatobiliary disease from Institute Research Grant from April 2006 March 2008, Prof. M. C. Misra Rs. 80,000/-
2. A Randomized controlled trail of laparoscopic Inguinal Hernia repair – Trans-abdominal Preperitoneal versus total extra peritoneal approach from Institute Research Grant from 2007-08, Prof. M. C. Misra Rs. 1,62,500/-
3. To Evaluate the efficacy and tolerability of tacrolimus in patients undergoing renal transplantation. Dr Sandeep Guleria Panacea Biotec, Funding: Rs 6 lakhs Save the Kidney, Rajiv Gandhi Foundation, Funding: Rs 11.20 lakhs.

4. Effect of famotidine on tumor infiltrating lymphocytes in breast cancer- A double blind placebo controlled randomized clinical trial. Dr Rajinder Parshad. Funded by CSIR; Duration 2 years. (Contingency grant of Rs.20,000 per year.).

5. Prospective study to evaluate the role of Helicobacter pylori in benign and malignant hepatobiliary disease from Institute Research Grant from April 2006-March 2008, Dr. V. K. Bansal Rs 80,000.

6. Safety and efficacy of autologous stem cells in prevention of amputation in patients with chronic critical limb ischemia. A multi-centric study Dr. Anita Dhar funded by Department of Biotechnology. Duration 2 years. Rs.50 lac.

**Departmental projects**

**Ongoing**

2. A prospective randomized control trial of sutured vs. tacker fixation of mesh in patients undergoing laparoscopic Incisional Hernia repair.
3. A prospective randomized comparison of TAPP vs. TEP repair in patients undergoing laparoscopic inguinal hernia repair.
4. Prospective Evaluation of laparoscopic Skills Acquisition in a Short Term Focussed Training Programme on a Phantom Model using Porcine Gall Bladder.
5. Prospective Study to evaluate the role of Helicobacter pylori in benign and malignant hepatobiliary disease.
6. Role of Centchroman in regression of Mastalgia and regression of Fibroadenoma and its correlation to histopathology and estrogen and progesterone receptor.
7. Role of FDG PET-CT in evaluation of axillary lymph node involvement in T1 T2 N0 M0 breast cancer in comparison with Sentinel node Biopsy.
8. Lymphoscintigraphy of upper limb lymphatics in patients undergoing axillary dissection in carcinoma breast.
9. 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.
10. Assessment of cosmetic outcome following breast oncoplasty following breast conservative surgery.
11. Safety and efficacy of autologous stem cells in prevention of amputation in patients with chronic critical limb ischemia.
12. To Study the Incidence and Assess the Risk Factors for Post- Transplant New Onset Diabetes Mellitus.
13. Laparoscopic Assisted Surgery for Treatment of Intestinal Tuberculosis
15. Designing of methylation target arrays for breast cancer.
16. Development and validation of a simple method for measurement of trans fatty acid intake and to study the association between trans fatty acids and CAD.
17. Prospective Evaluation of laparoscopic Skills Acquisition in a Short Term Focussed Training Programme on a Phantom Model using Porcine Gall Bladder.

18. Transvaginal Cholecystectomy – a pilot feasibility study

19. Effective Training Of Laparoscopic Hepatico-jejunostomy Using Porcine Model

20. Study of human breast cancer by magnetic resonance techniques.


22. Evaluation of the role of Protocol biopsies in renal transplantation and to evaluate the role of cyclosporine versus tacrolimus

**Collaborative projects**

**Ongoing**

1. Feasibility study on Injury & Road Traffic Injury surveillance.

2. Total extra peritoneal hernia repair comparison of space creation by direct telescope vs. balloon dissection- A randomized controlled study.

3. Feasibility for the fast tract surgery for thyroidectomy.


5. Donor Kidney size and outcome following live related renal transplantation.

6. Renal Arterial Resistive index as a predictor of chronic allograft nephropathy.


8. Post operative surgical site infection in clean and clean contaminated operations.


**Completed**

1. Outcome after laparoscopic cardiomyotomy – early and late (with Gastroenterology).

2. Efficacy and feasibility of regional anaesthesia compared to general anaesthesia for totally extraperitoneal laparoscopic inguinal hernia repair (with Anaesthesiology).


4. Role of magnetic resonance imaging and magnetic resonance sialography in salivary gland diseases, (with Radiodiagnosis, Otorhinolaryngology and Surgical Oncology).

5. Breast cancer: Local tumour staging by MRI and its impact on therapeutic approach, (with Radiodiagnosis and Pathology).

6. A pilot study of standardized open mesh repair in inguinal hernia (with Anaesthesiology).

7. Development of ‘Blood-less surgery’ (with Bioengineering Cardiff University, UK).

8. Quality of life of live related renal donors (with Nephrology).

9. Molecular typing and detection of Mupirocin and Methicillin Resistant Staph aureus (with Microbiology).

10. Cox2 gene polymorphisms in breast cancer patients (with Biotechnology and Biopysics).

11. Cytokine Gene Polymorphism in Renal Transplant Patients (with Transplant Immunology and Immunogenetics).

12. Cytomegalovirus disease disease in transplantation (with Microbiology).

PUBLICATIONS

Journals
16. Sameer Mirza, Gayatri Sharma, Rajindra Prashad, Siddhartha D Gupta and Ranju Ralhan. To Determine Clinical Significance of Metastasis Tumor Antigen (MTA1) ex-pression in Invasive


**Chapters in Books**

1. Sandeep Guleria: Published a monograph on ‘Living with a transplant’ for patient education
2. Anita Dhar: Designed a brochure “Fight against Breast Cancer” for the cause of Breast Awareness and Self Breast Examination.

**PATIENT CARE**

The department runs a general surgical OPD every day, follow-up clinic 4 days a week, Breast Cancer Clinic twice a week and Renal Transplant Clinic once a week. The department is providing regular services in multiple fields including minimally invasive surgery, renal transplantation, laparoscopic donor nephrectomy, hepato-biliary and pancreatic surgery, thoracic and thoracoscopic surgery, endocrine surgery, vascular surgery, and cancer surgery. Bariatric Surgery for surgical treatment of morbid obesity has started in the department since January 2008.

**Awards, Honours and Significant Events**

**Prof. M.C. Misra**, Founder President, Indian Hernia Society, Nominated from India as a Member of Global Hernia Clinical Advisory Board, Convenor, Society of Endoscopic & Laparoscopic Surgeons of India (SELSI), Organizing Chairman, Inaugural Conference of SELSI on 29th & 30 March 2008.

**Dr. Arvind Kumar**, Elected Governing Council Member of Association of Surgeons of India

**Dr Sandeep Guleria** was awarded the Exemplary contribution award by the IMA south Delhi Branch in January 2008

**Dr. Anita Dhar** was designated as Trainer for No Scalpel Vasectomy (NSV) by the Ministry of Health and Family Welfare in 2007.

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Social service through public awareness
Prof. M.C.Misra was invited to participate in Live Phone–in health program titled “Total Health” on various health related issues for creating public awareness conducted by the DD News. The topics included breast cancer, life style, morbid obesity and hernia. The Sahara Samay invited Prof. Misra to conduct live Phone –In show on breast cancer and morbid obesity. Prof. Misra was extensively involved in creating public awareness for social cause in print media on breast cancer, hernia, morbid obesity and road accidents. Prof. M.C. Misra and Prof. Anurag Srivastava conducted workshop involving “Training of Trainers” particularly of Lady doctors to create awareness and methodology of breast self examination and rapid assessment of breast symptoms for early diagnosis and therapy of breast cancer under a project supported by Director General of Health services, Ministry of Health & FW, Govt of India, New Delhi.
9.35 Transplant Immunology & Immunogenetics

Professor and Head
N.K. Mehra

Associate Professor
D.K. Mitra

Scientists
Uma Kanga
Gurvinder Kaur
Sunil Kumar
Arundhati Panigrahi

EDUCATION

Short term training
The Department provided short term training to the Junior Residents of Pathology and Laboratory Medicine and Senior Residents (DM Students) of the Department of Nephrology and Hematology. During the year, 14 students from various universities and institutions as well as doctors from hospitals in and around Delhi received 4-6 months training in laboratory techniques in HLA testing and other immunological investigations.

Long term training
Lt. Col (Dr) from the AFMC is undergoing long term training in Clinical Immunogenetics.

Continuing Medical Education (CME)
Training to faculty
Five faculty members from Medical Colleges in Rajasthan (Jaipur & Bikaner) and West Bengal undertook training in the Department in HLA testing and other immunological investigations with the purpose of setting up HLA laboratories at their respective institutions.

The faculty 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 have been regularly given to students and visiting trainees. The Faculty also delivered special lectures in various department of the institute (Biotechnology, Medical Oncology, Medicine) as part of the academic curriculum of these departments.

Lectures delivered

Professor N.K. Mehra

- Donor selection strategies: Hematopoietic stem cell transplantation, Dharmsila Hospital, New Delhi, 20 April 2007.
• Hematopoietic Stem Cell Transplantation: Opportunities & Challenges, Sir Ganga Ram Hospital, New Delhi, 24 Oct 2007.
• Genetics of Type 1 diabetes. ICMR Workshop on Mapping Pattern of diabetes in India, New Delhi, 21 Nov 2007.
• A Journey into the world of HLA & Medicine. 76th Annual Conference of Society of Biological Chemists (India), Tirupati, 25–27 Nov 2007.
• TB Vaccines. DBT Meeting on Bioinformatics of TB, New Delhi, 27 Nov. 2007.
• Host Genetics and HIV infection. 34th Annual Conf. of the Indian Immunology Society, Pune, 16 Dec 2007.
• Genetic determinants of host susceptibility to mycobacterial infections. 17th International Congress of Leprosy, Hyderabad, 2 Feb 2008.
• Predictive cytokine polymorphic genes in organ and BMT. International Conference on Medical & Community Genetics, PGIMER, Chandigarh, 15 Feb 2008.
• New insights into the genetics of Type 1 Diabetes. 5th Intl. Symposium on Genetic, Health and Disease, Guru Nanak Dev University, Amritsar, 18 Feb. 2008.
• Antibody basis of graft rejection. Indian Academy of Nephrology, Jaipur, 15 March, 2008.
• A Journey into the world of HLA and Medicine. MAMC Golden Jubilee Symposium, New Delhi, 29 March 2008.
• Genetic correlates of HIV infection. 1st International Symposium on Genetics and Immune Correlates of HIV infection and vaccine induced immunity, Budapest, 10 June 2007.
• Molecular medicine approaches to disease diagnosis and prevention. 13th International Congress of Immunology, Rio de Janeiro, Brazil and Session Chair, 20-25 Aug 2007.
• MHC Genomics and disease. International workshop on Genetics of Complex infectious disease. Indo-German Science Centre for Infectious Diseases, Braunschwig, Germany, 30 Sep–2 Oct 2007.
• Session Chair at the 31st Annual Conference of the Australasian and South East Asian Tissue Typing Association, Freemantle, Australia, 15-18 Nov 2007.
• Host genetics of HIV infection. 3rd Al-Ain International Immunological Conference, Al-Ain, UAE, 17 March 2008.
National and International Conferences/Meetings Organized by Department

- Comprehensive approach to understand streptococcal diseases and their sequelae to develop innovative strategies for diagnosis, therapy, prevention and control” (ASSIST) Partners meeting, New Delhi, 26 Feb 2008.
- Genetics of HIV infection transmission, resistance and disease progression”. First Investigators meeting, New Delhi, 22 Nov 2007.

RESEARCH

Funded Projects

Ongoing

1. Monitoring T cell activation markers and cytokine production following allogenic renal transplantation. Prof. N.K. Mehra. Funded by ICMR for 3 years (2005-08) Funds: Rs.17 lacs.
3. ICMR-INSERM Project on Type 1 Diabetes. Prof. N.K. Mehra. Funded by ICMR for 5 years (2004-09). Funds: Rs.120.20 lacs.
6. HLA Profile of Raica Community of Rajasthan. Prof. N.K. Mehra. Funded by ICMR for 2 years (2006-2008). Funds: Rs.10.08 lacs.
7. Genomic analysis of MHC region genes (HLA & Non HLA) in Type 1 Diabetes in the Indian Population. Prof. N.K. Mehra. Funded by ICMR for 3 years (2006-09). Funds: Rs.27 lacs.
9. Genetic basis for HIV-1 transmission Resistance and disease progression. Prof. N.K. Mehra. Funded by DBT for 3 years (2007-2010). Funds:
10. Hematopoietic stem cell transplantation and Genetics of HIV infection. TATA INNOVATION FELLOWSHIP. Prof. N.K. Mehra, funded by DBT, 3 years (Oct. 2007-2010).

15. Genomic and Molecular studies on the Immunopathogenesis of Bronchial Asthma. Dr. DK Mitra (with Medicine, IGIB, CSIR, Pathology). Funding Agency: DBT; Funds – 37 lacs. Duration 2004-07


PUBLICATIONS

Journals


PATIENT CARE

Laboratory services

<table>
<thead>
<tr>
<th>HLA matching</th>
<th>Recipients</th>
<th>Donors</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Renal Transplant Patients</td>
<td>222</td>
<td>250</td>
<td>472</td>
</tr>
<tr>
<td>Bone Marrow Transplant patients</td>
<td>35</td>
<td>105</td>
<td>140</td>
</tr>
<tr>
<td>Leukemia</td>
<td>56</td>
<td>170</td>
<td>226</td>
</tr>
<tr>
<td>Aplastic anemia</td>
<td>71</td>
<td>201</td>
<td>273</td>
</tr>
<tr>
<td>Acute Leukemia</td>
<td>62</td>
<td>196</td>
<td>258</td>
</tr>
<tr>
<td>Thalassemia</td>
<td>72</td>
<td>206</td>
<td>278</td>
</tr>
<tr>
<td>Others</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>296</td>
<td>948</td>
<td>1254</td>
</tr>
</tbody>
</table>

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HLA-DNA matching 204 320 524

**Cadaver Donor Organ transplantation**
- Cadaver Donor 3
- Kidney recipients 10
- Heart recipients 0

**Cross Match Test**
- Serology 310
- Flowcytometry 23
- Panel reactive antibody (PRA) screening 525
- Flow PRA 25
- ELISA PRA 200

**DIAGNOSTICS**
- Spondyloarthropathies 430
- Other diseases 96
- Chimerism studies in BMT
- Immunophenotyping of Leukemia Patients 280
- Unrelated Donor search for BMT 350

During the year, a total of 350 requests for search of unrelated HLA matched donor from the ‘Asian Indian Donor Marrow Registry’ for bone marrow transplantation (BMT) were received. These include 158 from USA, 58 from Europe, 62 from various Asian countries and 72 from India.

**AWARDS, HONOURS AND SIGNIFICANT EVENTS**

Prof. N.K. Mehra was awarded the prestigious ‘Basanti Devi Amir Chand’ Prize of the Indian Council of Medical Research (ICMR) for the year 2005. He was selected for the ‘Tata Innovation Fellowship’ of the Department of Biotechnology (DBT), Govt. of India, was conferred Fellowship ‘FNA’ of the Indian National Science Academy (INSA) and also fellowship of Madras Science Research Foundation. He was nominated member of the ‘Editorial Board’ of Current Science. He continues to be the ‘Vice President’ of the Federation of Immunological Societies of Asia Oceania (FIMSA), ‘Council Member’ of the International Histocompatibility Advisory Council and ‘international Councillor’ for the Australasian and South East Asian Tissue Typing Association (ASEATTA). He was ‘leader of the Indian Delegation’ to Germany to formulate research projects on ‘Genetic Susceptibility’ under the under Indo-German Science Centre for Infectious diseases (Sept.2007). He was invited as a ‘Plenary Speaker’ at the 1st International Symposium on Genetics and Immune Correlates of HIV infection and vaccine Induced immunity, Budapest, Hungary (June 2007) and at the 3rd Al-Ain International Immunology Conference, Al-Ain, UAE (March 2008), and as ‘Minisymposium Chair’ at the 13th International Congress of Immunology, Rio-de-Janeiro, Brazil (August 2007).

Prof. Mehra was a member of the ICMR Expert Group on Stem Cell Research; ICMR Special Review Committee on North East projects; Expert Group on Human Resource Development, Technical Committee of the ICMR; Task Force on Immunology; Expert Group on Study on Camel Milk; Steering Committee of ICMR Advanced Centre on Type 1 Diabetes; Project Review Committee of ICMR on Cellular and Molecular Biology, Allergy and Biochemistry, Immunology, Organ
Transplantation and Physiology; Expert Group on Diabetes, Expert Group on Creation of Primate Breeding Facility at NIRRH, Mumbai; Expert Group on creation of Centre for Molecular Medicine at SMS Medical College, Jaipur and Expert Group on creation of Modern Biology Facility at Guru Nanak Dev University, Amritsar.

Prof. Mehra is a Member of the Scientific Advisory Committee of – i) National Institute of Immunology, New Delhi, ii) Institute of Cytology and Preventive Oncology, Noida, iii) Central JALMA Institute for Leprosy and other Mycobacterial Diseases, Agra, iii) Tuberculosis Research Centre, Chennai, iv) National Institute for Research in Reproductive Health, Mumbai, v) LV Prasad Eye Institute, Hyderabad, vi) Desert Medical Research Centre, Jodhpur, vi) Research Advisory Council of the Institute of Life Sciences, Bhubaneswar.

Prof. Mehra is a Member of the Biomedical Research Board, ICMR and Scientific Advisory Group of the Non-Communicable Disease Division; Member of various committees of the Department of Biotechnology (DBT) – i) Task Force on Stem Cell Research and Regenerative Medicine, ii) Inter Disciplinary Research Committee (IDRC), iii) Expert Group on Research in Tuberculosis, iv) Committee on TB Vaccines Clinical Trial (TVCTEG), v) Expert Group on leprosy research, vi) Expert Group for establishment of Aerosol Facility at JALMA, Agra.

Prof. Mehra was a Member of the Selection Committee of the National Institute of Immunology and an Expert for selection of Faculty of the PGIMER, Chandigarh; Jury Member of the Ranbaxy Science Foundation Awards; Selection Committee of ICMR for selection of Research Officers; Member of the CSIR Travel Grant Award Committee; Member of the Editorial Board of International journals – Tissue Antigens:Immune Response Genes (Australia); Journal of Clinical Immunology (USA); Modern Rheumatology (Japan); Open Immunology Journal (Bentham Science Publishers); Asia Pacific Journal of Allergy & Immunology (Thailand); International Journal of Human Genetics (India); Open Pathology Journal.

Prof. Mehra was invited as “Guest Speaker” in several national and international meetings.

Dr. Uma Kanga (Scientist-II) continues to serve as the ‘Councillor’ for the Australasian and South East Asian Tissue Typing Association (ASEATTA).

Dr. Arundhati Panigrahi (Scientist I) received the ‘best paper presentation award’ at the Annual meeting of the Transplant Update in Oct 2007, held in Ahmedabad.

VISITING SCIENTISTS

Prof. Paul Terasaki, Director, Terasaki Foundation, USA delivered a lecture on Reducing chronic rejection by monitoring and removal of antibody. 3rd Dec. 2007.

Prof. G.S. Chhatwal (Coordinator ASSIST), Braunschweig, Germany along with his group visited the Laboratory to review the ASSIST project – 26th Feb.2008.

Dr Patricia Price, University of Western Australia, Perth, Australia.
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 postgraduate education is continuing and 11 postgraduates are under training. The department had observers and post-graduate students from Kenya, Australia, Bangladesh and several Indian Medical Colleges to observe and learn Robotics, Endourology, Laparoscopy and Microsurgery. The faculty of the department continues to be examiners for NBE and M.Ch. Urology in several 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 (CME)
The faculty of the department participated in and delivered lectures in continuing medical education programmes, symposia, national and international conferences during the year.

Organized by the Department
The department conducted the following Workshops and participated as invited Faculty in CME Programs:

Prof NP Gupta
4. Participated in CME & Live Workshop on Lasers in Endourology, R&R Hospital, New Delhi.

Dr Rajeev Kumar
1. Idiopathic male factor management: Day to day infertility management, CME, Sir Ganga Ram Hospital, August 26, 2007.

NATIONAL AND INTERNATIONAL CONFERENCES

Lectures delivered

Prof NP Gupta
7. Surgical management of Neurogenic Bladder. SIU Indian Section meeting, Mumbai, 16-18 Nov, 2007.

Dr Amlesh Seth
1. Prognostic significance of Her2/neu Overexpression in patients of muscle invasive urinary bladder carcinoma treated with radical cystectomy
2. Oncological and functional outcome of radical cystectomy in patients with bladder cancer and obstructive uropathy

Dr Rajeev Kumar
5. Evidence based approach to OATs; Annual Conference, Indian Fertility Society, December 8-9, 2007, New Delhi.

RESEARCH

Funded Projects

Completed
1. Homocysteine as a marker for male infertility: AIIMS Research Grant, 2006-2007, PI: Dr Rajeev Kumar

Ongoing

Departmental Projects

Completed
1. Prevalence of androgen deficiency and sexual function status in the ageing Indian male. Department of Urology, AIIMS
2. Sexual function status of patients before and after treatment of BPH. Department of Urology, AIIMS

Ongoing
2. Evaluation of various types of intussusception techniques of microsurgical vasoepididymostomy.
3. Understanding the health seeking behaviour of infertile men.
4. Evaluation of laparoscopy in the management of carcinoma bladder.
5. Effect of stone and pelvicalyceal system configuration on the morbidity and relook rates with PCNL and its impact on training.
6. Development and Validation of a Stratification System to grade the degree of difficulty of PCNL.
9. Evaluation of TUVRP and Holmium laser prostatectomy for BPH.

Collaborative Projects

Completed
1. Polymorphisms in hormone related and prostate cancer candidate genes. (with Punjab University, Chandigarh).

Ongoing
1. 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.
3. 3-dimensional Chemical shift imaging and Diffusion weighted imaging using Proton MRS in the diagnosis of carcinoma prostate (with NMR).
4. CFTR gene mutations in obstructive azoospermia (with Pediatrics).
5. Stone analysis using x-ray diffraction studies (with Biophysics).
6. Prospective randomized study of radical cystectomy versus concurrent chemo-radiotherapy in muscle invasive cancer of urinary bladder (Radiotherapy).
7. Molecular Epidemiology of Prostate Cancer: Polymorphosis in hormone related and prostatic cancer candidate hernes. (with Punjab University Chandigarh and PGI, Chandigarh).
8. Characterisation of Testing Specific Sperm associated antigen 9 (SPAG9) gene expression and humoral immune response in various human cancers. (with National Institute of Immunology, New Delhi and Safdarjung Hospital, New Delhi).
10. Core through urethrotomy with Holmium Yag laser in obliterated traumatic urethral stricture.
11. A Phase IV PMS study of SIIL-ONCO-BCG vaccine administration in patients of superficial bladder carcinoma following TURBT.

PUBLICATIONS

Journals


18. Kumar R, Nayyar R, Kumar V, Gupta NP, Hemal AK, Jagannathan NR, Dattagupta S, Thulka S. Potential of Magnetic Resonance Spectroscopic Imaging in Predicting Absence of Prostate Cancer in Men with Serum Prostate-Specific Antigen Between 4 and 10 ng/mL: A Follow-up Study. Urology. 2008 Mar 6;


AWARDS AND HONOURS

Prof NP Gupta
1. Elected as President-Elect of Urology Association of Asia (UAA)
2. Elected as Chairman of 9th Asian Congress of Urology – 2008
3. President of Urological Society of India - 2007
4. Awarded National Hindi Science Award

Dr Rajeev Kumar
1. Convenor for video CUE, Annual conference of the North Zone, Urological Society of India
2. Convenor for formulating guidelines on Male Infertility for the Urological Society of India
3. Served as organizing secretary, 9th Asian Congress of Urology
5. Invited as faculty for Day to day infertility management, CME, Sir Ganga Ram Hospital, August 26, 2007.

COMMUNITY SERVICE
The faculty of department of Urology participated in (Programmes on Urological diseases in Doordarshan and All India Radio).
PATIENT CARE

Surgical procedures
Open 572
Endourology 1025
  Lower tract 733
  Upper tract 292
Percutaneous renal surgery 190
Ureterorenoscopy 102
Microsurgery 58
Laparoscopic Surgery 49
Robotic Surgery 116
Radical Prostatectomy 46
Pyeloplasty 32
Others 38

Minor OT
Cystoscopy 1745
Minor Cases 3584

Extra corporeal Shock Wave Lithotripsy (ESWL)
New cases 303
Re-do cases 578

Urodynamic procedures
Uroflowmetry 3164
Cystometrogram 286

Ultrasound procedures
Diagnostic and Interventional 297
10.1 Cardiothoracic Sciences Centre

Chief
A. Sampath Kumar

CARDIOTHORACIC AND VASCULAR SURGERY

Professor and Head
A. Sampath Kumar

Professor
Balram Airan

Additional Professors
U.K. Chowdhury    S.K. Choudhary    A.K.Bisoi

Assistant Professors
Milind Hote       Sachin Talwar     V. Devagourou

EDUCATION
Prof. A. Sampath Kumar prepared the following educational surgical videos on CTS Net.

Videos
a) Bidirectional Glenn Shunt: A. Sampath Kumar and Sachin Talwar
b) Aortic Valve Replacement with stentless autologous pericardium: A. Sampath Kumar and Carlos Duran.

Short Term Trainees
The following have undergone short term training in the department
• Dr. Peter Aseyo Sore from Nairobi, Kenya
• Dr. Santanu Dutta from Institute of Postgraduate Medical Education & Research, Kolkata
• Dr. Reyaz Ahmad Lone from Sher-I-Kashmir Institute of Medical Sciences, Srinagar
• Dr. Vikas Ahlawat from National Heart Institute, East of Kailash, New Delhi
• Technician in ICU/CCU from Ladakh Heart Foundation, Leh Ladakh
• Physiotherapist in Cardio Respiratory Physiotherapy from Indian Institute of Health Education & Research, Patna
• Physiotherapist from Icon Institute of Allied Health Sciences, K.P. Bhawan, Sadarpur Colony, NOIDA (U.P.)
• Postgraduate students in Physiotherapy from Jamia Hamdard University, New Delhi.
• 4 perfusionists from Becken Education, Centre, Baroda – An IACVTS accredited Institution.

National and International conferences
Prof. A. Sampath Kumar attended the 16th Annual Conference of Asian Society of Cardiovascular Surgery at Singapore from 13th-16th March, 2008.

He also attended the 54th Annual Conference of the Indian Association of Cardiovascular and Thoracic Surgeons at Pune from Feb. 24th -26th, 2008.

Lecture on “Mechanical Circulatory Assist in Chronic Cardiac failure” during Joint Annual Meeting of ISHR (Indian Section), International Academy of Cardiovascular Surgery (Indian Section) & Heart Failure Society of India held at PGIMER, Chandigarh from 29th Feb to 1st March 2008.

Lecture on “Role of Revascularization in Heart Failure” during the National Annual meeting of Heart Failure society at MCR Institute for Human Resource Development at Hyderabad from 3rd to 4th November 2007.


Dr. S.K. Choudhary delivered a lecture on “Tubercular Pseudoaneurysm of aorta and its branches” at the aortic Surgery Symposium, Tokyo, Japan October 13-14, 2007.

Dr. Sachin Talwar delivered a lecture on “Changing outcomes of pulmonary artery banding with adjustable pulmonary artery band” at the World Society of Pediatric and Congenital Heart surgery, Washington DC, 3-4th May, 2007.


Lecture on “A new technique of Unidirectional valved patch for closure of septal defects in patients with severe pulmonary hypertension” at the 9th Annual Conference of the Pediatric Cardiac Society of India at Kolkata between 23rd to 25th November 2007.

Lecture on “Aortic valve replacement with biological substitutes in Children” at the 9th Annual Conference of the Pediatric Cardiac Society of India at Kolkata from 23rd to 25th November 2007.

Lecture on “Total anomalous pulmonary venous connection beyond childhood” at the 9th Annual Conference of the Pediatric Cardiac Society of India at Kolkata between 23rd to 25th November 2007.

Lecture on “Successful outcome following adjustable pulmonary artery banding and subsequent closure of ventricular septal defect in a patient with Severe pulmonary hypertension and disseminated
sepsis” at the 9th Annual Conference of the Pediatric Cardiac Society of India at Kolkatta from 23rd to 25th November 2007.

Lecture on “Bioprosthetic heart valve implantation in India—indications, results and assessment of impact on quality of life” at 54th Annual Conference of the Indian Association of Cardiovascular and Thoracic Surgeons from 21st to 24th February 2008 at Pune

Dr. Milind Hote delivered a lecture on “Robotic ASD Closure” at 54th National Conference of Indian Association of Cardiovascular & Thoracic Surgeons at Pune 21-23rd Feb 2008.

Dr. Devagourou attended meet on “Transcatheter therapy for structural cardiovascular Disease October 4, 2007. Cleveland, Ohio, USA.


RESEARCH

Projects completed
- Auditing of Early Goal Directed Therapy
- Bioprosthetic heart valve implantation in India—indications, results and assessment of quality of life.
- Nosocomial infections in the intensive care unit after pediatric cardiac surgery.
- The role of Transthoracic Echocardiography as a real time hemodynamic monitoring tool during induction of anesthesia in patients undergoing coronary artery bypass grafting surgery.
- Comparative study of Lactate, Pyruvate and Lactate Pyruvate ratio as Markers of myocardial Ischemia in Adult patients undergoing open heart surgery.
- Nosocomial infections in the intensive care unit after pediatric cardiac surgery.
- Tetralogy of Fallot with TAPVC.
- Changing outcome with adjustable pulmonary artery band.
- Cost reduction in patients undergoing pediatric cardiac surgery in developing countries.
- A new, simplified technique of unidirectional, valved patch.
- Tubercular pseudoaneurysm of aorta.

Ongoing Projects
- A prospective safety & feasibility clinical evaluation of the Marrow miner for bone marrow harvesting.
- STICH Trial study
- Study of Human Mesenchymal Stem Cells with respect to its isolation, Characterization and in vitro differentiation to cardiomyogenic and neuronal cell lineage”
- Study of Epidermal Stem Cells (EpisC) with respect to its isolation, Characterization and in vitro differentiation
• Bone Tissue Engineering by growing and differentiating Meschymal Stem Cells on Biocomposite scaffold
• Freedom Trial – An NIH study
• Use of autologus bone marrow stem cells in regeneration of damaged myocardium in patients undergoing CABG
• A single prophylactic dose of pentoxyphylline in patients undergoing mitral valve surgery. A prospective double blind randomized controlled study.
• To study the effort of continuous pulmonary perfusion and low tidal volume ventilation on lung function in the adult patients undergoing open heart surgery.
• Surgery in infective endocarditis indications, results, and risk factors.
• Long term clinical and echo cardiac follow up of patients with histologically degenerative changes in ascending aorta and pulmonary trunk.
• Early results of aortic valve replacement with autologous gluteraldehyde treated pericardial stentless valve.
• Inhaled nitroglycerin versus inhaled milrinone in congenital heart disease children suffering from pulmonary arterial hypertension.
• 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.
• Efficacy of lactate concentration gradient from right atrium to pulmonary artery in goal-directed haemodynamic management in cardiac surgical patients.
• Long-term outcome of patients undergoing the Glenn shunt with preservation of antegrade flow.
• Effect of Cardiopulmonary bypass on the thyroid hormone profile.
• Randomized trial on use of Allopurinol in valvular heart surgery.
• Follow up of use of bioprosthesis in patients below fourth decade of life.
• Effect of antegrade pulmonary perfusion on lung function in patients undergoing Valvular heart surgery.
• Pulmonary artery morphology and long-term clinical outcome in patients with bicuspid aortic valve.
• On pump Vs off pump CABG. Long-term outcome.
• CABG vs multivessel PTCA: Long-term outcome.
• Role of steroids in patients with tubercular pericarditis.
• Follow-up results of different RVOT reconstruction techniques in pulmonary atresia.
• Blood conservation in open heart surgery: A retrospective study
• Results and follow-up of Hemitruncus repair.
• Pulmonary Artery size in supracardiac TAPVC and its effect on early mortality.
• Histopathology of pulmonary arteries in-patient of TOF undergoing BT shunt and correlation with growth potential of Pulmonary arteries – A Prospective study.
• Comparison of BT shunt using PTFE graft and homograft saphenous vein – A Randomized controlled trials.
• Histopathology of pulmonary arteries in patients of TOF undergoing total correction.
• Role of Nicorandil to prevent radial artery vasospasms in-patient undergoing CABG using radial artery.
• Autonomic functional assessment using heart Rate variability in patients undergoing single ventricle repair
• Role of sildenafil in patients undergoing mitral valve replacement with severe PAH by haemodynamics and echocardiographic assessment.
• Role of IABP in selected group of patients of CAD with EF <30% by haemodynamics and cardiac enzyme analysis.
• Histomorphometry of pulmonary arteries in lung biopsy specimens of patient undergoing BD Glenn and Fontan
• Mid term and long term results of homograft vein in CABG
• Results of ASO in AIIMS
• The randomized trial comparing the use of Carpentier’s ring vs posterior segment annuloplasty using a C-shaped ring of Teflon felt for mitral valve repair.
• Effect of cardiopulmonary bypass on autonomic tone using heart rate variability.
• Effect of CPB on serum thyroid hormone profile in patient weight < 10Kgs.
• Evaluation of the effect of allopurinol in decreasing myocardial damage in patients undergoing surgery for valvular heart disease under CPB.
• Surgery for infective endocarditis- indications, results and risk factors
• Role of low molecular heparin in prevention of early prosthetic valve thrombosis
• Effect of pentoxyphyllin on systemic inflammatory response in valve surgery – A randomized controlled study
• Effect of lung perfusion and low tidal volume ventilation in patients undergoing open heart surgery
• Comparative study of Histopathological changes in Ascending aorta and the risk factors related to histopathological conditions and aortic dilatation in patients with TOF and functionally univentricular heart.
• Significance of intra-op and immediate post op myocardial markers in determining the early outcome of patients undergoing surgery under cardiopulmonary bypass.
• Comparison of 3 different duration of prophylactic antibiotic in adult cardiac surgery: A Randomized prospective study.
• Comparison of Graham Nunn’s, single patch Vs double patch repair in complete AVSD repair: A retrospective study.
• Idiopathic tricuspid regurgitation in pediatric & adult patient. A Retrospective analysis.
• Autologous pericardial valve conduits from Bovine pericardium in RVOT reconstruction: A prospective study.
• Long term clinical and echocardiographical follow-up study of patients with histopathologically degenerative changes in ascending in ascending aorta.
• Study of prospective role of remote ischaemic preconditioning in adults undergoing CABG in term of post-op Troponin- T level
• MVR with and without chordal preservation in rheumatic population. Evaluation of regional wall motion abnormality by dynamic radionuclide study and MRI
• Mitral valve replacement using Bioprosthetic valve in patients with RHD below 40 years.
• Evaluation of early thromboembolism and valve thrombosis in patients with RHD undergoing MVR using Bioprosthetic valve in presence of atrial fibrillation with or without LA/LAA clot.

PUBLICATIONS


Books

PATIENT CARE
Total operations performed in 2007-2008
Open Heart Surgery - 2470
Close Heart Surgery - 0850
Total Operation - 3320

31,869 patients attended the Cardiothoracic and Vascular Surgery out patient department.

AWARDS AND HONOURS
Prof. Balram Airan enrolled as member of The Asian Society of Cardiovascular & thoracic surgery; enrolled as Founding member of World Society of Congenital & Pediatric Cardiac Surgeons; elected Vice President (North) for Heart failure Society of India; Member of the Inspection team for accreditation of Heart Transplant Programme at Sir Ganga Ram Hospital, New Delhi.

Member Editorial Board of Annals of Pediatric Cardiology, the official publication of Pediatric Cardiac Society of India.

Member Task Force for evaluation of timing of operation in congenital cardiac diseases in India.

Dr. S.K. Choudhary awarded best paper award to the paper entitled “A new technique of Unidirectional valved patch for closure of septal defects in patients with severe pulmonary hypertension” at the 9th Annual Conference of the Pediatric Cardiac Society of India at Kolkatta between 23rd to 25th November 2007; Associate editor of Ännals of Pediatric Cardiology” the official
publication of the Pediatric Cardiac Society of India; Member of the task force for evolving guidelines for timing of interventions for congenital heart disease.

**Dr. Sachin Talwar** awarded the prestigious Evart’s A Memorial Graham fellowship” by the American Association of Thoracic Surgery for the year 2008-09; awarded Young Investigator award for the paper entitled “A new technique of unidirectional valved patch for closure of septal defects in patients with severe pulmonary hypertension” at the 9th Annual Conference of the Pediatric Cardiac Society of India at Kolkatta between 23rd to 25th November 2007; Associate Editor of Annals of Pediatric Cardiology” the official publication of the Pediatric Cardiac Society of India; Founding member of the World Society for Pediatric & Congenital Heart Surgery, at the inaugural conference at Washington DC, US, May 3-4, 2007.

**Dr. Milind Hote** visited Innsbruck University Medical Hospital at Innusbruck Austria from 16th June to 10th July 2007 to undergo training in Robotic Cardiac Surgery under Prof. Johannes Bonnati.

**Dr. V. Devagourou** awarded one month observership in Aortic Aneurysm in Cleveland Clinic, Ohio between 1st October 2007 to 30th October 2007.

**Ms. Ritu Airan** Perfusionist in the Department of CTVS presented a paper on “Relationship between internal jugular venous oxygen saturation and pump flow rates in children and adults undergoing corrective cardiac surgery under cardiopulmonary bypass”. at the 8th Association of Indian Society of Extracorporeal Technology Conference and was awarded best paper for original research.

**VISITING SCIENTISTS**

Dr. Carl C. Backer, Professor Pediatric Cardiac Surgery Chicago Children Hospital, Chicago, USA.

Dr. Johannes Bonatti, Associate Professor, Dept. of Cardiac Surgery, Innusbruck University, Medical Hospital, Innusbruck, Austria.

Dr. Nikolaos Bonaros, Clinical fellow, Dept. of Cardiac Surgery, Innusbruck University Medical Hospital, Innusbruck, Austria.
EDUCATION

Conferences Organized
1. National consensus meeting on management of common congenital heart diseases in India on 26th August 2007
2. Workshop on live 3 D echocardiography in congenital heart diseases on 16th March 2008

RESEARCH

Funded Projects

Ongoing
1. Clinical validation of a of indigenously developed low cost telemedicine equipment (Remedi-kit) at a tertiary care hospital. Dr V K Bahl; Funding source: Neurosynaptics communications, Bangalore
2. Stem Cell Therapy in Heart Failure. Dr V K Bahl; Funding source – DBT
3. Intravascular Ultrasound for severe pulmonary artery hypertension in congenital heart diseases. Dr R Juneja; Funding source: Department of science and technology
4. Preliminary evaluation of the current 3-weekly penicillin prophylaxis. Dr R Juneja: Funding source - Faculty Research Grant (AIIMS).
5. Non-invasive detection of sub-clinical disease activity in patients with established rheumatic valvular heart disease. Dr G Karthikeyan; Funding source – DBT (06-08): Total Funds – Rs 22,00,000.
6. Role of SPECT in chest pain patients in casualty. Dr G Karthikeyan; Sponsored by IAEC
7. UKIERI project on heart failure changes in cytokines in untreated heart failure and before and after PTMC. Dr Sandeep Seth & Poole Wilson from UK.
8. Role of MRI for diagnosis of activity in NSAA. Dr Sandeep Seth; Funding source - Institute research grants (AIIMS)
9. Comparision of apical and RVOT Pacing by tissue Doppler imaging. Dr Gautam Sharma; Funding source - Institute research grants (AIIMS)
10. Role of MUGA vs ECHO in adriamycin toxicity diagnosis in children with acute leukemia with Dept of Pediatrics. Funding source - Institute research grants (AIIMS)
11. Evaluation of NT-pro-BNP levels in the differentiation of constrictive pericarditis from restrictive cardiomyopathy. Dr S Ramakrishnan; Funding source - Faculty research grant (AIIMS)

Departmental Projects

Completed
1. Positron Emission Tomography (PET) – CT in acute rheumatic fever
2. Assessment of Brain Natriuretic peptide (BNP) and inflammatory markers in patients with Eisenmenger Syndrome and its correlation with functional status and hemodynamic parameters
3. The hemodynamic effect of sildenafil on hemodynamics in dilated cardiomyopathy.

Ongoing
1. Study of labelled stem cells in heart failure
2. Positron Emission Tomography (PET) – CT in chronic constrictive pericarditis
3. Tissue Doppler evaluation of Transposition of Great Arteries
4. Tissue Doppler and 3D Echo Evaluation in Normal Neonates
5. Safety and Efficacy of Beta Blockers in Eisenmenger Syndrome
6. Assessment of Diastolic Function, Inflammatory markers and Myocardial Fibrosis in Patients with Acute Hypertensive Heart Failure’
7. VSD PHF – Propanalol for Heart failure in ventricular septal defect
8. Acute hemodynamic effects of tobacco chewing
9. Development of a rat heart failure model and assessing the role of various antioxidants and cytokine blockers in heart failure in rat models

Collaborative Projects
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. Our center is one of the chosen centers.
2. National coordinator – Evaluation of Ivabradine in patients with chronic stable angina – Funded by Institute de Recherches Internationales Servier, France
3. BIPPS Study (Bivalirudin Monotherapy in patients with STEMI undergoing a Primary PCI strategy) – Funded by Sun Pharma
4. FREEDOM trial: Future REvascularization Evaluation in patients with Diabetes mellitus: Optimal management of Multivessel disease (FREEDOM) Trial. Clinical trial comparing multivessel DES versus CABG in diabetics, funded by the NIH, Bethesda, MD, USA National Co-ordinator (India)
5. Stanford India Biodesign – a collaborative effort between Stanford, Department of Science and Technology and IIT with Department of Cardiology, AIIMS.
6. Multi-Sensor Monitoring in Congestive Heart Failure Study (MUSIC)
7. TOPSS trial funded by EuroCOR
8. INDICOR Trial funded by B Braun
10. Surgical Treatment of Ischemic Heart Failure (STICH) trial. NIH funded study of revascularization in heart failure.
11. Cardiovascular Product Evaluation platform – funded by DBT, Government of India
12. The Hyperglycemia and its Effect after Acute Myocardial Infarction on Cardiovascular Outcomes in Patients with Type 2 Diabetes (HEART2D study) (Principal Investigator - Prof Nikhil Tandon, Endocrinology)
13. ASSIST Study – a multicentric study of Streptococcal diseases including rheumatic fever

PUBLICATIONS

Chapters in Books

PATIENT CARE
Total numbers
New OPD cases 26,771
Old Cases 75,159

Patient Services
• TMT 2407
• Holter 1696
• Echocardiography 24,169
• Fetal Echocardiography 298
• TEE 30
• ECG OPD 23, 125

Cath Lab Services
Diagnostic 5119
Interventions
• Coronary interventions 753
• Mitral Valve Dilatations 383
• Device Closures 41
• Other Interventions 402

AWARDS AND HONOURS
1. Bahl VK. President elect and Chairman Scientific Committee of Cardiological Society of India
2. Saxena A. Magnanimous Award given by IMA Academy of Medical Specialties, New Delhi Branch on 23rd September 2007; Visiting Professor at the University of Manitoba, Canada

Cardiac Anaesthesia

<table>
<thead>
<tr>
<th>Professor and Head</th>
<th>Usha Kiran</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor</td>
<td>Sandeep Chauhan</td>
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</tbody>
</table>
| Associate Professors       | Neeti Makhija  
                          | Poonam Malhotra  
                          | Minati Choudhary |
| Assistant Professors       | Shambhu Nath Das  
                          | Parag Gharde  
                          | Vishwas Malik |

EDUCATION

DM Cardiac Anaesthesia
Four new candidates were selected for postdoctoral training including one sponsored. Three DM candidates passed the examination successfully in July 2007 and two in December 2007. At present eight are pursuing DM Cardiac Anaesthesia course with ICU training as well. Two of the DM students are sponsored candidates.

P.G. Training
6 postgraduate students from the department of Anaesthesia, AIIMS were posted for a period of 2 months each for training in cardiac anaesthesia. Three postgraduate students from Lady Hardinge Medical College completed superspeciality training in cardiac anaesthesia for a period of 15 days each.

Short Term Superspeciality Training
Five faculty members from various medical colleges underwent short term training in cardiac anaesthesia.

M.Sc. Perfusion Technology
Classes coordinated by faculty of the department.

CME

Seminar/Workshop Organized by the Department
‘Haemodynamic Monitoring’- a workshop in September 2007 at AIIMS.
“Practical Implications on haemodynamic monitoring” – a workshop held at AIIMS on 2nd September 2007.
Organized a quiz for postgraduates in capacity as Quiz Master & Director. This was the first IACTA quiz at the National level in IACTA Conference 2008 at Ahmedabad.

NATIONAL AND INTERNATIONAL CONFERENCES

Lectures delivered

**Dr. Usha Kiran**
1. ‘Role of Spiritual Empowerment for Parkinson Disease Patients and their Family’ on World Parkinson’s Day at JLN Auditorium, AIIMS, 1st April, 2007.
2. 'Complications of Mechanical Ventilation during workshop on ’Mechanical Ventilation’ at National Heart Institute, New Delhi on 19th August, 2007
3. ‘Three Dimension Care of Heart’ organized by Heart Care Foundation on 30th September, 2007.
7. ‘Congenital Heart Disease’ for Post Graduate Assembly at LHMC, New Delhi on 2nd November, 2007.
8. ‘Complete Health’ CME organized at School Health Institute of Municipal Corporation of Delhi by giving a talk on 20th October, 2007.

**Dr. Sandeep Chauhan**
3. Pediatric Cardiac Anaesthesia talk as chairperson at 11th IACTA conference at Ahmedabad 14-17 Feb., 2008.

**Dr. Neeti Makhija**


3. “Central Venous Pressure Monitoring and Pulmonary Artery Catheterization” in a workshop on “Practical Implications of Haemodynamic Monitoring” organized by the department of Cardiac Anaesthesia, All India Institute of Medical Sciences, New Delhi.


Dr. Poonam Malhotra: Guest Lectures/Chairing/Organising Secretary


2. PRO-CON Session Lecture – “It is better to ventilate a cardiac patient after major surgery – CON and CME at Bangalore – 2nd June 2007.


8. Pro-Con Session Lecture – Colloids are not the first choice of fluid therapy in cardiac surgical patients – Con. In Update in Cardiac Anaesthesia, Chennai, 1-2nd December 2007.


Dr. Minati
3. Rheumatoid arthritis and Anaesthesia Management in Annual Conference of Indian Society of Anaesthesia Delhi branch April,2007

Dr. Shambhu
1. “Preoperative Blood Sugar Status in Cardiac Surgical Patients” in International conference of Asian Society of Cardiac Anaesthetists October, 2007
2. “Heparin Unresponsiveness by Retro-Peritonial Hematoma” in Annual Conference of Indian Association of Cardiac Anaesthetists February, 2008
3. Transesophageal Echocardiography as a hemodynamic tool during workshop on Haemodynamic Monitoring September 2007, AIIMS.

Dr. Parag
1. ‘Invasive Monitoring’ in CME on Haemodynamic Monitoring, September 2007, AIIMS.

Dr. Vishwas
2. Interesting Echo Clipping of Paediatric Congenital heart discussed at echocardiography workshop conducted at PGIMER, Chandigarh.
3. Information from Arterial Pressure Trace during Workshop on Haemodynamic Monitoring, September 2007, AIIMS

RESEARCH

Funded Research
1. 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” of Institute Research Grant (2007-2008); Dr. Neeti Makhija. Three years (2006-2009); Funds: Rs 2 lakhs.
2. AIIMS Funded Research Project 2005-2007, Completed on 31st March 2007 entitled “Auditing of Early Goal Directed Therapy”; Dr. Poonam Malhotra Kapoor; 2 years (2005-07); Fund: Rs 2.11 lakhs
3. Myocardial preconditioning against infarction in patients undergoing coronary artery bypass surgery: A comparison of isoflurane and sevoflurane. Dr. Poonam Malhotra Kapoor, ICMR, 2 years (2006-08) – Ongoing, Funds Rs 8.00 lakhs
4. Effect of Rajyoga meditation on patients undergoing coronary artery bypass grafting: A clinicobiochemical correlation. Dr. A. Gupta, AIIMS – Research Grant, Funds Rs 2.5 lakhs

5. Imbalance between Endothelin-I and plasma nitric oxide products influences the clinical outcome in children suffering from severe pulmonary hypertension undergoing open heart surgery. Dr. Minati Choudhury, AIIMS Research Grant, Funds Rs 3 lakhs

**Department Projects**
1. Effect of fentanyl and sufentanil in off-pump coronary artery surgery.
2. Effect of caudal epidural sufentanil and bupivacaine combination on stress response in paediatric cardiac surgical patients.
3. Effect of caudal epidural sufentanil and bupivacaine combination on glycaemic response in paediatric cardiac surgical patients.
4. Nosocomial infection in intensive care unit in paediatric cardiac surgical patients.
6. Rectal diclofenac suppository in postoperative pain relief in adult cardiac surgical patients.
7. Comparison of sevoflurane and isoflurane for myocardial preconditioning in CABG patients.
8. Role of Lactate, Pyruvate and Lactate-Pyruvate Ratio as Prognostic markers in Cardiac Surgery.
9. The role of Transthoracic Echocardiography as a real time hemodynamic monitoring tool during induction of anesthesia in patients undergoing coronary artery bypass grafting surgery.
10. Inhaled nitroglycerin versus inhaled milrinone in congenital heart disease children suffering from pulmonary arterial hypertension.

**Collaborative Research**
2. Effect of fentanyl and sufentanil in off-pump coronary artery surgery – CTVS.
4. Effect of caudal epidural sufentanil and bupivacaine combination on glycaemic response in paediatric cardiac surgical patients – CTVS.
5. Nosocomial infection in intensive care unit in paediatric cardiac surgical patients – CTVS and Microbiology.
7. Efficacy of Early Goal Directed Therapy in moderate to high risk cardiac surgical patients. This has been presented at National Conference IACTA, 2007 – Completed.
9. Role of phenoxybenzamine in radial artery harvesting during CABG – with CTVS.
10. Short and Long term outcomes of Myocardial Lactate, Pyruvate and Lactate-Pyruvate ratio in adult cardiac surgery – with CTVS.
PUBLICATIONS


COMMUNITY TALKS AND SERVICES

Dr Usha Kiran


3. Complete health and role of Rajyoga at Delhi University Community Centre on 24th February, 2008.
4. ‘Self Confidence’ through self realization at Sector 3, Rohini on 19th March, 2008.
5. Coordinated a panel discussion on ‘Role of Women in World transformation’ on 28th June, 2007.
9. Panel discussion on Role of Meditation for sleep disturbance on 14th April, 2007.
11. ‘Stress management’ at Student Training College, University of Cape Town, South Africa, March 2008.

**Dr. Poonam**

1. Provides charitable services at clinic and school at Ram Memorial Clinic, Delhi and Noida (Sector -55, Shiv Shakti Mandir) every Sunday.

**AWARDS AND HONOURS**

1. Dr. Usha Kiran received Rashtriya Gaurav Award
2. Dr. Neeti Makhija received best paper award in 46th Annual Conference (Delhi Chapter) Indian Society of Anaesthesiologist held on 7th-8th April 2007 for presenting paper entitled “Pseudoaneurysm of Ascending Aorta following coronary Artery Bypass Graft Surgery : An Anaesthetic Challenge
3. Dr. Minati Choudhry received best paper award for the paper in Asian Society of Cardiovascular Anaesthesiologist for the work on “The relationship between plasma Endothelial and nitric oxide products on the clinical outcome of cyanotic congenital heart disease children suffering from severe pulmonary hypertension.
4. Dr. Thiruhandom S. Received Janak Mehta Award for the best paper co-authored by Dr. Usha Kiran, Dr. S.N.Das & titled “Single dose intraventricle Amiodarone for converting atrial fibrillation into sinus rhythm during mitral valve surgery” at Annual Conference of Indian Society of Cardiac Anaesthesia at Ahmedabad.
5. Dr. Poonam Malhotra – coauthor on paper entitled “Cerebral Oxygen saturation related to pump flow rates during cardiopulmonary bypass, in patients undergoing cardiac surgery” received gold Medal for best paper award (Read by Ritu Airan) at Annual Indian Society of Extracorporeal Technology meeting, at Pune-Feb 2008.
7. Dr. Bikash Sahu won 1st prize and Dr. Thiru Venkendam S the 3rd prize for the quiz organized the 1st Annual National IACTA TEE workshop held at Narayan Hridyalaya, Bangalore on 26th-28th March 2008.
SIGNIFICANT EVENTS
Dr. Usha Kiran continues to be the Vice President of ‘PRAN’; Honorary Co-editor of International Journal of Bio-Sciences; Reviewer for articles of Indian Journal of Anaesthesia.
Dr. Chauhan elected as Associate Vice President of IACTA
Dr. Poonam elected as treasurer of Indian Association of Cardiac Anaesthesiologists at their National Conference organized at Ahmedabad 2008 for a period of three years.
Dr. Minati Choudhary invited member in the review board of International Journal of Medical Monitors and Journal of Clinical Anaesthesia; Member in the Panel of Scientist in the World Scientific forum.
Member of Education Committee of IACTA for the working of fellowship of IACTA (FIACTA) guidelines and Academic work and FIACTA examination.
Member on Editorial Board – Annals of Cardiac Anaesthesia.

PATIENT CARE
• 7 operation theatres work from 8 am to 5 pm from Monday to Friday and till 2 pm on Saturday.
• CT Angiography of children in Multi Slice CT Scanner Room under monitored anaesthesia care/general anaesthesia/sedation in 64 slice multi scanner room.
• Pre anaesthesia round from 6.30 to 8.30 pm for all the patients planned for operation.
• General anaesthesia/LA/MAC for children undergoing ASD/VSD/PSD closure.
• GA/LA monitored anaesthesia care for adult Automated cardiovertor device implantation (AICD) and dual chamber pace maker implantation.
• Aortic Stent placement in cath lab, for patient of Aortic aneurysm under general anaesthesia.
• In MRI angio room under general anaesthesia and/or monitored anaesthesia care. All MRI compatible equipment is kept inside.
• Stress management program for patients and their family Medical education in CT5 Ward Meditation Room on Saturday.
• Emergency Services by the residents and faculty for emergency surgery.
• Resuscitative and ventilatory management in CCU, CTVS, ICU A and ICU B and CT 5 recovery room.
PATIENT CARE

Blood Units Collected

<table>
<thead>
<tr>
<th>Source</th>
<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Replacement donors</td>
<td>17258</td>
</tr>
<tr>
<td>Voluntary donors in the department</td>
<td>124</td>
</tr>
<tr>
<td>Voluntary donors through blood mobiles</td>
<td>810</td>
</tr>
<tr>
<td>Blood received from IRCS</td>
<td>79</td>
</tr>
<tr>
<td>Blood received from Blood Bank, AIIMS</td>
<td>121</td>
</tr>
<tr>
<td>Blood received from other hospitals</td>
<td>426</td>
</tr>
</tbody>
</table>

Total no. of blood units collected 18818

Blood Units Issued

<table>
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<tr>
<th>Source</th>
<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blood Units issued to CTVS/NS</td>
<td>21773</td>
</tr>
<tr>
<td>Blood Units issued Blood Bank, AIIMS</td>
<td>1447</td>
</tr>
<tr>
<td>Blood Units issued to Trauma Centre</td>
<td>2184</td>
</tr>
<tr>
<td>Blood Units issued to IRCS</td>
<td>8</td>
</tr>
<tr>
<td>Blood Units issued to other hospitals</td>
<td>780</td>
</tr>
<tr>
<td>Discarded units HIV/HB2Ag/HCV/VDRL</td>
<td>643</td>
</tr>
</tbody>
</table>

Total no. of blood units issued 26835

Lab. Procedures

Total no. of blood grouping (ABO) : 75702
Number of Rh grouping : 56854
Total no. of cross matching done : 78278

Infection Markers

HIV Testing : 22977
HBV Testing : 23283
HCV Testing : 23557
VDRL Testing : 20841
CMV Testing : 16
HBV confirmatory Testing : 616

Total : 91290

GRAND TOTAL : 245270

Total No. of Blood Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fresh frozen plasma (FFP)</td>
<td>15522</td>
</tr>
<tr>
<td>Platelet rich plasma (PRP)</td>
<td>428</td>
</tr>
<tr>
<td>Platelet concentrate</td>
<td>14132</td>
</tr>
<tr>
<td>Recovered plasma</td>
<td>1368</td>
</tr>
<tr>
<td>Cryoprecipitate</td>
<td>533</td>
</tr>
<tr>
<td>Packed red blood cells</td>
<td>15991</td>
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</table>

Total : 47974

Special Procedures

- Single donor plateleppheresis : 30

SIGNIFICANT EVENTS

I BTS CNC helped to set up JPNATC Blood Storage Centre by
   i) imparting practical as well as theoretical training for technicians and staff nurses of JPNATC from April 2007 to March 2008.
   ii) Designing the premises of the department
   iii) Selection of equipments for the department.
   iv) Supervising the working of the newly set up blood storage centre.
   v) helped in obtaining licence for the storage centre and later for the full fledged blood bank JPNATC

II Imparted training to technician recruited in ORBO, AIIMS from July, 2007 till date.

Dr. Rama Bhasin was nominated as expert to review standards for accreditation of Blood Banks by NABH (National Accreditation and Board of hospitals); Member of State Blood Transfusion Council for past five years; Resource person during National training programme on blood safety by NACO (National Aids Control Organisation); Member of Doctoral Committee for two PhD students in Department of Biochemistry, AIIMS.

Dr. Anjali Hazarika got elected and continued as Secretary ISBTD, Delhi; organised a day long motivational programme for voluntary blood donors as part of the global celebration of World blood donor’s day on 14th June, 2007 at JL Auditorium, AIIMS; Workshop for donor motivators of Delhi on 8th September, 2007 at Ramalingswamy Board Room, AIIMS; Half day symposium on Safe blood at India Habitat Centre on occasion of National voluntary blood donation day on 1st October, 2007; completed her diploma in hospital administration from Medvarsity Apollo Hospital.

III Following staff attended National training programme on Blood Safety by NACO
   i) Mr. William Massey : Technician
   ii) Mr. Upender Singh : Technician
   iii) Mrs. Louly Jacob : Staff Nurse
EDUCATION

Continuing Medical Education, Conferences and Workshops

Lectures Delivered

Dr. Sanjiv Sharma
1. Guest faculty in the Workshop on Clinical & Biomedical MRI on August 1st to 5th, 2007 in SCTIMST, Trivandum and delivered talks on following topics:
   i) Image strategies and algorithm for assessment of peripheral vascular disease
   ii) Current status of CT and MRI in Congenital heart disease
   iii) Imaging assessment of cardiomyopathies
2. Faculty member of Dr. Harnam Singh Mid Term CME of ICRI being organized by UP State Branch of IRIA on 4th & 5th August, 2007 and delivered talks on
   i) Clinical & Catheter Angiography
   ii) Reporting Standards of Peri.Doppler
   iii) MR of Congenital Heart Diseases
4. Annual Conference of Indian Radiological & Imaging Association in Bangalore from January 16-20, 2008
6. “CT Angiography, Current applications” on November 17-18,2007 at Meerut, hosted by IMA Meerut
8. ‘MRI of Congenital Heart diseases’ in Magnetic Resonance Imaging-2008 organised by Sultan Qaboos University and Hospital Muscat, Oman on February 20-22, 2008 and Visiting Professor to the department of Radiology in this university from February 23-25, 2008.

Dr. Gurpreet Gulati
2. Color Doppler evaluation of Renal Vessels. Dr Harnam Singh Mid-term CME of the Indian College of Radiology and Imaging, 4-5 August 2007 at Agra.
3. Dual Source CT in Clinical Use. 3rd Cardiac CT and MRI Review Course, Organized by the Radiology Education Foundation, 17-19th August 2007 at Worli, Mumbai.
6. Cardiac MRI for Cardiac Tumors. 3rd Cardiac CT and MRI Review Course, Organized by the Radiology Education Foundation, 17-19th August 2007 at Worli, Mumbai.
8. Cardiac MRI. CME organized by the Kashmir Branch of the Indian Radiological Imaging Association, 1-3 September 2007 at Srinagar.

Dr. Priya Jagia
2. Asia Pacific Radiology Technologists meeting held at All India Institute of Medical sciences, Delhi in 1st December 2007.
3. Annual Radiology CME held by Indian Association of Radiology at Safdurjung hospital, Delhi in Feb 2008.
4. Annual Radiology CME held by Haryana branch of Indian Association of Radiology at Rohtak Medical college, Rohtak in 30th March, 2008.

RESEARCH
Funded Projects
Ongoing
1. Induction Of therapeutic angiogenesis In Critical Limb Ischemia by intra-arterial delivery of autologous bone-marrow derived stem cells - with financial grant by the Department of Biotechnology, Ministry of Science and Technology, Government of India.
2. Feasibility, safety and efficacy of cell-based therapy for the treatment of diabetes mellitus by local intra-arterial delivery of autologous bone marrow-derived adult stem cells in the pancreas with financial grant by the Department of Biotechnology, Ministry of Science and Technology, Government of India.
3. MRI for in vivo-tracking of iron oxide labeled mesenchymal stem cells in a rat model of heart failure. Under financial grant by the Department of Biotechnology, Ministry of Science and Technology, Govt of India.
Departmental Projects

Ongoing
1. “Utility of cardiac MRI in RV function evaluation in Indian Population”.
2. “Correlation of Clinical Disease Activity with Imaging Modalities in Takayasu Arteritis”.

Completed
1. Quantification of volume of pulmonary regurgitation with flow velocity-mapping technique on vec-MRI in patients following total correction for tetralogy of Fallot (TOF)
2. Hepatic venous outflow tract obstruction: magnitude, etiology, clinical presentation and results of angioplasty in North India.

PUBLICATIONS

Journals

Abstracts


Chapter in Books

AWARDS AND HONOURS

**Prof Sanjiv Sharma** is an Expert for assisting the Commission in the conduct of interview of candidates for the post of Lecturer Radio Diagnosis in Health & Medical Education at J&K PSC Polo Ground, Srinagar on 23rd July, 2007; External Expert in the technical evaluation committee for purchase of Multi Detector CT Scanner on 13th October, 2007 at Hyderabad; Expert Member on Selection Committee meeting on 6th November, 2007 for Senior Resident in Radiology in UCMS, GTB Hospital, Delhi; External Examiner for MD (Radiodiagnosis) practical examination on 5th & 6th December, 2007 in PGI, Chandigarh; Appointed member of technical scrutiny committee for the purchase of 64 slice CT scan machine for IGMC, Shimla and the meeting on 16th February, 2008 at Shimla.

**Dr Gurpreet Singh Gulati** was awarded the Dr Ashok Mukherjee Memorial Award and Gold Medal for 2007 of the Indian Radiological and Imaging Association for the best research paper “Cardiac MRI for evaluation of ventricular function in patients of non-ischemic dilated cardiomyopathy undergoing stem cell therapy”. Presented at the 61st Annual Conference of the IRIA, 17-20th January 2008, at Bangalore, India; Advanced Cardiac Life Support (ACLS) Provider and Healthcare Provider (Basic Life Support) certified by the American Heart Association (2007-2009); Member – Editorial Board for Cardiovascular Imaging Section of Indian Journal of Radiology and Imaging; Guest Editor for a symposium on “Cardiac MRI” for the May 2007 issue of the Indian Journal of Radiology and Imaging; Selected as member of the Working Group on Cardiovascular Magnetic Resonance of the European Society of Cardiology; Name included in the Marquis Who’s Who Collection (24th Edition) for the year 2007; Reviewer for Heart, Indian Heart Journal, Indian Journal of Thoracic and Cardiovascular Surgery and the Indian Journal of Radiology and Imaging; Member, European Society of Cardiology (2007); Life Membership to the Indian College of Radiology and Imaging 2007. (membership no. R3/G10-A); Annual membership of Society of Cardiovascular Magnetic Resonance 2007-2008.
Dr Priya Jagia was included in the Marquis Who’s Who Collection (24th Edition) for the year 2007; Reviewer for the Indian Journal of Radiology and Imaging.

PATIENT CARE

Total Number of cine-angiography done for the period from 1.4.2007 to 31.3.2008:
Cine Fluoroscopy : 8640
Vascular catheter procedures : 7338
Ultrasound : 2146
CT : 1113
MRI : 328
OPD Data: Routine X-ray for CTVS and Cardiology : 66281

<table>
<thead>
<tr>
<th>Cardiac Nuclear Medicine</th>
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<tbody>
<tr>
<td>Assistant Professor</td>
</tr>
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<td>Chetan D. Patel</td>
</tr>
</tbody>
</table>

EDUCATION
No. of Postgraduate students: 3 (training of post graduates on rotational basis in Nuclear Cardiology)
No. of Thesis/research papers completed: 1
No. of lectures for postgraduate students: 10
Moderator in Journal Club/Seminars: 10
No. of lectures for undergraduate/paramedical: 0
No. of new thesis started: 2

RESEARCH

Funded Project:
Role of radionuclide techniques in diagnosis of early dementia. (ONGOING Duration 4 years International Atomic Energy Agency (Funds: Euro 1700 for 2007–8)

Collaborative projects

Ongoing
1. Role of F-18 FDG in acute Rheumatic heart disease. (Nuclear Medicine & Cardiology)
2. Correlation between cardiovascular autonomic function and indicators of myocardial ischemia in patients presenting anginal symptoms. (Physiology, Nuclear Medicine & Cardiology).
3. F-18 FDG in detecting ischemia at rest in patients with known coronary artery disease. (Nuclear Medicine & Cardiology)
4. Prevalence of symptomatic and asymptomatic coronary artery disease in stroke patients. (Neurology, Cardiology & Nuclear Medicine)
5. Role of F-18 FDG PET in cardiomyopathies, (Cardiology & Nuclear Medicine).
6. Correlation between cardiovascular autonomic function and indicators of Myocardial ischemia in patients presenting anginal symptoms. (Physiology)
7. Role of PET-CT in initial staging and post therapy assessment in patients of carcinoma ovary. (Nuclear Medicine)

8. Role of F-18 FDG PET in cardiomyopathies. (Cardiology & Nuclear Medicine).

**Completed**

1. Role of F-18 FDG in acute Rheumatic heart disease. Co-guide in DM research paper of Dr Nagesh (Cardiology & Nuclear Medicine)

**PUBLICATIONS**

**Journals**


**Abstracts**


PATIENT CARE
The department is equipped with a dual head SPECT Gamma camera catering to patients referred for cardiac studies from CN center and other departments of the hospital. Both Thallium and Tetrofosmin Gated SPECT myocardial perfusion studies are performed. The department also performs MUGA studies for assessment of left ventricular function in CAD patients referred from the center and from IRCH for cardiac evaluation in patients receiving chemotherapy.

Total Number of patients investigated in Nuclear Cardiology from 1/4/07 to 31/3/2008
Stress Thallium: 957
Stress Tetro/MIBI: 373
MUGA study: 1145
Misc: 30
Total number of studies performed: 2505

Stem Cell Facility

Assistant Professor
Sujata Mohanty

ACHIEVEMENTS
• At present, the Facility is collaborating with 10 departments of AIIMS and 3 institutions outside AIIMS viz IIT Delhi and National Institute of Immunology Delhi (NII) and Reliance Life Sciences Pvt Ltd.
• 3 students are enrolled in the PhD programme in the Stem Cell Facility. Apart from this, 6 PhD students from various departments of AIIMS are also doing research in Stem Cells.
• Under the ‘Short term Training’ programme of the AIIMS, 12 graduate and post-graduate students have been trained at the Facility in this field.
• At present 7 projects are ongoing at the Facility, which have been approved by various funding agencies such as DBT, ICMR, DST. Three more projects have been initiated in the current financial year.
• Clinical trials using autologous hematopoietic stem cells are ongoing to evaluate the safety & feasibility of stem cell in various disorders such as myocardial infarct, diabetes, muscular dystrophy, peripheral vascular disease, cardiomyopathies, retinitis pigmentosa, macular degeneration cerebral palsy. 132 patients have received Stem cell for various disorders in this current financial year 2007-08.
• Cryo-preservation of stem cells: Stem Cell Facility has also started in-house Cord Blood Banking for Cryo-preservation of cord blood stem cells.
• Limbal stem cell culture for corneal epithelial transplantation has been extended to 16 patients.
RESEARCH

Ongoing Projects
1. Induction of therapeutic angiogenesis in critical limb ischemia by intra-arterial delivery of autologous bone marrow derived stem cells
2. Intravenous autologous bone marrow stromal or mononuclear cells for patients with acute ischemic stroke: A multi-institutional project
3. Use of autologous bone marrow stem cells for myocardium regeneration
4. Culture of limbal stem cell for ocular surface reconstruction in stem cell deficiency disorder.
5. To study the role of bone marrow derived pluripotent cells in peripheral nerve repair in adult rats
6. Effect of bone marrow stromal cells transplantation and magnetic stimulation in the sensory motor functional recovery of spinalised rats
7. Intra-arterial Autologous bone marrow MNC infusion in patients with non progressive (static) encephalopathy with special reference to cerebral palsy

Fresh Projects
1. Isolation and expansion of Mesenchymal stem cells (MSC) from human bone marrow/umbilical cord and evaluation of its cardiomyogenic and neurogenic differentiation potential
2. Expression status of HLA molecules on undifferentiated and differentiated Mesenchymal stem cells: An in vitro study
3. Mobilization of stem cells using GCSF for acute ischemic stroke: A randomized trial
4. To evaluate the potential role of biopolymer to support the culture of corneal epithelial cells
5. Molecular characterization of fanconi anemia: a pilot study
6. Isolation, characterization and evaluation of differentiation potential of human hair follicle stem cells
7. Analysis of TGF-beta pathway component mutation and expression in glioma
8. Establishment of Center for Excellence in the field of stem cells

PUBLICATIONS
2. Application of Stem cells technology for coronary artery disease at the All India Institute of Medical Sciences, New Delhi, India. Heart Surg Forum 10 (2), 1-4, 2007
### 10.2 Centre for Behavioural Sciences (National Drug Dependence Treatment Centre)

**Professor and Chief**  
Rajat Ray

**Professor**  
Raka Jain  
Rakesh Lal

**Additional Professor**  
Meera Vaswani

**Associate Professor**  
Anju Dhawan

**Assistant Professor**  
N. Kaw  
Sonali Jhanjee  
Atul Ambekar

**Scientist**  
H.K. Sharma

**Clinical Psychologist Medical Social Service Officer**  
Anita Chopra  
Hem Sethi  
Brahm Prakash  
Deepak Yadav  
Ratnesh Kumar  
Seema Yadav

**Biochemist and supporting Laboratory personnel Finance and Accounts Officer**  
S.P. Mahla (Additional Charge)

**Assistant Administrative Officer**  
Roshan Lal (till February 2008)

**Assistant Store Officer**  
Kishan Chand

**Medical Record Officer**  
N. Bisht

**Pharmacist**  
Parveen Kumar  
Ruby Mishra

**Pharmacist**  
Mahinder Pal  
Suman Bhatia

**Secretarial Staff**  
Anita Gulati  
Meera Kaul
EDUCATION

Undergraduates
During their posting in the department of Psychiatry, they are posted for a day at the Centre.

Postgraduates
Residents doing MD (Psychiatry) are posted for 6 months during their entire course duration.

Combined teaching activity of the National Drug Dependence Treatment Centre (NDDTC) and the department of Psychiatry
Journal discussion: Weekly
Seminar: Weekly
Case Conference: Weekly
Faculty/Staff presentation: Weekly
Combined Clinical Round & Combined Grand Round: two in every semester

Specific teaching activity at NDDTC
Seminars: Weekly

Specific teaching activity of the department of Psychiatry
Psychotherapy supervision for M.D. (Psychiatry) and Ph.D. (Clinical Psychology) students
The department has introduced supervised Consultation-Liaison training for junior residents

Short and Long Term Training


Training of students of Social Work. NDDTC, AIIMS, New Delhi, 22-30 September.

In-house training for nurses in” Motivation Enhancement.” NDDTC, AIIMS, New Delhi, 11-12 October, 2007.

One-day training workshop for doctors from the National Institute of Health and Family Welfare. NDDTC, AIIMS, New Delhi, 2 November 2007.

Training of medical doctors from Central Reserve Police force (CRPF) on “Substance Use Disorder.” NDDTC, AIIMS, New Delhi, 12-17 November.


Training course for psychiatrists nominated by the Punjab Government. NDDTC, AIIMS, New Delhi, 3-8 December, 2007.

AIIMS 2007-2008 / 498
Continuing Medical Education

Conferences, Workshops, Seminars, Symposium organized by the Centre

Symposium on “Community Treatment for Substance Use Disorders” (on the occasion of the Annual Day of the NDDTC). NDDTC AIIMS, New Delhi, 12 April 2007.

Lectures delivered
Dr. R. Ray

• “Concept, Effectiveness & Need for Agonist Maintenance as a Treatment for Opiate Dependence.” Training programme on Oral Substitution – Buprenorphine. United Nations Office on Drugs and Crime (UNODC), Regional Office for South Asia (ROSA), New Delhi, 6 July 2007.


Dr. R. Ray, Dr. R Lal, Dr. A. Ambekar and Mr. H.K. Sharma acted as resource persons for the training courses organized for doctors in “Substance Abuse Management.” NDDTC, Mandsaur, 10-15 March 2008.

Dr. B.M. Tripathi acted as a resource person for various training programmes at NDDTC, AIIMS, New Delhi.

Dr. Anju Dhawan

• “Community Based Treatment - Trilokpuri Experience” (Dhawan A, Sethi H, Yadav D, Yadav S). Symposium on Community Treatment for Substance Use Disorders, NDDTC, AIIMS, New Delhi, 12 April 2007.


• “Oral Substitution Treatment.” National Steering Committee Meeting, Dacca (Bangladesh), 14th August 2007.


Dr. S. Jhanjee


National and International Conferences

National Workshops/Conferences/Symposium/Seminars/Training Courses

Dr. Anju Dhawan was a resource person for the conference on “Response Beyond Borders - The First Asian Consultation on the Prevention of HIV Related to Drug Use.” Response beyond Borders, Goa, 29 January 2008.

Dr. Atul Ambekar

• “Methodology for conducting Size Estimation using RDS Training Programme for NGOs” and “Size Estimation of Injecting Drug Use at Punjab and Haryana.” Society for Promotion of Youth and Masses (SPYM), Regional Resource & Training Centre (RRTC) - North Zone, MSJE, 6-8 April, 2007.


• “Diagnosis and Management of Amphetasmine Type Stimulants (ATS) Dependence.” Training Course on ATS and Related Issues, SPYM, RRTC - North Zone & MSJE, 27 February 2008.

• “Training of Medical Doctors on Substance Use and HIV.” Government of Madhya Pradesh, Bhopal, 9-12 March 2008.

Dr. Yatan Balhara

• “Relation of Opioid Use and the Use of Tobacco Products” (Balhara YP, Jhanjee S, Majumdar P). 60th Annual National Conference of Indian Psychiatric Society (ANCIPS), Kolkata, 3-6 January 2008.

AIIMS 2007-2008 / 500
• “Factors associated with Initiation, Maintenance and Decision to quit in Tobacco” (Balhara YPS, Jhanjee S, Verma R). 60th Annual National Conference of Indian Psychiatric Society (ANCIPS), Kolkata, 3-6 January 2008.

Ms. A. Chopra and Ms. S. Sethi were resource persons for a workshop on “Qualitative Research Methodology and its Application in Health Research.” Indian Council for Medical research (ICMR), Department of Anthropology, Delhi University, 26-29 February 2008.

International Conferences
Dr. Rajat Ray

• Resource person for the “Symposium on Reducing Harm due to Alcohol.” World Health organization, South East Asia Regional Office (WHO-SEARO), Bali (Indonesia), 4-6 December 2007.


Dr. Raka Jain


Dr. Rakesh Lal


Dr. Anju Dhawan


• “Scaling up of Oral Substitution with Buprenorphine in India” (Dhawan A, Chopra A). Workshop on Practical Responses and Approaches to Drug Addiction in Asia, Siem Reap (Cambodia), 13-15 September 2007.
Dr. Sonali Jhanjee


Dr. Atul Ambekar


Ms. Anita Chopra


RESEARCH

Funded Projects

**Ongoing**

1. Post Marketing Surveillance of Addnok-N (Combination of Buprenorphine and Naloxone) (Dr. Rajat Ray, Dr. Meera Vaswani). Funded by Rusan Pharma, Funds: Rs. 10 lakhs, 2007.

2. Workplace Intervention for Management of Alcohol Abuse (Dr. Rakesh Lal, Dr. Atul Ambekar, Mr. H. K. Sharma, Mr. Deepak Yadav, Ms. Hem Sethi). Funded by World health Organization (India), Funds: Rs. 5 lakhs; 2008-2009.


4. Oral Substitution Treatment with Buprenorphine (Dr. Anju Dhawan, Dr. Raka Jain, MS. Anita Chopra, Dr. Sonali Jhanjee). Funded by UNODC, ROSA, Funds: Rs. 13 lakhs; November 2006 – September 2008.

**Completed**

1. Size Estimation of Injection Drug Use at 300 Sites in India (Dr. B. M. Tripathi, Dr. Atul Ambekar). Funded by SPYM, RRTC- North Zone & MSJE.


**Departmental Projects**

**Ongoing**

1. Effect of Nitric Oxide Synthase Inhibitor 7-NI on Sensitization to the Operant Decrement Produced by Naloxone in Morphine Treated Rats (Dr. Raka Jain).

2. Evaluation of Illicit Drug Use in the Opioid Dependent Subjects Maintained on Sublingual Buprenorphine: Role of Urine Screening (Dr. Raka Jain, Dr. Y. P. S Balhara).

3. Molecular Genetics of Alcohol Dependence: Contribution of Polymorphisms in Dopaminergic and Serotonergic Pathway Genes (Dr. Meera Vaswani).

**Completed**

1. Validity of self-reported tobacco use among opioid dependent subjects (Dr. Raka Jain, Dr. Sonali Jhanjee, Dr. Y. P. S. Balhara, Ms. Hem Sethi).

2. Evaluation of Abuse of Prescription Drugs among Opioid Dependent Patients based on Urinalysis (Dr. Raka Jain, Ms. Hem Sethi).

3. Studying severity and treatment outcome of tobacco use among drug dependent patients in treatment setting (Dr. Sonali Jhanjee, Y. P. S. Balhara, Ms. Hem Sethi).

**Collaborative Projects**

**Ongoing**

1. Genetic basis of Alcohol induced Pancreatic Disorders. With Department of Gastroentrology. Funded by ICMR (Dr. Meera Vaswani).

**Publications**


**Books Chapters In Books Reports**


**PATIENT CARE**

**General Information**

1. Total No. of beds : 50
2. General Ward beds : 50
3. Private Ward beds : Nil
4. OPD Attendance
   - NDDTC, Ghaziabad : 36513
   - Trilopkuri Community : 32871
   - Sundar Nagri Mobile Clinic : 3309
5. Admission : 1134

**OPD & Specialty Clinics Attendance**

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<th>Old Cases</th>
<th>Total</th>
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<tbody>
<tr>
<td>General OPD</td>
<td>3366</td>
<td>33147</td>
<td>36513</td>
</tr>
<tr>
<td>Specialty Clinic</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tobacco Use Cessation Clinic</td>
<td>108</td>
<td>610</td>
<td>718</td>
</tr>
<tr>
<td>Adolescent Clinic</td>
<td>16</td>
<td>23</td>
<td>39</td>
</tr>
<tr>
<td>Dual Diagnosis Clinic</td>
<td>48</td>
<td>148</td>
<td>196</td>
</tr>
<tr>
<td>Total</td>
<td>3538</td>
<td>33928</td>
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</table>

**Trilokpuri Community Clinic**

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<tr>
<td></td>
<td>180</td>
<td>32691</td>
<td>32871</td>
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</table>

**Sundar Nagri Mobile Clinic**

<table>
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<th>Old Cases</th>
<th>Total</th>
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<tbody>
<tr>
<td></td>
<td>91</td>
<td>3218</td>
<td>3309</td>
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</table>

**Laboratory Investigations for Patient Care**

Total Number of Drugs of Abuse Screened in urine Samples : 19841

<table>
<thead>
<tr>
<th>Drugs</th>
<th>Numbers</th>
</tr>
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<tbody>
<tr>
<td>Morphine             : 2450</td>
<td></td>
</tr>
<tr>
<td>Codeine              : 2450</td>
<td></td>
</tr>
<tr>
<td>Buprenorphine        : 2450</td>
<td></td>
</tr>
<tr>
<td>Detropropoxyphene    : 2450</td>
<td></td>
</tr>
<tr>
<td>Pentazocine          : 62</td>
<td></td>
</tr>
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</table>

AIIMS 2007-2008 / 505
Naltrexone : 37
Naloxone : 72
Pheniramine (Avil) : 2450
Nitrazepam : 2450
Diazepam : 2450
Chlordiazepoxide : 2450
Canabinoids : 70
b) Biochemical investigations : 15000
c) Hematological investigations : 8000
d) HIV screening : 500

AWARDS, HONOURS AND SIGNIFICANT EVENTS


Dr. Rajat Ray was a resource person for the Expert Group Meeting on Treatment and Rehabilitation of Drug Addicts-TREATNET at Vienna, Austria (13-14 September 2007), the Third Meeting of Technical Guidelines Development Group (TDG) on Pharmacotherapy of Opioid Dependence in Geneva, Switzerland (17-21 September 2007). He co-ordinated the project entitled Evaluation of Buprenorphine Substitution Treatment Sites in India under the aegis of UNODC & NACO (September 2007). He visited China and Thailand as a part of Inter-Ministerial Delegation of the Ministry of Health & Family Welfare (June 2007). He also visited the Central Institute of Psychiatry, Ranchi (April 2007) and the Dr. D.Y. Patil Medical College, Navi Mumbai (June 2007) for inspection. He became a member of the Sub-Committee for Postgraduate Medical Education, Medical Council of India (May 2007) and of the Expert Advisory Panel to Punjab State Planning Board, Government of Punjab (June 2007 activity).

Dr. B. M. Tripathi was appointed as a member of the Technical Resource Group on Injecting Drug Use of the NACO, MOHFW; and the Task Force for Research in Ayurveda and Siddha, Department of AYUSH, MOHFW. He was also appointed as a consultant for the SPYM study on Injection Drug Use Size Estimation at 300 PLI sites (sponsored by Department for International Development, United Kingdom) and for the Size Estimation of Injecting Drug Use in Punjab and Haryana (sponsored by UNAIDS and SPYM).

Dr. Raka Jain chaired a scientific session of the International Symposium on Forensic Science at Amity Institute of Advance Forensic Science Research and Training (1-4 August 2007). She was
invited by the Indian Journal of Medical Research to review the Book entitled “WHO Expert Committee on Drug Dependence, Thirty-fourth Report”. She received the membership of Asia Pacific Society for Alcohol and addiction (APSAAR) and the fellowship of the Indian Association for Social Psychiatry. She peer reviewed articles for Brain Research Bulletin.

**Dr. Rakesh Lal** attended a meeting on National Policy on Drug Abuse at Central Institute of Psychiatry, Ranchi (28 March 2008). He was the coordinator for the workshop for doctors from The National Institute of Health and Family Welfare (2 November 2007) and for the workshop on Development of Policy on Drug and Alcohol Abuse Treatment (22 November 2007).

**Dr. Meera Vaswani** was awarded the Distinguished International Scientist Collaborative Award (DISCA) from National Institute of Drug Abuse, National Institute for health, USA. She was invited by the International Society of Biological Research on Alcoholism (ISBRA) to represent India in the formation of Asia Pacific Society of Biological Research on Alcoholism (APSBRA). She was elected as a member of Board of Directors for Asia Pacific Society for Alcohol and Addiction Research (APSAAR). She was elected as a member of the Editorial Board of International Journal of Biosciences & Technology. She was invited by the Japanese Society for Psychiatric Research on Alcoholism to speak in a symposium on “Alcohol Research in Asia” held in Shiga, Japan; and as a speaker in a symposium organized by World Psychiatric Association meeting held in Melbourne (November 2007). She chaired four scientific sessions in the American Psychiatric Association meeting held in San-Diego, USA (May 2007).

**Dr. Anju Dhawan** became a member of the WHO Expert Advisory Panel on Drug Dependence (Abuse Liability Evaluation). She participated in an Expert Group Meeting on Planning Maintenance Treatment under NACO (January 2008, February 2008). She was involved as an expert in the evaluation of the functioning of Programmes on Oral Substitution with Buprenorphine through site visits made to Mumbai, Pune and Goa, sponsored by UNODC ROSA (1-5 September 2007); and the “Outcome of Drug Dependent Patients following Treatment” for the Parliamentary Committee Report through on-site visits made to de-addiction centres (March 2008). She was the coordinator for WHO biennium Activities in Substance Use Disorder for year 2007-2008; including the “Training by Trainers Programme” held at KEM Hospital, Mumbai (18-23 June 2007). She was the Organizing Secretary for the training programme on “Oral Substitution with Buprenorphine” sponsored by UNODC, ROSA at New Delhi (9-11 July 2007); for the seminar on “Substitution Treatment” for delegates from Bangladesh attending the “Study Tour on Oral Substitution Treatment” sponsored by UNODC, ROSA at the NDDTC, AIIMS (21-22 September 2007); for sensitization and training of local doctors and initiation of treatment for substance use disorder at Anantnag, Jammu and Kashmir (21-22 April 2007); and for the “National Workshop on Development of Policy on Drug and Alcohol Abuse Treatment” sponsored by WHO (India) and MOHFW at NDDTC, AIIMS (22 November 2007). She is a peer reviewer for the National Medical Journal of India. She also provided technical inputs for organizing about 20 free detoxification camps on drug abuse treatment in various cities in northern India in collaboration with NGOs.

**Dr. Sonali Jhanjee** received the National Institute of Drug Abuse - International Society of Addiction Medicine travel fellowship award for attending the Annual Meeting of the International Society of Addiction Medicine (22-25 October, 2007) in Cairo, Egypt. She was nominated as an expert to a team convened by UNODC, ROSA to evaluate oral substitution (with buprenorphine) sites in India.
**Dr. Atul Ambekar** provided inputs to the document “Mapping and Size Estimation of IDU in India: Proposed Methodology.” Jointly submitted by NDDTC (AIIMS), the Family Health International (India) & SPYM to NACO (April 2007). He was a resource person for the NACO-UNODC exercise on evaluation of buprenorphine substitution treatment sites in India. He evaluated six sites in Kerala and Tamil Nadu (26-30 August 2007). He was nominated as a member of the Reference Group to United Nations on HIV and Injecting Drug Use by the University of New South Wales, Australia. He became a member of the Asia Pacific Society of Alcohol and Addiction Research (APSSAR) and a fellow of the Indian Association for Social Psychiatry.

**VISITING SCIENTISTS**

**Dr. Juana Tomas Rossello,** Expert from Global Challenge Section, UNODC (Vienna) visited NDDTC to explore the possibility of collaborative projects (1 May 2007).

**Dr. Robert Newman** lectured on planning Maintenance Treatment (8 January 2008)

**Dr. Nick Croft** lectured on planning Maintenance Treatment (February 2008)

**Dr. Syed F. Ali,** Senior Biomedical Research Scientist & Head, Neurochemistry Laboratory, Division of Neurotoxicology, HFT-132, National Center for Toxicological Research/ FDA 3900 NCTR Road Jefferson AR 72079-9502, USA delivered a lecture (11 February 2008).
10.3 Centre for Dental Education & Research

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<td>O.P. Kharbanda</td>
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EDUCATION

**Undergraduate**
The Centre conducted the teaching programme of MBBS undergraduate students during their clinical posting in VIIth Semester.

**Postgraduate**
At present the centre is conducting Postgraduate programmes in Orthodontics, Prosthodontics, Conservative Dentistry & Endodontics and Oral and Maxillofacial Surgery.

**Short Term Training**
Nine undergraduate students from India, one sponsored candidate from Nepal & 3 sponsored candidates from England have undergone short term training, varying from 3 to 6 months in Dental Surgery and Oral Health Education Programme.

**Continuing Medical Education**

**Conferences, seminars, workshops**
- The Centre organized Expert Group Meeting on “Integration of Oral health in National Rural Health Mission” on 28-29 March, 2008, supported by Ministry of H & FW, Govt. of India.
- Co-organized Hands-on course on Cast Partial Denture organized by ITS Centre for Dental Studies and Research under the aegis of Indian Prosthodontics Society from 10-11 October, 2007.
- Conducted a CME on “Full Mouth Rehabilitation” during 35th Indian Prosthodontic Society Conference from 8–11 September, 2007 at New Delhi.
- Co-organized a workshop on Continuing Dental Education: Roadmap to Accreditation at Maulana Azad Institute of Dental Sciences, New Delhi on 11 September, 2007.
- Conducted a CME on “Implant supported Over-Denture” during 9th National Post Graduate Convention of Indian Prosthodontic Society held during 21–24 June, 2007.
- Faculty for Residents’ Orientation Programme, AIIMS, January 2008.
Lectures delivered

Professor Naseem Shah

• “Efficacy of revascularization to induce apexification / apexogenesis in infected, non vital immature teeth – A pilot clinical study” presented at the 7th World Endodontic Congress, Vancouver, Canada on 25-27 August, 2007
• “Oral Health Surveillance” at the SEANET-NED meeting on “Scaling up prevention and control of non-communicable diseases” held at Phuket, Thailand from 22-26 October, 2007
• “Oral Health Promotion and Disease Prevention” at the International Symposium on “Research Priorities in Dental Science and Technology in Asia and Africa” held on 1-3 December, 2007 at Hyderabad.

Prof. O.P. Kharbanda

• “Non extraction treatment with intraoral maxillary distalization” at 21st Australian Orthodontic Society Conference, Brisbane, Australia 1–5 March, 2008 and
• Series of lectures taken over 2 days on “Management of cleft lip and palate” as a visiting professor at Department of Orthodontics, Faculty of Dentistry, University of Sydney, Australia. 1–5 March, 2008
• “Orthodontic treatment challenges and possible solutions for developing countries in the management of Cleft lip and palate: AIIMS experience” at 7th Asian Pacific Cleft Palate Congress at Goa, 2-5 September, 2007.
• Early interception of Class II Malocclusion at the 4th Postgraduate Convention of Indian Society of Pedodontics and Preventive Dentistry from 9-10 June, 2007 at PGIMER, Chandigarh.
• “Orthodontic aspects of secondary alveolar bone graft in CLP patients” at the 12th Indian Orthodontic Society and 1st SAARC Post Graduate Convention, Pune, 2-4 November, 2007.
• “Intraoral maxillary molar distalization; what is the ultimate outcome? and CME on Intraoral molar distraction” at the 42nd Indian Orthodontic Society Conference at Nagpur, 4-6 January, 2008.
• “Purpose of Inspection and Experience and difficulties during Inspection at a workshop” by Dental Council of India at King George’s Medical College, 2 April, 2007.
• “Continuing Professional Development: UK and Australia Experience” at the workshop on Continuing Dental Education: Roadmap to Accreditation at Maulana Azad Institute of Dental Sciences, New Delhi on 11 September, 2007.

Dr. Ritu Duggal

• “Global Congress on Dental Education III : Staff recruitment, development and global mobility” held at Dublin Castle, Ireland, September 2007 as Expert Member

Dr. Ajoy Roychoudhury

• “Treatment of Mandibular fractures” at Advanced Cranio-maxillofacial trauma Course (ACMF) at Bangalore during International Conference of Oral & Maxillofacial Surgeons.

Dr. Veena Jain

• “Occlusal rehabilitation in patients with defective development of dentition” during 35th Indian Prosthodontic Society Conference from 8–11 September 2007 at New Delhi.

Dr. Vijay Prakash Mathur

• Resource person in Group Discussion in the Group on “Balancing the role of Dental Schools in Teaching, Research and Patient Care, including care for underserved areas” during the Global Congress in Dental Education at Dublin, Ireland, September 2007
• Gave an introductory overview of the Workshop on Tobacco Cessation conducted by Indian Dental Association on 2 June, 2007 at Maulana Azad Institute of Dental Sciences, New Delhi
• “Research Funding Opportunities in Oral Health in India” during ISPPD - PG Convention, Chandigarh, June 2007
• “Lessons learnt from Multi-centric Oral Health Survey” during ISDR International Symposium, Hyderabad, November 2007

Dr. Ajoy Logani
• “Endodontic sealer placement, distribution and apical extrusion using finishing Protaper files” the FDI Annual World Dental Congress. Dubai, UAE, 24-27 October, 2007
• “Treatment options and management of severely infected immature teeth” the FDI Annual World Dental Congress. Dubai, UAE, 24-27 October, 2007
• “Patients’ expectations from their dentist- Change in the winds” at the International symposium on Research priorities in Dental Science & Technology in Asia and Africa held at Hyderabad on 1-3rd December, 2007
• “Domestic violence – can we dentist help?” at the 5th National conference of Indian association of Forensic Odontology on 19-20 January, 2008

Paper presented by the residents

• **Singhla M** “Labial access opening in mandibular anterior teeth - rule rather than exception!” at the 8th National Postgraduate Students’ Convention of Federation of Operative Dentists of India (FODI) & Indian Endodontic Society (IES) held on 18-20 May, 2007 at Nanital, U.P.

• **Sinha N** “21st century endodontics” at the 8th National Postgraduate Students’ Convention of Federation of Operative Dentists of India (FODI) & Indian Endodontic Society (IES) held on 18-20, May 2007 at Nanital, U.P.

• **Gupta A** “Determination of working length and width - Current concepts” 8th National Postgraduate Students’ Convention of Federation of Operative Dentists of India (FODI) & Indian Endodontic Society (IES) held on 18-20 May, 2007 at Nanital, U.P.

• **Aggarwal V** “An unusual case of maxillary first molar with two palatal canals and importance of spiral CT scan in diagnosis of extra canals” 8th National Postgraduate Students’ Convention of Federation of Operative Dentists of India (FODI) & Indian Endodontic Society (IES) held on 18-20 May, 2007 at Nanital, U.P.


• **Singh A** “An in vitro study to evaluate antibacterial and remineralization efficacy of sodium fluoride solution- A new endodontic irrigant?” 8th National Postgraduate Students’ Convention of Federation of Operative Dentists of India (FODI) & Indian Endodontic Society (IES) held on 18-20 May, 2007 at Nanital, U.P.

• **Singh A** “Dental caries: A pandemic disease and its research priorities” International Symposium on Research Priorities in Dental Science & Technology in Asia and Africa held at Hyderabad on 1-3 December, 2007
• **Bhushan S** “Non carious destruction and disfigurement of teeth - Etiology and prevention” .8th National Postgraduate Students’ Convention of Federation of Operative Dentists of India (FODI) & Indian Endodontic Society (IES) held on 18-20 May, 2007 at Nanital, U.P.

• **Bhushan S** “Powder dentifrices – Oral Health aid?” presented at the International Symposium on Research Priorities in Dental Science & Technology in Asia and Africa held at Hyderabad on 1-3 December, 2007

• **Wadhawan N** “TMJ Adaptation following functional appliance therapy: MRI study”, 12th Indian Orthodontic Society and 1st SAARC Post Graduate Convention at Pune, November 2007.

• **Kumar G** “Prosthodontic Rehabilitation of Patients of Maxillo- Mandibular Defects” IX National convention of Prosthodontics Post Graduate Students from 22–24 June, 2007

• **Kumar G** “Prosthodontic rehabilitation of patients with compromised ridge foundation”, 35th Indian Prosthodontic Society Conference from 8–11 September, 2007 at New Delhi.

• **Kumar G** “Prosthodontic post surgical management of orbital mucormycosis- A Case Report” at the X National Post Graduate Convention, from 8-10 February, 2008 at Darshan Dental College, Udaipur (Material science and techniques in Prosthodontics)

• **Rehan S** “Prosthodontic Management of Developmental disorders affecting Dentition” at the IX National convention of Prosthodontics Post Graduate Students from 22–24 June, 2007

• **Rehan S** “Prosthodontic management of cleft lip and palate patients” at the 35th Indian Prosthodontic Society Conference from 8–11 September, 2007 at New Delhi.

• **Pruthi G** “Recording Vertical Jaw relations: Significance Indeed- But a challenge” at the IX National Convention of Prosthodontics Post Graduate Students from 22–24 June, 2007

• **Pruthi G** “Prosthodontic rehabilitation of patients with acquired mandibular defects: case report.” 35th Indian Prosthodontic Society Conference from 8–11 September, 2007 at New Delhi.

• **Thakur M** “A comparative evaluation of centric relation and condylar guidance by conventional method versus Gothic arch tracing- A clinical study.” 35th Indian Prosthodontic Society Conference from 8–11 September, 2007 at New Delhi.


**RESEARCH Funded Projects**

**Completed**

1. Analysis of data for multicentric oral health survey for the Biennium 2006-2007. Investigators: Dr. Naseem Shah, Dr. R. N.Pandey, Dr.Ritu Duggal and Dr. Vijay P Mathur Funding Agency – Ministry of Health and Family Welfare, GOI Total funding –2,59,600 lacs Duration – 6 months

**Ongoing**

1. National Oral Health Care Programme - Project in collaboration with Directorate General of Health Services and Ministry of Health & Family Welfare. AIIMS has been declared as a Nodal Agency.
2. “Development of visual Analog Scale for smile characteristics following orthodontic treatment and its correlation with the treatment outcome” Prof. OP Kharbanda   An ICMR project, Total funding – 4.5 lacs, Duration – 3 Years
3. “A randomized, double blind placebo controlled study of efficacy of Lactobacillus CD2 lozenges in patients with chronic periodontitis”. Ajoy Roychoudhury, Ongkila Bhutia, Ajay Logani. Funded by CD Pharma India. Funds Rs. 9.8 lacs, Duration – 2 years
4. Detection of apoptosis in human periodontal ligament during orthodontic tooth movement – An ICMR Project – Investigator. Dr.Ritu Duggal, Total funding – 2.6 lacs, Duration – 3 Years
5. “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, Total funding – 7.82 lacs, Duration – 2 Year
6. “Oral health status of drug-addicts attending a de-addiction centre” Investigators: Dr. Naseem Shah and Dr. Vijay P Mathur, Intramural funding, Duration- 1 year
7. “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

**Departmental Project**

**Completed**
1. An in-vitro study to evaluate the effect of different impression techniques on dimensional accuracy and surface detail reproduction using additional silicone impression materials.

**Ongoing**
2. Effect of different design preparation on flexural and fracture strength of fiber reinforced composite fixed partial dentures: an in-vitro study.
3. Effectiveness of home bleaching agents on the color change and surface characteristics of direct composite veneering materials and discolouration: A Gonioreflectometer and SEM Study.
5. 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
7. 3D finite element study of stress distribution and displacement of various craniofacial structures following application of transverse force in cleft lip and palate patients
8. A clinical and cephalometric study of temporary anchorage device (TAD) supported anchorage in the management of maximum discrepancy extraction cases
9. A comparative evaluation of ultrasonographic dimension of masseter muscle with electromyographic activity prior and subsequent to Twin block therapy
10. Levels of Interleukin-1â in GCF after active Orthodontic treatment
11. ‘Temporomandibular Joint adaptations following Functional Appliance Therapy: A clinical and MRI study‘.
12. Comparative evaluation of remineralization and rehardening potential of high fluoride releasing Glass ionomer Silver diamine fluoride and Calcium Hydroxide on demineralized dentin –An ex- vivo study
13. An In vivo comparative evaluation of antimicrobial and remineralizing potential of high fluoride releasing Glass ionomer, Silver diamine fluoride and Calcium Hydroxide on carious dentin –A pilot study
14. Lamotrigine Vs Pregabalin in the management of trigeminal neuralgia refractory to carbamazepine: an open label, randomized active-comparator controlled crossover trial.

Collaborative Projects
1. “Dentofacial development of cleft lip and palate patients” (with the University of Manchester, UK).
2. Ocular surface reconstruction with alternative autografts of non-ocular surface origin. (DST funded) collaborating with RP Center

PUBLICATIONS

Journals

Book
**PATIENT CARE**
The Centre provides following advanced treatment procedures

**Conservative Dentistry & Endodontics**
Advanced restorative procedures
Cast metal, inlays/onlays and crowns
Composite inlay/only/veneers
Ceramic inlay/onlay/veneers
Esthetic Restoration and Bleaching of teeth
Root canal treatment in anterior & posterior teeth
Surgical endodontics, replantation of teeth

**Orthodontics**
Dentofacial orthopaedics and cleft palate orthodontics
Removable and Fixed orthodontics
Myofunctional therapy
Orthodontic Implants assisted treatment

**Prosthodontics**
Complete Dentures, Partial dentures, fixed prosthodontics
Total Mouth rehabilitation
Maxillofacial Prosthesis
Implant supported prosthesis

**Oral & Maxillofacial Surgery**
Craniofacial Trauma management
Facial esthetic surgery
Maxillofacial Pathology treatment
Cleft lip & palate repair
Distraction osteogenesis and Obstructive sleep apnea management
Temporo-mandibular Joint surgery
Simple & Complicated exodontia.
Trigeminal Neuralgia management.
Dental Implants.

**Paediatric Dentistry**
Prevention and Management of Dental problems in children.
Preventive Orthodontics, Serial extractions, Space maintainers & Regainers
Pediatric Dentistry for children with Special needs

**Periodontics**
Oral Prophylaxis
Advanced bone grafting and Flap surgery procedures.

**Special Laboratory Facilities**
Orthodontic laboratory
Prosthodontic Laboratory
COMMUNITY SERVICES/CAMPS
Oral Health Education programme organized at AADI School on 28th July, 2007

AWARDS AND HONOURS

Professor Naseem Shah was given The Best Teacher’s Award by the Academy of Continuing Dental education and Indian Society for Dental Research

Professor Kharbanda was Elected President-elect of the Indian Orthodontic Society and unanimously nominated as Vice President of the Indian Society of Cleft Lip, Palate and Craniofacial Anomalies. He continues to be on the International Editorial Board of the American Journal of Orthodontics and Dentofacial Orthopedics, Journal of Orthodontics (British) and Australian Orthodontic Journal and Associate Editor of the J Clinical Pediatric Dentistry. The poster presentation at AOC has been adjudged the Best Poster. Participated in meeting organized by WHO collaborating center at 6th Asian Pacific Conference in Goa India,2-5 Sept 07

Dr. Vijay Prakash Mathur was Awarded Travel grant from Centre for Cooperation in Science and Technology among Developing Societies, (CCSTDS), Chennai for attending FDI World Dental Congress at Dubai. Honored with Fellowship of Pierre Fouchard Academy, India Section.

SIGNIFICANT EVENTS

Prof. Naseem Shah was invited as Temporary Advisor by WHO to participate in the SEANET-NED meeting held at Phuket, Thailand from 22nd -26th Oct. 2007 on “Scaling up prevention and control of non-communicable diseases” Was the Scientific Chairperson of International Symposium on “Research Priorities in Dental Sciences and Technology in Asia and Africa” held on 1-3rd December at Hyderabad, organized by the Indian Society for Dental Research (ISDR) and supported by Ministry of Health and Family Welfare, Government of India. She moderated a symposium on “Roadmap to Oral Health Policy” wherein recommendations were compiled to guide the Oral Health Policy in India. Gave a radio talk on “Ill Effects of Drug abuse on Health” on AIR. Organized an Expert Group meeting on “Integration of Oral Health into NRHM” on 28-29th March, 2008 at the CDER. Chief Editor of “Oral health in India: A report of the Multi-centric Study” It was published and released by the DGHS, Ministry of Health and Family Welfare, GOI and WHO at India Habitat Centre, New Delhi on Dec. 2007

Prof. O.P. Kharbanda was invited as the Visiting Professor at the Department of Orthodontics, Faculty of Dentistry, University of Sydney, Australia and as a Guest Speaker at the 21st Australian Orthodontic Conference. He was invited by ICMR as subject expert to review the research projects in the field of Oral Health and on the Advisory Committee to award research grant to the postgraduates. He also served Department of Biotechnology as an expert in the field of Biomedical Engineering. He was an expert member on the Selection Committee, Punjab University, Chandigarh and Government of M.P. and HRD ministry for the selection of Commonwealth Fellowship. He was a special nominee of the Indian Orthodontic Society to Asian Pacific Executive Committee meeting at Bali (Indonesia) in August 2007, where he was instrumental in successfully obtaining the Asian Pacific Conference at Delhi to be held in 2012. As a Vice President of the 6th Asian Pacific Cleft Palate Congress, the conference was held successfully. He has been nominated as Scientific
Chairman of the 44th Indian Orthodontic Conference to be held in Delhi 2009. He advised Dental Council of India on issues of equalization of foreign masters degrees earned from Thailand, UK, Australia and Russia. He has also served DCI as an Inspector.

**Dr. Ritu Duggal** was appointed Dental Council Inspector for approval of M.D.S courses at various Dental colleges. Member of an expert group meeting on “Integration of oral health in the National Rural Health Mission” organized at the Centre for Dental Education and Research with objectives to give guidelines and a draft template to the states for implementation of Oral Health plan for the states.

**Dr. Vijay Mathur** was appointed by the Ministry of Health and Family Welfare, Govt of India to conduct inspection of the physical facilities such as building, space, teaching staff, their qualifications and experience, equipment and other infrastructural facilities available as per MDS course regulations, 2007 for starting MDS courses in various specialties at Al-badar Rural Dental College and Hospital, Gulbarga, Karnataka and Sri Hasanamba Dental College & Hospital, Vidya Nagar, Hassan, Karnataka. He was also invited as member of Expert Committee for selection of Senior Residents at Maulana Azad Institute of Dental Sciences, New Delhi. Co-coordinator for an expert group meeting on “Integration of oral health in the National Rural Health Mission’ organized at the Centre for Dental Education and Research with objectives to give guidelines and a draft template to the states for implementation of oral health plan for the states.

**VISITING SCIENTISTS**

1. Lecture on “CAD-CAM and 3-D imaging” on 28 June, 2007
5. Course on IMTEC implants by Harold I Sussman from NY on 2 November, 2007
7. Dr. Roelant Reizevoort on digital models from Orthoproof, Netherlands in November 2007.
8. Lecture on “Polymer science in Dental science” by Dr. Naimul Karim, Scientist from 3M Minnesota, USA on 31 January, 2008.
10.4 Dr. B.R. Ambedkar Institute Rotary Cancer Hospital

**Professor and Chief**  
G.K. Rath  
(Radiation Oncology)

**Professors**  
P.K. Julka  
(Radiation Oncology)  
Subhash Chander  
(Radiation Oncology)  
N.K. Shukla  
(Surgical Oncology)  
Rajive Kumar  
(Laboratory Oncology)  
Lalit Kumar  
(Medical Oncology)  
Vinod Raina  
(Medical Oncology)  
B.K. Mohanti  
(Radiation Oncology)

**Additional Professor**  
Sidhartha Satpathy  
(Hospital Administration)

**Associate Professors**  
S.V.S. Deo  
(Surgical Oncology)  
Atul Sharma  
(Medical Oncology)  
Sanjay Thulkar  
(Radiodiagnosis)  
Sushma Bhatnagar  
(Anaesthesiology)  
Sameer Bakhshi  
(Medical Oncology)

**Assistant Professors**  
Pratik Kumar  
(Medical Physics)  
D. N. Sharma  
(Radiation Oncology)  
Seema Mishra  
(Anaesthesiology)  
Sushmita Pathy  
(Radiology Oncology)  
Suman Bhaskar  
(Radiation Oncology)  
Ritu Gupta  
(Laboratory 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

**Laboratory Oncology**  
- Department provides training to students of MD Pathology and DM Medical Oncology.
- Combined clinico-pathological discussions are held with the department of Pediatrics.

**Medical Oncology**  
- Medical Oncology is running a DM programme under which there are 13 regular and 2 sponsored students and 5 students are undergoing PhD training.
Others
• Dr. Kunjahari Medhi, Senior Research Associate (Pool Officer), C.S.I.R.
• 8 Research Officers on various projects.

Short- and Long-term training
• Lt. Col. Amul Kapoor from Ministry of Defence, New Delhi joined the Dept. of Medical Oncology as long-term trainee for a period of 2 years w.e.f. 30.12.2005 – completed in Dec. 07.

Medical Physics Unit

Undergraduate and postgraduate 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. In addition, the unit has 2 Ph.D students undergoing training. The faculty and staff participated in Unit’s and Dr.BRA IRCH Seminars.

Short term Training
The unit imparted short-term training to WHO trainees –Dr. Poonam Vohra, Radiologist, RML Hospital and Dr. Amita Malik, Radiologist, Safdarjung Hospital, Delhi for 2 months in Radiation Safety and Quality in Diagnostic Medical Physics course. The training included practical demonstrations, small projects and (theoretical) seminars on the topics of diagnostic imaging-physics.

Radiation Oncology

Undergraduate and postgraduate training
The department is involved in Undergraduate, Post graduate, B.Sc. Nursing and PhD teaching programmes

Short term training was given to
• Kang SUN Chol, Kim In HYOK, Kim Sin IL, Gynecologists and Oncologist in Pyongyang Maternity Hospital, DPR Korea
• Dr. Praveen Kumar Mishra, Medical Physicist, G.R.Medical College Gwalior (MP)
• Mr. Ram Kumar Sharma, Radiotherapy Technologist, G.R.Medical College Gwalior (MP)
• Dr. Anil Kumar Goel, Asst. Prof., Radiotherapy, Govt Medical College & G.G.Hospital, Jamnagar, Gujarat
• Dr.Santanu Sapru, Dr. Anshu Kumar Goel, JR, Radiotherapy, SGPGI, Lucknow
• Dr. Rahul Sharma, Lecturer in Radiotherapy, Govt Medical College, Jammu
• Dr. Harjot Kaur Bagga, Professor and Head, Dept of Radiotherapy, Govt Medical College, Patiala
• Dr.Vinod Kumar Dangwal, Assoc. Professor (Medical Physicist), Dept of Radiotherapy, Govt Medical College, Patiala
• Ms.Caroline Barry, Medical Student, University of York, UK
• Dr. B.A.Sharma, Dr. N.K.Singh, Medical Physicist, RIMS, Imphal
• Dr. M.K.Bharti, Dr. Md. AA.Ansari, PG in Radiotherapy, Patna Medical College, Patna
• Dr. Rohini Khurana, SR in Radiotherapy, SGPGI, Lucknow
• Dr.T.K.Mitra, Dr. Kakali Choudhury, PG in Radiotherapy, IPGMER, Kolkata
• Dr. Manoj Gupta, DNB Resident, Yashoda Hospital, Secunderabad, Andra Pradesh
• Dr. Kanika Sharma, Dr. Anju Malhotra, SR in Radiotherapy, MAMC & LN Hospital, Delhi
Surgical Oncology

Undergraduate teaching
The faculty were involved in undergraduate teaching by giving didactic lectures and participating/moderating seminars on oncological topics.

Post graduate teaching
The faculty were involved in teaching and training of 6 surgical oncology senior residents, DM medical oncology residents, 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. Both Dr. Shukla & Dr. Deo acted as Co-guide and Co-supervisors in DM medical oncology thesis, MD radiation oncology thesis & Ph.D students from different dept. of IRCH & AIIMS.

Para clinical teaching/training
Both faculty members were involved in the teaching of the B.Sc nursing students.

Continuing Medical Education

Anaesthesiology
- 3rd Meeting of Interventional Pain Management Club on March 8th, 2008 at Conference Hall, First Floor, IRCH, AIIMS
- Organized 7th Foundation Course on Palliative Care on 16th-17th Feb 2008 for Medical Practitioners and Nursing Staff treating Cancer patients in & around Delhi
- Lectures for Nursing Staff deputed at IRCH from all over the Country for Undergoing Advance Courses in Oncology

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
- ‘Role of CT scan in management of Ovarian Cancer’ at Symposium on Ovarian Cancer, AIIMS, New Delhi April 14, 2007.
- ‘Breast MRI’ at CME on breast imaging organized by IRIA Bihar State and IGIMS, Patna at IGIMS, Patna on March 2, 2008.
- ‘Breast Interventions’ at CME on breast imaging organized by IRIA Bihar State and IGIMS, Patna at IGIMS, Patna on March 2, 2008.
- ‘Imaging and diagnostic procedures in breast diseases’ at workshop of CGHS doctors organized by dept of Surgery AIIMS, New Delhi March 8, 2008.

Radiotherapy
Department of Radiation Oncology organized the 1st SAARC & XI National conference of Association of Radiation Therapy Technologists of India (AARTICON) at AIIMS, New Delhi, 5 to 7 October 2007
Surgical Oncology

- Dr. N.K. Shukla chaired Breast Cancer Focus Meet on early stage breast cancer at New-Delhi on August 11, 2007
- Dr. N.K. Shukla attended CME Programme of Indian Association of Surgical Oncology and Delhi Oncology Group on 27 January 2008 and chaired a Scientific Session on Gastrointestinal malignancies.
- Dr. SVS Deo participated in a panel discussion on “Colorectal cancers” during the CME on Colorectal cancers held on 18th April 2007 at India Habitat Center, New Delhi.
- Dr. SVS Deo delivered a lecture on “Prognostic & Predictive factors in Breast cancer” during the Astra Zeneca Symposium on Breast cancer on 11th August, 2007 at India Habitat Center, New Delhi.
- Dr. SVS Deo delivered a lecture on “Computerized Database development in Oncology” during the Delhi Oncology group meeting held in India International center on 10th September 2007.
- Dr. SVS Deo participated in a Investigators meeting of “EGF 102988 Trial in Head and Neck cancer” held in Hong Kong, 22nd to 25th July 2008.

NATIONAL AND INTERNATIONAL CONFERENCES

Lectures delivered

Anesthesiology

- “Management of terminal cases of cancer Gall bladder”- at IGIMS, Patna on 13th May, 2007 by Dr. Sushma Bhatnagar.
- Oncological Emergencies. Nursing Oncology Updates, AIIMS, New Delhi 22-23rd Nov.2007 by Dr. Seema Mishra.
- “Coeliac Plexus Block” at Lady Harding Medical College. Dec. 2007 by Dr. Sushma Bhatnagar.
- “Introduction to Palliative Care” 7th cancer foundation course on Pain and palliative care 17th - 18th Feb.2008, Delhi by Dr. Sushma Bhatnagar.
- “Challenges faced in cancer pain management” at St. Stephen Hospital, New Delhi on 28th March, 2008 Dr. Sushma Bhatnagar.
- Attended Mid term EC meeting from 1-2nd sept.2007 by Dr. Sushma Bhatnagar
- Attended National Workshop of Faculty group at Calicut on 12-13th Jan.2008. by Dr. Sushma Bhatnagar.

Delhi Cancer Registry

Training Programme/ Meetings Attended

- Dr. B. B. Tyagi and Mr. N. Manoharan attended a seminar on “Time Trends in Cancer Incidence
Rates” and a Meeting on Population Based Cancer Registry data processing and quality checks on Delhi cancer registry data for the year 2004 at Bangalore organized by National Cancer Registry Programme, Indian Council of Medical Research, Bangalore from 28th June 2007 to 6th July 2007.

- Dr. V. Raina, Dr. B. B. Tyagi and Mr. N. Manoharan attended the XXIII Annual Review Meeting (ARM) of National cancer registry Program, Indian Council of Medical Research held at Civil Hospital, Aizwal, Mizoram from 14th to 17th November 2007.

**Laboratory Oncology**

**Dr. Rajive Kumar**

- Invited to participate as faculty in panel discussion on ‘Acute Leukemias’, in the conference on ‘First Indian Guidelines on Immunophenotyping’, March 13 to 15, 2008 at Tata Memorial Hospital, Mumbai
- Invited to attend 22nd Annual Clinical Cytometry Course and Meeting of the Clinical Cytometry Society, at Washington, DC, October 2007.

**Dr. Ritu Gupta**


**Medical Oncology**

**Prof. V. Raina**

- Attended Investigator Meeting with Biogen IDEC on 114-NH-301 ‘TARGET STUDY’ in Bangalore from 7-9 September 2007.
- Appointed DM examiner Gujarat Cancer Research Institute, Ahmedabad on 4 August 2007.
- Attended Investigator meeting on protocol CTI – PIX 301 in Mumbai on 28-29 September 2007.
- Gave a talk on “Challenges of Clinical Trials in India” in the Annual Conference of Drug Discovery & Development of Innovative Therapies in India at Hyderabad from 10-12 October 2007.
- Gave a talk on “Conducting Oncology Trials in India” in the International Conference on Drug Discovery & Clinical Development in India in Mumbai on 19-21 November 2007.
- Appointed Co-Chair ATLAS Trial Steering Committee, Oxford

**Prof. Lalit Kumar**

- Invited lecture on “ Reduced intensity allogeneic BMT “ on 8th Sept 2007 during he CME on Haemato-Oncology at Kolkata, organized by Netaji Subhash Chandra Bose Cancer Research Institute, Kolkata.
Delivered a guest lecture on Cancer Stem cells on 11th Aug 2007 during the Annual Meeting of Delhi Society of Haematology organized by Sir Ganga Ram Hospital, New Delhi.

Invited lecture on “Refractory Anemia and Multiple Myeloma” on 30th Sept. 2007 during the Annual meeting of the Association of Physicians of India- Saharanpur branch, UP held at Mussoorie.

Participated as a panelist during the panel discussion on data safety Monitoring Board (DSMB) on 15th Sept 2007 at AIIMS, organized by the Department of Pharmacology, AIIMS.

Invited lecture on “Aggressive non Hodgkin’s lymphoma: Management” on 6th Oct 2007 during the symposium on lymphoma held at Vivekanand Institute of Medical sciences, Kolkata.

Chairperson during the Conference on breast/Ovarian cancer organized by Tata Memorial Hospital, Mumbai on 27-28th Oct.08

Invited lecture on “Chemotherapy of Ovarian Cancer” on 2nd Nov 2007 during the 29th Annual conference of the Association of Obstetrics and Gynaecologists of Delhi, held at AIIMS, New Delhi.

Gave an invited talk on “Stem cell therapy in Obstetrics” on 4th Nov 2007 during the 29th Annual conference of the Association of Obstetrics and Gynaecologists of Delhi, held at AIIMS, New Delhi.

Gave an invited talk on “Chronic Lymphocytic Leukemia – Current management” on 15th Nov 2007 during the 48th annual conference of the Indian Society of Haematology & Blood transfusion Medicine (ISHTM 2007) held at CSM Medical University (KGMC) , Lucknow.

Chairperson during the “Update on Adjuvant Therapy of Breast cancer’ organized by Sir Ganga Ram Hospital, New Delhi on 2nd Dec 2007.

Delivered a talk on “ Recent Advances in the treatment of Chronic Myelogenous Leukemia” during the 34th Annual National conference of Association of Clinical Biochemists of India” on 18-12-07 at New Delhi.

Chaired a session during the ‘Ranbaxy Science Foundation Symposium’ on 14-1-08 held at National Institute of Immunology.

Chairperson during the CME programme of the Indian Association of Surgical Oncology held at Army Hospital (R&R) on 27-1-08.

Invited talk on “Risk Stratification and role of stem cell transplantation in multiple myeloma” during the annual meeting of the Stem cell Transplantation Group at Christian Medical College, Vellore on 15-3-08.

Delivered a Guest lecture on “Chronic Myeloid Leukemia: Recent Advances” on 28-3-08 at Maulana Azad Medical College, Delhi during the Molecular Medicine Update.

Dr. Atul Sharma

Participated in Panel Discussion on Metastatic Ovarian Cancer during Symposium on Ovarian cancer on 13-14th April 2007 at AIIMS.


Delivered a talk on targeted therapy in Head and Neck cancer organized by Artemis Hospital on 15th July 2007 at Le Merridean.

Delivered a talk on Recent advances in Advanced Colorectal Cancer at Indraprastha Apollo Hospital, New Delhi on 11.08.2007
• Delivered a talk on “Management of Lymphoma” organized by RGCRI at India Habitat Center, New Delhi on 16.09.2007
• Chaired a session “weekly versus 3 weekly Taxanes” during update on Adjuvant Therapy In Breast cancer hosted by Sir ganga Ram Hospital, New Delhi on 2nd December 2007.
• Delivered a talk on “Role and Limitations of Transplants in Multiple Myeloma- during Hematology Update” organized by Hematology Department AIIMS, New Delhi on 24.02.2008
• Delivered a talk on “Risk stratification in Colorectal Cancer during 8th RGCON at IHC “ organized by RGCRI, New Delhi on 09.03.2008

Dr. Sameer Bakhshi
• Chairperson for “Germ Cell Tumors: Case discussion” in Symposium on Ovarian Cancer. Organized by Department of Medical Oncology, IRCH, AIIMS (April 14th, 2007).
• Guest Lecture on “Bone Marrow Transplantation” in Subharti Medical College, Meerut on 12th May 2007.
• Panelist: Fixed Dose Combinations in Antibiotics and Fixed Combinations in Oncology in “Brainstorming Workshop on Rationality Assessment and Guidelines for Fixed Dose Combinations” organized by Department of Pharmacology, AIIMS and Central Drugs Standard Control Organization at AIIMS, New Delhi on 25th and 26th June 2007.
• “Overview of Pediatric Malignancies” in Second regional symposium on management of cancer in countries with limited resources on 11th Sept 2007 at Srinagar (11th-12th Sept 2007).
• “Recent advances in Chemotherapy of Retinoblastoma” in CME titled “Retinoblastoma-Enlightenment to Lighten Life” at Gujarat Cancer and Research Institute, Ahmedabad on 22nd Sept 2007.
• “Clinical Trials in Oncology” in Mini Symposium on ‘Essentials of Phase I Clinical Trials’ organized by Dept of Pharmacology, AIIMS on 29th Sept 2007.
• “Hematology of Infections” in UP PEDICON at Moradabad on 17th Nov 2007.

Medical Physics Unit

Dr. Pratik Kumar
• Radiation protection and quality assurance in interventional procedures. Seminar on radiation hazards and protection, SMS Medical College & Hospital, Jaipur, 15-16 March 2008.
• Chaired a session at 2nd Asia – Pacific Conference of Radiological Technologists, 30th Nov. – 2nd Dec. 2007, AIIMS, New Delhi.
• Panelist in the panel discussion “Neoadjuvant chemotherapy in ovarian cancer” at Symposium on Ovarian Cancer, 13-14th April 2007, All India Institute of Medical Sciences, New Delhi.

Radiology

Dr. Sanjay Thulkar
• ‘Multimodality imaging for radiotherapy planning’ at 11th National Conference of Association of Radiation Therapy Technologists of India, AIIMS, New Delhi, October 6, 2007.
• ‘Imaging in locally advanced breast cancer’ at 5th TMH-WCI (Tata Memorial Centre-Women’s Cancer Initiative) Conference at Tata Memorial Centre, Mumbai, October 26, 2007.
• ‘Imaging in Multiple Myeloma’ at National Hematology update –VII at AIIMS, New Delhi, February 24, 2008.

Radiation Oncology

Dr. G.K. Rath
• Chaired a session at “The first National Radiosurgery Update”, New Delhi, 7 April 2007.
• An invited lecture on “Combined modality therapy with surgery and radiotherapy in locally advanced head and neck cancer “at the teaching programme of Indian College of Radiation Oncologists, Kolkata, 26 May 2007
• An invited lecture on “Recent advances in Radiotherapy “at the teaching programme of Indian College of Radiation Oncologists, Kolkata, 27 May 2007
• An invited lecture on “Hazards of tobacco” at Bhubaneswar on 31 May 2007
• Chaired a session on “Patient Issues” during the 12th International Conference on Modern Radiotherapy Technology, Rome, June 2007.
• An invited lecture on “Role of Radiotherapy in carcinoma of prostate, esophagus and cervix”, Heidelberg, 9-15th July 2007
• An invited lecture on “Advances in technology of radiation therapy” at the meeting of Indian Cooperative Oncology Network (ICON), Mumbai 11-12 August 2007
• An invited lecture on “National cancer control programme” at Govt. Medical College, Jammu, 26 August 2007.
• An invited lecture on “Practice of Radiotherapy in low resource setting”, Srinagar, 12-13 September 2007
• An invited lecture on “Strategies in cancer control in India” at the North East Zonal chapter meeting of AROI, Agartala, 30 September – 1 October 2007
• An invited lecture on “Imaging in Radiation Oncology” at the workshop organized by International Union Against Cancer (UICC), Kolkata, 8 October 2007
• An invited lecture on “Role of Radiotherapy in ano-rectal cancers” at the Andhra Pradesh Chapter of Association of Radiation Oncologists of India, Hyderabad, 18th November 2007
• Chaired a Session on “Comparison of 3 Dimensional conformal radiotherapy, Intensity Modulated Radiation Therapy, Image Guided Radiotherapy, and Tomotherapy” at the Annual Conference of the Association of Radiation Oncologists of India, Chennai on 30 Nov 2007
• An invited lecture on “Radiotherapy facility in India” at the Annual Conference of AROI, Chennai, 29 November – 1 December 2007
• An invited lecture on “Brain Tumors” at the State chapter conference of the Association of Radiation Oncologists of India, Jaipur, 8 Dec 2007
• An invited lecture on “Radiotherapy Today” at the Narayana Cancer Hospital, Nellore, 12 December 2007.
• An invited lecture on “Recent advances in Radiotherapy” at the Annual meet of the Association of Radiation Oncologists of India, Orissa Chapter, Cuttack, 26-27 January 2008
• An invited lecture on “Inverse Planning in Brachytherapy” at the Clinical Oncology and Radiation Physics conference (CORPCON) 2008, CMC, Vellore, 7-9 Feb 2008
• An invited lecture on “Stomach Cancer” at Civil Hospital, Aizwal, 16 Feb 2008
• Delivered the Key note address on “Radiation treatment: recent advances and perspectives” at the conference of the Northern Chapter of Association of Medical Physicists of India, Allahabad, 1 March 2008.
• An invited lecture on “Current status and future prospects of IMRT in India” at the North Zonal Chapter meeting of AROI, Delhi, 16 March 2008,
• Conducted telemedicine sessions with three Regional Cancer Centers namely Dr B Baruah Cancer Hospital Guwahati, Acharya Harihar Regional Cancer Centre, Cuttack and Sher-I–Kashmir Institute of Medical Sciences, Srinagar.

Dr. P.K. Julka
• Guest Lecture on “Neo-adjuvant Chemotherapy in Ca Cervix”, RGCI, Delhi, 1st April 2007.
• Guest Lecture on “Stereotactic Radiosurgery” at Stereotactic RT Conference, 7th April 2007.
• Conducted telemedicine sessions with Susheela Tiwari Forest Hospital, Haldwani on Breast Cancer.
• Guest Lecture on “Recent Advancement in Breast Cancer and Early Detection of Breast Cancer” at NEIGRIMS, Shillong, 18th May 2007.
• Panelist on Breast Cancer at ARTEMIS Conference, New Delhi, 15th July 2007.
• Acted as Moderator and Chairperson for Panel Discussion “Breast Cancer” Artemis Oncology CME, 16th July 2007.
• Guest Lecture on Cetuximab + RT in Head & Neck Cancer, Chandigarh, 4th August 2007.
• Guest Lecture on “Recent Advancement in Management of Breast Cancer” for CMOs (CGHS), 11th August 2007.
• Chairperson for Session on Target Volume in Radiotherapy, Delhi-UP Chapter AMPI Meeting, 8th September 2007.
• Guest Lectures on “Targeted Therapy and Brain Tumor Chemotherapy” at AROI Meeting (Northern Chapter), 16th September 2007.
• Chairperson for Breast Cancer Symposium on Hormonal Therapy, New Delhi, 21st September 2007.
• Guest Lecture on Breast Cancer Awareness for CGHS Doctors, New Delhi, 27th September 2007.
• Guest Lecture on “Adjuvant Therapy in Rectal Cancer” at XVII, MAMC Surgical Update 2007, New Delhi, 30th September 2007.
• Chairperson of Breast Cancer Symposium at Tata Memorial Hospital, Mumbai, 27th October 2007.
• Guest Lecture on “Drug Discovery at AIIMS”, New Delhi, 30th October 2007.
• Guest Lecture on “Recent Advances in Lung Cancer Management”, Lala Ram Swarup Institute of Tuberculosis and Respiratory Diseases, New Delhi, 17th November 2007.
• Chairperson and Panelist of Brain Tumor Session, AROI Meeting, 29th – 30th November 2007.

Dr. B.K. Mohanti
• Acted as Moderator for Panel Discussion “Head and Neck Cancer” Artemis Oncology CME, 15th July 2007.
• Attended Viventia TARGET Research Group Meeting, at Bangalore, 12th October 2007.
• “Course material for Certificate Course in essentials of Palliative Care” at National Faculty Workshop for IAPC course, Institute of Palliative Medicine, Calicut, 12-13, January 2008
• Invited talk “Practice of Radiotherapy in India”, 20th Conference of UP Chapter of Association of Radiation Oncologists of India, SGPGI, Lucknow, 16th February 2008.
• Invited talk “Transition from Curative to Palliative Care”, at 7th Foundation Course on Palliative Care, Can Support- IRCH, Delhi, 17th February 2008.
• Invited talk “How to organize the transition from cure to Palliation” at 10th Anniversary of Dean Foundation, Chennai, 9th March 2008.
• Delivered a lecture “Introduction to Head and neck cancer care in India” and chaired a scientific session at the AIIMS Head and Neck Cancer CME, 15-17 March 2008.
• Carried out the live demonstration of “Interstitial Brachytherapy in head and neck cancer” at the AIIMS Head and Neck Cancer CME, 15-17 March 2008.
• Conducted Tele-medicine teaching sessions with the faculty and post-graduate residents of Regional Cancer Centre, Cuttack and SKIMS, Srinagar.

Dr. D.N. Sharma
• Role of radiotherapy in gynecological malignancies”, preparatory course for MRCOG part II, organized by deptt. of obstetrics and gynecology, AIIMS, Oct 2007.
• “Role of radiation technologist in brachytherapy”, AARTICON 2007, held at AIIMS, New Delhi, Oct. 2007.
• “Role of radiotherapy in carcinoma of cervix”, Conference held at Gorakhpur, Feb 2008.
• “Role of radiotherapy in carcinoma of gall bladder”, Conference held at Gorakhpur, Feb 2008.
• “Role of radiotherapy in carcinoma of anorectum”, CME organized by Association of Surgeons of India (Delhi Chapter) held at Shanti Mukund Hospital, New Delhi, March 2008.

Dr. V. Subramani (Medical Physicist)
• “Comparison of CT versus Radiography based treatment planning in intracavitary HDR brachytherapy for cervical cancer: Dosimetric study” in RGCON-2007 was held at New Delhi, India on 31st March and 1st April 2007
• “Intensity Modulated stereotactic Radiosurgery/Radiotherapy for intracranial brain tumors” in 1st National Neurosurgery Update was held at New Delhi on 7-8 April, 2007
• “Recent advances in Brachytherapy practices: Physicist’s Perspectives” in Up-Delhi AMPI Chapter annual conference was held at New Delhi on 8th September, 2007
• Chaired the session on IGRT in annual conference of Association of medical Physicists of India (AMPI) which was held at Srinagar, Kashmir on 1-4th November, 2007,
• “Stereotactic Body Radiosurgery and Radiotherapy” in ICTP-Medical Physics teaching programme which was held at BARC, Mumbai, 19-24, November 2007.
• As Chairperson in “International conference on High precision Radiotherapy” held, KL, Malaysia, 24-26 November 2007.
• Presented paper on “Image Guided Brachytherapy: AIIMS experience” in Clinical Oncology and Radiation Physics conference which was held at Christian Medical College, Vellore, Tamilnadu on 7-9th February, 2008
• Presented paper on “Current perspectives on interstitial brachytherapy and implementation of ICRU-58 Recommendations” at Northern AMPI chapter annual meeting held at Allahabad 1st March, 2008.

Dr. R. Prabhakar (Medical Physicist)
• “A Technique for Verification of Isocenter Position in Tangential Field Breast Radiotherapy” at AAPM meeting, 22-26 July 2007

Dr. Haresh KP (Senior Research Associate)
• “A comparative Analysis of Quality of Life of Patients Treated by Radical Cystectomy and Sigmoid Neobladder Versus Chemoradiation in Muscle Invasive Cancer of Urinary Bladder”. At the 49 th Annual Meeting of the ASTRO 2007 at Los Angeles, California, Oct 2007.
• “P53 in muscle invasive cancer of Urinary bladder”. At the 2008 Genitourinary Symposium Co sponsored by ASCO,ASTRO and SUO at San Francisco, California, Feb 2008

Dr. Amit Bahl (Senior Research Associate)
• “Management of advanced oral cancer” at Comprehensive cancer care conference, HPPCHRI, Gorakhpur 18 January 2008
• “Role of radiotherapy in management of Breast cancer” at Comprehensive cancer care conference, HPPCHRI, Gorakhpur 19 January 2008

Mr. JPS Manav
• Organizing secretary 1st SAARC & XI National conference of Association of Radiation Therapy Technologists of India (AARTICON) held at AIIMS, New Delhi, India, on October 5-7, 2007

Surgical Oncology

Dr. S.V. S. Deo
• Delivered a guest lecture during the International Society of Surgery annual Conference held at Montreal, Canada between Aug-25-30 2007 on “Breast oncoplasty – Status in India”.
• Delivered a guest lecture on “Management of mandibular defects in oral cancer patients” during the Asia Pacific congress on craniofacial surgery” held at Maldives, April 29- May 4, 2007.
• Delivered a lecture during the “Symposium on Ovarian Cancer “held at AIIMS, 14-15 th April, 2007, on “Electronic Database Development in Oncology”.
• Delivered a lecture on Prognostic and predictive factors in Breast cancer during the Breast cancer expert forum meeting held at Bangalore, June 2007.
• Chaired a scientific session during the Asia Pacific congress on craniofacial surgery” held at Maldives, April 29- May 4, 2007.

RESEARCH

Funded Projects

Anaesthesiology

Completed
1. Management of neuropathic cancer pain following WHO guidelines. P. I.:Dr. Seema Mishra, Funding:Institute Research Grant, Funds: 1, 00,000.

Laboratory Oncology

Ongoing
1. Immunophenotypic characterization of plasma cells by flow cytometry in health & disease
with particular reference to plasma cell myeloma. PI: Dr. Ritu Gupta. Duration: 3 years (2006-2009), Funded by DST. Funds: 8,70,000

2. Assessment of multi-drug resistance pattern in acute myeloid leukemia and response to therapy. PI: Dr. Ritu Gupta. Duration: 2 years (2006-2008), Funded by AIIMS. Funds: 1,90,000

3. Regulatory T-cell repertoire in plasma cell myeloma. PI: Dr. Ritu Gupta. Duration: 3 years (2007-2010), Funded by DBT. Funds: 14, 82,000.

4. Endothelial progenitor cells as biomarker of disease activity in multiple myeloma. PI: Dr. Lalit Kumar, Co-investigator: Dr. Ritu Gupta. Duration: 3 years (2007-2010), Funded by DBT. Funds: 16, 79,000

5. To study the molecular biology of multiple myeloma. PI: Dr. Lalit Kumar, Co-investigator: Dr. Ritu Gupta. Duration: 3 years (2007-2010), Funded by DBT, Funds: 33, 00,000.

Medical Oncology

Completed

1. 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. Protocol No. A6181037, Principal Investigator: Dr. V. Raina, Funded by Pfizer, Funds: 7 Lakhs, Duration: 1 year (2007)

2. A Randomized Phase 3 Trial of ALIMTA (Pemetrexed) and Carboplatin versus Etoposide and Carboplatin in Extensive-Stage Small Cell Lung Cancer”. Principal Investigator: Dr. V. Raina, Funded by Eli Lilly, Funds: 5 Lakhs, Duration: 1 year (2007)

3. A multicentric open comparative randomized study to optimize dose duration safety efficacy and cost of two treatment regimens with liposomal amphotericin B (fungisome) in the treatment of systemic fungal infections in India., Principal Investigator: Dr. Atul Sharma, Funded by DBT, Govt. of India, Funds: 10.00 lacs, Duration: 2006-2007

4. Study of her-2-neu and p-53 expression in osteosarcoma by immunohistochemical methods: in collaboration with Department of Pathology., Principal Investigator: Dr. Sameer Bakhshi, Funded by AIIMS Research Grant, Funds: One Lac, Duration: One year, 2007

Ongoing


3. 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. V. Raina. Funded by Reliance. Fund: 15 Lakhs, Duration: 2 years 2008-2010.

4. An Open Lable Multicenter Phase I/II Study to evaluate Safety And Efficacy of P276-00 in Patients with relapsed and/or Relapsed/Refractory Multiple Myeloma. Dr. V. Raina. Funded by Nicholas. Funds: Rs 10 Lakhs. Duration: 1 year, 2008-2009.

5. A Randomized, Open Label Multi-Center Study of Single Agent Larotaxel (XRP9881) Compared to Continuous Administration of 5-FU For The Treatment of Patients With Advanced Pancreatic

6 INDOX (India – Oxford collaboration). Dr. V. Raina. Funded by Oxford University. Funds: Rs 30 lakhs, Duration: 3 years, 2006-2009.

7 Immunophenotypic and cytogentic analysis for analysis of correlation among the prognostic markers in acute lymphoblastic leukemia. Dr. V. Raina. Funded by Terry Fox. Funds: 6 Lakhs, Duration: 3 years, 2007-2010.


9 ATLAS (Adjuvant Tamoxifin Long against Short). Dr. V. Raina. Funded by Oxford University, Funds: 30 Lakhs, Duration: 3 years, 2006-2009.

10 A study of the prevalence and type of anemia in patients with lymphoid malignancies. Dr. Lalit Kumar. Funded by Global Cancer Concern India. Funds: Rs. 60,000, Duration: 2007-2008.

11 Randomized study comparing upfront surgery followed by chemotherapy versus upfront chemotherapy followed by interval debulking surgery in previously untreated epithelial ovarian cancer stage III C and stage IV (pleural effusion only). Dr. Lalit Kumar. Funded by ICMR, Funds: Rs. 70,34,900, Duration: Till 2009

12 Elucidation of molecular mechanisms causing or favoring resistance to STI-571 in Philadelphia chromosome positive Indian leukemia patients. Dr. Lalit Kumar. Funded by Terry Fox, Funds: Rs 5 Lac.

13 Molecular Biology of Multiple Myeloma. Dr. Lalit Kumar, DBT, Govt. of India, common funding Rs. 50 lacs Duration: Till 2010,

14 Role of Endothelial progenitor cells as biomarkers of disease activity in multiple myeloma. Dr. Lalit Kumar, Funded by DBT, Govt of India, Funds: common funding Rs. 50 lacs Duration: Till 2010,

15 Combination of P53, EGFR and tumor grading in determining the outcome of early stage epithelial ovarian cancer. Dr. Lalit Kumar, Funded by DBT, Govt of India, common funding Rs. 50 lacs Duration: Till 2010,

16 Expansion of bone marrow and cord blood hematopoietic stem cells and their differentiation into hepatocytes. Dr. Lalit Kumar, Funded by ICMR, Funds: Rs 8.9 Lac, Duration: Till 2009.


18 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, Funded by Parexel International on behalf of HGS, USA, Funds: Rs 8.8 Lacs, Duration: 2007-continue.

19 Treatment and Characterization of Acute Lymphoblastic Leukemia in Children, Adolescents and Young Adults. Dr. Sameer Bakhshi, Funded by: International Network of Cancer Treatment and Research & Sir Ratan Tata Trust, Funds: 4.5 lacs/year for Clinical Management, Duration: Ongoing (2005 onwards).
20 An open label multicentric study to assess the efficacy and safety of recombinant human granulocyte colony stimulating factor (Filgrastim) injections in patients undergoing myelosuppressive chemotherapy. Dr. Sameer Bakhshi, Funded by Cadilla, Funds: 2.85 lacs per year, Duration: Ongoing since April 2007.
21 Detection of mitochondrial mutations in acute myeloid leukemia. Dr. Sameer Bakhshi, Funded by Terry Fox, Funds: Rs. 3 lacs, Duration: Ongoing since June 2007.
22 To study chromosomal abnormalities and FLT3 Internal Tandem Duplication (ITD) mutations in acute myeloid leukemia. Dr. Sameer Bakhshi, AIIMS Research Grant, Rs. 3 lacs over 3 years, 2007-2010.
23 Evaluation of Prognostic Value of FDG-PET after Two Cycles of Chemotherapy in Pediatric and Adolescent High Grade Lymphomas. Dr. Sameer Bakhshi Funded by DBT for 3 years, Funds: 19.45 lacs Duration: 3 years Ongoing since March 2008

Radiotherapy

Completed
1. A randomized, controlled, open label study to evaluate the efficacy and safety of Herceptin® (Trastuzumab) in combination with the oral aromatase inhibitor Arimidex® (Anastrozole) compared with Arimidex® alone as first and second line treatment administered to postmenopausal, hormone receptor positive (ER+ve and/or PR+ve) patients with HER2 over expressing metastatic breast cancer”. Dr. P. K. Julka, Dr. G. K. Rath, Dr. O. Nair, Dr. R. Parshad, Dr. R. Bhamrah. Funded by – Quintiles, Funding:

Ongoing
1. A randomized controlled comparative trial to evaluate the efficacy and safety of 2-Deoxy-D-Glucose (2DG) as a radio modifier in the treatment of Glioblastoma Multiforme. Dr G K Rath, Dr PK Julka, Dr DN Sharma, Dr Omana Nair, Dr Tarun Puri, Dr Haresh KP, Sponsor : Dr Reddys. Funds: Rs.155001.
2. BCIRG 006 - A Multicentric Phase III randomized trial comparing doxorubicin and Cyclophosphamide followed by Docetaxel (ACâ‘™) with Doxorubicin and Cyclophosphamide followed by Docetaxel and Trastuzumab (Herceptin) (ACTH) 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. Funds:Rs.162313
3. A centrally randomized open multi center study evaluating the efficacy and safety of combination therapy with intermex Alpha™ and vinblastine versus vinblastine monotherapy in patients with Advanced Renal Cell Carcinoma. Dr PK Julka, Dr G K Rath, Dr Amlesh Seth, Dr Omana Nair, Dr Renita Bhamrah Dr Ashish Chaudhary Sponsor : Sterling. Funds: Rs.618000
4. A phase 2 study of Sequential Neoadjuvant Gemcitabine plus Doxorubicin and Gemcitabine plus Cisplatin in large T, (e” 3cm) and Locally Advanced (T, , T, or N,) 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 Funds:Rs.472000
5. A Randomized, Double-Blind, Parallel-group, Multicentre, Phase-III study comparing the Efficacy and Tolerability of Fulvestrant (FASLODEX™) 500 mg with Fulvestrant (FASLODEX™) 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. Funds:Rs.245700
6. 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. Funds: Rs.150000

7. A Phase 2 Open Label Randomized Controlled Study to Evaluate the Dose Tolerance Safety and Efficacy of VT-122 Regimen for the Treatment of Cachexia in Subjects with Stage IV Non-Small Cell Lung Cancer Dr PK Julka, Dr G K Rath, Dr Omana Nair, Dr Tarun Puri, Dr Renita Bhamrah, Sponsor: Reliance. Funds: Rs 1.5 Lakhs till now

8. A multicentric study to evaluate Palanosetron and Ondansetron in chemotherapy induced nausea and vomiting Dr PK Julka, Dr G K Rath, Dr Omana Nair, Dr Gursimran Kaur Sponsor: Dr Reddys Funds: Rs 2.5 Lakhs

9. 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. Funds: Rs 78,000

10. 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 Funds: Rs 186000

11. 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. Funds: Rs3.6 Lakhs per year

12. 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. Funds: Rs2.2 Lakhs per year

13. A prospective randomized trial of amifostine given subcutaneously during radiotherapy in head and neck cancer patients. Dr. D N Sharma. Funding: AIIMS. Funds: Rs 97850

**Departmental Projects**

**Anaesthesiology**

**Completed**

1. Effect of Pre-Emptive Oral Gabapentin for Post-Operative Pain At Rest And On Movement After Modified Radical Mastectomies.

2. Comparative study of prophylactic administration of tramadol, pethidine, ketamine & placebo on postoperative shivering.


4. Respiratory Support in Oncology Ward Setting: A Prospective Descriptive Setting.


7. Comparison of Different Anaesthetic Techniques For Intracavitatory Radiotherapy for Carcinoma Cervix.
**Ongoing**
1. Evaluating the correlation of serum levels of morphine and its metabolites on pain in cancer patients
3. Effect of Gender on Pain Perception and Analgesic Requirement In Patients Undergoing Exploratory Laparotomy And Surgery For Carcinoma Esophagus- A Randomized Control Trial.
4. Effect of pre-emptive duloxetine and methylcobalamin combination on postoperative pain relief and morphine consumption in oral surgeries: a randomized, double blind, placebo controlled study.
5. Redefining laryngeal mask airway Classic™ insertion with no-intraoral-index-finger technique.

**Medical Oncology**

**Ongoing**
3. Analysis of peripheral T-cell lymphoma, - the incidence, clinical characteristics, prognostic factors & treatment outcome.
4. Quantitative PCR for molecular remission status in CML patients.
5. Response to Docetaxel based vs. Anthracyclin based neoadjuvant chemotherapy in locally advanced breast cancer
6. Free light chain estimation in newly diagnosed multiple Myeloma patients
7. Molecular Genetics for prognostic evaluation of Acute Lymphoblastic Leukemia patients.
8. Expansion of adult human bone marrow and cord blood stem cells for reconstituting marrow & for programming into hepatocytes (ICMR, initiated from 1st October.2005) (Prof. Lalit Kumar- Co-Principal Investigator)

**Completed**
1. Comparison of efficacy of oral antibiotics (amoxicillin clavulanate + ofloxacin) with that of intravenous antibiotics (ceftriaxone + amikacin) in low risk febrile neutropenia in children.
2. Randomized comparison of ABVD with EVAP in newly diagnosed cases of Hodgkin’s lymphoma- protocol p-0402. Dr Atul Sharma
3. Pilot study of MPT regimen in newly diagnosed cases of Multiple Myeloma. Dr P N Mohapatra

**Medical Physics**

**Completed**
1. Contrast enhancement techniques for mammograms.
2. Dose reduction approaches in Head CT examination.

**Ongoing**
2. Doppler ultrasonography based tumour vascularity index and its use.
4. Patients’ dose determination in fluoroscopy guided RF ablation procedures.

**Radiodiagnosis**

*Completed*
1. Role of directional vacuum assisted large core breast biopsy in patients with previously equivocal biopsies for breast masses suspicious for malignancy.

*Ongoing*
1. MRI and PET CT evaluation of soft tissue sarcomas.

**Radiotherapy**

*Completed*
2. Role of Neoadjuvant chemotherapy followed by concurrent CT+RT in advanced ca hypopharynx.
3. A comparative study to assess the effect of benzydamine vs. chlorhexidine oral rinses on radiation-induced mucositis in head and neck cancer patients.

*Ongoing*
1. Randomized trial comparing IMRT vs. brachytherapy boost in early stage squamous cell carcinoma of the oropharynx.
2. To evaluate neoadjuvant chemotherapy followed by postoperative chemotherapy and assess the expression of multidrug resistance gene and cell cycle specificity in locally advanced gastric and gastro esophageal junction adeno carcinoma.
3. Clinical correlation of ER, PR and Her 2 neu expression and BRCA-I gene mutations in Indian Breast Cancer patients.
4. The correlation of VEGF and TGF Beta expression to clinico-pathological response, ER, PR and Her 2 Neu status in locally advanced breast cancer- A pilot study.
5. 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
8. Dosimetric studies in Interstitial and Intracavitary Brachytherapy of cancer cervix.
9. Validation of gel dosimetry as 3D verification tool for highly conformal radiotherapy techniques.
10. PET CT in predicting response to chemo radiotherapy in carcinoma cervix.

**Surgical Oncology**

*Ongoing*
4. Assessment of Skin involvement in Breast cancer patients with T4b lesions.
5. Prophylactic antibiotics in surgical oncology patients.
Collaborative Projects

Completed/Ongoing
1. Role of Minimally invasive guided therapy in treatment of focal liver Neoplasms. (with Departments of Anesthesiology and Radiodiagnosis).
2. Role of Minimally invasive guided therapy in treatment of lung metastasis (Department of Anesthesiology and Department of general surgery)
3. Role of Minimally invasive guided therapy in treatment of focal bone Neoplasms-Collaboration. (Department of Anesthesiology and Department of orthopaedics)
4. Molecular characterization of Indian patients with Glanzmann thrombosthenia (Lab. Oncology and Hematology department).
5. 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. (Lab. Oncology and Medical Oncology)
6. A phase I/II open-label dose-escalation study to determine the safety, tolerance, and preliminary activity of intravenous high-dose fluphenazine HCI in patients with advanced multiple myeloma. (Lab. Oncology and Medical Oncology)
7. Characterization of Testis specific sperm associated antigen 9 (SPAG9) gene expression and humoral immune response in various human cancers. (Lab. Oncology and NII)
8. Serial skin biopsy in chronic myeloid leukemia (CML) patients on Imatinib mesylate- protocol p-0404. (Dept. of Medical Oncology & Dept. of Pathology)
9. Whole Body MRI for detection of skeletal metastases in pediatric patients on small cell neoplasms: comparison with skeletal scintigraphy and FDG PET CT (Dept. of Medical Oncology, Radiology & Nuclear Medicine).
10. Role of imaging in diagnosis of orbital tumors (Dept. of Medical Oncology, Radiology, Ophthalmology).
11. Role of Neoadjuvant Chemotherapy in Gastric cancer (Dept. of Medical Oncology & GI Surgery)
12. “Evaluation of vascular permeability by Dynamic contrast enhanced- MRI & glucose metabolism by PET-CT scan as surrogate markers of angiogenesis in Osteosarcoma” (Dept of Medical Oncology, Radiology, Nuclear Medicine, Orthopedics and Pathology)
13. “Role of PET-CT in osteosarcoma for initial staging and chemotherapy response evaluation; comparison with conventional radiological modalities (MRI scan, CT scan, & Bone scan) and histopathological tumor necrosis” (Dept. of Medical Oncology, Radiology, Nuclear Medicine, Orthopedics and Pathology)
14. Role of PET-CT in staging and evaluation of early response to chemotherapy in patients of neuroblastoma and rhabdomyosarcoma. (Dept. of Medical Oncology, Nuclear Medicine and Pediatric Surgery).
15. “A randomized controlled trial comparing best supportive care, 5 FU + folinic acid and gemcitabine + oxaliplatin in management of unresectable allbladder cancer” (Dept. of Medical Oncology, Surgical Oncology, Radiation Oncology & Gastroenterology).
16. Role of Neoadjuvant Chemoradiotherapy in Gall Bladder cancer.(Dept. of Medical Oncology, GI Surgery, Radiation Oncology)
17. “An Open label, Non Randomized Phase II Trial of Oxaliplatin, Docetaxel, and Capecitabine in advanced esophageal and gastric adenocarcinoma” Protocol 0601 (Depts. of Medical Oncology, Surgical Oncology & Radiation Oncology).
18. Evaluation of percentage purity of anti cancer and anti microbial compounds using HPLC. (Dept. of Medical Oncology & Ocular Pharmacology)
19. Pilot study of p16, p54, k-ead, and c-erb2 expression in non neoplastic and gall bladder cancer epithelium. Funding 1.0 Lac- AIIMS- extra mural grant. Duration 2006- continuing (Depts. of Medical Oncology & Pathology)
20. T cell repertoire in plasma cell myeloma. Funding agency- DBT.13.0 lacs, 2007-continuing (Dept. of Medical Oncology & Laboratory Oncology)
21. Endothelial progenitor cells as a biomarker of disease in multiple myeloma. Funding agency- DBT.17.0 lacs, 2007-continuing (Dept. of Medical Oncology & Lab Oncology)
22. Assessment of multi drug resistance pattern in AML and response to therapy. Funding 1.9 Lac- AIIMS- extra mural grant. Duration 2006- continuing (Dept. of Medical Oncology & Lab Oncology)
23. Dose reduction in CT while, maintaining diagnostic confidence. (Medical Physics Unit & Deptt. of Radiology AIIMS).
24. Quantitative imaging study of breast cancer and its correlation with oxidative stress (Medical Physics Unit, Radiodiagnosis and Pharmacology)
25. Verification of CT displayed dosimetric parameter (CTDI) for various scanning protocol. (Medical Physics and Radiodiagnostics, Dr.BRA IRCH)
26. Quality control of PET/CT (Medical Physics, IRCH and Nuclear Medicine, AIIMS)
27. Study of physical parameters and quality assurance in Gamma Knife based radiosurgery with non-coplanar beam in the phantom. (Medical Physics, Radiology, Neurosurgery)
28. Comparative evaluation of CT and PET in assessment of efficacy of Radio frequency ablation of unresectable non-small cell lung cancer. (Departments of Radiology, Radiotherapy, Medical Oncology and Nuclear Medicine)
29. 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 Radiology, Medical Oncology and gynecology).
30. Validation of gel dosimetry as 3D verification tool in highly conformal radiotherapy techniques. (Dept. of Radiology, Neurobiochemistry and Radiotherapy).
31. Radiation Induced chromosomal aberration analysis and their use as biodosimetry (Nuclear Medicine and Radiation Oncology).
32. A multinational, multicenter open label active controlled randomized parallel group dose finding study to evaluate the efficacy and safety of two doses of AP 12009 in adult patients with recurrent high grade glioma, administered intratumorally as continuous high flow microfusion over a 7 day period every other week. (Neurosurgery and Radiation Oncology).
33. Concomitant Chemo radiation in advanced/ unresectable Head & Neck Cancer. (Medical Oncology, Radiation Oncology and ENT).
34. Randomized study of Concomitant Chemoradiation versus Radiotherapy alone for advanced and or unresectable Squamous Cell Carcinoma of Oropharynx and Nasopharynx. (Medical Oncology, Radiation Oncology and ENT).
35. 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. (Radiation Oncology and ENT)

36. 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.

37. Pre Operative Short course RT (25 GY/ 5 Fr) followed by Surgery for rectal cancer. (Surgical Oncology & Radiation Oncology).

38. Molecular analysis of FHIT (Fragile Histidine Triad) gene in Indian Female Breast Cancer patients (Department of Surgical oncology and Department of Biosciences, Jamia Milia Islamia, New Delhi)

39. Adjuvant Tamoxifen long against short (ATLAS) - Multi center international trial, Oxford, UK. (Surgical Oncology, Medical oncology & Radiation Oncology).

40. Study to evaluate the feasibility of neoadjuvant chemotherapy followed by postoperative chemoradiation in the management of locally advanced gastric and gastro esophageal junction tumors and to assess the expression of multi drug resistance gene. (Radiation Oncology, Surgical Oncology, Medical oncology & Pathology)

41. 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, Medical oncology, Surgical Oncology, Pathology, Gastroenterology, GI Surgery).

42. Prospective evaluation of quality of life in advanced stage cancer patients receiving short course palliative radiotherapy by using EORTC-QLQ-C15-PAL questionnaire module (Radiation oncology and anesthesia).

43. National Retinoblastoma Registry-Delhi site, a collaborative study under ICMR, New Delhi, India. (Radiation oncology and ICMR, New Delhi)

44. Evaluation of Curcumin in the management of advanced cancer cervix. (Departments of Radiotherapy, Gynecology, Biochemistry and Pathology)

PUBLICATIONS

Journals


14 Deo SVS, Raina V, Rath G, Sharma A, Shukla NK (Authors from AIIMS Trial Centre of Adjuvant Breast Cancer Trials Collaborative Group) Ovarian ablation or suppression in premenopausal early breast cancer: results from the international adjuvant breast cancer ovarian ablation or suppression randomized trial. J Natl Cancer Inst 2007; 99:516-25


Abstracts
12 Gupta V, Kumar S, Deo SVS, Shukla NK. Presented a paper on “Review of Surgical Management of Gall Bladder Cancer at a Tertiary care center” during the IHPBA conference held in Mumbai, Feb 2008.
16 Kar M, Deo SVS, Shukla NK, Thulkar S. Assessment of mandible in Oral cancer using 3D – CT scan, during the NATCON 2007 held at Ludhiana, sep-20-22.
17 Kumar P and Pandey AK. Updates in CT technology and cardiac application. Proceedings of “Updates in Medical Physics” and Annual Meeting of U.P.-Delhi Chapter of AMPI, 8th September 2007, AIIMS, New Delhi, page 20.


32 Singh M, Mishra S, Bhatnagar S. An Audit of routine clinical practice of blind insertion of peripherally inserted central catheters in surgical oncology patients. 46th Annual conference of Indian Society of Anaesthesiologist (Delhi Chapter) 7th-8th April, Page No. 96-97, Delhi.


**Chapters in Books/Monographs**

## PATIENT CARE

### FUNCTIONAL BED STATUS

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>FLOOR</th>
<th>Post EFC of Expanded Dr.BRA IRCH (current position of functional bed status)</th>
<th>Regular Beds</th>
<th>Number</th>
<th>Total</th>
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<tbody>
<tr>
<td>1.</td>
<td>Ground</td>
<td>Palliative Care</td>
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<tr>
<td>2.</td>
<td>1st</td>
<td>Surgical Oncology/Radiotherapy</td>
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<td>2026</td>
<td>46</td>
</tr>
<tr>
<td>3.</td>
<td>2nd</td>
<td>Medical Oncology/Radiotherapy</td>
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<td>16</td>
</tr>
<tr>
<td>4.</td>
<td>3rd</td>
<td>Private Ward</td>
<td>M.O SO RT</td>
<td>050505</td>
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<tr>
<td>5.</td>
<td>5th</td>
<td>ICUS.O.</td>
<td></td>
<td>0621</td>
<td>27</td>
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<tr>
<td>6.</td>
<td>7th</td>
<td>Medical Oncology</td>
<td></td>
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<td>27</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>TOTAL</strong></td>
<td></td>
<td>137</td>
<td>137</td>
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</tbody>
</table>

#### SHORT STAY/DAY CARE BEDS

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Number</th>
<th>Total</th>
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<tbody>
<tr>
<td>8.</td>
<td>Recovery S.O. (Gd. Floor)</td>
<td>04</td>
<td>04</td>
</tr>
<tr>
<td>9.</td>
<td>Aphaeresis (1st Floor)Recovery</td>
<td>0402</td>
<td>06</td>
</tr>
<tr>
<td>10.</td>
<td>Day Care MO (2nd Floor)</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>11.</td>
<td>Recovery S.O. (6th Floor)</td>
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<td>05</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td>45</td>
<td></td>
</tr>
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</table>

**GRAND TOTAL:** 182

### 1. Total O.P.D. Attendance

- New Patients registered: 8505
- New registration in various clinics: 13785
- Revisits: 66459

### 2. Total Admissions

- Regular: 4177
- Short (Day Care): 17358

### 3. Surgical Oncology (Major/Minor) Cases

- Major: 640
- Minor: 3287

### 4. ECG

- (Total): 2221

### OPD/ Clinics at IRCH

<table>
<thead>
<tr>
<th>No.</th>
<th>Name of the OPD/ Clinic</th>
<th>New Registration</th>
<th>Old registration</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Male</td>
<td>Female</td>
<td>Male</td>
<td>Female</td>
</tr>
<tr>
<td>1.</td>
<td>Bone &amp; Soft (Tissue)</td>
<td>151</td>
<td>87</td>
<td>516</td>
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<tr>
<td>2.</td>
<td>Breast Cancer Clinic</td>
<td>40</td>
<td>471</td>
<td>152</td>
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</table>

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<table>
<thead>
<tr>
<th>3. Chemotherapy Evaluation</th>
<th>1257</th>
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<th>11043</th>
<th>10224</th>
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<tbody>
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<td>4. Gastro-Intestinal Clinic</td>
<td>281</td>
<td>262</td>
<td>799</td>
<td>627</td>
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<td>5. Gynecology ‘A’</td>
<td>-</td>
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<td>-</td>
<td>994</td>
<td>1246</td>
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<tr>
<td>7. Head &amp; Neck Oncology-A</td>
<td>181</td>
<td>66</td>
<td>1003</td>
<td>292</td>
<td>1542</td>
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<td>8. Head &amp; Neck Oncology-B</td>
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<td>247</td>
<td>3485</td>
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<td>5591</td>
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<td>9. Lymphoma Leukemia</td>
<td>601</td>
<td>284</td>
<td>8632</td>
<td>3331</td>
<td>12848</td>
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<td>10. Ophthalmic Tumour Clinic</td>
<td>32</td>
<td>28</td>
<td>78</td>
<td>64</td>
<td>202</td>
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<td>11. Pain Clinic</td>
<td>622</td>
<td>678</td>
<td>1991</td>
<td>1719</td>
<td>5010</td>
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<tr>
<td>12. Pediatric Surgery</td>
<td>77</td>
<td>51</td>
<td>1205</td>
<td>702</td>
<td>2035</td>
</tr>
<tr>
<td>13. Radiotherapy Evaluation</td>
<td>2620</td>
<td>2034</td>
<td>4127</td>
<td>4098</td>
<td>12879</td>
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<tr>
<td>14. Surgical Oncology OPD</td>
<td>176</td>
<td>177</td>
<td>1561</td>
<td>2056</td>
<td>3970</td>
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<tr>
<td>15. Urology Malignant Clinic</td>
<td>187</td>
<td>32</td>
<td>916</td>
<td>73</td>
<td>1208</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td>7453</td>
<td>6332</td>
<td>35508</td>
<td>30951</td>
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</table>

Total New Registration= 13785

Total Revisits= 66459

Distribution of new patients according to place of residence (Total=8505)

<table>
<thead>
<tr>
<th>Place</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Assam</td>
<td>40</td>
</tr>
<tr>
<td>2. Arunachal Pradesh</td>
<td>01</td>
</tr>
<tr>
<td>3. Andhra Pradesh</td>
<td>04</td>
</tr>
<tr>
<td>4. Bihar</td>
<td>986</td>
</tr>
<tr>
<td>5. Chandigarh</td>
<td>4</td>
</tr>
<tr>
<td>6. Chattisgarh</td>
<td>4</td>
</tr>
<tr>
<td>7. Delhi</td>
<td>2917</td>
</tr>
<tr>
<td>8. Dadar Nagar Haveli</td>
<td>5</td>
</tr>
<tr>
<td>9. Daman and Diu</td>
<td>8</td>
</tr>
<tr>
<td>10. Gujrat</td>
<td>4</td>
</tr>
<tr>
<td>11. Goa</td>
<td>2</td>
</tr>
<tr>
<td>12. Haryana</td>
<td>984</td>
</tr>
<tr>
<td>13. Himachal Pradesh</td>
<td>38</td>
</tr>
<tr>
<td>14. Jammu &amp; Kashmir</td>
<td>62</td>
</tr>
<tr>
<td>15. Jharkhand</td>
<td>112</td>
</tr>
<tr>
<td>16. Kerala</td>
<td>09</td>
</tr>
<tr>
<td>17. Karnataka</td>
<td>3</td>
</tr>
<tr>
<td>18. Meghalaya</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>State</td>
</tr>
<tr>
<td>---</td>
<td>----------------</td>
</tr>
<tr>
<td>19.</td>
<td>Manipur</td>
</tr>
<tr>
<td>20.</td>
<td>Madhya Pradesh</td>
</tr>
<tr>
<td>21.</td>
<td>Maharashtra</td>
</tr>
<tr>
<td>22.</td>
<td>Nagaland</td>
</tr>
<tr>
<td>23.</td>
<td>Orissa</td>
</tr>
<tr>
<td>24.</td>
<td>Punjab</td>
</tr>
<tr>
<td>25.</td>
<td>Rajasthan</td>
</tr>
<tr>
<td>26.</td>
<td>Sikkim</td>
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<tr>
<td>27.</td>
<td>Tripura</td>
</tr>
<tr>
<td>28.</td>
<td>Tamil Nadu</td>
</tr>
<tr>
<td>29.</td>
<td>Uttar Pradesh</td>
</tr>
<tr>
<td>30.</td>
<td>Uttrakhand</td>
</tr>
<tr>
<td>31.</td>
<td>West Bengal</td>
</tr>
</tbody>
</table>

**Geographical Distribution (Other countries)**

<table>
<thead>
<tr>
<th></th>
<th>Country</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Afghanistan</td>
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<tr>
<td>2.</td>
<td>Bhutan</td>
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</tr>
<tr>
<td>3.</td>
<td>Iran</td>
<td>1</td>
</tr>
<tr>
<td>4.</td>
<td>Kenya</td>
<td>2</td>
</tr>
<tr>
<td>5.</td>
<td>Mauritius</td>
<td>1</td>
</tr>
<tr>
<td>6.</td>
<td>Nepal</td>
<td>34</td>
</tr>
<tr>
<td>7.</td>
<td>Pakistan</td>
<td>1</td>
</tr>
</tbody>
</table>

**ANAESTHESIOLOGY**

- ICU facilities for postoperative patients.
- Pain & Palliative Care Clinic is run twice a week in addition to the anaesthesiology related work.
- Home support to patients with advanced malignancies by NGOs and keeping monthly meeting with them to know follow up reports
- Providing critical care to patients of Radio therapy, Medical Oncology, and Surgical Oncology.
- Facility for Pediatric Radiotherapy.
- Anaesthesia for minor pediatric oncology procedures like Bone marrow biopsy, Central line insertion, Bone marrow Harvesting and others
- Facility for Pediatric radiological procedures under anaesthesia, Radio frequency ablation for liver, lung, and breast carcinoma.

**LABORATORY ONCOLOGY (Total=59904)**

<table>
<thead>
<tr>
<th>Test</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hemogram (Hb, TLC, Platelets)</td>
<td>47332</td>
</tr>
<tr>
<td>Peripheral Blood Smear</td>
<td>5331</td>
</tr>
<tr>
<td>Bone marrow aspirate and touch preparation</td>
<td>2703</td>
</tr>
<tr>
<td>Cytochemistry</td>
<td>521</td>
</tr>
</tbody>
</table>

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### MEDICAL ONCOLOGY
- A new look Day Care of 30 beds is active now.
- Fully functional transplant floor with 9 rooms.
- Fully functional 4 beds apheresis facility on 1st floor.
- Drug supplies to ward and OPD patients vastly improved.
- The department performed approximately 60 transplants in this year
- Full fledged clinical trials faculty has been initiated.

### Clinical Services

<table>
<thead>
<tr>
<th>Service</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Registrations (CTE)</td>
<td>2301</td>
</tr>
<tr>
<td>New Registrations (LL)</td>
<td>885</td>
</tr>
<tr>
<td><strong>Total New Registrations (CTE+LL)</strong></td>
<td><strong>3186</strong></td>
</tr>
<tr>
<td>Revisits (CTE)</td>
<td>21267</td>
</tr>
<tr>
<td>Revisits (LL)</td>
<td>11963</td>
</tr>
<tr>
<td>Chemotherapy in Daycare (Visits)</td>
<td>14043</td>
</tr>
<tr>
<td>OPD Chemotherapy</td>
<td>9234</td>
</tr>
<tr>
<td>Admissions in Ward and Daycare</td>
<td></td>
</tr>
<tr>
<td>(Daycare including BT, I/V fluids, Interventions)</td>
<td>4177+17358 = 21535</td>
</tr>
<tr>
<td>Transplants (Autologous/Allogenic)</td>
<td></td>
</tr>
<tr>
<td>OPD Procedures</td>
<td>3274</td>
</tr>
</tbody>
</table>

### Diagnostic and Therapeutic procedures (Total=3274)

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bone Marrow Biopsy</td>
<td>1028</td>
</tr>
<tr>
<td>Bone Marrow Aspiration</td>
<td>666</td>
</tr>
<tr>
<td>Cerebral Spinal Fluid for Cytology</td>
<td>26</td>
</tr>
<tr>
<td>Ascitic Tapping</td>
<td>251</td>
</tr>
<tr>
<td>Pleural Tapping</td>
<td>100</td>
</tr>
<tr>
<td>Intra Thecal Methoxerate</td>
<td>614</td>
</tr>
<tr>
<td>Skin Biopsy</td>
<td>8</td>
</tr>
<tr>
<td>Procedure</td>
<td>Count</td>
</tr>
<tr>
<td>---------------------------------------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>Catherization</td>
<td>2</td>
</tr>
<tr>
<td>Peripherally Inserted Central line Catheter</td>
<td>-</td>
</tr>
<tr>
<td>I/T MTX + CSF Cytology</td>
<td>337</td>
</tr>
<tr>
<td>PICC Removal</td>
<td>6</td>
</tr>
<tr>
<td>PICC Insertion</td>
<td>4</td>
</tr>
<tr>
<td>Foley’s Catherization</td>
<td>11</td>
</tr>
<tr>
<td>Bone Marrow Aspiration + CSF Cytology</td>
<td>15</td>
</tr>
<tr>
<td>Suturing</td>
<td>11</td>
</tr>
<tr>
<td>Pleural Tapping + Ascitic Taping</td>
<td>2</td>
</tr>
<tr>
<td>Bone Marrow Biopsy + CSF Cytology</td>
<td>33</td>
</tr>
<tr>
<td>Central Line Removal</td>
<td>17</td>
</tr>
<tr>
<td>Central Line Insertion</td>
<td>9</td>
</tr>
<tr>
<td>Central Line Suturing</td>
<td>-</td>
</tr>
<tr>
<td>Chest Drain Removal</td>
<td>1</td>
</tr>
<tr>
<td>Foley’s Catherization Removal</td>
<td>1</td>
</tr>
<tr>
<td>TIT</td>
<td>3</td>
</tr>
<tr>
<td>Mandibular Block</td>
<td>40</td>
</tr>
<tr>
<td>Ascitic Tapping + Bone Marrow</td>
<td>2</td>
</tr>
<tr>
<td>TIT + CSF Cytology</td>
<td>4</td>
</tr>
<tr>
<td>Punch Biopsy</td>
<td>-</td>
</tr>
<tr>
<td>I &amp; D</td>
<td>1</td>
</tr>
<tr>
<td>Epidural Catheter Insertion</td>
<td>1</td>
</tr>
<tr>
<td>Pleural Tapping + B.M. Biopsy</td>
<td>1</td>
</tr>
<tr>
<td>Bone Marrow Aspiration + I/T MTx</td>
<td>8</td>
</tr>
<tr>
<td>Bone Marrow Aspiration + B.M. Biopsy</td>
<td>30</td>
</tr>
<tr>
<td>Bone Marrow Biopsy + I/T MTX</td>
<td>1</td>
</tr>
<tr>
<td>CSF Cytology + I/T MTX + Cell Count</td>
<td>32</td>
</tr>
<tr>
<td>Hick Man’s Catheter Removal</td>
<td>2</td>
</tr>
<tr>
<td>Bone Marrow Biopsy + CSF Cytology + TIT</td>
<td>3</td>
</tr>
<tr>
<td>Bone Marrow Biopsy + CSF Cytology + Aspiration</td>
<td>1</td>
</tr>
<tr>
<td>Bone Marrow Aspiration + Hickman’s Removal</td>
<td>1</td>
</tr>
<tr>
<td>Bone Marrow Biopsy + CSF Cytology + Aspiration + IT</td>
<td>1</td>
</tr>
<tr>
<td>Foley’s Catherization/ LP</td>
<td>1</td>
</tr>
</tbody>
</table>
Laboratory Services (Total=1021)

- Cytogenetic Reports: 403
- Cryo-preservation/Store at 80°C: 45
- Storage of PBSC at 4°C: 47
- Infusion of PBSC: 65
- Viability of PBSC: 77
- MNC: 109
- CD-34: 121
- Allogenic/BMT/PBS CT: 5
- PCR: 121
- PBSC: 28

MEDICAL PHYSICS

Departmental statistics (Total=4432)

- No. of blood bags irradiated: 1949
- Quality Assurance tests done on x-ray machines: 1643
- QA test done on film processor at room no. 10 (x-ray): 408
- QA test done on film processor at room no. 46 (US, Mammo): 73
- Radiation output measurements in x-ray units: 201
- No. of experiments on CT scanner & US: 9
- Patient dose measurement by Radiographic films: 2
- No. of experiments in US Doppler: 5
- Radiation protection survey of x-ray installation: nil
- A test done room no. 77 (main hospital)(x-ray): 131
- Advice in inadvertent exposure in pregnancy: 1
- 3D Reconstruction of CT Images in Patients: 10

RADIODIAGNOSIS

The analysis of patients care activities are as under (Total=20760)

<table>
<thead>
<tr>
<th>S. No</th>
<th>Name of Procedure</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>X-rays (Routine)</td>
<td>11267</td>
</tr>
<tr>
<td>2</td>
<td>Ultrasound</td>
<td>3382</td>
</tr>
<tr>
<td>3</td>
<td>CT scan</td>
<td>4780</td>
</tr>
<tr>
<td>4</td>
<td>Mammography</td>
<td>530</td>
</tr>
<tr>
<td>5</td>
<td>Intervention/IVP</td>
<td>807</td>
</tr>
</tbody>
</table>
RADIOThERAPY

Departmental statistics (Total=168872)
1. Total cases on Radiotherapy 44306
2. Total fields on Radiotherapy 111776
3. Cases on Brachytherapy 927
4. Treatment Planning and Simulations 4543
5. 2D and 3D distribution 388
6. Compensators 487
7. Shielding blocks, immobilization devices, Moulds 1416
8. Radiation Review clinic 5029

SURGICAL ONCOLOGY

Facilities available in department

1) Minor Operation Theater.
Diagnostic and minor therapeutic procedures including Lymph node biopsy, punch/ trucut biopsy, excision of Skin/Oral tumors, soft tissue tumors, feeding jejunostomy, colostomy, insertion of Hickman’s catheter / chemo ports for long term Chemotherapy are available in the Minor O.T.

2) Endoscopy Services (Diagnostic & Therapeutic):
Diagnostic Endoscopy: Fibre optic upper G.I.endoscopy, side viewing duodenoscopy, Colonoscopy, Sigmoidoscopy, Bronchoscopy, Cystoscopy, Nasopharyngo laryngoscopy and laparoscopy.

Therapeutic Endoscopy: Stricture dilatation, Intra luminal Radiotherapy, Stenting and Percutaneous Endoscopic Gastrostomy.

3) Major Cancer Operation Theater
Facilities available for all major cancer Surgeries including radical resection and reconstruction of tumors involving head & Neck, GI tract, Breast, Bone and Soft tissue, Gynaecological malignancies and Thoracic tumors. Advanced reconstructive surgical procedures including microvascular free tissue transfer are also available.

Advanced state of art technologies like LASERS, CUSA, Harmonic Scalpel and Intra Operative Radiotherapy are also available.

Total no. of minor operations & endoscopic procedures performed : 3287
Major Cancer Operations - Total No. Performed : 640

Community Service

Prof. G.K. Rath
• Talk on Cancer awareness at Indo-French Technical Association at New Delhi on 19 Oct 2007.

Prof. P.K. Julka
• AIR Phone-in Program on Cancer in Women, 11th December 2007.
Laboratory Services (Total=1021)

- Cytogenetic Reports: 403
- Cryo-preservation/Store at 80°C: 45
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</tr>
<tr>
<td>5</td>
<td>Intervention/IVP</td>
<td>807</td>
</tr>
</tbody>
</table>
• AIR Phone-in-Program on Cancer in Children, 7th November 2007.
• Expert on Cancer Causes and Management Program on Delhi Doordarshan (Krishi Darshan), 17th October 2007.
• AIR Phone-in-Program on Breast Cancer, 12th October 2007.
• Breast Cancer Diagnosis and Management - Total Health Program, on Delhi Doordarshan National, 12th October 2007.
• AIR Phone-in-Program on Cancer Prevention and Management, 20th August 2007.
• AIR Phone-in Program on Lung Cancer, 2nd April 2007.
• Article on “Cancer in One Breast? Get MRI on the Other” in “Times of India”, 2007.
• Article on “Stress, Cancer Deadly Combo” in “Times of India”, 15th April 2007.
• Panelist in MTNL Perfect Health Mela at New Delhi, 1st November 2007.

Prof. N.K. Shukla
• Involved in care and advice to the ostomates (patients of colostomy, ileostomy and Urostomy)

Dr. B K Mohanti
• Delivered a Live TV programme on ‘Head and neck cancer in India’, by Door Darshan, Delhi, on 16 September 2007

Dr. D N Sharma
• Participated in a Live Show on Sahara TV (DD News) on Telemedicine in Cancer, Aug 2007

AWARDS AND HONOURS

Dr. G.K. Rath delivered the Foundation Day Oration of Sanjay Gandhi Postgraduate institute of Medical Sciences, Lucknow, 14 December 2007; Dr. KC Borooah Foundation day Oration of Dr. B Borooah Cancer Institute (Regional Cancer Centre), Guwahati, 11 October 2007; Chairman of Steering Committee of National Cancer Registry Programme, ICMR; ICMR task force on cancer management guidelines; The project review group of the project of ministry of Information and Technology, Govt. of India on “Design and development of Electronic portal imaging device” for radiation therapy” being carried out by CSIO and TSG integration; Ethics Committee, Institute of Cytology and Preventive Oncology (ICPO), ICMR; Member of Governing Bodies of two Regional Cancer Centres (Bikaner, Allahabad), Governing Body of Delhi State Cancer Institute, New Delhi; Subgroup of Ministry of Information and Technology, Govt. of India to review the progress of the Jai Vigyan project, Ministry of Science and Technology, Govt. of India on “development & deployment of 6 MV Medical Linear Accelerator; Standing Committee on Radiotherapy Development Programme, Ministry of Health and FW, Govt. of India; Inspection team of National cancer Control Programme (NCCP), Min of Health and FW, Govt of India for the purpose of financial assistance under RCC Scheme for Govt Medical College and Hospital, Jammu, 6-7 November 2007; Inspection team National cancer Control Programme (NCCP), Min of Health and FW, Govt of India for the purpose of financial assistance under RCC Scheme for Cancer Hospital, Agartala, 5-6 January 2008; Inspection team National cancer Control Programme (NCCP), Min of Health and
FW, Govt of India for the purpose of financial assistance under Oncology wing development programme, Naga Hospital Authority, Kohima, 12-13 October 2007; National Advisory Committee For 14th World Conference on Tobacco or Health; Member Rotary Cancer foundation, Delhi; Member of the team of Department of Science and Technology, Govt of India to review the progress of the Project on Linear accelerator, CT Simulator and Telemedicine at the Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow, 21 April 2007; Member of the Indian delegation of Indian Council of Medical Research for the Indo-German conference on collaboration in cancer research, Heidelberg, 9th - 15 July 2007; Advisory Committee, Dr. BRA IRCH; Core Committee Member of the projects under the North East Initiative of the Indian Council of Medical Research; 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; Safety Review Committee for Application of Radiation (SARCAR), Atomic Energy Regulatory Board(AERB), Govt. of India; 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; Scientific Advisory Group for the division of Non communicable diseases, ICMR, New Delhi; External expert for the selection committee of KGMU, Lucknow for the post of Reader and Lecturer of medical physics on 10 June 2007; External examiner for PhD at PGIMER, Chandigarh, 2nd April 2007, MD(Radiotherapy), KGMU, Lucknow, 26th April 2007, MD(Radiotherapy), SKIMS, Srinagar, 7-8 May 2007, MD(Radiotherapy), SMS Medical college, Jaipur, 2-3 July 2007; Appraiser for DNB, Radiotherapy at Dharmashilla Cancer Hospital, 26 July 2007; Member of committee on formation of recruitment rules at Delhi State Cancer Institute (DSCI), Delhi, 22 September 2007; External expert of the selection committee to select faculty members and medical physicist, PGIMER, Chandigarh ,13 November 2007; External Expert of the Committee to suggest development of the Department of Radiation Oncology, Chittaranjan National Cancer Institute(CNCl), Kolkata, 10 January 2008

He is Advisory Editor of Journal Academy of Hospital Administration; Member of Editorial Board of Indian Journal of Chest Disease and Allied Science, Indian Journal of Cancer, International Journal of Biosciences and Technology; Member of Consulting Editors Journal of Cancer Research and Therapeutics

Prof. P.K. Julka is IP University Inspection of RGCI for RT Technologist Course (B.Sc.), Delhi, 2007; Examiner for DNB (Diplomate of National Board) at RGCI, 2007;M.D. Radiotherapy, Rohtak Medical College, 2007, M.D. Radiotherapy, SGPGI Lucknow, 2007; Member, ICMR Task Force for Cancer Research Projects in the Country; Member, Specialty Board, National Board of Examination to form curriculum for DNB Radiotherapy in the Country; P K Halder Oration at AROI Conference on Translational Research, 2007; Member, Editorial Board Journal of Cancer Research and Therapeutics.

Prof. NK Shukla reviewed research papers published in Indian Journal of Medical and Pediatric Oncology; received “Vocational Service Excellence Citation Award” for 2008 by Rotary Club of New Delhi on 14th Feb. 2008; received “Rashtriya Gaurav award” by India International Friendship Society, 27th November 2007; Appointed as appraiser by the National Board of Examinations to assess the performance of DNB candidates and Infrastructure facilities at Dharmshila Hospital & Research Center. He inspected the hospital and under took the assessment of DNB candidates on
21st Feb. 2008; acted as papers setter, thesis appraiser and external examiner for MCh course of Gujarat Cancer Research Institute, Ahemdabad on 5th August 2007 and KGMC University, Lucknow on 15th October 2007; External expert in the Selection committee for the faculty post in Surgery of PGI, Chandigarh on 12.10.07

Prof. B. K Mohanti was nominated as National Faculty for the Institute of Palliative Medicine, Calicut, by Indian Association of Palliative Care; Reviewer for Anti-cancer Drugs, Annals of Oncology, National Medical Journal of India; Reviewer of thesis for MD examination in Radiotherapy for SKIMS, Srinagar; HP University, Shimla

Dr. SVS Deo appointed as Examiner for DNB Surgical Oncology for RGCI, New Delhi and GCRI, Gujarat; Expert to review projects for funding by International Union against Cancer (UICC), Geneva; Expert to review scientific abstracts for UICC world cancer congress to be held in 2008.

Dr. Sushma Bhatnagar won Best Paper award on “An Audit of routine clinical practice of blind insertion of peripherally inserted central catheters in surgical oncology patients in 46th Annual conference of Indian Society of Anaesthesiologist (Delhi Chapter) on 7th-8th April, 2007, Delhi; Honorary faculty for the IAPC certificate course; Co-ordinator of IAPC certificate course at IARCH, AIIMS

Dr. Pratik Kumar was nominated Co-Director and faculty and faculty at Regional College on Medical Physics-2007 organized by International Centre for Theoretical Physics (ICTP), Italy and Bhabha Atomic Research Centre (BARC) Mumbai. He was conferred Rashtriya Gaurav Award - 2007 by India International Friendship Society. He was nominated as member, Editorial Board of International Journal of Biosciences and Technology; Elected member of executive committee of AMPI; Member, Editorial Board, Journal of Medical Physics; Member of Electro-medical Equipment Sectional Committee, BIS, New Delhi; Secretary, Northern Chapter of Association of Medical Physicists of India (AMPI) and referee for Journal of Medical Physics; Organized a conference on “Updates in Medical Physics” at AIIMS on 8th September 2008.

Dr. V. Subramani underwent Observer training on Proton Therapy for 1 week at M.D. Anderson Cancer Centre, University of Texas, USA from 25th -30th July, 2007; Scientific Secretary and editor of the souvenir in 1st SAARC & XI National conference of Association of Radiation Therapy Technologists of India (ARTTICON) which was held at AIIMS, New Delhi, India, on October 5-7, 2007; Expert for Technical evaluation of conventional simulator, 3D Treatment planning system and C-arm machines procurement by Dr.B.Borooah Cancer institute, Guwahati, December, 2007; Expert in the selection of medical physicist for LNJP Govt Hospital, New Delhi, March, 2008

SIGNIFICANT EVENTS

Anesthesiology
- Unit of anesthesiology organized 7th Foundation Course on Palliative Care on 16th - 17th Feb 2007 for Medical Practitioners and Nursing Staff treating Cancer patients in & around Delhi.
- Organizing 16th International Conference of Indian Association of Palliative care.
- IRCH has started IAPC certificate course in Palliative Care.
Radiotherapy
- Started the innovative technique of interstitial brachytherapy in liver tumors.
- Started RFA in Kidney tumors.

Surgical Oncology
- 5th floor new Surgical Oncology ward was made functional on 25th May 2007.
- New ICU complex in 5th floor was made functional on May 9th 2007.
- 6th Floor New OT Complex was made functional on May 9th 2007.
- Dr. N.K. Shukla acted as an external examiner for the M.S. Surgery of PGI Chandigarh.

VISITING SCIENTIST
1. Prof. Ion Maddocks The first prof. of Palliative Medicine visited IRCH and interacted with chief IRCH and other faculty.
2. Dr. Alvaro Martinez, Radiation Oncologist from William Beaumont Hospital, USA
3. Dr. Minesh Mehta, Radiation Oncologist from University of Wisconsin, Madison, USA
4. Dr. Shankara Narayanan Radiation Oncologist from IARC France
5. Dr. Sunil Upadhyay, Radiation oncologist from Hull and East Riding Hospital, UK

ADMINISTRATION
Chief: Professor G.K. Rath
Admin. Officer: Sh. R. Simon
Total No. of Staff of Dr. BRAIRCH including Faculty:
Faculty: 20
Grp. A & B: 38
Tech. Staff: 68
Nursing Staff: 179
Resident Staff: 39
(SR, JR)
Stores Staff: 05
Ministerial Staff: 23
Grp. D Staff: 87
Outsourced Sanitation Staff: 155
Outsourced Security Staff: 51½ duties per day
Outsourced Data Entry Operators: 08

DELHI CANCER REGISTRY
Scientist VI: Dr. B.B. Tyagi

FINANCE
Accounts Officer: Sh. C.L. Raina
Accounts Officer: Sh. D. R. Bellani

STORES
Asst. Store Officer: Sh. Narender Kumar
**10.5 Neurosciences Centre**

**Chief**  
Hari Hara Dash

**NEUROANAESTHESIOLOGY**

**Professor and Head**  
Hari Hara Dash

**Professor**  
Parmod K. Bithal

**Additional Professor**  
Arvind Chaturvedi

**Associate Professor**  
Rajendra Singh Chouhan

**Assistant Professors**  
Mihir Prakash Pandia  
Girija Prasad Rath  
Hemanshu Prabhakar

**EDUCATION**

**Postgraduate Teaching**

1. Six MD-Anaesthesiology students from Anaesthesiology department, AIIMS received neuroanaesthesiology training in the department, as an integral part of their curriculum.

2. Ten Senior Residents (06 from Department of Anaesthesiology, AIIMS & 04 from Bhim Rao Ambedkar Institute Rotary Cancer Hospital received training in Neuroanaesthesiology for variable periods as a part of interdepartmental rotation on mutual exchange basis.

3. Thrice a week (Mondays, Tuesdays, Saturdays) Seminars, Journal club and case presentations (For one hour at a time) were organized as a part of departmental teaching programme till Dec. 2007. Since Jan. 2008, once a week (Saturdays) Seminars, Journal club and case presentations were organized for 2½ hours at a time.

**Short Term Training**

1. Dr. Zahirul Islam from Apollo hospital, Dhaka, Bangladesh underwent training in Neuroanaesthesiology & Neurointensive care at our department (From 01/04/2007 to 04/05/2007).

2. Dr. M. M. Masum-ul-Haque from Apollo hospital, Dhaka, Bangladesh came to the department for three months training in Neuroanaesthesiology & Neuro-intensive care (From 15/05/2007 to 14/08/2007).

3. Dr. R. Angral, Dr. M. Katoch, Dr. Poonam, Dr. Andlab and Dr. S. Bhati from GMC, Jammu visited our neurointensive care facility for one week each between 21/01/2008 to 02/02/2008.

4. Dr. A. K. Jain visited the department for pain management training from 14/03/2008 to 28/03/2008.
National & International Conferences
The department faculty and residents attended 9 conferences (5 National and 4 international) and two Symposia. Nine lectures (7 in national conferences and 2 in international conferences) were delivered by faculty members and 7 (5 international + 2 national) research papers were presented by faculty members and senior residents in conferences.

RESEARCH

Departmental Projects

Completed
1. Stellate ganglion block as a treatment option for refractory cerebral vasospasm following aneurysmal subarachnoid haemorrhage.
2. A comparison of three anaesthetic techniques used for transsphenoidal pituitary surgery.
3. A randomized, double blinded comparison of ondansetron, granisetron and placebo for prevention of postoperative nausea and vomiting after supratentorial craniotomy.

Ongoing
4. Retrospective analysis of neurological outcome following intracranial aneurysm surgery.
7. A comparative evaluation of Laryngeal Mask Airway (LMA) and Endotracheal Tube (ETT) use during neuroradiological procedures.
8. Comparative study between early and delayed extubation after transoral odotoidectomy and posterior fixation.

PUBLICATIONS

Journals


PATIENT CARE

Perioperative anaesthetic Care
i) Neurosurgical operations (Total–2666) = Elective (1848) + Emergency (818)
ii) Neuroradiological procedures (Total–444) = Diagnostic (299) + Therapeutic(145)

Neuro-Intensive Care Unit
Intensive care management of 2497 patients (2357 neurosurgical and 140 neurologic patients) was performed.

Pain clinic
A total of 745 patients (170 New and 575 Old) were seen in the O.P.D. 132 of them were treated with nerve blocks in the operation theater.

AWARDS AND HONOURS
1. Dr. H. Prabhakar was elected member of executive committee of Indian Society of Neuroanaesthesiology and Critical Care (ISNACC) at the 9th Annual Conference of the Indian Society of Neuroanaesthesiology and Critical Care (ISNACC) held at Hyderabad (A.P.) in Feb. 2008.
2. Dr. V. Jain won the best paper award for his poster presentation on the research article entitled “Effect of stellate ganglion block on refractory cerebral vasospasm” at the Annual Meeting of the American Society of Anesthesiologists held at San Francisco, California from 13 – 17 Sept. 2007.
3. Dr. V. Jain won the second prize for best paper award for his poster presentation on the research article entitled “A randomized, double blinded comparison of ondansetron, granisetron and placebo for prevention of postoperative nausea and vomiting after supra-tentorial craniotomy”, at the 9th Annual Conference of the Indian Society of Neuroanaesthesiology and Critical Care (ISNACC) held at Hyderabad (A.P.) in Feb. 2008.
4. Department of Neuroanaesthesiology was awarded organisation of “Asian Conference of Neuroanaesthesiology and Critical Care” in the year 2010.

VISITING SCIENTISTS
Dr. Sanjit Narang, a consultant anaesthesiologist from USA visited the department and delivered a lecture.
EDUCATION
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.

Organized Clinical Appraisal Seminars on
1. Clinical Meeting of Hazard Ratio at AIIMS on 4th August 2007
2. Kaplan-Meier Curve : Primer for clinicians at AIIMS on 25th August 2007

CME

Lectures delivered
“Management of Advanced PD” delivered at the 1st Educational course of AO Section of Movement Disorders Society, Varanasi, March 2008.

“Approach to chronic meningitis” lecture delivered at Tropical Neurology subsection of Indian Academy of Neurology, Bikaner, March 2007.


“How to Teach Evidence Based Clinical Practice Workshop”, McMaster University, Hamilton, Canada: 24th to 29th June 2007.

“Meet the Professor Programme” at AFMC, Pune on 21st July 2007.

Invited to participate in the Annual Meeting of the South Asian Cochrane Network (SACN) Site Coordinators held at Ramaratnam Epilepsy Foundation held at Chennai on 22 August 2007.

Stroke Subgroup Meeting at the Annual Conference of Indian Academy of Neurology, Mumbai on 5th October 2007.


“Specific treatment strategies for acute stroke’ and also conducted the “teaching program” for the medical students of Kanpur Medical College “Stroke and Seizures”. International Update in Epilepsy held in Feb, 2008, at Delhi.

“Synthesizing the program” in the ICMR Stroke Surveillance Workshop held in November, 2007, in Delhi at ICMR headquarters.

“Hyperacute thrombolysis for acute ischemic stroke in the developing countries” at the first American Science Academy conference held in collaboration with Indo US Science and Technology Forum, Govt. Of India at Irvine, California, in 2007.

“Diagnosis of Brain Death” at the National symposium on “Brain Death” held at AIIMS, in Mar, 2008.

“Secondary Prevention of Ischemic Stroke” at the APICON, held in Goa, in 2007.

“Stem Cell Therapy in Stroke: Hope or Hype” at the National Conference of Hematology and Satellite CME on Stem Cell Therapy, held at AIIMS, in 2007.

Acute Interventions in Cardio Embolic Stroke held under the auspices of Escorts Medical Center in the International Conference on Acute Interventions for Stroke, Jan, 2008.


“Stroke and Seizures” in International Update in Epilepsy held in Feb, 2008, at Delhi.

“Synthesizing the program” in the ICMR Stroke Surveillance Workshop held in November, 2007, in Delhi at ICMR headquarters.

“Management of Hemorrhagic Stroke” at the First Indo–Pak Colloquium on Neurosciences, held at PGIMER, Chandigarh in 2007.

“Secondary Prevention of Ischemic Stroke” at the APICON, held in Goa in 2007.
33. Vascular Dementia 4th Asia Pacific Conference Against Stroke (APCAS 2007), New Delhi, India. 29th Mar- 1st Apr 2007
34. Intractable epilepsy Video presentation. ECON, 2007, Mumbai, 3-4 Oct 2007
35. 4th Asia Pacific Conference Against Stroke (APCAS 2007), New Delhi, India. 29th Mar- 1st Apr 2007
37. “Chronic Meningitis”, CME-XIX, Neurosciences update, Sant Parmanand Hospital, 3rd Jun 2007
38. “Workshop on Strategies in Medical Education”, AIIMS, New Delhi, India. 1-3 Aug. 2007
40. “Care of unconscious patients” Neurosciences update, AIIMS, New Delhi, 15-16 Oct 2007
42. “Common Sleep Disorders”, Department of Neurology, Kota Medical College, Kota. 9th Feb 2008

RESEARCH

Funded Projects

Completed
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. Prof. M. Behari; Funding Agency: Clinirx; Duration: 1 year; Total Funds: Rs 8.0 lakhs
2. Intravenous autologous bone marrow stromal cells (MSC) or mononuclear cells (MMC) for patients with acute ischaemic stroke (Pilot phase). Prof. K. Prasad; Funded by: Department of Biotechnology, Govt. of India.

Ongoing
1. Transplantation of human retinal pigment epithelial (hRPE) cells in the 6-OHDA lesioned rat model of Parkinson’s disease. Prof. M. Behari; Funding Agency: DBT; Duration: 3 years (2006-2008); Total funds: Rs 42.97 lakhs.
2. Motor responses to noxious and non noxious stimuli in spinalized humans: role of electromagnetic stimulation. Prof. M. Behari; Funding Agency: DST; Duration: 3 years (2005-2007); Total Funds: Rs 7.95 lakhs
3. Identification of novel gene(s) in familial Parkinson’s disease. Prof. M. Behari; Funding Agency: DBT; Duration: 3 years (2007-2009); Total Funds: Rs 1.98 lakhs

4. Protocol OV-1003 Safety and Efficacy of Melperone in the Treatment of Patients with Psychosis Associated with Parkinson’s disease. Prof. M. Behari; Funding Agency: Ovation Pharma; Duration: 3 years (2007-2009); Total Funds: Rs 22.0 lakhs

5. A Multi centre, randomized, double blind, placebo and entacapone controlled, Parallel group study of efficacy, safety and tolerability of E2007 in Levodopa treated Parkinson’s Disease and patients with motor fluctuations. Prof. M. Behari; Funding Agency: Eisai; Duration: 3 years (2007-2009); Total Funds: Rs 23.0 lakhs

6. Autologous intra-arterial infusion of bone marrow mononuclear cells for static encephalopathy with special reference to cerebral palsy. Prof. M.V. Padma; Funding Agency: DST; Total Funds: Rs. 23.0 lakhs.

7. Normobaric Oxygen Therapy for Acute Ischemic Stroke: A pilot study in Indian patients. Prof. M.V. Padma; Funding Agency: ICMR; Total Funds: Rs 20.0 lakhs.

8. 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. Dr. M. Tripathi; Funding Agency: DBT; Total Funds: Rs 30.0 lakhs.


10. Mitochondrial variation and common founder for the Friedreich ataxia in the Indian population. Dr. Achal Srivastava; Funding Agency: ICMR; Duration of the Project: 3 years (Nov 2007-Oct 2010); Total Funds: Rs 4.5 lakhs

11. Intravenous autologous bone marrow derived stem cell therapy for patients with acute ischemic stroke: A multi-institutional project. Dr. Achal Srivastava; Funding Agency: DBT; Total Funds: Rs 19.0 lakhs

12. Mobilization of stem cells using GCSF for acute ischemic stroke: a randomized clinical trial. Dr. Achal Srivastava; Funding Agency: DBT; Total Funds: Rs 25.0 lakhs

13. Autosomal Dominant Hereditary ataxias and development of a locus specific disease database(LSDB). Dr. Achal srivastava; Funding Agency: CSIR; Duration of the Project: 5 years; Total Funds: Rs 1.5 crore.

**Departmental Projects**

1. Public perception of stroke, knowledge of risk factors and treatment
2. Risk Factors analysis of Stroke: case control study
3. Awareness of stroke and risk factors in stroke patients
4. Non-epileptic seizures in villagers
5. Evoked Responses in Hereditary Ataxias
6. Nerve Conductions in ADCAs
7. Autonomic Functions involvement in Genetically Confirmed Spinocerebellar ataxias
8. Predictors of time to seizure occurrence in patients admitted for VEEG
9. Functional MRI of speech disturbance in Parkinsonism
10. Sleep disturbance in TBM
11. Treatment of acute ischeamic stroke with transcranial Doppler

AIIMS 2007-2008 / 565
12. Parkinson’s disease in women
13. Psychological profile in intractable epilepsy patients undergoing surgery

**Collaborative Projects**


2. 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 of United Kingdom*

3. Brainsgate- Sphenopalatine ganglion stimulation for Vascular Dementia- (Brainsgate)
   Intravenous autologous bone marrow stromal cells (MSC) or mononuclear cells (MMC) for patients with acute ischaemic stroke (Pilot phase) DBT.

4. Mobilization of stem cells using GCSF for acute ischemic stroke: a randomized clinical trial” DBT.

5. STICH II- *Funded by: Medical Research Council of United Kingdom*


**PUBLICATIONS**

**Journals**


Abstracts

Chapters in Books
8. Tripathi M. Episodic loss of consciousness—Manual of Medical Emergencies. 3 rd edition – Editor Dr. Ashok Grover, Dr. Vinay Aggarwal, Dr. Prakash Gera, Dr. Rajiv Gupta 2007; 618-628.
11. Tripathi M. Diagnosis of Dementia, Published in—First Asian and Second National Medical Students’ Conference, Pune, Moving Academy of Medicine and Biomedicine. 2008; 42-44.

PATIENT CARE
• Parkinson’s disease awareness program
• Facility available for botulinum toxin for dystonia and spasticity intrathecal baclofen for spasticity and deep brain stimulation for Parkinson’s disease
• Outdoor: Total Old and New Patients 58,952

Procedures done in EMG/EEG lab.

<table>
<thead>
<tr>
<th>Procedure</th>
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<td>Evoked Potentials</td>
<td>114</td>
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<td>NCV – EMG</td>
<td>2112</td>
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<td>QST</td>
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</tr>
</tbody>
</table>

AIIMS 2007-2008 / 569
Community Services/Camps
The department of Neurology organized following patient awareness programmes:
1. Parkinson’s Disease : April 2007
2. Epilepsy : Nov 2007
3. Headache : August 2007

The faculty members routinely give talks on radio and television on neurological disorders like migraine, Parkinson’s Disease, Epilepsy, Stroke, Myasthenia gravis, Muscle disorders etc.

AWARDS AND HONOURS

Prof. M. Behari President of Parkinsonism and Related disorders Awareness Network (an NGO for parkinsonism patients) ; Invited as Liason delegate between National Neurological Association and the International Movement Disorders Society, Vienna; Invited Consultant to on international research project on SPECT study in early dementia, IAEA, Vienna meeting held from 19th – 22nd Nov, 2007; Invited Member to attend meeting on collaborative project of DST – ILTP Russia Research grant held from 12–21st Sept, 2007 at Moscow; Appointed as Inspector by MCI for Inspection of various Medical colleges; Invited faculty to attend Advisory Board meeting held from 18–19th Oct, 2007 in Singapore; Appointed as member of the Trial Committee and act as the Country coordinator (Consultant)-Phase III Program in fluctuating Parkinson’s Disease of Eisai Ltd, London.

Prof. K. Prasad was appointed as Director, Clinical Epidemiology Unit, AIIMS, New Delhi.

Prof. M.V. Padma was awarded the ACHANTA LAXMIPATHI ORATION for the year 2006-2007 by the NAMS; awarded the Fellowship to the NAMS (FAMS) by the National Academy of Medical Sciences for the year, 2007; Selected to be the NATIONAL CO-ORDINATOR for the SITS-MOST-NEW, INDIA Registry for “thrombolysis program in AIS” for India; Invited to represent India by the INSA, for the Indo-US Science and Technology Conference held at Irvine California; Awarded the Travel Fellowship for conducting the research on feasibility of collaborative program between Neurosciences, Harvard (MGH) Boston and AIIMS, by the IUSSTF, Govt. of India, between July 7th to the 18th of 2007; Guest of Honor and delivered the public oration for the year, 2007 in DMC, Ludhiana.

Dr. M. Tripathi was admitted to the FACULTY OF 1000 by the International league against epilepsy; Designated TASK FORCE leader in the ILAE disabilities in Epilepsy section; Received the young investigator award for the AOEC held in Xiamen China for the work on Intractable epilepsy and its surgery in children; Appointed as a member of the National Task Force on Stem Cell Therapy by the Dept of Biotechnology, Govt of India.

Dr. Achal Srivastava elected as Treasurer for Asian-Oceanian Congress of Neurology, New Delhi; elected as Co-Treasurer for Asian Oceanian Parkinson’s Disease and Movement Disorder Congress, New Delhi; elected as a Co-Organizing Secretary for Annual Conference of Indian Epilepsy Society.
Neurosurgery

Professor and Head
BS Sharma

Professor
AK Mahapatra [on deputation]

Associate Professor
SS Kale
P Sarat Chandra
Ashish Suri
Aditya Gupta (on leave)

Assistant Professor
Rajender Kumar
Manmohan Singh
Manish Singh Sharma

Trauma center
Deepak Kumar Gupta
Deepak Aggarwal
Sumit Sinha
GD Satyarthee

EDUCATION
• MCh program: Post MS: 3 years, Post MBBS: 6 years
• Visiting fellows: During the period 2007-2008 8 fellows attended the dept of Neurosurgery for observership from India and Abroad
• Experimental lab: Was fully functional for microneurosurgery and neuroendoscopic training.

Continuing Medical Education
• Xth Annual Microneurosurgery and Spine workshop. Feb 2008
   Chairman: Prof BS Sharma, Organizing Secy: Dr P Sarat Chandra
• First AIIMS Radiosurgery update, April, 6-8, 2007 Chairman: Prof BS Sharma, Organizing Secy: Dr Aditya Gupta
• Hands on Spine workshop for staff and residents: Neurosurgery Lab
• Hands on Endoscopy workshop for staff and residents: Neurosurgery Lab

Invited Guest lectures
• Sarveshwari Memorial Oration: Prof Brian Brophy, Director, Royal Adelaide Hospital, Australia. Topic: Trigeminal Neuralgia
• Prof Peter Black: Professor and Director, Harvard University, Boston. Topic: Intraoperative MR imaging

Lectures delivered

• **Dr Deepak Aggarwal** Annual CNS meeting, San Diego, USA, Sep 14-17, 2007 and attended the Ramban Trauma course, Haifa, Israel, Dec 8-23, 2007, Recieved ‘best paper’ award ‘Novel biochemical markers for diagnosing postoperative meningitis’ at the annual conference of Indian society of pediatric neurosurgery, held at Chandigarh, India from Nov 3-5, 2007


• **Dr Nilesh K** Outcome analysis of traumatic pediatric basal ganglion hematomas: experience of 21 cases at 18th Annual Conference of Indian society of Pediatric Neurosurgery , Chandigarh, India, 1-4th Nov 2007

• **Dr Shashank** Infant mortality in neurosurgical practice: need for raising a specialized cadre of pediatric neurointensivits? at 18th annual conference of Indian society of pediatric neurosurgery, Chandigarh, India, 1-4th Nov 2007

**NATIONAL AND INTERNATIONAL CONFERENCES**

• IXth Annual conference of skull base society of India with cadaveric workshop: October 2008: Chairman: Prof BS Sharma, Organizing Secy: Dr A Suri

**RESEARCH**

**Extramural**

• A phase II randomised, double blind placebo controlled, dose funding, safety and tolerability trial of x72405 as treatment for traumatic with brain injury

• A Phase II randomized double blind placebo controlled dose finding safety and tolerability trial of XY- 2405 as a treatment for traumatic brain injuries

• A Registry for Comparing Catheter-Related Infection Rates Among Various Shunt Systems in the Treatment of Hydrocephalus. (Project with Codman corporation,USA).

• Brain trial (Bradykinin B2 receptor antagonist in Neurotrauma): A multicentric randomised trial by London school of Hygiene & Tropical medicine
• Cervical spondylotic myelopathy international trial. AO spine funded project
• CRASH2 trial: A multicentric randomised trial by London school of Hygiene & Tropical medicine.
• Development of Neurosurgery Cadaver Training Centre DST-FIST 2006.
• Efficacy and safety of AP 12009 in adult patients with recurrent 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.
• Genetic abnormalities in developmental Cranio vertebral junction anomalies: Funding Agency: Dept of Biotechnology.
• Multicentric prospective randomized trial of early decompressive craniectomy in patients with severe traumatic injury (Dectra Trial)
• Role of fMRI and simultaneous EEG for non invasive localization of the epileptogenic foci. Funding Agency: Dept of Biotechnology.
• STICH II trial. Funding Agency: MRC, UK.
• Vessel size imaging by perfusion MRI in cerebral gliomas. Funding Agency: DST.

Intramural
• Autopsy study for diffuse axonal study DAI (Intramural)
• Correlation of coagulation abnormalities in severe traumatic brain injuries with patient outcome. A prospective analysis [Co I: Dr Sumit Sinha]
• Role of Thalamus in diffuse axonal injury: An autopsy study with histopathological correlation. (Project funded by AIIMS)

PUBLICATIONS
27. Gupta DK, Nilesh S Kurware, Faiz U Ahmad, Sharma BS. Outcome analysis of basal ganglion hematoma in post traumatic pediatric patients.XVI biennial congress of the European society of


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 is 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.

AWARDS AND HONOURS


**Dr A Suri**: Executive member, Skull base society of India

<table>
<thead>
<tr>
<th><strong>Neuroradiology</strong></th>
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<tbody>
<tr>
<td><strong>Professor and Head</strong></td>
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<tr>
<td>N K Mishra</td>
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<tr>
<td><strong>Additional Professor</strong></td>
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<tr>
<td>Shailesh B Gaikwad</td>
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<tr>
<td><strong>Assistant Professor</strong></td>
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<tr>
<td>Ajay Garg</td>
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**EDUCATION**

**Undergraduate and Postgraduate Teaching**
The faculty of the department is part of undergraduate teaching and delivered 5 didactic lectures during the combined seminars in the year under review. The DM Neuroradiology course was started in July 2001. Three candidates are registered for this course presently.

**Short Term Training**
Three doctors from Korea and one doctor from Italy received short-term training in the department.

**National & International Conferences**

**Lectures delivered**

**Dr. N.K. Mishra**
1. Participated in the 1st International Symposium on Intra-operative MRI, organized by the MD Anderson Cancer Center, The University of Texas at Houston, Texas, USA during 6-8th July
2007 discussed issues related to the upcoming intra-operative MRI facility coming up at the Neurosciences Centre, AIIMS, with experts and users from other centers of the world.

2. “Endovascular vs Radiosurgery in Cerebral AVMs” – Chaired this debate session at the 1st National Radiosurgery Update, organized by the Dept. of Neurosurgery, Neurosciences Centre, AIIMS, at the India Habitat Centre, New Delhi, 7-8 April 2007.

3. “Update in radiation protection and imaging” : Chaired this session at the Updates in Medical Physiscs and annual meeting of UP-Delhi chapter of AMPI, AIIMS, New Delhi, 8th Sept. 2007.


Dr S.B. Gaikwad
1. “Imaging of head CT-Pathological spectrum” during CME for Medicine and Nuclear Medicine practioners held on 26th August, 007 at SJH, New Delhi

2. NMR department, AIIMS during their annual foundation day on “MR Imaging of Neurological disorders” September 2007

3. “Complicated case of carotid angioplasty and stenting during meet the expert session at 10th Annual Meeting of ISVIR, 1-4th November 2007, Hyderabad. Participated in the debate on “Protection devices should always be used during carotid stenting” and spoke against the motion.


10. “Assessment of Cerebral Haemodynamic Changes by Perfusion MRI in patients after endovascular carotid recanalization” during 93rd Scientific Assembly and Annual meeting, November 25-30, 2007 at McCormick Place, Chicago, Illinois, USA

RESEARCH

Funded Projects
1. Phase imaging and Diffusion tensor imaging - Novel MR Contrasts in the evaluation of cryptogenic focal epilepsy. Dr. Ajay Garg. Funding Agency DST. March 2007, 3 years (19.02.2007 to 18.02.2010)

Departmental Projects
1. Role of Diffusion tensor imaging in the evaluation of intracranial Meningiomas
2. Evaluation of the angiographic features of cns vasculitis

PUBLICATIONS

Journals

Abstracts

AWARDS AND HONOURS
Dr.N.K.Mishra was International advisory committee member, invited speaker & moderator of a scientific session at the 9th congress of the World Federation of the Interventional & Therapeutic Neuroradiology (WFITN), 10-13 Sept. 2007, Beijing, China; Member of the task force on basic research in modern biology, Dept. of Biotechnology, Govt. of India; Co-editor in chief & chairman of scientific committee for the Journal of Neuroradiology; Member editorial board for interventional neuroradiology, Indian Journal of Radiology & Imaging (IJRI).

Dr Shailesh B Gaikwad was invited to conduct hands-on-workshop on carotid angioplasty and stenting during the 10th Annual Congress of Indian Society of Vascular and Interventional Radiology, Hyderabad, 1-4 November 2007

PATIENT CARE

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<th>Procedures</th>
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<td>Interventional procedures</td>
<td>138</td>
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<tr>
<td>Gamma Knife Angiogram</td>
<td>54</td>
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<tr>
<td>MRI / MRA / MRS</td>
<td>1767</td>
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AIIMS 2007-2008 / 580
CT Head 16581  
Chest 204  
Abdomen 139  
Spine 784  
Image guidance CT 90  
Emergency CT 9484  
Ultrasound 1293  
Plain X-rays OPD/indoor 19113  
Pvt. (Outside studies) case reporting 2730  
Total 43512

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<tbody>
<tr>
<td><strong>Neuropathology</strong></td>
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<tr>
<td><strong>Professor</strong></td>
<td>Chitra Sarkar</td>
</tr>
<tr>
<td><strong>Associate Professors</strong></td>
<td>M.C. Sharma</td>
</tr>
<tr>
<td>(On assignment from December 2006)</td>
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</tr>
<tr>
<td><strong>Assistant Professor</strong></td>
<td>Vaishali Suri</td>
</tr>
</tbody>
</table>

**EDUCATION**

**Short- and Long-Term Training**
1. Dr. Namrata Sinha, Junior Consultant from National Neurosciences Centre, Kolkata came for Neuropathology training for three months.
2. Ms. Anjana Sharma, M.Sc. (Bioinformatics) student came for training for six months in laboratory techniques.

**Continuing Medical Education**

*Lectures delivered*

**Professor C. Sarkar**
- Lectures in the Summer CME held in GNRC Institute, Guwahati in July 2007: Approach to Diagnosis of Malignant Small Round Cell Tumors of the Brain Pathology of CNS Infections
- Lectures in Seminars for PG students held in IRCH, AIIMS: Pathology of CNS tumors, August 2007 Pathology and genetics of embryonal tumors, February 2008
• Lectures in CME in Pathology at Christian Medical College and Brown Medical College, Ludhiana, October 2007: Approach to Diagnosis of Muscular Dystrophies, Embryonal tumors: Pathology and differential diagnosis and Approach to Diagnosis of Meningeal Tumors
• Spectrum of Pediatric Brain Tumors & Status of Brain Tumor Banking in India. Neuro-Update 2007, Fortis Hospital, NOIDA, December 2007.

NATIONAL AND INTERNATIONAL CONFERENCES

Organized by Department
1. Dr. Vaishali Suri was the co-organizing secretary of the Annual Conference of the Delhi Chapter IAPM, held at AIIMS, New Delhi, April 2007.

Lectures delivered
• Sarkar C. Neuropathology in India. Meeting of the Asian Society of Neuropathology and the Workshop of Asian Neuropathology held at Tokyo, Japan, May 2007.
• Sarkar C. Approach to Diagnosis of Malignant Round Cell Tumors of the CNS. Annual Conference of Delhi Chapter of IAPM. New Delhi, April 2007.
• Sarkar C. Morphology of High Grade Gliomas and Importance of their Molecular Markers in Diagnosis. Invited lecture in the EBM conference on Molecular Diagnostics, Tata Memorial Hospital, March 2008.
• Sarkar C. Oligodendrogial Tumors: Clinico-pathological & Molecular Genetic Study with special reference to 1p/19q status. 56th Annual Conference of Neurological Society of India. Agra, December 2007.

• Suri V, Sarkar C. Pediatric glioblastomas, a histopathological and molecular genetic study. 56th Annual Conference of Neurological Society of India. Agra, December 2007.


• Das P, Sharma MC, Rishi A, Suri V, Sarkar C. Childhood Chordomas: Twenty seven years of clinicopathologic experience from All India Institute of Medical Sciences, India. Delhi Chapter IAPM, April 2007.

• Tayal S, Suri V, Ray R. Myoepithelial tumour of soft tissue with cytologically malignant features, a case report. Delhi Chapter IAPM, April 2007.


• Das P, Puri T, Sharma MC, Suri V, Sharma BS, Sarkar C. Medulloblastoma: a correlative study of MIB-1 proliferation index along with expression of C –mycher 2 neu and anti apoptotic proteins with histological typing and clinical outcome. 56th Annual Conference of IAPM, PGIMER, Chandigarh, November 2007,

RESEARCH

Funded Projects

Completed


Ongoing

2. Study of the role of bone marrow derived mononuclear cells in peripheral nerve repair of adult rats. Dr. Vaishali Suri. Funded by AIIMS. Rs. 18 lakhs. 2006-09.

Departmental Projects

Completed

1. Comparative evaluation of expression of dystrophin, utrophin and n-NOS in muscle and skin biopsy of patients with dystrophinopathies.

Ongoing

2. GBMs with long term survival – Role of cell cycle regulatory genes.
3. Study of gliomagenesis: Possible involvement of CNS developmental pathway
4. p53, EGFR & HER2 receptor in osteogenic sarcomas
5. Childhood GBMs : A clinicopathological and molecular genetic study
6. Study Of Limb Girdle Muscular Dystrophy (LGMD) Patients in Indian Population Using Calpain-3, Dysferlin And Sarcoglycan Protein Analysis
7. Clinicopathological study of angiogenesis in glioblastoma multiforme.

Collaborative Projects

Completed

1. Invasive versus non-invasive meningiomas: comparative study of proliferation index, and expression of VEGF, p53 and cathepsin.- Dept. of Neurosurgery, 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

AIIMS 2007-2008 / 584
3. Effects of administration of human umbilical cord blood cells (HUCBG) in combination with melatonin versus HUCBG along in rat with stroke – Dept of Neurology, AIIMS
4. Altered DNA sequences in gliomas: characterization of changes and context sequences with reference to tumor type – Dept of Biochemistry, AIIMS
5. Characterization of the properties of an amplified region of DNA in primary meningeal tumors – Dept of Biochemistry, AIIMS
6. Analysis of FAT gene in glial tumors – Dept of Biochemistry, AIIMS
7. Pilocytic astrocytomas: correlation of clinical features and outcome with proliferation index and angiogenesis – Dept of Neurosurgery, AIIMS

PUBLICATIONS

Journals


Chapters in books


PATIENT CARE
1. Neuropathology Surgical Specimens 2376
2. Frozen Sections 252
3. Muscle biopsies
Total number received - 408
Muscle enzyme histochemistry 1719
Diagnostic Immunohistochemistry 2837
4. Myelin stain 244
5. Electron microscopy
Specimen received 1012
Specimen processed 530

AWARDS AND HONOURS
Dr. Chitra Sarkar was nominated as member of the Subject Expert Committee on Life Sciences of the ‘Fund for Improvement of S&T infrastructure in Universities and other higher education institutions’ (FIST) program of Department of Science & Technology, Govt. of India; Program Advisory Committee on Health Sciences, of DST, Govt. of India; Expert Committee, Women Scientist Scheme, DST, Govt. of India; Chronic Disease Biology Committee of DBT, Govt. of India; nominated as Vice President of the Asian Society of Neuropathology; Chitra Sarkar nominated as Executive Member of the Neuro-Oncology Society of India; invited as a Guest Faculty to participate in (i) Meeting of the Asian Society of Neuropathology, Tokyo, Japan, May, 2007 and International Neuropathology Symposium at Niigata, Japan, October, 2007.

Dr. Vaishali Suri won the Herbert Krause Gold Medal for the paper entitled “Pediatric glioblastomas, a histopathological and molecular genetic study” at the 56th Annual conference of Neurological Society of India, Agra, December 2007.

Dr. Ayushi Jain won First Prize for the poster entitled “MELAS (Mitochondrial myopathy, encephalopathy, lactic acidosis and stroke like episodes) with urticaria pigmentosa- report of a rare case” at the Xth annual conference DNA (DNACON-2008), Delhi.

Dr. Arvind Ahuja won the Second Prize for the poster entitled “Malignant transformation of benign meningiomas after gamma knife radiosurgery: report of two cases”. 56th annual conference of IAPM, PGIMER, Chandigarh, November 2007.

SIGNIFICANT EVENTS
1. Dr. Chitra Sarkar was the coordinator of Indo-US symposium on Brain Tumor Banking with Prof. Abhijit Guha, Prof. M. Kieran, Prof. Charles Stiles, USA at Fortis Hospital, Noida, December 2007.
2. The procedure for detection of deletions of 1p&19q using Fluorescence in situ Hybridization (FISH) on formalin fixed paraffin embedded tissue for the diagnosis and prognostication of oligodendrogliomas has been standardized for the first time.
3. Western blotting for diagnosis of calpainopathy, a common form of limb girdle muscular dystrophy, has also been standardized for the first time.
4. Dr. Vaishali Suri was the member of organizing committee of the 9th Annual Conference Skull Base Surgery Society of India, International Skull Base CME and WFNS Microsurgery and Endoscopy Cadaver Workshop held on October, 2007 at AIIMS, New Delhi.

VISITING SCIENTISTS
Dr Nitya Ghatak, Director of Neuropathology, Virginia University, USA visited the Neuropathology laboratory and presented a Slide seminar on Interesting cases in January 2008.
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
Mahesh Chandra

**Medical Superintendent**
Shakti Kumar Gupta

**Additional Professors**
Dilip R. Shende
(Community Ophthalmology)
Rajpal
G.V. Satyanarayana Murthy
Niranjan Nayak
(Ocular Microbiology)
Mandep Singh Bajaj

**Associate Professors**
Seema Sen
(Ocular Pathology)
Namrata Sharma
Sanjay Sharma
(Ocular Radiology)
Pradeep Venkatesh
Tanuj Dada
Seema Kashyap
(Ocular Pathology)
Neelam Pushker

**Assistant Professors**
T. Velpandian
(Ocular Pharmacology)
Praveen Vashist
(Community Ophthalmology)
Rohit Saxena
Rajesh Sinha
Tanuj Dada
Jasbir Kaur
(Community Ophthalmology)
Renu Sinha
(Tushar Agarwal)
M. Vanathi
(Ocular Anaesthesiology)
Medha R.
Neelam Pushker
Viney Gupta
(Bhavna Chawla)
Praveen Vashist
Parijat Chandra

**EDUCATION**

<table>
<thead>
<tr>
<th>Undergraduates</th>
<th>Post graduates</th>
<th>Paraclinical Pool Officers/</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBBS – 40</td>
<td>M.D. - (23 passed)</td>
<td>B.Sc. (H) Ophth. 4 Course-30</td>
</tr>
<tr>
<td></td>
<td>Ph.D. -16</td>
<td>10 students passed</td>
</tr>
<tr>
<td></td>
<td>SRs: Ophth. - 29</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ocular.Anaesth -06</td>
<td></td>
</tr>
</tbody>
</table>

**Short and long term training**
31 Ophthalmologists from various parts of the country including 13 in training of trainers programme (ECCE/ IOL) were trained in different fields of specialisation.
CME
During the year the Centre organized following Conferences/ Seminars/ Workshops on:
4th Manpower & Management Training workshop 09/04/2007 to 14/04/2007
3rd ORBIS-RPC Workshop on “Strategic Planning on Eye Care” 23/07/2007 to 26/07/2007
Training of School Teachers under School Vision 26/11/2007
Screening Programme
Hospital Based Programme on Cornea 03/12/2007 to 07/12/2007
First National Hands-On-Workshop on 08/02/2008 to 09/02/2008
Bioanalytical techniques in PK studies – from Method Development to Data Interpretation.

The faculty of the Centre participated in, various scientific forums, delivered 101 lectures including keynote addresses, chaired 57 scientific sessions.

RESEARCH

Funded Projects

Completed
1. Clinical evaluation of multifocal intraocular lens “Technis Z900”.
2. Development and validation of sensitive HPLC method and evaluation of taxanes in various taxus species found in Himalayan region.
4. Standardization of antifungal susceptibility testing for filamentous fungi and characterization of drug sensitive and drug resistant fungal isolates in mycotic keratitis.
5. Situational analysis of existing human resources and infrastructure for control of childhood blindness in India.
6. Evaluation of prevalence and causes of visual impairment and blindness in adults in Gujarat.

Ongoing
1. 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.
2. Detection of HPV genome in malignant ocular lesions.
3. Culture of limbal stem cells for ocular surface reconstruction in stem cell deficiency diseases.
5. Ocular surface reconstruction with alternative autografts of non-ocular origin.
7. Comparative genome hybridization in primary angle closure glaucoma families: a pilot study in Indian patients.
8. Mutational analysis of the myocilin gene in primary angle closure glaucoma and primary open angle glaucoma patients in Indian population.
9. Mutational spectrum of the CYP1B1 gene in North Indian primary congenital glaucoma patients.
10. p53 and mdm2 expression in orbital RMS of childhood – An IH study.
11. Immunophenotype characterization of small lymphocytic lymphomas of the eye.
12. Evaluation of calcium dobesilate for various ocular conditions.
14. Long term changes in Heidelberg retinal tomography and visual fields in primary adult glaucoma patients.
15. Study on the prevalence, therapeutic options and outcome measures of amblyopia.
16. 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.
17. 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 juxtafoveal choroidal neovascularization secondary to age-related macular degeneration.
18. 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.
19. 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.
20. 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.

**Departmental Projects**

**Completed**

1. Ulcerative eyelid lesions–role of impression cytology and clinicopathological correlation.
2. Clinical comparison of matric frequency doubling technology perimetry, standard automated perimetry and Scanning laser polarimetry in primary open angle glaucoma.
3. A study to evaluate various parameters for early detection of ethambutol induced optic neuropathy.
4. Evaluation of waveform characteristics and visual acuity in infantile nystagmus and the changes induced by its management.
5. Evaluation of convergence exercises in cases with convergence insufficiency.
6. Evaluation of modified levator plication as compared to levator resection for correction of congenital ptosis.
7. Rapid assessment of trachoma in a previous hyper endemic rural area of North India.
8. Imaging evaluation of intra-orbital masses causing proptosis.
9. Intravitreous drug level assay in retinoblastoma patients undergoing chemoreduction.
10. Role of directional vacuum assisted biopsy in patients with previously equivocal biopsies for breast masses suspicious for cancer.
Ongoing

1. ICG staining vs triamcinolone acetonide staining for ILM peeling with triamcinolone acetonide PVD induction in macular hole surgery.


3. Evaluation of ocular toxicity of festival colors during the celebration of Holi.

4. Immunohistochemical and molecular studies on WntB-Catenin signaling pathway in sebaceous cell carcinoma of the eye lid.

5. Isolation, expansion and characterization of corneal limbal epithelial cells.


7. Regulation of apoptosis in human retinoblastoma.

8. Clinical and chromosomal analyses of patients with congenital eye lid anomalies in a tertiary care hospital.


12. Retinal nerve fibre layer thickness in pituitary tumors by optical coherence tomography.

13. Retinal nerve fibre layer thickness in ambylophia by optical coherence tomography.


15. Functional magnetic resonance imaging (MRI) in optic neuritis and multiple neuritis.

16. Evaluation of aetiopathogenic factors in eyes with primary angle closure glaucoma.

17. Evaluation of combined trabeculectomy with trabeculotomy with mitomycin versus trabeculectomy with mitomycin alone in primary congenital glaucoma.

18. Evaluation of the effect of surgery on motor and sensory outcomes in cases of intermittent divergent squints.

19. To study the role of autologous bone marrow stem cell transplant in macular hole surgery.

20. Prospective comparative randomized evaluation of intravitreal avastin, intravitreal triamcinolone acetonide and laser treatment in non responsive persistent diffuse diabetic macular edema.

21. Multifocal electroretinogram in emetropes, myopes and hypermetropes and its correlation with optical coherence tomography.

22. Comparative evaluation of functional outcome of eye assisted internal limiting membrane peeling in macular hole surgery using multifocal ERG.

23. Comparative evaluation of combination therapies PDT + Ranibizumab vs PDT + pegaptanib in the treatment of subfoveal classic CNVM.

24. Prospective randomised comparative trial of triamcinolone acetonide assisted and indocyanine green assisted internal limiting membrane peeling in macular hole surgery.

25. Use of autologous bone marrow derived stem cells for rehabilitation of patients with dry age related macular degeneration and retinitis pigmentosa: a pilot study.

26. Evaluation of change in macular thickness in diabetes after photocoagulation using optical coherence tomography (OCT).

27. Comparative study of combination therapies using PDT with intravitreal triamcinolone Vis a Vis PDT with intravitreal bevacizumab in treatment of neovascular AMD.

29. Role of intravitreal bevacizumab in diabetic vitrectomy.
30. Use of autologous bone marrow derived stem cells (Phase-2 trial) & umbilical cord blood stem cells (pilot study), transplantation by intravitreal injection for rehabilitation of patients with retinitis pigmentosa & allied heredoretinal dystrophies.
31. Role of avastin in vitreous surgery for diabetic non resolving vitreous hemorrhage.
32. Role of bevacizumab in surgery for diabetic vitreous hemorrhage with or without traction retinal detachment.
33. Single nucleotide polymorphisms associated with diabetic retinopathy.
34. To evaluate the role of oral corticosteroids in orbital cellulitis.
35. Evaluation of efficacy of probing in nasolacrimal duct obstruction with adjunctive mitomycin–C in adults.
37. Evaluation of cassette dosing for the intraocular penetration of drugs.
38. Modulation of transporters for the intraocular penetration of drugs.
39. Role of MRI in management of soft tissue sarcomas.
40. Role of MRI in characterization of sonographically indeterminate adnexal masses.

Collaborative Research

Completed
1. Imaging evaluation of intra-orbital masses causing proptosis (with department of Radiology)
2. Genetic polymorphisms of vascular endothelial growth factor and risk of ’threshold’ retinopathy of prematurity (with department of Paediatrics).
3. To study the role of core decompression with and without fibular grafting in patients with avascular necrosis of femoral head; and its effects on the disease progression (with department of Orthopaedics).
4. Population-based study on the “Epidemiology of age-related eye disease in India (INDEYE) (with the London School of Hygiene and Tropical Medicine).
5. Comprehensive management training programme for service providers in the eye care sector (with ORBIS International).
6. NPCB survey on rapid assessment of avoidable blindness (with Blindness Control Division of the Ministry of Health & Family Welfare).

Ongoing
1. Outcome of optical penetrating keratoplasty in bilaterally blind patients. (with Deptt. Of Psychiatry)
2. Sentinel surveillance unit at Dr. Rajendra Prasad Centre, AIIMS under the National Programme for Control of Blindness (with National Programm for Control of Blindness, Govt. of India).
3. Evaluation of vitreous humor as a marker fluid in the autopsy drug level analysis (with Forensic Science Laboratory, New Delhi).

PUBLICATIONS

Journals


Abstracts

Chapters in Books and monographs

AIIMS 2007-2008 / 597


**Books**


**PATIENT CARE**

**Hospital Services**

<table>
<thead>
<tr>
<th></th>
<th>New Cases</th>
<th>Old Cases</th>
<th>Total</th>
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<tr>
<td>General O.P.D.</td>
<td>110843</td>
<td>105009</td>
<td>215852</td>
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<tr>
<td>Emergency</td>
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<td>43466</td>
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<tr>
<td>Total Cases</td>
<td>154309</td>
<td>105009</td>
<td>259318</td>
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**Speciality Clinics**

<table>
<thead>
<tr>
<th>Clinic</th>
<th>New Cases</th>
<th>Old Cases</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>Cornea Clinic</td>
<td>5384</td>
<td>12366</td>
<td>17750</td>
</tr>
<tr>
<td>Lens Clinic</td>
<td>603</td>
<td>465</td>
<td>1068</td>
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<tr>
<td>Uvea Clinic</td>
<td>740</td>
<td>2155</td>
<td>2895</td>
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<tr>
<td>Contact Lens Clinic</td>
<td>1040</td>
<td>1325</td>
<td>2365</td>
</tr>
<tr>
<td>Clinic</td>
<td>2007</td>
<td>2008</td>
<td>2009</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>-------</td>
<td>-------</td>
<td>-------</td>
</tr>
<tr>
<td>Glaucoma Clinic</td>
<td>2537</td>
<td>6161</td>
<td>8698</td>
</tr>
<tr>
<td>Ophthalmoplasty Clinic</td>
<td>2860</td>
<td>1749</td>
<td>4609</td>
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<tr>
<td>Paed. Ophthalmology Clinic</td>
<td>787</td>
<td>403</td>
<td>1190</td>
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<tr>
<td>Trauma Clinic</td>
<td>987</td>
<td>886</td>
<td>1873</td>
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<td>Retina Clinic</td>
<td>2788</td>
<td>2948</td>
<td>5736</td>
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<td>Neuro-Ophthalmology Clinic</td>
<td>1487</td>
<td>1168</td>
<td>2655</td>
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<td>Medical Ophthalmology Clinic</td>
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<td>1601</td>
<td>2765</td>
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<td>Vitreo Retinal Clinic</td>
<td>1676</td>
<td>1223</td>
<td>2899</td>
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<tr>
<td>Ocular Surface Disorder Clinic</td>
<td>68</td>
<td>57</td>
<td>125</td>
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<tr>
<td>a) Orthoptic Clinic</td>
<td>6551</td>
<td>32257</td>
<td>38808</td>
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<tr>
<td>b) Squint Clinic</td>
<td>10344</td>
<td>35937</td>
<td>46281</td>
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<tr>
<td>Refraction</td>
<td>-</td>
<td>38782</td>
<td>38782</td>
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<tr>
<td><strong>Total Cases</strong></td>
<td><strong>39016</strong></td>
<td><strong>139483</strong></td>
<td><strong>178499</strong></td>
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<tr>
<td><strong>Grand Total of Cases</strong></td>
<td><strong>193325</strong></td>
<td><strong>244492</strong></td>
<td><strong>437817</strong></td>
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**Indoor**

<table>
<thead>
<tr>
<th>No. of Cases</th>
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<tbody>
<tr>
<td>General Admissions</td>
<td>14898</td>
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<tr>
<td>Casualty Admissions</td>
<td>2623</td>
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<tr>
<td>Private Admissions</td>
<td>1118</td>
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<tr>
<td>Short Admissions</td>
<td>3720</td>
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<tr>
<td>Day Care Admissions</td>
<td>5558</td>
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<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>27917</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Operations**

| Major               | 15869 |       |       |
| Day Care            | 5180  |       |       |
| **Total Major**     | **21049** |       |       |
| Minor               | 5600  |       |       |
| **Grand Total**     | **26949** |       |       |

**Deaths**

| 01                |       |       |       |

**Yearly other figures**

| Average bed occupancy ratio | 86%     |       |       |
| Average length of stay     | 4.9 P.W |       |       |
| Average OPD Attendance per working day | 1474 |       |       |
| Average No. of Indoor Admission per working day | 76% |       |       |
| Average No. of Surgeries per working day       | 73%    |       |       |

**Investigative laboratories**

**Tests**

<table>
<thead>
<tr>
<th>Number</th>
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<tbody>
<tr>
<td>Fluorescein Angiography + ICG</td>
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<tr>
<td>Ultrasonography</td>
</tr>
<tr>
<td>EUA</td>
</tr>
<tr>
<td>E.C.G.</td>
</tr>
<tr>
<td>Applanation Tonometry</td>
</tr>
<tr>
<td>Indirect Ophthalmoscopy</td>
</tr>
<tr>
<td>Procedure</td>
</tr>
<tr>
<td>--------------------------------</td>
</tr>
<tr>
<td>Goldmann Perimetry</td>
</tr>
<tr>
<td>Automated Perimetry</td>
</tr>
<tr>
<td>E.R.G.</td>
</tr>
<tr>
<td>VER</td>
</tr>
<tr>
<td>E.O.G.</td>
</tr>
<tr>
<td>ENG</td>
</tr>
<tr>
<td>Focimetry</td>
</tr>
<tr>
<td>Colour Vision</td>
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<tr>
<td>L.I.</td>
</tr>
<tr>
<td>Ultrasonic Pachymetry</td>
</tr>
<tr>
<td>Non Contact Tonometry</td>
</tr>
<tr>
<td>Refraction</td>
</tr>
<tr>
<td>Auto Refraction</td>
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<tr>
<td>Axial Length</td>
</tr>
<tr>
<td>Keratometry</td>
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<tr>
<td>OCT</td>
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<tr>
<td>Contact Lenses (Old + New)</td>
</tr>
<tr>
<td>Artificial Eye</td>
</tr>
<tr>
<td>Low Vision Aid</td>
</tr>
<tr>
<td>PRP</td>
</tr>
<tr>
<td>Nd-Yag Laser</td>
</tr>
<tr>
<td>Fundus Photography</td>
</tr>
<tr>
<td><strong>Excimer Workup (Lasik)</strong></td>
</tr>
<tr>
<td>Lasik (operated) eyes</td>
</tr>
<tr>
<td>Lasik (unoperated) eyes</td>
</tr>
<tr>
<td>PTK (operated) eyes</td>
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<tr>
<td>PTK (unoperated) eyes</td>
</tr>
<tr>
<td>Phakic IOL (operated) eyes</td>
</tr>
<tr>
<td>Phakic IOL (unoperated) eyes</td>
</tr>
<tr>
<td>Glare</td>
</tr>
<tr>
<td>Contrast (FACTS)</td>
</tr>
<tr>
<td>Shirmer</td>
</tr>
<tr>
<td><strong>BUT</strong></td>
</tr>
<tr>
<td>Lasik counseling</td>
</tr>
<tr>
<td>Clinical photograph</td>
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<tr>
<td>Orthoptic work-up</td>
</tr>
<tr>
<td><strong>Excimer Laser (inv. &amp; surgeries) [R.No.101]</strong></td>
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<tr>
<td>Aberometr</td>
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<tr>
<td>Orbscan</td>
</tr>
<tr>
<td>P.D.T.</td>
</tr>
<tr>
<td>T.T.T.</td>
</tr>
<tr>
<td>Inj Lucentis</td>
</tr>
<tr>
<td>Inj Macugen</td>
</tr>
<tr>
<td>Retinal Camera Ret. CAM</td>
</tr>
</tbody>
</table>
Cornea Service Lab (total no of inv.) 19,199  
Cornea Research Lab (total no of inv.) 10,002  
Glaucoma Service Lab (total no of inv.) 4,136  

**Ocular Radiology**  
Total No. of X-rays 13624  
Total No. of special investigation 28  
Total No. of CT Scan (done in Main X-ray Department) 294  
Total No. of MRIs 40  
(Done in the Dept. of NMR)  

**Ocular Microbiology**  
**Total specimens processed** 12868  
Specimens processed for bacterial culture sensitivity 9890  
Specimens processed for fungal culture 1754  
Specimens processed for Acanthamoeba culture 56  
Specimens processed for Cytology 377  
Specimens processed for viral antigen detection 93  
Specimens processed for Chlamydia tissue culture 48  
Specimens processed for Chlamydia antigen detection by DFA 467  
Samples processed for PCR (Chlamydia) 104  
Samples processed for PCR (Corneal ulcer and endophthalmitis) nil  
Specimens processed for Chlamydia serology 6  
Samples processed for PCR (HSV) 63  
Samples processed for conjunctivitis 10  

**Ocular Pathology**  
Total number of Investigations 47656  
Blood TLC, DLC, PBS, ESR, BT, CT 23898  
Urine 9625  
Histopathology, Cytopathology 14133  

**Ocular Biochemistry (Clinical Chemistry)**  
Total samples 12017  
Indoor 10023  
Outdoor 1994  

**Ocular Pharmacology**  
Free drugs (Vials) supplied through Ocular Pharmacy 71276  
MK Media 696  

**Eye Bank**  
Total eyes received: 806  
(3 corneas were used for 6 patients in August, September and October 2007)  
Surgery Performed: 483  
Unsuitable for clinical: 208  
Transplantation  
Preserved in Glycerine: 75  
Histopathology/Stem cell culture: 43
Stem cell culture: Total fifteen patients have undergone transplantation limbal stem cell transplantation from April 07 to March 08. Out of fifteen, thirteen underwent autologous limbal stem cell transplantation and two for cadaveric limbal stem cell transplantation.

Introduced facility for keratoprosthesis surgery for patients not suitable for corneal transplantation.

Amniotic membrane grafting: Total 4 batches of Human amniotic membrane were prepared during the period. Out of these four; two batches have been used till Mar 2008. 3rd batch is in use and fourth batch could not be used because the patient was not traceable.

**Community Ophthalmology**

**Eye Care Services in Slums**

<table>
<thead>
<tr>
<th>Description</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Slums covered for comprehensive eye care services</td>
<td>20</td>
</tr>
<tr>
<td>Number of attendees at PEC Centres in Slums Clusters</td>
<td>11757</td>
</tr>
<tr>
<td>Number of Refractions carried out in PEC Centres in slums Clusters</td>
<td>4060</td>
</tr>
<tr>
<td>Number of Patients referred to R. P. Centre</td>
<td>1762</td>
</tr>
<tr>
<td>Number of Subsidized Spectacles issued in Slums</td>
<td>1762</td>
</tr>
<tr>
<td>Number of Volunteers Training Programme</td>
<td>8</td>
</tr>
<tr>
<td>Number of Volunteers Trained</td>
<td>96</td>
</tr>
<tr>
<td>Number of Eye Health Education Events</td>
<td>23</td>
</tr>
<tr>
<td>Number of Participants</td>
<td>1120</td>
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**Reach-in-Programme**

<table>
<thead>
<tr>
<th>Description</th>
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<tbody>
<tr>
<td>Number of adult screening camps organized for Reach-in-Programme</td>
<td>30</td>
</tr>
<tr>
<td>Number of patients examined under Reach-in-Programme</td>
<td>7674</td>
</tr>
<tr>
<td>Number of patients referred at R.P.Centre under Reach-in-Programme</td>
<td>1885</td>
</tr>
<tr>
<td>Number of patients operated at R.P.Centre under Reach-in-Programme</td>
<td>1687</td>
</tr>
<tr>
<td>Number of follow-up camps organized under Reach-in-Programme</td>
<td>21</td>
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<tr>
<td>Number of follow-up patients examined in under Reach-in-Programme</td>
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</tr>
<tr>
<td>Number of pediatric screening camps organized for Reach-in-Programme</td>
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<tr>
<td>Number of children examined under reach-in-Programme</td>
<td>141</td>
</tr>
<tr>
<td>Number of children referred at R.P.Centre under reach-in-Programme</td>
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**School Eye Screening Programme**

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<th>Description</th>
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<tbody>
<tr>
<td>Number of School covered under SES Programme</td>
<td>30</td>
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<tr>
<td>Number of Teachers Trained</td>
<td>35</td>
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<tr>
<td>Number of Students Examined</td>
<td>6173</td>
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<tr>
<td>Number of Spectacles Prescribed</td>
<td>501</td>
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**Rehabilitation services:**

<table>
<thead>
<tr>
<th>Description</th>
<th>Count</th>
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</thead>
<tbody>
<tr>
<td>Number of blind patient counseled for rehabilitation services</td>
<td>90</td>
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</table>

**AWARDS AND HONOURS**

**Prof. S. Ghose:** Invited by the Executive of the Delhi Ophthalmological Society to receive on behalf of our Institution, the coveted Annual Awards [Trophies] and Certificates of Appreciation, for co-coordinating and conducting for RPC during 2007-08: The Most Popular Monthly Clinical Meeting (Dr. Minoo Shroff Trophy); The Best Monthly Clinical Meeting (Dr. Bodh Raj Sabharwal Trophy); Invited by the Ophthalmologist Club, New Delhi, to distribute their awards, as well as to receive their Ophthalmologist Ratna Award, India Habitat Centre, New Delhi, Sep 2007; Invited to
address the Expert Group at ICMR, on a Task Force for Retinoblastoma being created with ICMR, along with a National Retinoblastoma Registry, Aug 2007; Continued to be: Director of WHO Collaborating Centre for Prevention of Blindness; Honorary Advisor Ophthalmology to the Ministry of Health and Family Welfare, Govt. of India; Expert Member, Technical Advisory Group on Visually Handicapped for projects submitted to the Ministry of Social Justice & Empowerment, Govt. of India, New Delhi, 2007-08; Invited by the School of Health Sciences at Indira Gandhi National Open University (IGNOU), as Member of their Advisory Committee for organization and curriculum framing of their BSc. Hons Optometry & Ophthalmic Techniques programme; Invited by the ICMR, DST, & CSIR amongst others as their Reviewer for Projects and nominated works for SSB Award submitted to them in the field of Ophthalmology, 2007-2008; Expert Member of the Technical Advisory Group on Visually Handicapped for Projects submitted to District Rehabilitation Centre Scheme, Ministry of Social Justice & Empowerment, Govt. of India, New Delhi; Expert Member to help the Sectional Committee of Ophthalmic Instruments and Appliances, MHD 5, Bureau of Indian Standards, New Delhi; Expert Member, Management Development Programmes on Operation, Maintenance and Repair of Optical & Ophthalmic Equipment sponsored by MEA, GOI under the aegis of the Central Scientific Instruments Organisation (CSIO), a National Laboratory of CSIR, GOI; Vice President of Vision 2020: The Right to Sight – India.

Prof. R.V. Azad: Appointed Chairman Expert Committee Established for Rajendra Nagar Super Specialty Hospital for Eye, Patna, State Health Society, Bihar, 18th March, 2008; Delivered “Prof. Dr. E.T. Selvam Oration” at Regional Institute of Ophthalmology, Chennai, December, 2007; Appointed Chairman Establishment of Advanced Eye Centre, Agartala, Tripura, December, 2007; Chairman, National Retinoblastoma New Delhi Registry: Delhi Site at Dr. R.P. Centre for Ophthalmic Sciences, AIIMS, August, 2007; Awarded “Rising Personalities of India Award” and Gold Medal for exceptional caliber and outstanding performance by the International Penguin Publishing House, New Delhi, November; 2007; Appointed as Chief Advisor to Delhi Journal of Ophthalmology of the Delhi Ophthalmological Society, New Delhi; 2007; Appointed by the Medical Council of India as Inspector for inspecting: D.Y. Patil Medical College, Mumbai, August, 2007; Kamineni Institute of Medical Sciences August, 2007; Joseph Eye Hospital, Tiruchirappally, October, 2007; K.S. Hedge Medical Academy, Mangalore, December, 2007. Continued to be: Chairman Ophthalmology Section, Bureau of Indian Standards (BIS) Ministry of Agriculture Food & Civil Supplies, Consumer Affairs and Public distribution; Secretary, SAARC Academy of Ophthalmology; Expert, Standing Selection Committee, PGI, Chandigarh.

Prof. Vimla Menon: Awarded Dr. S.N. Mitter Oration Award for 2007-2008 by Delhi Ophthalmological Society.


Prof. Atul Kumar: Appointed as Member of Task Force Group on ‘Diabetic Retinopathy’ by ICMR, New Delhi, May, 2007; Appointed as Ophthalmologist to the Hon’ble Vice-President of India Sh. Mohd. Hamid Ansari, 2007.

Dr. Pradeep Sharma: Awarded FAMS, Fellowship of National Academy of Medical Sciences, India.


Dr. Radhika Tandon: Awarded “Best Citizens of India” 2007; Nominated as international Health Professional of the year by International Biographical Centre, Cambridge, England; Member of Task force in the priority areas of the Blindness programme in All India Ophthalmological Society; Convenor in XXXV Annual Convocation, AIIMS, 23rd Oct. 2007; Teaching Faculty Member at Dr. Agarwal’s Eye Hospital and Eye Research Centre organized by National Post Graduate CME course on 4th –7th Oct. 2007; Member of the Committee for Research section and Project on 6th Nov. 2007. Continued as a member of the core group for introduction of OSCE style examination by the National Board of Examination; Joint Secretary of Eye Bank Association of India.

Dr. G.V.S. Murthy: (2006-2007); Continued to be: Member, Editorial Board of the Journal of Community Eye Health; Reviewer: Indian Journal of Ophthalmology; International Ophthalmology, National Medical Journal of India, Journal of Community Eye Health, Acta Ophthalmologica, International Ophthalmology and Visual Science, BMC Ophthalmology, BMC Public Health, Eye; Reviewer’s panel of: British Journal of Ophthalmology, Lancet; Member, Academic Resources Advisory Committee of the National Programme for Control of Blindness; Member, Editorial Board of the Journal of Community Eye Health; Member, Editorial Committee of the Journal of Ophthalmology-UP; Member of INDIACLEN; Member of the Operational Research Advisory Group of Vision 2020 India; Member of the WHO Global Monitoring Committee of Implementation of Vision 2020 Initiative (2005); Invited faculty for the Community Eye Health Diploma course at the L.V. Prasad Eye Institute, Hyderabad since 2005.

Dr. Tanuj Dada: Special Poster Recognition Award at World Glaucoma Congress for work on ultrasound biomicroscopy in opaque grafts with secondary glaucoma Singapore July 2007.

Dr. Praveen Vashsist: Member, Editorial Board of “NPCB India” Quarterly Newsletter of National Programme for Control of Blindness 2007. Continued to be: Reviewer, Indian Journal of Ophthalmology.

SIGNIFICANT EVENTS
The Centre has taken big strides in improving the quality of services delivered to patients.

The Centre has completed the formalities and process of reaccreditation with the WHO to continue as their Collaborating Centre for Prevention of Blindness (PBL) for another 4 years.

World Health Organization recognizes Dr. Rajendra Prasad Centre for Ophthalmic Sciences as a member of International Sun Monitoring project (INTERSUN).

Awareness drive for eye donation was launched and charts and pamphlets distributed. During this period 16 eyes were received and 23 pledges were made for eye donation.

A DNA chip for diagnosis of eye infections has been developed and commercially launched by the Industrial partner of the recently concluded CSIR (NMTLI) multicentric project.

Newly established Stem cell/ Tissue and Cell culture facility and Molecular Biology laboratory are fully functional at department of Ocular Biochemistry.

The advanced bioanalytical system with LC-MS/MS is being installed at department of Ocular Pharmacology, to further upgrade facilities of paraclinical departments at RPC, as well as to subserve several departments at the AIIMS and even other institutions.

Funds allocated and made available, and a guaranteed cash flow would always remain constant and occasionally insurmountable problems in our fiscal system. Very limited amounts are actually available in the Centre’s budget for LTCs and TA, though GOI rules may be construed as permitting much larger expenditures especially incurred on air travel as allowable. Financial austerity measures invoked at our RPC since December 2006, encouraging traveling on concessional fares offered by any airlines to curb such needless cash drains, have already achieved savings in terms of about 12 lakhs during this year.

VISITING SCIENTISTS
Dr. Robert Chappell, OBE, President of the World Council of Optometry
Mr. Geoffery Holland (Executive Director of ORBIS International)
Dr. Duffey (ORBIS volunteer faculty)
Dr. (Mrs.) R. Jose (Addl. Director General Ophthalmology, MOH & FW Govt. of India)
Dr. G.V. Rao (Country Director, India Country Officer, ORBIS International)
Dr. Anthony Aldave, MD, Associate Professor, Director Cornea Service Jules Stein Eye Institute UCLA, USA.
Dr. Sandeep Kaushal – Indian National Science Academy (INSA) Fellow
10.7 Jai Prakash Narayan Apex Trauma Centre

Chief
M.C. Misra

Assistant Professors

- Babita Gupta (Anaesthesia)  
- Sanjeev Bhoi (Emergency Medicine)  
- Vinay Gulati (Emergency Medicine)  
- Sanjeev Lalwani (Forensic Medicine)  
- S. Arul Selvi (Laboratory Medicine)  
- Deepak K Gupta (Neurosurgery)  
  - Sumit Sinha (Neurosurgery)  
  - John R Bera (Orthopaedics)  
  - Vijay Sharma (Orthopaedics)  
  - Atin Kumar (Radiodiagnosis)  
  - Amit Gupta (Surgery)  
  - Maneesh Singhal (Surgery)  
  - Sushma (Surgery)  
- Chhavi Shawney (Anaesthesia)  
- Shefali K Sharma (Emergency Medicine)  
- Adarsh Kumar (Forensic Medicine)  
- Purva Mathur (Laboratory Medicine)  
- Deepak Agrawal (Neurosurgery)  
- G. D. Satyarthee (Neurosurgery)  
- Buddhadev Chaudhary (Orthopaedics)  
- Kamran Farooque (Orthopaedics)  
- Vivek Trikha (Orthopaedics)  
- Shivanand G. (Radiodiagnosis)  
- Biplab Mishra (Surgery)  
- Subodh Kumar (Surgery)

EDUCATION

Short Term Training
1. Dr. Piyush Choudhry w.e.f. 27.08.07 to 26.2.08 (Six Months)  
2. Dr. Rathindra Bhuyan, M.S. Guwahati Medical College 1.10.07 to 30.3.08 (Six months)

Elective Training
1. Ms. Anina Zeumer of Germany w.e.f. 04.02.08 to 03.05.08 (Four Months)  
2. Ms Jana Christina Moeller of Germany w.e.f. 01.11.07 to 31.01.08 (Two Months)  
3. Mr. Gerald Paul Jones of UK w.e.f. 05.09.07 to 29.09.07 (25 days)  
4. Mr. Aju Pazhenkottil w.e.f. 23.07.07 to 27.07.07 (One Week)  
5. Ms. Amarpreet Kaur of UAE w.e.f 16.08.07 to 22.08.07 (One Week)  
6. Ms. Rhythm Bhalla of UAE w.e.f. 23.08.07 to 29.08.027 (One Week)  
7. Ms Zamira Kohkan of Germany w.e.f. 31.03.07 to 30.04.07 (One Month)

Academic activities of undergraduate and postgraduate students and paramedical staff is being conducted by faculty in JPNATC.
1. Basic Life Support Courses for Junior Residents, Senior Residents, Nurses, Paramedics, Policeman.
2. Advanced Cardiac Life Support Training for Junior Residents, Senior Residents, Nurses.
3. Initial Resuscitation of Trauma Victims
4. Initial Resuscitation of Trauma victims.

Simulation has been used as a teaching tool and three such sessions have been conducted so far.
Continuing Medical Education

Prof. M.C. Misra

Course Director for

- **1st Training Course** in laparoscopic Suturing Skills from 25th February to 27th February 2008 at Minimally Invasive Surgery Training Centre, AIIMS, New Delhi.
- **2nd Training Course** in Operative Laparoscopic- Basic and Advanced from 8th -12th May 2007 at Minimally Invasive Surgery Training Centre, AIIMS, New Delhi.
- **3rd Training Course** in Operative Laparoscopic- Basic and Advanced from 23rd July -27th July 2007 at Minimally Invasive Surgery Training Centre, AIIMS, New Delhi.
- **4th Training Course** in Operative Laparoscopic- Basic and Advanced from 10th September-14th September 2007 at Minimally Invasive Surgery Training Centre, AIIMS, New Delhi.
- **5th Training Course** in Operative Laparoscopic- Basic and Advanced from 22nd October-26th October 2007 at Minimally Invasive Surgery Training Centre, AIIMS, New Delhi.
- **6th Training Course** in Operative Laparoscopic- Basic and Advanced from 26th November-30th November 2007 at Minimally Invasive Surgery Training Centre, AIIMS, New Delhi.
- **7th Training Course** in Operative Laparoscopic- Basic and Advanced from 7th January -11th January at Minimally Invasive Surgery Training Centre, AIIMS, New Delhi.
- **8th Training Course** in Operative Laparoscopic- Basic and Advanced from 31st March -4t April 2007 at Minimally Invasive Surgery Training Centre, AIIMS, New Delhi.
- Organizing Chairman, Inaugural Conference of Society of Endoscopic and laparoscopic Surgeons of India (SELSI) at All India Institute of Medical Sciences, New Delhi, 27-30 March 2008.
- Special Meeting of the Board of Studies of the Department of Surgery JN Medical College on 4.04.07 at AMU, Aligarh.
- As a Member of the Search Committee for Vice-Chancellor on 5 May 2007 at Hyderabad.
- Visited as part of Central Technical Team for appraisal of Rajendra Institute of Medical Sciences, Ranchi for upgradation under PMSSY on 7th and 8th May 2007.
- Invited to visit “R Adams Cowley Shock Trauma Center” University of Maryland Medicine, Baltimore, USA on 6th June 2007
- Invited to present Surgical Grand Rounds on 13th June 2007 at Mount Sinai Hospital, USA – Topic: Generalized peritonitis – Tropical spectrum
- As a Guest Faculty in National Conference on Medical Preparedness and Mass Causalities Management on 24th to 25th July 2007 at New Delhi, Organized by the National Disaster Management Authority.
- As a Faculty Member in Global Hernia Clinical Advisory Board meeting from 26th & 27th July 2007 at Lyon, France & Trevoux, France.
- Deliver an Oration at the Bazpur Conference, CME 2007 of IMA Bazpur Branch, Udham Singh Nagar, Uttarakhand on 7.10.07 held at Nainital.

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Dr. Chhavi Sawhney

- Conducted workshop on basic airway management in ER, on 11 September 2007.

Dr. Sanjeev Bhoi

- Conducted workshops on basic airway management in ER, 11 September/6 October 2007
- Round Table Meeting with Agency for Toxic Substances and Disease Registry (ATSDR), CDC, Atlanta, 25 February 2008.
National and International Conferences

- Organizing Secretary, Indo-US Academic Council for Emergency and Trauma, 1-2 September 2007, AIIMS.
- Course Director: ECG Workshop, Mumbai, 29th September, 2007.
- Course Faculty: Lead-India Course, 25th September, 2007.
- Expert, Policy Issues for Road Traffic Prevention and control in India conducted by Indo-US Joint program workshop on 26th February, 2008, New Delhi
- Expert, Road Map for Trauma Management in India and in the USA conducted by Indo-US Joint Program, 27th to 28th February, 2008 Agra

Dr. Shefali K. Sharma
Lectures delivered
- Indian Rheumatology Association Annual Conference (IRACON) 2007 conducted at Khajuraho from 26-29th October 2007 on “Epidemiology of Osteoporosis”.
- Conducted workshop on “Osteoporosis and DEXA” during Indian Rheumatology Association Annual Conference (IRACON) 2007 at Khajuraho from 26-29th October 2007.
- Post Graduate Institute of Medical Education Research, Chandigarh on “Complicated malaria” on 15th April, 2007.

Dr. Vinay Gulati
Lectures delivered
- ‘Special Issues in Management of Chemical Casualties’ at ‘Symposium on Awareness, Preparedness and Mitigation of Exposure to Domestic & Industrial Chemicals, AIIMS, New Delhi, August 30th –31st, 2007.
- ‘Pulmonary Thromboembolism’ and ‘Workshop on Obstructive Sleep Apnea’ at North India Medical Clinics, organized by Association of Physicians of India (Saharanpur Branch), September 29-30, 2007, Mussoorie.
- ‘Role of Bronchoscopy in clinical practice’ at LRS Institute of TB & Respiratory Diseases, New Delhi on February 26, 2008.
- Chaired a session on ‘Chronic Heart Failure’ at APICON 2008, the Annual conference of the Association of Physicians of India, January 12, 2008, Kochi

Dr. Adarsh Kumar and Dr. Sanjeev Lalwani
Joint Organizing Secretary, Symposium on ‘Awareness, preparedness & mitigation in exposure to domestic & industrial chemicals, APMEDIC-2007, collaboration with Dept of Pharmacology, AIIMS.
Dr. Adarsh Kumar
Co-chairman, Scientific Committee of Forensic MEDICON-2008 at Mumbai.

Lectures delivered
Participated in training programmes of the Academy of CBI, CDTS, NICFS, Amity Institute, Delhi Judicial Academy, DMA & NIPCCD. Lectures and demonstrations were held for CBI officials, Police officers, Judicial officers, Medical officers and Forensic science experts from all over India.

Dr. Purva Mathur
Delivered a guest lecture on “Mycoplasma contamination of cell cultures” in the Vth Annual conference of the Indian Association of Medical Mycoplasmologists”, held in Agra, 2007.

Dr. S. Arulselvi
- Attended one day workshop on “Management of High Volume Laboratories – Beckmaan User’s perspective” held in Hotel Le Meridien, Delhi on 29.10.07.
- Attended workshop on “Basic airway management” held in JPNATC, AIIMS on 6.10.07.
- Attented “Delhi Society of Haematology annual meet” on 11.8.07, held in India Habitat Centre, New Delhi.
- Attented Indo–US academy council for emergency medicine and trauma, CME, 1.9.07 and 2.9.07.
- Attended workshop on “Educational research scholarship” conducted by CMET in AIIMS on 14.11.07.
- Attented “National Conference on Medical Education” between 15.11.07 to 17.11.07 held in AIIMS, Delhi.
- Attented Workshop on “Operational/Application Training on Sysmex 2100 i analyser” held on 17.12.07 and 18.12.07 at JPNATC, AIIMS conducted by Sysmex India Pvt Ltd.
- Attented Haemophilia conference held on 13.3.08 in AIIMS, New Delhi.

Dr. Deepak Agrawal
- Ginde Oration & Hand-on cadaveric workshop on endoscopic skull base surgery, Bombay Hospital, 31st MArch-2 April 2007, Mumbai, India.
- 1st National radiosurgery update & Gamma-Knife workshop, All India Institute of Medical Sciences, 14-15 April 2007, New Delhi.
- Annual conference of the skull base society of India, All India Institute of Medical Sciences, 14-17 October 2007, New Delhi.
- Annual CNS meeting, San Diego, USA, Sep 14-17, 2007.
- Ramban Trauma course, Haifa, Israel, Dec 8-23, 2007.
- 10th Annual AIIMS microneurosurgery workshop held at All India Institute of Medical Sciences, 14-15 February, 2008, New Delhi, India.
- Ginde Oration, Bombay Hospital, 31st March 2008, Mumbai, India.

Dr. John R. Bera
- Conducted workshops on basic airway management in ER, 11 September/6 October 2007
- Legal and ethical issues in medical sciences, 30 April 2008, AIIMS
National and International Conferences

- Co-organizing Secretary Indo-US Academic Council for Emergency and Trauma, 1-2 September 2007 AIIMS.
- Course Faculty, For Sam’s splints & POP technique at Indo-US Emergency medicine summit 2007 held at 26-30th September, 2007.

Dr. Kamran Farooque
- Director, Workshop on Splints in ER for nurses and paramedics, 29 September 2007, Mumbai at INDUS EM 2007.
- Member of organizing committee of “Sports Medcon 2007” annual conference of IFSM.

Lectures delivered
- “Orthopaedic Splints in ER” on 30th September 2007 at Mumbai at INDUS EM 2007

Dr. Vijay Sharma
- Director, Workshop on Splints in ER for nurses and paramedics, 29 September 2007, Mumbai at INDUS EM 2007.

Lectures delivered

Dr. Atin Kumar

Dr. Shivanand Gamanagatti
- Transarterial chemoembolisation with DC beads, 6 conference on Evidence based Management of Cancers in India- Interventional Radiology in Oncology, Tata Memorial Hospital, Mumbai, 29February -2March, 2008.

Dr. Amit Gupta

Dr. Biplab Mishra

Dr. Maneesh Singhal
- Tip Plasty. Rhionofess workshop, AIIMS New Delhi, 30th Dec. 2007.
• External anatomy of nose. Rhionofess workshop, AIIMS New Delhi, 30th Dec. 2007.

**Dr. Subodh Kumar**

**Dr. Sushma**

**RESEARCH**

**Funded Projects**
1. Prospective study to evaluate the role of Helicobacter pylori in benign and malignant hepatobiliary disease Dr M.C. Misra. Institute Research Grant. April 2006 March 2008. Rs. 80,000.
2. A randomized controlled trial of laparoscopic inguinal hernia repair–transabdominal preperitoneal versus total extraperitoneal approach. Dr. M.C. Misra. From Institute Research Grant 2007-08. Rs. 1,62,500/-
3. Feasibility study on Injury & Road Traffic Injury surveillance. MC Misra, Amit Gupta. Funded by MoHSW- WHO-ICMR, 1,80,000/-
5. Role of Thalamus in diffuse axonal injury: An autopsy study with istopathological correlation. Dr. Deepak Agrawal. Project funded by AIIMS.

**Departmental Projects**

**Completed**
1. Comparison of conventional and Gadolinium-BOPTA enhanced MR Cholangiography in the evaluation of biliary enteric anastomosis.
2. MR evaluation of recurrent shoulder dislocation
3. Role of MR arthrography in the assessment of glenohumeral instability

**Ongoing**
2. Outcome of acute lung contusion in ICU: A prospective study.
3. Study of neurocognitive impairment and atherogenesis in Indian subjects with obstructive sleep apnea
4 Study the efficacy of DMARDs on Lipid Profile in Rheumatoid Arthritis patients with special reference to Lipoprotein (a) and Oxidized LDL
5 Treatment efficacy, clinical characteristics, laboratory features and outcome in ART Clinic at AIIMS, New Delhi.
6 Clinical profile of frail elderly patients in hospital setting
7 Prevalence of Metabolic Syndrome in Obstructive Sleep Apnea and the effect of treatment with continuous positive airway pressure (CPAP)
8 Molecular studies of differentially expressed hypoxia sensitive proteins in patients with Obstructive Sleep Apnea
9 Role of Vitamin D receptor genetic variants in susceptibility to development and severity of pulmonary tuberculosis
10 Role of mitochondria in an experimental atopic asthma in mice
11 Comparison of tuberculin skin test (TST) and interferon-gamma release assays (IGRAs) for the diagnosis of latent TB infection and TB disease
12 Study of efficacy and safety of concomitant use of Nevirapine and Rifampicin in patients co-infected with HIV and Tuberculosis
13 Study o-prevalence and types of baseline HIV drug resistance in the antiretroviral treatment-naive and previously treated HIV infected northern India population Genetic polymorphism and expression of Toll-Like Receptor (TLR) in HIV-TB co-infection
14 Comprehensive study of unnatural deaths in children & women.
15 Auditing of asphyxial deaths.
16 Comprehensive study of fatal poisonings in South Delhi.
17 A Phase II randomized double blind placebo controlled dose finding safety and tolerability trial of XY- 2405 as a treatment for traumatic brain injuries.
18 Correlation of coagulation abnormalities in severe traumatic brain injuries with patient outcome. A prospective analysis.
19 Differentiating recurrent gliomas from post radiotherapy changes: Utility of advanced MRI techniques and their correlation with 99m tc-glucologenetic acid (GHA) brain SPECT.
20 Role of MDCT in staging of laryngeal carcinoma with limited MRI correlation.
21 Comparison of US, CT and MR Portography in children with EHPVO.
22 MRI and PET-CT evaluation of soft tissue sarcomas
23 Comparison of MDCT, Endoscopic Ultrasound, MRI & PET-CT in evaluation of pancreatic malignancy
24 A Study of Quality of Life of Live related Renal Donors
25 Protocol Biopsy in live related renal transplant recipients – Tacrolimus Versus cyclosporine
26 Feasibility of fast track discharge in breast cancer patients undergoing definitive surgery and impact on quality of life
27 Percutaneous management of malignant biliary obstruction.
28 Fast tract Thyroidectomy
29 Cosmetic outcome following breast oncoplasty
30 A randomized controlled trial of laparoscopic inguinal hernia repair- Trans-abdominal pre-peritoneal versus totally extra peritoneal approach.
31 Expression of beta hCG in benign and malignant breast diseases.
32 MRI in evaluation of chronic wrist pain.
**Collaborative Projects**

**Completed**

1. Total extra peritoneal hernia repair comparison o space creation by direct telescope vs. balloon dissection- A randomized controlled study.
2. Standardized mesh repair for inguinal hernia – A pilot study
3. Prospective Study to evaluate the role of Helicobacter pylori in benign and malignant hepatobiliary disease.
5. Identification of candida by conventional and rapid automated methods (with Medical Microbiology, Ch. Charan Singh University, Meerut)
6. To document the effect of the time of institution of DMARDs on the radiological outcome in patients with rheumatoid arthritis (with Medicine)

**Ongoing**

1. B hcg expression in patients with benign and malignant breast diseases
2. A prospective randomized control trial of sutured vs. tacker fixation of mesh in patients undergoing laparoscopic Incisional Hernia repair.
3. A prospective randomized comparison of TAPP vs. TEP repair in patients undergoing laparoscopic inguinal hernia repair.
4. Prospective Evaluation of laparoscopic Skills Acquisition in a Short Term Focussed Training Programme on a Phantom Model using Porcine Gall Bladder.
5. Transvaginal Cholecystectomy – a pilot feasibility study.
6. Role of FDG-PET and MRI in assessment of Osteosarcoma : Prechemotherapy and Post chemotherapy (with Medical Oncology and Orthopedics)
7. Regulation of Coagulation in orthopedic surgery to prevent DVT and pulmonary embolism (with Orthopedics)
8. Comparison of FDG-PET and Dynamic MRI in correlation of VEGF expression on tumour cells in patients with Osteosarcoma (with Medical Oncology)
9. Comparison of minimally invasive techniques and conservative treatment in vertebral collapse (with Orthopedics)
10. A comparative Evaluation of changes in ultrasonographic dimensions of masseter muscle with EMG activity prior and subsequent to twin block therapy (with Dental Surgery)
11. Clinico-radiological evaluation of total knee arthroplasty; short term retrospective-prospective study (with Orthopedics)
12. Assessment of endothelial dysfunction and oxidative stress in chronic kidney disease of varying severity and after renal transplantation (Department of Nephrology)
13. Randomized controlled trial of Radiofrequency ablation (RFA) versus percutaneous acetic acid injection (PAI) therapy for treatment of small hepatocellular carcinoma. (with Gastroenterology)
14. Randomized controlled trial of transarterial chemoembolization (TACE) versus TACE plus oral chemotherapy in the treatment of unresectable hepatocellular carcinoma (with Gastroenterology)
15. Randomized controlled trial Oral chemotherapy versus supportive therapy in the treatment of unresectable hepatocellular carcinoma. (with Gastroenterology)
16 Randomized controlled trial of N-Acetylcysteine in prevention of renal failure in hepatocellular carcinoma patients undergoing transarterial chemotherapy (TAC) and transarterial chemo-embolisation (TACE). (with Gastroenterology)
17 Metabolic characterization of soft tissue tumours and pathologic and radiological correlation with in vivo Magnetic Resonance Spectroscopy. (with Surgical oncology and NMR).

PUBLICATIONS
Journals
38. Jain TP, Srivastava DN, Mittal R, Gamanagatti S. Fibrolipomatous hamartoma of median nerve. Australasian Radiology 2007;51 (s1), B98–B100
69. Mathur P. Infections in Traumatized patients: Accepted in Indian J Medical Microbiology, 2008.
82. Sharma BS, Sinha Sumit, Mahapatra AK. Prolactinomas: Result of surgical treatment in a series of 158 cases. Progress in clinical neurosciences. Vol. XXI. (Accepted for publication)
83. Sharma BS, Sinha Sumit. Intracranial melanocytic and other tumors. Textbook of neurosurgery. (Accepted for publication)
89. Sinha Sumit Sharma BS (2007). Malignant paraganglioma of the sellar region simulating pituitary macroadenoma: case report and review of literature.. J of Clin Neurosc (accepted for publication)
Abstracts


Chapters in books


AWARDS, HONOURS AND SIGNIFICANT EVENTS

Dr. Babita Gupta successfully completed “Emergency Sonography School” held in January 2008.

Dr. Sanjeev K Bhoi is Assistant Editor: Journal of Emergencies, Trauma and Shock

Dr. Shefali K. Sharma received the ARA-APLAR (Australian Rheumatology Association -Asia Pacific League of Rheumatologist) Scholarship 2007 to attend and present at Australian Rheumatology Association Annual Scientific Meeting held at Sydney, Australia from 26-30th May, 2007.

Dr. Adarsh Kumar elected Joint Secretary, Indian Academy of Forensic Medicine for Governing Council 2008-10, for a consecutive second term.

Dr. Deepak Agrawal received ‘best paper’ award for co-authoring paper titled ‘Novel biochemical markers for diagnosing postoperative meningitis’ at the annual conference of Indian society of pediatric neurosurgery, held at Chandigarh, India from Nov 3-5, 2007; received 2nd best research paper award for the paper titled ‘Image guided in pituitary adenomas-luxury or necessity?’ at the annual conference of the skull base society of India, held at New Delhi from Oct 14-17, 2007.

Dr. Deepak Gupta invited speaker 16th Annual Neuro Trauma Conference, Gwalior, India 17-19 August 2007, lecture on Role of MRI as Outcome prognosticator in diffuse axonal injury; Received (i) Karl Storz fellowship for attending 8th ESBS Congress, Prague, Czechoslovakia (2-5 May 2008), (ii) Pediatric neurosurgery fellowship 14-22 Sept 2008 at Policlinico Gamelli, Rome, Italy; (iii) Best poster award for poster entitled Surgical management of petroclival tumors: defining resection/surgical outcome in 9th annual conference skull base surgical society of India, and International CME conference, New Delhi, India, 26-28th October 2007.

Dr. Sumit Sinha received International Society of Pediatric Neurosurgery Scholarship Award for the paper entitled ‘Intracranial aneurysms in children- are they different from adults. An experience in 66 cases; presented at the 35th Annual meeting of International Society of Pediatric Neurosurgery, Liverpool, UK, Sep 2007; Karl Storz Fellowship Award for the paper entitled ‘Microsurgical Management of Giant pituitary adenomas: A series of 177 cases’, presented at the 8th European Skull Base Surgery Congress; held at Prague, Czech Republic, May 2007; Best Poster award: Bilateral anterior cerebral artery aneurysms due to mucormycosis. Best Poster award at the 9th Annual Conference of Skull Base Surgery Society of India. New Delhi, India, October 2007.

Dr. John R. Bera awarded a scholarship by MASHAV, Ministry of External Affairs Israel to attend first Indo-Israel International Course on “Trauma and Mass Casualty Management” at Haifa, Israel, December, 2007; awarded Life membership of Indian Society for Trauma and Acute care; awarded life membership of Association for Trauma care of India.

Dr. Kamran Farooque elected joint secretary of IFSM; awarded membership (MRCS) of The Royal College of Physicians and Surgeons of Glasgow, UK.
Dr. Vijay Sharma elected Executive Member Indian Federation of Sports Medicine (IFSM) for 2008.

Dr. Vivek Trikha was Trauma and Reconstructive Fellowship Feb 26th -March 27th 2008, Katharinen; Trauma and Mass Casualty Management Course” Dec.8th-20,2007, Rambam University, Haifa, Israel; Delhi Orthopaedic Asssociation Travelling Fellowship” year 2007-08.

Dr. Shivanand Gamanagatti awarded ‘Editor’s recognition Award for reviewing’ (European Journal of Radiology).

Dr. Amit Gupta elected active member to the International Society of Surgery (ISS), Society International de Chirurgie (SIC); elected active member to the International Association of Trauma Surgery and Surgical Intensive Care (IATSIC); elected Founder Secretary to the Indian Society for Trauma and Acute Care (ISTAC); Workshop Director, Trauma Alert Assembly, Indo-US Emergency Medicine Summit 2007; Joint Secretary, Second AIIMS Surgical week and Endosurg-2008, International CME cum Live Workshop, 26–30 March 2008; awarded Life membership of Association for Trauma Care in India; awarded a scholarship by MASHAV, Ministry of External Affairs Israel to attend First Indo-Israel international course on “Trauma System and Mass Casualty Management” at Haifa, Israel December 2007; awarded a Travel scholarship by Department of Bio-technology, Govt. of India to attend above course.

Dr. Biplab Mishra appointed as an external examiner for MBBS final exam by Ahmedabad University; awarded Life membership of Association for Trauma Care in India.

Dr. Maneesh Singhal appraiser for Diplomate of National Board, National Board of Examinations; involved in formation of training module for general practitioners made by National board of examinations; awarded Life membership of Association for Trauma Care in India; instructor: BLS/ ACLS course awarded by American Heart Association.

Dr. Subodh Kumar Founder Member and Treasurer, Indian Society for Trauma and Acute Care; Joint Secretary, Indian Hernia Society; Founder Member and Treasurer, Society of Endoscopic and Laparoscopic Surgeons of India; Joint Secretary, Second AIIMS Surgical week and Endosurg-2008, International CME cum Live Workshop, 26–30 March 2008; awarded Life membership of Association for Trauma Care in India; Instructor, BLS/ ACLS Course awarded by American Heart Association; awarded scholarship by MASHAV, Ministry of External Affairs Israel to attend First Indo-Israel international course on “Trauma System and Mass Casualty Management” at Haifa, Israel Dec.2007; awarded Travel scholarship by Department of Biotechnology, Govt. of India to attend above course.

Dr. Sushma Founder Member, Indian Society for Trauma and Acute Care; Joint Secretary, Second AIIMS Surgical week and Endosurg-2008, International CME cum Live Workshop, 26-30 March 2008; Awarded Life membership of Association for Trauma Care in India, Indian society for Reconstructive Microsurgery, International Society for Burn Injuries and National Academy of Burns India; Instructor, BLS/ACLS course awarded by American Heart Association; awarded scholarship by MASHAV, Ministry of External Affairs Israel to attend First Indo-Israel international course on Trauma System and Mass Casualty Management at Haifa, Israel Dec.2007; awarded a Travel scholarship by Department of Biotechnology, Govt. of India to attend above course.
PATIENT CARE

<table>
<thead>
<tr>
<th>Total No. of Patients</th>
<th>Number</th>
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<tbody>
<tr>
<td>Attended J.P.N.A. Trauma Center</td>
<td>6683</td>
</tr>
<tr>
<td>Admitted in J.P.N.A. Trauma Center (New cases)</td>
<td>3362</td>
</tr>
<tr>
<td>Operated in J.P.N.A. Trauma Center (Old cases)</td>
<td>3321</td>
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<table>
<thead>
<tr>
<th>Emergency Attendance</th>
<th>Admissions</th>
<th>Operation</th>
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<tbody>
<tr>
<td>Neurosurgery</td>
<td>Orthopedics</td>
<td>Surgery</td>
</tr>
<tr>
<td></td>
<td></td>
<td>577</td>
</tr>
<tr>
<td>Orthopedics</td>
<td>866</td>
<td>1301</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>557</td>
</tr>
</tbody>
</table>

Total No. of casualty Registration: 15161; MLC: 6163, Non-MLC: 8998

Imaging Center

| Routine X rays                      | 27278     |
| Portable X rays                    | 3435      |
| Ultrasound including Doppler       | 1047      |
| CT                                  | 8672      |
| MRI                                 | 1044      |

New Equipment

1 radiography system with computed radiography unit
1 ultrasound Doppler unit

Blood Bank

| Total Samples received | 2607 Units |
| Total Blood cross matched | 5551 Units |
| Total Blood issued      | 2423 Units |
| Total FFP issued        | 1611 Units |
| Total Platelet Issued   | 622 Units  |
| Total Cryo Issued       | 55 Units   |
| SDP                    | 2 Units    |

Laboratory Medicine

Hematology

<p>| Hemoglobin          | 8805 |
| Total Leucocyte count | 8805 |
| Differential count   | 8805 |
| HCT                  | 8805 |
| RBC                  | 8805 |
| MCH                  | 8805 |
| MCHC                 | 8805 |</p>
<table>
<thead>
<tr>
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<tr>
<td>MCV</td>
<td>8805</td>
</tr>
<tr>
<td>RDW</td>
<td>8805</td>
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<tr>
<td>Platelet count</td>
<td>8805</td>
</tr>
<tr>
<td>Retic count</td>
<td>306</td>
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<td>Total</td>
<td>88,356</td>
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</table>

**Coagulation**

<table>
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</thead>
<tbody>
<tr>
<td>PT</td>
<td>3316</td>
</tr>
<tr>
<td>APTT</td>
<td>3316</td>
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<tr>
<td>TT</td>
<td>2859</td>
</tr>
<tr>
<td>Fibrinogen</td>
<td>2000</td>
</tr>
<tr>
<td>D-dimer</td>
<td>2859</td>
</tr>
<tr>
<td>Total</td>
<td>14,350</td>
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**Biochemistry**

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<tbody>
<tr>
<td>Sugar</td>
<td>2339</td>
</tr>
<tr>
<td>Urea</td>
<td>8490</td>
</tr>
<tr>
<td>Creat</td>
<td>4109</td>
</tr>
<tr>
<td>Calc</td>
<td>3561</td>
</tr>
<tr>
<td>Phos</td>
<td>3010</td>
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<tr>
<td>Uric Acid</td>
<td>725</td>
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<tr>
<td>Sodium</td>
<td>8748</td>
</tr>
<tr>
<td>Potassium</td>
<td>8755</td>
</tr>
<tr>
<td>TBIL</td>
<td>5132</td>
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<tr>
<td>TP</td>
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<tr>
<td>AST</td>
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<td>ALT</td>
<td>3554</td>
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<td>ALP</td>
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<td>AMY</td>
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<tr>
<td>M-TP</td>
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<td>CKMB</td>
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<td>CRP</td>
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**Lipid Profile**

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<tr>
<td>LDLD</td>
<td>520</td>
</tr>
<tr>
<td>TG</td>
<td>520</td>
</tr>
<tr>
<td>VLDL</td>
<td>320</td>
</tr>
<tr>
<td>Total</td>
<td></td>
</tr>
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**Routine and Microscopic Examination of Urine**

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<tr>
<th>Test</th>
<th>Value</th>
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<tbody>
<tr>
<td>Total</td>
<td>11,485</td>
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</table>

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Microbiology

A. Total bacterial cultures: 3396
B. Antibiotic sensitivity: total: 2354
   By VITEK : 1177
   By Disc diffusion : 1177
C. Viral Markers: Total: 554
   HIV serology: 208
   Hepatitis B serology : 187
   Hepatitis C serology : 159
D. Hospital Infection surveillance cultures =1006
   Grand Total = 1,96,432.00

Physiotherapy
Number of Physiotherapy sessions for indoor patients: 2989
Number of physiotherapy sessions for outdoor patients: 4296

VISITING SCIENTISTS
1. Dr. Maureen (Shock Trauma Centre, Baltimore, Maryland)
2. Dr. Sunil Ahuja (Shock Trauma Centre, Baltimore, Maryland)
3. Dr. Mosche Michaelson (Ramban Trauma Centre Haifa, Israel)
4. Ms. Gila Hymes (Ramban Trauma Centre Haifa, Israel)
5. Dr. C. Kaufmann, International Chair ATLS
6. A team of Doctors from U.K. (FRCS Examiners)
7. A team of Doctors from Nepal Medical Council
8. A team of doctors for various Medical Colleges of India for specification Committee meeting under PMSSY Scheme.
Timings and Membership
The library is open round the clock on all days of the week including Sundays and holidays, w.e.f. 1st August 2003. It has 2282 regular members on its roll. On an average 700 readers consult 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 fortnightly service, listing new periodicals received in the library during the previous fortnight.

3. Bibliographies on demand
The staff of the library compiled bibliographies on various topics as and when demanded by the readers.

4. 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.

5. Reprographic services
The library has five machines to meet the demands of the readers viz one PRO35, two 5834LV and two Modi Xerox 1025. During the year 1,37,912 pages were photocopied, on payment basis, as a service to the readers.

6. CD-ROM printout services
During the year 15,912 computer printout pages containing abstracts or full text of articles were made available to the readers on payment basis.

7. Book Bank
The Book Bank continues to serve the undergraduates and interns. The total membership of the Book Bank is 70. The Book Bank has more than 2,600 books, which are issued on a long-term basis to the students.
8. Microforms section
The library is equipped with two microfilm readers and one microfilm/microfiche reader-cum-printer. The library has 1,627 microforms in its collection.

9. 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.

10. CD-based service
The library has different data bases on CD-ROM, i.e. MEDLINE, POPLINE, ONCO DISC and LISA, etc. Different encyclopaedias and dictionaries have also been acquired on CD-ROM. The number of CDs currently is 778.

11. CD-NET
A CD-NET workstation is operational in the library since January 1993. Fifteen users at a time can search different databases loaded in a CD-NET tower. The library has been a pioneer in this respect being among the few libraries in the country to install such a facility. A printing facility is also available. The library has expanded this facility by adding one more CD tower with 28 drives.

12. Library automation
The library has a digital ALPHA personal workstation DPW 433 AU with sixteen terminals, one laser printer, one line printer and three local dot matrix printers. The various housekeeping operations, viz. acquisition, cataloguing, series control and circulation have been automated. The library is using a commercially available software package named LIBSYS.

13. Computerized thesis search
About 5,290 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.

14. Online journals
In the current year, the library received 446 journals in electronic and print versions and 46 journals only in electronic form.

15. OPAC (Online public access catalogue)
All the records from 1985 onwards are searchable through a computer. The theses received so far in the library can also be retrieved through OPAC. Other databases searchable through OPAC are 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.

16. Multimedia
The library has two multimedia sets. Few multimedia titles are also available.
17. E-mail
The library participates actively in DELNET (Developing Library Network). An e-mail modem has been provided by DELNET for communicating with other libraries. Besides this, the library also has an e-mail connection provided by the Institute.

18. 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. Eighteen nodes are available to the users.

19. New additions
The library added 702 new books to its collection. It now has a total of 70,814 books. Also 1325 bound volumes of journals and 156 pamphlets/reports were added to the collection. The total number of bound volumes of journals and reports/pamphlet increased to 66,600 and 16,805, respectively. The library subscribed to 634 journals in various field of health sciences; 358 of these were received in electronic form along with their print versions. Twenty-eight journals subscribed in print and electronic version on behalf of the National Drug Dependence Treatment Centre (NDDTC) are also available for use of readers.

New ventures
1. A documentation centre containing publications of the faculty was set up.
2. A section containing books in Hindi, mostly in the health sciences, was setup. During the year 72 titles were added to this section.

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Dr R. P. Kumar, Chief Librarian was awarded the first Medical Library Association of India (MLAI) Life Time Achievement Award for his contributions to the profession and innovations during the National Convention of Medical Library Association of India (MLAI-2007) at Gaya, Bihar on 3 December 2007; continued as Vice President, MLAI, 2007–08; continued to be Chief Editor, MLAI News, a quarterly publication of the MLAI; was nominated expert member by Director, National Institute of Health and Family Welfare, New Delhi to look after revision of pay scales of various library posts; was elected unanimously General Secretary, Asian Society for Health Sciences Librarians and Information Specialists (ASHLIS) for 2008–10; continued as nominated member of Delhi Library Board (Governing Body of Delhi Public Library) for 2007–08; was Director of Seminar on ‘Management of E-Resources’ held at Government Medical College, Chandigarh, 16 April 2007; delivered lecture ‘Electronic resources: Some key issues’ at 8th Training course on IT applications, National Institute of Health and Family Welfare, New Delhi, 15 October 2007; Director, Annual Convention, MLAI, A. N. Magadh Medical College, Gaya, Bihar, 3–6 December 2007; presented a poster at Fourth International Conference on ‘Bridging the Digital Divide’ at Kathmandu, Nepal, 13–15 December 2007.
AIMS AND OBJECTIVES
The AIIMS cafeteria, established in 1972, provides wholesome food at reasonable prices to AIIMS employees. 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 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. Smt Rashmi Jain, 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
10. Smt Swapna Chaturvadi, 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) situated near Jawahar Lal Nehru Auditorium
2. Main operation theater cafeteria situated at 9th floor of the main hospital
3. CNC cafeteria situated on the 2nd floor of the Centre
4. Dr R.P.C. O.T. cafeteria situated on the 5th floor of the Centre
5. Apex J.P.N. Trauma Centre
6. Faculty Room cafeteria situated near main cafeteria
7. Dr B.R.A. IRCH Cafeteria situated at 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.

STAFF STRENGTH
Eighty-nine 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.

ANNUAL TURNOVER
The total turn over of the cafeteria is approximately Rs 1 crore 53 lakhs.

DEVELOPMENTAL ACTIVITIES
Several changes were introduced in the cafeteria during the year.

Facility of LPG tandoor at main cafeteria
An LPG tandoor was procured to prepare tandoori dishes hygienically. Many changes were made to improve the ambience at the cafeteria.

Services started at Dr BRA IRCH Centre and Trauma Centre
An extension counter of the cafeteria was started at Dr BRA IRCH Centre and the Trauma Centre for the faculty, doctors and other staff members.

Medical checkup of cafeteria employees
All cafeteria workers were examined medically for their fitness as food handlers.

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. A detailed working proposal has been prepared after several meetings and a professional architect has been hired. The proposal envisages complete renovation along with addition of one floor to the existing cafeteria. The building plan of the proposal is currently awaiting approval of the New Delhi Municipal Committee.
11.3 Central Workshop

Faculty Co-ordinator
Manoj K. Singh

Officer-in-charge (w.e.f. 30 March 2007)
Kalu Ram

Technical Officers
Harinder Pal Nitin Srivastava Swaraj Kumar

The Central Workshop is mainly engaged in the repair and maintenance of instruments used for medical education, scientific research and hospital services. 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. Glass blowing
6. Carpentry and upholstery
7. Painting

FABRICATION AND GUIDANCE
The Central Workshop has contributed to the research activities of the Institute by modification of instruments and fabrication of useful equipment. In many cases it has been possible to design and fabricate items that were previously imported by departments with locally available components. A total of 118 jobs of fabrication were carried out. The Central Workshop also provided support for the repair and maintenance of various new instruments developed by the workshop. Some of the important specialized fabrication jobs done successfully for various departments include:

- Testicular prosthesis (Department of Paediatric Surgery)
- Fumigation chamber (Main operation theatre 6 and 7)
- Auto CPAP connector (Department of Medicine)
- ‘T’ connector (Dr BRAIRCH Main operation theatre)
- Rat chamber (Department of Pharmacology)
- Spreader (Department of Biotechnology)
- Plastic Falcon tubes (Stem Cell facility)
- Glass column (Department of Biophysics)
- Adjustable CSF bag (Department of Neurosurgery)
- Arm rest (Department of Obstetrics and Gynaecology, IVF operation theatre)
- Jaw clamp (Department of Dental Surgery)

The workshop also contributed by fabricating very specialized glass moulds for the Department of Obstetrics and Gynaecology. These moulds are used extensively by the department and are not
available in the market. In addition, glass rods of different shapes (L, V and U), glass capillaries, Pasteur pipettes and measuring cylinders were fabricated for all the departments as well as for the main hospital.

**REPAIR AND MAINTENANCE**

The Central Workshop has carried out repair and maintenance of all types of biomedical equipment including electrosurgical units, ECG machines, infusion pumps, multiparameter monitors, defibrillators, patient warmers, operation theatre tables, 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, etc.

The Central Workshop has also economically and successfully repaired many electronic types of equipments that manufacturing companies had proposed for condemnation. These include patient monitors, defibrillators, infusion pumps and patient warmers, etc.

The Central Workshop has also undertaken repair and painting jobs of all hospital furniture such as patient beds, patients lockers, intravenous stands, instruments trolleys, loading trolleys, fowler beds, etc. During 2007–08, the Central Workshop attended to a total of 8,325 repair jobs.

A total of 8,443 repair and fabrication jobs were done during the year.
11.4 K.L. Wig Centre for Medical Education and Technology

Dean (Examination)
T. D. Dogra

Professor-in-charge
Rita Sood

Coordinator
O. P. Kharbanda

Educationist
B. V. Adkoli

Education Media Generalist
Yogesh Kumar

Chief Technical Officer (Scientist IV)
Vacant

Adjunct faculty
Faculty from different departments

EDUCATION

Undergraduate, postgraduate, paramedical
Dr Rita Sood coordinated an ‘Orientation Program for Interns’ on 5–6 January 2008 for the new batch of interns at AIIMS. Many CMET adjunct faculty were resource persons for the program. CMET provided inputs to the MB, BS curriculum committee deliberations of phase 1 and phase 2. A feedback questionnaire was designed for phase 1. Inputs were provided to Examination Cell for appraisal and revision of undergraduate and postgraduate examinations.

Twenty sessions were conducted for MSc Nursing students of College of Nursing, AIIMS on topics related to media and communication. Five sessions were conducted for residents of Masters in Hospital Administration on computer applications.

Continuing medical education

Conferences/workshops organized by the Department
CMET in collaboration with Foundation for Advancement of International Medical Education and Research (FAIMER), Philadelphia, USA organized a National Conference on Medical Education (NCME 2007) on ‘Building Capacity in Medical Education: A National Perspective’ from 15 to 17 November 2007. It was attended by more than 100 participants comprising of senior faculty, Deans, Principals of Medical Colleges, Vice-Chancellors of Health Sciences Universities and international experts. As part of NCME 2007, 4 pre-conference workshops were also organized. The core group of organizers consisted of Dr Rita Sood (Organizing Chairperson), Dr A. Shariff (Organizing Secretary), Mr. Yogesh Kumar and Dr Radhika Tandon (Co-organizing Secretaries), Dr B. V. Adkoli, Mr Ragu Kumar, Dr Nalin Mehta, Dr Nibhriti Das, Dr Rajiva Gupta and Dr Kalpana Luthra.
Two in-house workshops on Assessment Strategies in Medical Education were held on 1–3 August 2007 (Organizing Secretary: Dr Arti Kapil) and 21–23 February 2008 (Organizing Secretary: Dr Nalin Mehta).

Lectures delivered

Dr Rita Sood
Course faculty for:
   The sessions conducted at these courses were (i) Project management, (ii) Student assessment, (iii) Mentoring–learning web and virtual curriculum, (iv) Qualitative research, and (v) Educational scholarship
   • ‘One minute preceptorship as a teaching method’, Seminar for Directors and Faculty of FAIMER regional institutes (DAFFRI) at FAIMER, Philadelphia, USA, 18–22 August 2007.
   • ‘Written communication’, Interns orientation program, AIIMS, New Delhi.
   • ‘Role of medical education units’, Regional workshop on ‘Role, relevance and effective utilization of medical education units for faculty development in medical education’, Nagpur, 3 February 2008.

Dr O.P. Kharbanda
• ‘Role of continuing professional development in the accreditation program’, Dental Council of India.

Dr B.V. Adkoli
• Two lectures on ‘Group dynamics’ for Residents, Department of Hospital Administration, AIIMS.
• Panelist for the session ‘Communication and team work’, AIIMS PG orientation programs, July 2007 and January 2008.
• ‘Communication skills’, Training program on Management of HIV/AIDS for Nurses, Department of Medicine and Delhi State AIDS Control Society.
• Session on ‘Group dynamics’, National Workshop on Advanced Educational Technology, Nursing for Quality Patient Care, Trained Nurses Association for India.
• ‘Ethics and professionalism in patient care’, AIIMS Intern’s orientation program.
• ‘Group dynamics’ and ‘Microteaching’, College of Nursing workshop on ‘Effective teaching and learning strategies’.
• Resource person, Workshop on faculty development, FAIMER Regional Institutes, CMC, Ludhiana.
• Resource person, Workshop on ‘Strengthening teaching and learning skills’ for nursing faculty, Himalayan Institute College of Nursing, Dehradun.

Mr Yogesh Kumar
• Twenty-hours module for the fourth batch of MSc Nursing on various aspects of educational technology and role of media in communication.
• ‘Digital photography’, Surgical Workshop and CME on ‘Rhinoplasty and FESS’ Otorhinolaryngology & Head and Neck Surgery and Otorhinolaryngological Society, AIIMS.
• Three sessions on ‘Effective presentation’, ‘Designing OHP’ and ‘Micro-teaching’, Workshop organized by Trained Nurses’ Association of India (TNAI).
• Demo lecture on ‘Video editing: Tips and tricks’, Conference Skull Base 2008, Department of Neurosurgery, AIIMS.
• Hands on training on ‘Digital Photography and ‘Video Editing’ during Indian Association of Surgical Gastroenterology Conference, AIIMS, New Delhi, September 2007.
• Resource person, Workshop organized by College of Nursing, Himalayan Institute Health Trust, Dehradun; Conducted sessions on assessment, media selection, effective presentation and microteaching for nursing faculty.
• Demo lecture on ‘Reviewing techniques in word’ and ‘Inserting cross-references in word’ during pre-conference workshop on ‘Essentials of Research Methods and Good Scientific Writing in Reproductive Health’, 51st All India Congress of Obstetrics & Gynecologists, New Delhi.

Dr Manju Mehta
• ‘Communication skills and psychosocial issues in healthcare’, AIIMS Interns orientation program.

Dr Nalin Mehta
• Participated in workshop on Faculty development organized by the FAIMER Regional Institutes at CMC, Ludhiana.
• ‘Ethical Issues’, AIIMS PG orientation program.
• ‘Ethics and professionalism in patient care’, AIIMS Interns orientation program.
• ‘Ethics’, Workshop organized by Trained Nurses Association of India (TNAI)

Dr Kalpana Luthra
• Participated in workshop on Faculty development organized by the FAIMER Regional Institutes at CMC, Ludhiana.
• Conducted session on ‘Role of MCQs’, In-house workshop on Assessment in Medical Education, November 2007 and February 2008.

Dr Nibhriti Das
• Conducted a session on ‘Student feedback’, In-house workshop on Assessment in Medical Education, November 2007 and February 2008.

Dr Arti Kapil
• Conducted session on ‘Improving essays’, In-house workshop on Assessment in Medical Education, November 2007 and February 2008.

Mr Ragu Kumar
• Session on ‘Role on computers and information technology in Nursing education’ for the National training program for nursing teachers organized by Trained Nurses Association of India.
• Session on ‘Computer assisted learning’ for the National workshop on Effective teaching and learning strategies for Nursing teacher from Delhi region at AIIMS.
• The adjunct faculty of CMET, Dr Nibhriti Das, Dr A. Shariff, Dr Nalin Mehta, Dr Kalpana Luthra and Dr Ashok Jaryal were also resource persons for National Workshop on Assessment Methods for Learning and Evaluation in Basic Sciences organized by the Department of Physiology, AIIMS in September 2007.

RESEARCH

Completed
• Critical appraisal of assessment in key clinical disciplines in undergraduate course at AIIMS (Dr Rita Sood), as a part of FAIMER Fellowship program, Philadelphia, USA.
• Appraisal of the undergraduate biochemistry practical curriculum (Dr Kalpana Luthra) as a part of fellowship program of Regional FAIMER Institute, CMC, Ludhiana.
• A survey of medical educations units and faculty development programs in medical colleges of India. (Dr BV Adkoli and Dr Rita Sood)

Ongoing
• Introduction of bioethics in AIIMS undergraduate curriculum (Dr Nalin Mehta) as a part of FAIMER fellowship program at Regional FAIMER institute, PSG Institute of Medical Sciences and Research, Coimbatore.
• Implementation and evaluation of structured clinical case presentation for assessment of fourth and fifth semester undergraduates posted in the Department of Pediatrics, AIIMS (Dr Vandana Jain) as a part of FAIMER fellowship program at Regional FAIMER Institute, Seth G.S. Medical College, Mumbai.

PUBLICATIONS
SERVICES

Media production during 2007–08

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<th>No. of requisitions</th>
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</thead>
<tbody>
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<td>496</td>
</tr>
<tr>
<td>X-ray, specimen, gel, etc.</td>
<td>511</td>
</tr>
<tr>
<td>Photographic prints (black and white, and colour)</td>
<td>365</td>
</tr>
<tr>
<td>Scanning of images (slides, documents)</td>
<td>407</td>
</tr>
<tr>
<td>Video recording, editing (non-linear) including tape to CD conversion</td>
<td>295</td>
</tr>
<tr>
<td>Designing/printing of large format posters</td>
<td>479</td>
</tr>
<tr>
<td>Book binding, paper cutting and offset printing</td>
<td>185,20,000 approx.</td>
</tr>
</tbody>
</table>

Photography support was provided to 39 institutional academic events and 36 official functions.

Upgradation of facilities

The following technology-based facilities were installed/augmented for the benefit of interactive training workshops conducted for faculty, residents and nurses and for quality improvement of services provided by the CMET:

1. Computer-based teaching facility with network and internet facility with 12 PCs and provision for wireless connectivity and online access to LRMs.
2. Networking of media production facility.
3. State of art multimedia projector, visual projector, electronic copy board, high end non-linear editing system, drawing tablet, DVCAM camera and A3 size high end transparency scanner have been installed. Multiple round tables and flip boards have been procured to facilitate small group participatory activities.
4. Media requisition software upgradation was done and installed at CMET reception for an efficient tracking and reporting system for users requests for posters, photography and other services.

AWARDS, HONOURS AND SIGNIFICANT EVENTS

Dr Rita Sood was Member, International Advisory Board, 7th edition of Text book of Clinical Medicine by Kumar and Clark; Executive Committee Member, South East Asian Regional Association of Medical Education (SEARAME); Member, Association for the Study of Medical Education in Europe (ASME); Editorial Board, South East Asian Journal of Medical Education (SEAJME), Published from Chulalongkorn University, Bangkok, Thailand; Commissioned to write a paper on Medical Education in India for the series ‘Medical education around the world’ in the journal Medical Teacher; invited expert, Medical Council of India for undergraduate and postgraduate curriculum revision in Medicine; Reviewer for Int J Med Edu, Natl Med J India and JIACM.

Dr. Radhika Tandon continued as member of the core group for introduction of OSCE style examination by the National Board of Examination (since 2001–ongoing); remained on the panel of examiners in Ophthalmology of Royal College of Surgeons, Edinburgh (since 2000–ongoing); organized a number of public health education programs, awareness drives for eye donation through distribution of charts and pamphlets; delivered talks on eye donation on DD Prasar Bharati and other channels.
**Dr Rita Sood and Dr BV Adkoli** were members of the expert committee constituted by DGHS, Ministry of Health and Family Welfare on the revision of curriculum for the MBBS course; invited by Medical Council of India for brainstorming session on Medical Faculty Training and development at the national level.


11.5 Computer Facility

Deputy Director and Head
R.S Tyagi

Systems Analyst
S.N. Ragu Kumar Satish Prasad

Senior Programmers
Sushil Kumar Meher V.K Jindal
S.P.Singh Vinay Pande

Programmer
Hari Shankar

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. 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 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, MCA and MCM) from various engineering colleges in and outside Delhi. The facility organized videoconferencing facilities for lectures of faculty members of AIIMS to other medical colleges/hospitals in India. Conducted a workshop on use of internet and email facilities at JPNATC, 25 August 2007, for the Faculty and Junior/Senior Residents of JPNATC

SERVICES

Hospital computerization
Computer Facility has migrated to latest SQL Server 2005 and Windows Server 2005. The following software design, development and implementation activities were done by the computer facility during this year.

1. Successfully implemented computerized registration of OPD patients, daycare registration and appointment of cancer patients at Dr BRA IRCH in July 2007. The backlog entries of all old patients’ demographic information since inception have been entered into the system. The
operational modules are (i) registration (OPD/inpatient/daycare), (ii) cash section, (iii) laboratory, (iv) surgery, (v) anaesthesia, (vi) pain clinic, (vii) MRO, and (viii) daycare appointment.

2. Successfully implemented computerized registration of new OPD patients for all clinical departments at main hospital in October 2007. Registration of 19 departments was completed by March 2008.


4. Successfully integrated neurosurgery patients receipt counter, neurosurgery billing section and neurosurgery OT store in July 2007.

5. Successfully demonstrated electronic registration of new patients both for OPD and clinics at cardiac and neurosciences centre. Software is ready for implementation.

6. Since February 2008, OPD registration of dental patients has started at Centre for Dental Education and Research (CDER). Viewing of digital image through network is in the process of implementation.

7. Discharge summary for patients of some clinical departments such as Gastroenterology, Orthopaedics, CTVS, Neurology, etc and Disability certificate for both Orthopaedics and Physical Medicine and Rehabilitation are running successfully.

**Software development**

1. Software maintenance on duty book for control room (MS-Office)
2. Database and software maintenance for pathology reports
3. Database and software maintenance for PMR
4. Registration software for patients at Trauma Centre
5. Software for physiotherapy patients.
6. Physical activity software for the Department of Medicine
7. Software for haematology patients data including various haematology tests
8. Software for histopathology and cytopathology tests for Dr RP Centre for Ophthalmic Sciences
9. Baseline proforma software for young diabetic patients, Department of Endocrinology
10. Analyzing, designing and development of main billing system
11. Providing training to hospital system users
12. Development of Neurosurgery main stores and OT stores system
13. Computerization of academic section, research section and library
14. Technical coordination for creation of network-based teaching facility and for various IT related infrastructure development at CMET
15. Report generation package for academic section
16. Modification and maintenance of CMET requisition system.
17. Maintenance of hostel reservation system.

**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.

**B.B. Dikshit Library**
Technical co-ordination for online journal access and provision of journal access using internet and PC at duty rooms and common rooms for scholars and senior/junior resident doctors.

**Networking, Internet and Intranet**
1. Analysis, design and development of state-of-art structured network for the JPNATC, New Delhi with more than 60 nodes throughout the hospital, academic and administrative areas.
2. Development of fiber optic backbone to connect Centre for Dental Education and Research.
3. Installation of 45 mbps leased line (1:4) for internet for use in academic and office work.
4. Technical coordination for study of wireless connectivity of Hostels.
5. Development of draft network security policy.
6. Co-ordination of the Training program for the concerned staff and officers on the Indian Government tenders information system for online tender information of AIIMS.
7. Co-ordination for installation of point-to-point connectivity of wireless interconnectivity between computer facility and JPNATC and Department of Forensic medicine.
8. Involved in technical specifications committee for library computers, networking and internet for students at B.B. Dikshit Library, integrated web appliance for antivirus, antispam, webmails, etc.
10. Creation of webmail facility.
11. Website www.aiims.edu, www.aiims.ac.in are maintained in-house. There were about 24 lakh visitors to the website during 2007–08. Software modules for the website are developed in house.
12. Internet facility for faculty and students were maintained 24x7x365 days at around 1400 nodes.
13. Remote access internet facility for faculty on the campus wide telephone network 24x7x365 days was continued.
14. Creation and maintenance of users accounts for 564 aiims.ac.in domain email users.
15. Maintenance of Web Server, Proxy Server, Messaging server 24x7x365 round the year.
16. Design, development and modifications in the Dharamshala reservation system.
17. Design and development of web-based cardiac radiology laboratory system.
18. Design and development of the web-based CTVS appointment system.

**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>216</td>
</tr>
<tr>
<td>Conferences, workshops, lectures and orations</td>
<td>230</td>
</tr>
<tr>
<td>Recruitment for faculty and other posts</td>
<td>83</td>
</tr>
<tr>
<td>Admission notices, results and others under ‘Current events’</td>
<td>413</td>
</tr>
<tr>
<td>Members of Institute body and other standing committees</td>
<td>4</td>
</tr>
</tbody>
</table>
Central facilities 22
RTI information, notices, health information, hostel, etc 109
Tenders and notices 355
Total 1432

Other web-based activities

<table>
<thead>
<tr>
<th>Activity</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data uploaded on Exam server</td>
<td>117 MB (approx)</td>
</tr>
<tr>
<td>Number of email users at aiims.ac.in</td>
<td>649</td>
</tr>
<tr>
<td>Number of tenders uploaded on <a href="http://tenders.gov.in">http://tenders.gov.in</a> website</td>
<td>1,491</td>
</tr>
<tr>
<td>Number of internet users at the user room</td>
<td>16,734</td>
</tr>
<tr>
<td>Number of virus mails detected</td>
<td>17,268</td>
</tr>
<tr>
<td>Number of valid mails</td>
<td>10,74,000</td>
</tr>
<tr>
<td>Number of spam mails detected and filtered</td>
<td>4,02,39,240</td>
</tr>
<tr>
<td>Total data transferred (as of June 2008)</td>
<td>69,36,264 MB</td>
</tr>
<tr>
<td>Number of internet nodes</td>
<td>1400 approx</td>
</tr>
</tbody>
</table>

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

Administrative sections
1. Technical co-ordination for the New telephone directory Committee at AIIMS.
2. Software of Cheque Printing for Budget Section

Examination section
Coordinated and conducted computerized online counseling for MD/MS/MDS and selection of Junior Residents (non-academic). All exam results and notices were hosted on the website.

Telemedicine
1. Technical co-ordination for establishment of pilot/inaugural link between AIIMS and REC, New Delhi inaugurated by President of India; for webcasting user facility for web-based learning and CME.
2. The existing telemedicine facility was upgraded by ISRO VSAT and now supports high quality transmission for Ballabgarh unit.
3. The following programs were organized: 19 CMEs, 43 case discussions, and 25 national and international conferences.

SIGNIFICANT EVENTS
Dr R. S. Tyagi was elected Member, Audit Committee, International Medical Informatics Association, 2007–10; Member, Board of Studies, Himgiri Nbh Vishwavidyalaya, Dehradun, Utarakhand; conducted Symposium on Medical Informatics, Delhi Chapter of IAMI, New Delhi, 5 September 2007; adjudged among 100 CIOs of India by IDG, an international agency.
Mr S. Kailash attended and chaired a scientific session, Silver Jubilee National Conference of Indian Society for Medical Statistics, Manipal, Mangalore, Karnataka, 30 November–2 December 2007; presented paper titled ‘Patterns of practice of telemedicine at a quaternary super-specialty referral hospital in a developing country, Medinfo 2007 triennial congress, 20–24 August 2007, Brisbane Convention Centre, Australia; was Selection Committee expert for selection of System administrators and Group A Scientific officer at ERNET, Ministry of Information Technology, Government of India

Mr S.N. Ragu Kumar attended 4 national conferences/meetings; conducted session on ‘Information management in biomedical informatics’, ICMR workshop; delivered lecture ‘Use of IT in patient care’, PG orientation course, AIIMS, 4 August 2007; delivered a lecture ‘ICT in nursing education: e-learning’, Symposium on Effective teaching and learning strategies in nursing education, AIIMS; delivered a lecture on ‘Computer aided learning: e-learning’, National training program for nursing professionals, TNAIL, New Delhi; conducted a session on ‘Internet and rhinology’, National conference on Rhinology, 30 December 2007, Department of ENT, AIIMS; member of study team for comparative study on ‘in person versus tele-medicine based learning for nursing education’, Department of Paediatrics, AIIMS; delivered lectures ‘Information technology in disaster management’ and ‘Tele-Medicine’, Indian Red Cross Society; Executive and organizing committee member, National conference ‘Building capacity in medical education—a national perspective’, 15–17 November 2007; Expert, selection of ‘IT-coordinator’, Indian Red Cross Society; Member, Committee to review project on hospital management information system for the rural health center, Ballabgarh; guide for dissertation ‘Information technology in disaster management’, Guru Gobind Singh Indraprastha University.


Mr Sanjay Gupta attended 2 national conferences; represented AIIMS at Telemedicine User’s Meet, Workshop organized by ISRO, Ahmadabad, 3–4 May 2007.

Mr Vinay Pande was elected Treasurer, Indian Association of Medical Informatics (2008–09), continuing as Treasurer, Delhi Chapter of IAMI; Member, Organizing team of (i) Seminar on Medico-Legal Informatics, Organized jointly by IAMI (Delhi Chapter) and India Legal Information Institute, Greater Noida, UP, 29 April 2007; (ii) Symposium, Medical Informatics, IAMI (Delhi Chapter), New Delhi, 5 September 2007; panelist in symposium ‘Medical Informatics in India: Looking Ahead’, New Delhi, 5 September 2007; panelist at National Convention of MLAI, Gaya Medical College Gaya, Bihar and presented paper ‘The knowledge manager—Changing role of health science librarians in information age’, 3–6 December 2007.

VISITING SCIENTISTS
1. Professor Diana Schmidt, School of Medical Informatics, Beidelberg University and Heilbronn University, Germany.
**11.6 Electron Microscope Facility**

<table>
<thead>
<tr>
<th>Officer-in-charge</th>
<th>Shashi Wadhwa</th>
</tr>
</thead>
<tbody>
<tr>
<td>Associate Professor</td>
<td>Taposh K. Das</td>
</tr>
<tr>
<td>Associate Professor</td>
<td>T.C. Nag</td>
</tr>
<tr>
<td>Technical Officer</td>
<td>Mr Rajesh Pathania</td>
</tr>
<tr>
<td>Technical Assistant</td>
<td>Mr Sandeep Arya</td>
</tr>
</tbody>
</table>

**EDUCATION**

1. A training programme on Scanning electron microscopy (SEM) and Transmission electron microscopy (TEM) was conducted for 14 MTech (Nanotechnology) and MSc (Nanoscience) students of Amity Institute of Nanotechnology, Noida, 2–10 April 2007.

2. Twenty-four MSc and PhD students from JNU visited the EM laboratory on 9 April 2007.

3. Five WHO fellows visited EM laboratory on 29–30 April 2007 and were instructed on principles of EM and processing of biological samples for EM observation.

4. Twenty-four students from the British School, Chanakyapuri, New Delhi visited the EM facility on 28 November 2007.

5. Eighteen MSc students from Jamia Milia Islamia visited EM laboratory on 30 January 2008.

**Continuing Medical Education**

1. The 23rd National Training Programme in Electron Microscopy for Scientific Investigators was held, 12–24 November 2007. The training programme was conducted in two parts:
   a) **Basic course (12–17 November 2007):** 17 scientific investigators, selected from 51 applicants from various parts of the country participated. The course comprised of 2 weeks of hand-on training on techniques of biological sample preparation and operation of SEM and TEM for viewing self-prepared samples.
   b) **Advanced course (19–24 November 2007):** 13 scientific investigators, selected from 46 applicants, from various parts of the country participated. The course consisted of hands-on training-cum-demonstration of special techniques in EM, viz. microwave technique for sample preparation, immunoelectron microscopy, cryoelectron microscopy, image analysis, stereology and digital imaging.

2. Summer Training Course for Technical Personnel in Electron Microscopy was held for 6 weeks, 2 July–11 August 2007. Dr Madhu Yashpal, Scientist, EM Facility from Institute of Medical Sciences, Banaras Hindu University, Varanasi, was trained in sample processing, microtomy, CPD, sputter coating, TEM and SEM viewing, photography and routine maintenance.
RESEARCH

Funded projects

Ongoing
1. Role of free radical scavengers and the effect of antioxidants on their levels in patients with ankylosing spondylitis—to investigate the possible role of antioxidants as therapeutic agents in ankylosing spondylitis. Taposh K. Das. Funded by ICMR for 3 years (2005–08). Funds: Rs 14.23 lakhs.

Completed

Departmental projects

Ongoing

Collaborative projects

Completed
1. Effects of certain plant extracts on experimentally induced myocardial infarction in rat (with Pharmacology).

Ongoing
1. Influence of prenatal auditory stimulation on the development of synaptic proteins, BDNF and spatial memory in chick hippocampus (with Anatomy). T. C. Nag.

PUBLICATIONS


**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>Transmission electron microscope</td>
<td>387</td>
<td>1901</td>
</tr>
<tr>
<td>Scanning electron microscope</td>
<td>234</td>
<td>1617</td>
</tr>
<tr>
<td>Immuno-electron microscope</td>
<td>38</td>
<td>59</td>
</tr>
<tr>
<td>Elemental analysis (EDAX)</td>
<td>26</td>
<td>119</td>
</tr>
</tbody>
</table>

**AWARDS, HONOURS AND SIGNIFICANT EVENTS**

**Dr Taposh K. Das** was invited to review for Microscopy Research and Technique, Ohio, USA.

**Dr T.C. Nag** presented a talk at the Silver Jubilee meeting of Indian Academy of Neurosciences, 22–25 November 2007, BHU, Varanasi; attended Workshop on Cryo electron microscopy and 3D tomography in biology, 3–4 December 2008, NICED, Kolkata; invited to review for *Indian J Ophthalmol*.

**Professor Shashi Wadhwa** delivered a plenary lecture, chaired a session and judged the best electron micrograph contest and attended the meetings as member of the National Advisory Committee of the XXIX Annual Conference of Electron microscope Society of India, University of Delhi, 26–28 November 2007.

**Professor Shashi Wadhwa, Dr Taposh K. Das and Dr T.C. Nag** attended the meeting of the Steering Committee for the Sophisticated Analytical Instrument Facilities (SAIF) held at DST, New Delhi on 21 January 2008 where Professor Wadhwa presented the performance of Electron Microscope Facility during 2006–07 and the proposal for 2007–08.
The activities of the facility during 2007–08 are listed below.

**SMALL ANIMALS (RODENTS)**
The following small animals (average/month) have been maintained throughout the year:

- Rats (Wistar) 1,372
- Mice (Swiss) 1,236
- Rabbits (New Zealand) 87
- Guinea Pigs (Dunkin Hartley) 37

A total of 3,205 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 296, mice 446, rabbits 19 and guinea pigs 2.

**LARGE ANIMALS (SHEEP)**
The sheep colony housed 21 sheep for research work of the microbiology department.

**NON-HUMAN PRIMATES (MONKEYS)**

**Census report**

| Total number of monkeys on 1 April 2007 | 85 |
| Number of deaths | 14 |
| Born in the colony | 4 |
| Total number of monkeys on 31 March 2008 | 58 |

**Breeding programme**

Breeding of monkeys was done in cage and open run. A total of 18 female monkeys were mated by cage breeding and 11 female monkeys were put in run formatting. While 4 monkeys have been born in the colony another 13 have been conceived and pregnancies are in progress. 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 to animal welfare organizations as per instructions from the CPCSEA. Seventeen monkeys have been rehabilitated to People for Animal (PFA), Sanjay Gandhi Animal Care Centre, New Delhi, during 2007–08.
Clinical procedures conducted

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blood samples collected</td>
<td>100</td>
</tr>
<tr>
<td>Physical examination, testing for tuberculosis and weight</td>
<td>69</td>
</tr>
<tr>
<td>Haematology</td>
<td>100</td>
</tr>
<tr>
<td>Blood chemistry</td>
<td>76</td>
</tr>
<tr>
<td>X-ray</td>
<td>22</td>
</tr>
<tr>
<td>Rectal palpation</td>
<td>22</td>
</tr>
<tr>
<td>Parasitology (stool examination)</td>
<td>Nil</td>
</tr>
<tr>
<td>Other procedures (Management of trauma, obstetrics procedures, ASD treatment, etc.)</td>
<td>253</td>
</tr>
</tbody>
</table>

EXPERIMENTAL SURGERY

Fifty-three 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 Animals Facility.

INSTITUTIONAL ANIMAL ETHICS COMMITTEE (IAEC)

During the year (2007–08), the IAEC cleared 45 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 124, Mice 700, Rabbits 58, Guinea pig 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 1 week residential training programme for CPCSEA nominees, 24–28 September 2007, NIWA, Sikri, Ballabhgarh (Haryana); attended Indian Association of Veterinary Anatomists XXII Annual Convocation and National Symposium on ‘Recent advances in anatomy of domestic animals with special reference to developmental anatomy’, 21–23 November 2007, Tirupati, Andhra Pradesh.

Dr Vijender Singh attended the World Small Animal Veterinary Association Education Programme for Pets, 1–2 December 2007, New Delhi.

11.8 Hostel Section

Superintendent of Hostels  
H.H. Dash

Deputy Superintendent of Hostels  
S. Datta Gupta  
Buddhadev Choudhary  
J.S. Titiyal  
Rachel Andrews  
Seema Mishra  
Bhupinder Paul

Senior Warden  
Krishna Dhaka

Warden  
Shashi Prakash Pandey

Deputy Wardens  
Mohan Sharma  
Sat Prakash Kalia  
Remani Thoams  
Seema Pruthi

Assistant Wardens  
Suchita Kumari  
Sukhpal Mallick

Junior Wardens  
Babu Lal Meena  
Dinesh Desai  
Sunil Devi  
Rani Varghese  
Nirmala  
Triptha Sharma  
Rajesh Rawat

Ministerial Staff  
Neelam Rani  
Vimal Thakral  
UDC  
Assistant (NS)

Sudhir Thakur  
D. Poongothai  
LDC  
Veena Bhatia  
LDC

Subordinate Staff  
Twelve women and men office attendants each are posted in the hostel section.

There are several halls of residents with a capacity of over 1700 (approximate) single/double rooms and 176 married residences and 322 residences for nursing students. These are spread over different hostels and residences in the Main campus, Masjid Moth, Ayurvigyan Nagar, Faculty Transit Accommodation Hostel and Jai Prakash Narain Apex Trauma Centre Hostel (Raj Nagar).

RESIDENCES

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Hostel</th>
<th>Location</th>
<th>Single room</th>
<th>Double/Three/Four/Five seater</th>
<th>Guest rooms (with 2 beds)</th>
<th>Total strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gents hostel</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>
</tbody>
</table>
3. III (Sushruta) Main Campus 69 6 1 82
4. IV (Madhava) Main Campus 53 7 – 67
5. V (Nagarjuna) Main Campus 53 5 – 63
6. VI (Vagbhatta) Main Campus 69 8 – 85
7. VII (Ashwini) Main Campus 110 2 1 115
8. VIII (Bharadwaj) Main Campus 108 1 1 111
9. RPC-I (Dhanwantri) Main Campus 72 – 1 73
10. MMRDH (Single) Masjid Moth 154 – 6 160
11. JPNATC Raj Nagar 56 – 2 58
12. NNH Masjid Moth 160 74+4+0+0 2 322
Total 1,264

**Ladies hostel**
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 (Laxmi) Main Campus 20 13 1 47
4. Ladies Hostel XI Main Campus – 15+0+0+0 – 30
Total 280

**Married quarters**
1. F type (married) Ansari Nagar West 9 (two seater) 18
2. MMRDH Masjid Moth 42 42
3. A.V. Nagar A.V. Nagar 80 80
4. F.T.A. A.V. Nagar 29 29
5. J.P.N.A. T.C Raj Nagar 7 7
Total 176

**Grand Total** 1,720

**SIGNIFICANT EVENTS**
1. Reverse osmosis plants have been installed in Masjid Moth Residents doctors and Nurses hostel.
2. Car parking space has been extended in Masjid Moth Resident doctors hostel for the benefit of the resident doctors.
3. The life has been renovated at Masjid Moth Resident doctors hostel.
4. All bathrooms and lavatories at Masjid Moth Resident doctors hostel have been renovated.
5. The mess kitchen at Masjid Moth Resident doctors hostel has been renovated.
6. Internal wiring for air conditioners (with MCB, DB, cable, etc.) has been done for Hostels 1 to 10, and RPC I and II.
7. Reverse osmosis machine has installed on the ground floor in Hostels 1 to 10 and RPC I and II.
8. The set top box of dish connection for common television rooms of various hostels have been installed.
9. The cateteria of Hostel no. 5 has been renovated.
10. The mess kitchen on the ground floor of Hostel no. 8 has been renovated while that on the first floor is being renovated.
11. Twelve lavatories in Hostel no. 7 have been renovated.
12. The new shop complex has been constructed and allotted to contractors. Previously they were running their shops in a temporary structure.
13. The mess kitchen of Hostel no. 9 has been renovated.
14. (i) Two new security guard cabins have been constructed in Hostel No. 10 and 11 near the S.T.D booth.
   (ii) Two security guard cabins have been replaced near the main gate of Hostel No. 10 and RPC-II.
16. The beauty parlour in the Ladies Hostel has been renovated.
17. The work for provision of 24 hours computer facility in Ladies Hostel has started in RPC-II (TV room).

FUTURE PLANS
1. Construction of a new hostel with modern amenities to accommodate 1000 students and resident doctors.
2. Internet connection for all the rooms in the Hostels.
3. Renovation of cooperative mess of Hostel no. 2, 4 (ground and first floor).
4. Installation of air conditioners in Hostel section.
5. Computerization of hostel allotment.
6. Provision of study room on terrace of Hostel No. 9.
12.1 Finance Division

Sr. Financial Advisor
Smt. Rashmi Jain upto 4.3.2008
Sh. D.N. Pathak w.e.f. 17.3.2008

Financial Advisor/F&CAO
Mrs. Basanti Dalal

F&CAO
Sh. S.P. Mahla
Sh. C.L. Raina

Accounts Officers
Sh. Kishan Gopal upto 31.7.07
Sh. N.K. Bajaj upto 27.1.2008
Sh. R.K. Juneja
Sh. Suresh Kumar w.e.f. 26.4.2007
Sh. S.P. Mahla
Sh. R.C. Katoch w.e.f. 26.4.2007
Sh. N.D. Sharma w.e.f. 1.3.2008
Sh. S.S. Yadav w.e.f. 13.12.2007
Sh. D.R. Bellani w.e.f. 28.8.2007
Sh. Sunil Kumar Kedia upto 15.7.2007
Sh. O.P. Saini upto 27.4.2007
Sh. D.P. Gangal w.e.f. 26.4.2007
Smt. Kanta Sachdeva w.e.f. 28.8.07 to 31.1.08
Smt. Santosh Kapoor w.e.f. 21.9.2007
Sh. Bhom Singh w.e.f. 15.9.2007
Sh. S.K. Gupta w.e.f. 8.10.2007

The Institute gets grants under the Heads “Plan” and “Non-Plan” from the Govt. of India, Ministry of Health & Family Welfare. Plan grants are also received for National Drug Dependence Treatment, VVIP care and College of Nursing etc. seperately. 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 Govt. of India and other agencies are further allocated to Superspecialities Centres/departments/Research Section as per their projections/requirements.

Finance Division of the Institute monitors/controls 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 G.P.F. in respect of the employees of the Institute. While making payments, all the checks prescribed by the Government of India are being exercised by the respective DDOs. Financial advise is also being rendered by the Finance Officers wherever required.

All the above works are executed by the Financial Advisor, Finance & Chief Accounts Officers (F&CAOs)/Accounts Officer under the overall control of Senior Financial Advisor.

ALL INDIA INSTITUTE OF MEDICAL SCIENCES, NEW DELHI.

(RS. IN CRORES)

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<td>83.38</td>
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### ALL INDIA INSTITUTE OF MEDICAL SCIENCES

**STATEMENT SHOWING REVENUE RECEIPT FROM APRIL 2007 TO MARCH 2008**

(Rs. in Lakhs)

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C. DE-Addiction Centre  4.05  -  4.86  -  6.00  -
D. N.A.C.O.  -  -  -  -  -  -

(Dr. Ashok Kumar)

GRAND TOTAL (A to D)  158.48  312.24  168.70  347.47  168.00  290.00
**REVENUE RECEIPT**

**BREAK UP OF BUDGET RECEIPTS FOR 2007-2008 AND ESTIMATE FOR 2008-2009**

**FOR AIIMS,**

**INCLUDING SUPERSPECIALITY, DR. R.P. CENTRE AND I.R.C.H.**

**(RS.IN CRORES)**

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**GRANTS RECEIVED DURING (2007-2008)**

**(Rs. in crores)**

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<td><strong>165.00</strong></td>
<td><strong>309.68</strong></td>
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# ALL INDIA INSTITUTE OF MEDICAL SCIENCES

## RECEIPTS & PAYMENT ACCOUNT
### FOR THE YEAR 2007-2008

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## ADMINISTRATIVE EXPENDITURE

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24  New Pension Scheme  5420744  3190277  30  Deposit Work  
25  Donation  
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    (a) Starford India  410902  
    (b) Rajgarhia Vishram Sadan  713076  
26  Recovery of excess which was paid by the Cashier  17930  
27  Cochlear Implant Patient Treatment A/c  24089000  25492000  
28  Deposit Work  
  (a) Starford India  2000000  
  (b) Rajgarhia Vishram Sadan  1413300

### DR. RAJENDER PRASAD CENTRE FOR OPHTHALMIC SCIENCES

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**C.T. PATIENT A/C**

1a) Patient’s Receipts during 2007-2008 | 251093855

b) Patient’s Refunds 2007-2008 | 57707729

c) Add Poor Patient’s treatment out of interest earned during 2007-08 | 196141082 176065701

2 (a) Interest during 2007-08 | 2754956

(b) Less Poor Patient’s treatment expenditure 07-08 | 4776021 1148882

3 Cancelled Cheques | 1881696 1668918

**ANGIOGRAPHY PATIENT A/C**

1a) Patient’s Receipts 2007-08 | 187690285

b) Patients refunds | 29988422

c) Poor Patient’s treatment out of interest earned during 2007-08 | 135000 157836863 166224303

2a) Interest during 2007-08 | 3755313

(b) Poor Patient’s treatment expenditure 07-08 | 135000 3620313 2328289

3 Cancelled Cheques | 1120871 311084

**C.T. PATIENT A/C**

1 Purchase of Stores | 192396154 143340334

2 Mach. & Equip. | 49025000

4 Fresh Cheque | 2627796 64502

**ANGIOGRAPHY PATIENT A/C**

1 Purchase for stores | 172040687 168224014

2 Bank Charges | 330 4450

3 Fresh Cheque | 890683 266586
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### NATIONAL DRUG DEPENDENCE TREATMENT CENTRE (N.D.D.T.C.) (UNDCP PROJECT)

1. **Grant-in-Aid**
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   - 1167928
   - 1

2. **Misc. Receipt**
   - 23000
   - 26400

### NATIONAL DRUG DEPENDENCE TREATMENT CENTRE (N.D.D.T.C.) (UNDCP PROJECT)

1. **Grant-in-Aid**
   - 1543164
   - 1167928
   - 1

2. **Misc. Receipt**
   - 23000
   - 26400

### Dr.B.R.A. INSTITUTE ROTARY CANCER HOSPITAL

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### Dr.B.R.A. INSTITUTE ROTARY CANCER HOSPITAL

**a) Plan**

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
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<tbody>
<tr>
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<td>9750000</td>
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<tr>
<td>i) Non-EFC</td>
<td>3740000</td>
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<td>ii) EFC</td>
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**b) Transfer from CNC**

<table>
<thead>
<tr>
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<td>2</td>
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**c) Non-Plan**

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### Dr.B.R.A. INSTITUTE ROTARY CANCER HOSPITAL

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**b) Transfer from CNC**

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**c) Non-Plan**

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<tr>
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### Dr.B.R.A. INSTITUTE ROTARY CANCER HOSPITAL

**a) Plan**

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<thead>
<tr>
<th>Item</th>
<th>Amount</th>
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<thead>
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<tr>
<td>3</td>
<td>Revolving Funds</td>
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<td>4</td>
<td>Medical Oncology Receipts</td>
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<td>ICMR (DCR)</td>
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<td>6</td>
<td>AIIMS Recoveries remitted</td>
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<td>Outside Recoveries remitted</td>
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<td>8</td>
<td>Scooter Advance</td>
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<td>9</td>
<td>Car Advance</td>
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<td>Interest Receipts</td>
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<td>Computer Advance</td>
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**J.P.N. APEX TRAUMA CENTRE**

**Grant-in-Aid**

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**Other Receipts**

| a) Hospital | 3229015 |
| b) Security deposit | 1475000 |
| c) Int. on TDR | 822240 |

**J.P.N. APEX TRAUMA CENTRE**

**EFC Expenditure**

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<tr>
<td>Manpowers</td>
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**Recurring & Outsourcing**

| 28003619 | 114932007 |

**NON EFC**

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<th>27950635</th>
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<td>b) Recurring &amp; Outsourcers</td>
<td>47568091</td>
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<td>c) M&amp;S</td>
<td>72201209</td>
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<tr>
<td>d) Furniture &amp; Fixtures</td>
<td>2206678</td>
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<tr>
<td>B. Capital Works</td>
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<tr>
<td>C. M&amp;E</td>
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<tr>
<td>a) L/c adv.</td>
<td>67206597</td>
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<td>b) PDA adv.</td>
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<td>D. Refund of EM/Security deposit</td>
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**CENTRE FOR DENTAL EDUCATION & RESEARCH**

**Grant in aid**

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**CENTRE FOR DENTAL EDUCATION & RESEARCH**

**Pay & Allowances**

| 1851161 | 1628773 |
Plan (Non-EFC) 5000000
2 Security Deposit 85000 260000
3 Interest on STDR by bank 593506 948734
4 Misc. Receipt 9000 163500
5 Hospital Receipt 26990

**POOR PATIENT ACCOUNTS**

1 i) a) AIIMS 378732 142407  
   b) Interest - 73148  
   ii) R.P. Centre 923 600  
       a) Interest 80729 58725  
       b) Donation 205825 149069  
1 ii) (a) I.R.C.H. 484514 394411  
       b) Interest on FDR’s 2000  
   iii) (a) I.R.C.H. 205825 149069  
       (b) Interest on FDR’s 484514 394411  
   c) Wrongly credited by bank 2000  
   iv) N.S. Centre Donation 8952 37518

**PATIENT TREATMENT ACCOUNTS**

1 i) a) AIIMS 4948001 34370806  
   (b) Interest 778639 627135  
   ii) Dr.B.R.A.I.R.C.H. 45950380 33738008  
       a) Cheque Cancelled 1155266 467987  
       b) Dly Inntt. 677 479430  
       c) Wrong credited 115650  

2 a) Security Deposits 142150 719500  
   b) Misc. Receipts 46915 54050

**HOSTELS**

1 a) Receipts during 2007-08  
   i) Security Deposits 142150 719500  
   ii) Misc. Receipts 46915 54050  

**POOR PATIENT ACCOUNTS**

1 i) a) AIIMS 108024 93902  
   ii) (a) R.P. Centre 61446 17102  
   (b) amount wrongly credited by bank in 2006-07 rectified in 2007-08 30000  
   iii) I.R.C.H. 265230 384413  
   iv) N.S. Centre 11329 12716

**PATIENT TREATMENT ACCOUNTS**

1 i) a) AIIMS 41380274 30333618  
   ii) Dr.B.R.A.I.R.C.H. 40424504 31013665

**HOSTELS**

1 a) Security refunds 1034000 316846  
   b) Misc. Expenditure 42190 50671
### CLOSING BALANCES

#### A  CASH AT BANK

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<thead>
<tr>
<th>Description</th>
<th>Bank Balance</th>
<th>FDR Balance</th>
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<tr>
<td>i) AIIMS(Main)</td>
<td>586048113</td>
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</tr>
<tr>
<td>ii) Schemes Cell</td>
<td>192600145</td>
<td>43642652</td>
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<tr>
<td>iii) Dr. R.P. Centre</td>
<td>31108947</td>
<td>42205910</td>
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<td>iv) C.N. Centre</td>
<td>158648226</td>
<td>151455520</td>
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<tr>
<td>v) C.T. Patient A/c</td>
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<tr>
<td>a) Bank</td>
<td>12970986</td>
<td>14403127</td>
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<tr>
<td>b) FDRs</td>
<td>230000000</td>
<td>220000000</td>
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<tr>
<td>vi) N.D.D.T.C.</td>
<td>9897962</td>
<td>7499458</td>
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<td>vii) Angiography A/c</td>
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<tr>
<td>a) Bank</td>
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<td>12358587</td>
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<td>b) FDRs</td>
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<td>750000000</td>
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<td>viii) UNDCP</td>
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<td>316153</td>
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<tr>
<td>ix) J.R.C.H.</td>
<td>34272417</td>
<td>46707703</td>
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<td>x) J.P.N.Apex Trauma Centre</td>
<td>21957766</td>
<td>32786727</td>
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<tr>
<td>xi) Gamma Knife Pt. A/c</td>
<td>3304760</td>
<td>66823583</td>
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<tr>
<td>a) Bank</td>
<td>10902678</td>
<td>4985397</td>
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<td>b) FDRs</td>
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<td>420000000</td>
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<td>xii) Neuro Surgery Pt. A/c</td>
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<td>a) Bank</td>
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<td>4985397</td>
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<tr>
<td>b) FDRs</td>
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#### B  CASH IN HAND (IMPREST)

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<thead>
<tr>
<th>Description</th>
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<tbody>
<tr>
<td>i) AIIMS (Main)</td>
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<tr>
<td><strong>a)</strong></td>
<td>Balance as per cash book of the cashier</td>
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<td><strong>b)</strong></td>
<td>Excess paid by the cashier</td>
<td>307426</td>
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<td><strong>ii)</strong></td>
<td>Dr. R.P. Centre</td>
<td>10000</td>
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<td><strong>iii)</strong></td>
<td>C.N. Centre</td>
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<td><strong>iv)</strong></td>
<td>CT Patient A/c</td>
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<td><strong>v)</strong></td>
<td>Angiography A/c</td>
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<td><strong>vi)</strong></td>
<td>Neurosurgery Pt. A/c</td>
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**C AMOUNT LYING UNDISBURSED**

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<tbody>
<tr>
<td><strong>i)</strong></td>
<td>AIIMS (Main)</td>
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<td><strong>ii)</strong></td>
<td>Scheme Cell</td>
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**D POOR PATIENT ACCOUNT**

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<tbody>
<tr>
<td><strong>i)</strong></td>
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<td><strong>(b) FDR’s</strong></td>
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<td><strong>ii)</strong></td>
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<td><strong>Cash/Bank</strong></td>
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<td>Dr. R.P. Centre</td>
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<td><strong>Cash/Bank</strong></td>
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<td><strong>iv)</strong></td>
<td>N.S. Centre</td>
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<tr>
<td><strong>Cash at Bank</strong></td>
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**E PATIENT TREATMENT A/C**

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<td><strong>ii)</strong></td>
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**F HOSTELS**

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**TOTAL**

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(S.P. MAHLA)  
FINANCE & CHIEF ACCOUNTS OFFICER  

(P. VENUGOPAL)  
DIRECTOR
## ALL INDIA INSTITUTE OF MEDICAL SCIENCES
### INCOME AND EXPENDITURE ACCOUNT
#### FOR THE YEAR 2007-2008

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<thead>
<tr>
<th>EXPENDITURE</th>
<th>2007-08</th>
<th>2006-07</th>
<th>INCOME</th>
<th>2007-08</th>
<th>2006-07</th>
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<td>210233184</td>
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<td>Employees Health Scheme</td>
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### DR. RAJENDER PRASAD CENTRE FOR OPHTHALMIC SCIENCES

<table>
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<tr>
<th>DR. RAJENDER PRASAD CENTRE FOR OPHTHALMIC SCIENCES</th>
<th>2007-08</th>
<th>2006-07</th>
<th>DR. RAJENDER PRASAD CENTRE FOR OPHTHALMIC SCIENCES</th>
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<th>2006-07</th>
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<td>94364844</td>
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<td>1443346</td>
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<td>102345</td>
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**CARDIO-THORACIC & NEURO SCIENCES CENTRE**

**Grant-in-Aid**

- Plan: 16150000
- Non-Plan: 48000000

**Revenue Receipts**

- Hosp. Receipts: 26250665

**Revenue Receipts**

- Amount received from outside patients 2007-2008: 360054
- Amount due 2007-08: 253785
- Rent Charges/ Licence Fee: 730147
- Refund & Recoveries: 1548797
- Interest earned: 6286506
- Levy Charges: 394400

**C.T. PATIENT A/C**

- Patient’s Receipts: 196141082
- Interest during 2007-2008: 4776021
- Cancelled Cheque: 1881696

**ANGIOGRAPHY PATIENT A/C**

- Patient’s Receipts: 157836863
- Interest during the year 2007-2008: 3620313
- Cancelled Cheques: 1120871

**GAMMA KNIFE PATIENT A/C**

- Patient Receipts: 14326750
- Interest: 3315690

**NEURO SURGERY PATIENT A/C**

- Patient Receipts: 32647738
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**NATIONAL DRUG DEPENDENCE TREATMENT CENTRE (N.D.D.T.C.)**

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**Dr.B.R.A. INSTITUTE ROTARY CANCER HOSPITAL**

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**Dr.B.R.A. INSTITUTE ROTARY CANCER HOSPITAL**

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**J.P.N. APEX TRAUMA CENTRE**

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**CENTRE FOR DENTAL EDUCATION & RESEARCH**

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**HOSTELS**

|   | Misc. Expenditure | 42190 | 50671 | 1 |

**EXCESS OF INCOME OVER EXPENDITURE**

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**HOSTELS**

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# All India Institute of Medical Sciences

**Balance Sheet as on 31.3.2008**

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**Notes:**
- **C** Advance payment to P&AO for purchase of Building Material
  - a) Upto 2006-2007: 34082600
  - b) During 2007-2008: 4514413
  - c) Less Adjustment in 2007-2008: 3245827, 35351186, 34082600
- **D** Ty. Contingent Adv.
  - a) Upto 2006-2007: 2285302
  - b) During 2007-2008: 2951664
  - c) Adj. during 2007-2008 of previous year: 2235302, 3001664, 2285302
- **E** Private Firms for stores
  - a) Upto 2006-2007: 7480497
  - b) during 2007-2008: 6294065
  - c) Less adj. during 2007-2008: 6882139, 6892423, 7480497
- **F** Secy., NDMC for AC plant for Admin. Block: 730000
- **G** Secy., NDMC for security for electric connection: 670950
- **H** P. & AO (for procurement of stores)
  - a) Upto 2006-07: 2840476
  - b) During 2007-08: 900000
  - c) Adjustment of advances made during 2007-08: 367075, 3373401, 2840476
- **I** Custom duty for Mach.&Equip.
  - a) Upto 2006-07: 193083
  - b) Add dg. 2007-08: 6272737, 6465820, 193083
- **J** For Books & Journals
  - a) Upto 06-07: 3903205
  - b) Add dg 07-08: 20127253, 24030458, 3903205
- **K** For Cochlear Implant Patient Treatment A/c
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16 Building Construction
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   d) Adjustments during 2007-08 336278 2038002588

17 Advance Payment
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   ii) Tata Iron & Steel Co. 654154
   iii) Hindustan Steel Ltd. 520295
   iv) Indian Iron & Steel Co. 594000

18 Land Account
   Upto 2007-08 112832263

19 Vehicles
   A Vehicle (purchased for AIIMS)
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   b) During 2007-08
      (i) Transport Office 958106
      (ii) Hospital Store 232219
   c) Less Vehicles Condemned 167528
      3236962 31344165

   B Vehicles donated for AIIMS
   a) Upto 2007-08 3036507

22 Hospital receipts recoverable from outside patients
   a) Up to 2006-07 6582692
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23 Amount recoverable from the cashier
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   - Furniture condemned during 2007-08: 226830, 2488379, 2125827

B. Sundry debtors
   - During 2007-08: 76253

C. Advance Payment made to Foreign Purchase
   - During 2007-08: 42257436

D. M.E. Equip. received during 2007-08: 61278975, 31726112, 42257436

E. Non-RPC
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      - Upto 2006-07: 76352
      - Advance payment made during 2007-08: 8471542

F. Payment made for purchase of Mach. & Equip.
   - During 2007-08: 98307
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c) Expenditure during 2007-2008 15000  485000

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a) Upto 2006-2007 -
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c) Expenditure during 2007-2008 15000  485000

xlvi) Lux-PRA International
a) Upto 2006-2007 -
b) Rec. during 2007-2008  43841
c) Expenditure during 2007-2008 11304 32537

xlvii) Indgen (LSTM)
a) Upto 2006-2007 -
b) Rec. during 2007-2008  3199437
c) Expenditure during 2007-2008 3199437 -

xlviii) WHO G.S.
a) Upto 2006-2007 -
b) Rec. during 2007-2008  625000
c) Expenditure during 2007-2008 609044 15956

xlix) Pink Eye (Baush & Lomb)
a) Upto 2006-2007 -
b) Rec. during 2007-2008  287977
c) Expenditure during 2007-2008 109137 178840

l) Evaluation Polyherbal (ozone)
a) Upto 2006-2007 -
b) Rec. during 2007-2008  279500
c) Expenditure during 2007-2008 172472 107028

li) Evaluation on Polyherbal in AOD
a) Upto 2006-2007 -
b) Rec. during 2007-2008  100000
c) Expenditure during 2007-2008 99279  721

6 Refund of Security Deposits
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### CARDIO-THORACIC & NEURO SCIENCES CENTRE

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| **2 Institute Recovery**                                |      |      |      |
| i) Upto 2006-07                                         | 113215 |      |      |
| ii) 2007-08                                             | -      | 113215 | 113215 |

| **3 Security Deposit**                                  |      |      |      |
| a) Upto 2006-07                                         | 135000 |      |      |
| b) During 2007-08                                       | -      |      |      |
| c) Refund 2007-08                                       | -      | 135000 | 135000 |

| **4 Furniture & Fixture**                                |      |      |      |
| a) Upto 2006-07                                         | 1958693 |      | 11014431 |
| b) During 2007-08                                       | 2744372 |      | 2744372 |

| **5 Building Construction**                              |      |      |      |
| a) Upto 2006-07                                         | 101953715 |      | 101953715 |
| b) During 2007-08                                       | -      | 101953715 | 101953715 |

| **6 Vehicle**                                            |      |      |      |
| a) Upto 2006-07                                         | 3901284 |      |      |
| b) During 2007-08                                       | 1122750 |      |      |
| c) Vehicle condemned                                    | 549628  | 4474406 | 3901284 |
| Outside recovery                                        |      |      |      |
| a) Upto 2006-07                                         | 40708   |      |      |
| b) During 2007-08                                       | -      | 40708 | 40708 |

| **7 Car Advance**                                       |      |      |      |
| a) Upto 2006-07                                         | 86400  |      |      |
| b) Adj during 2007-08                                   | 34560  | 51840 | 86400 |

| **8 Mat. & Supply**                                      |      |      |      |
| a) Upto 2006-07                                         | 300000 |      |      |
| b) Refund                                              | 300000 |      |      |
| c) Add during 2007-08                                   | 460978 | 460978 | 300000 |

| **9 Dr.B.R.A. INSTITUTE ROTARY CANCER HOSPITAL**         |      |      |      |
| **1 Capital Grant**                                     |      |      |      |
| a) Cash at Bank                                        | 9897962 | 7499458 |      |
| b) Mach. & Equip.                                      |      |      |      |
| a) Upto 2006-2007                                      | 22046956 |      |      |
| b) During 2007-2008                                    | 3964877 | 26011833 | 22046956 |
| c) Books & Pub.                                        |      |      |      |
| a) Upto 2006-07                                        | 9055738 |      |      |
| b) During 2007-08                                      | 11014431 | 9055738 |      |

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| **Dr.B.R.A. INSTITUTE ROTARY CANCER HOSPITAL**                           |      |      |      |
| **1 Capital Grant**                                                      |      |      |      |
| a) Upto 2006-07                                                          | 1144279232 |      |      |
| b) Adj during 2007-08                                                    | 34272417 | 46707703 |      |
| c) Add during 2007-08                                                    |      |      |      |
| (a) | Plan | 97500000 |
| (b) | Transfer from CNC | 7320000 |
| (c) | Transfer from JPNATC | 6900000 |
| (d) | Less condemnation of M&E As per CSD/Store Section letter No.X-1-4/04-05 Budget/V-IV dt.29.4.08 | 3372572 1239828660 1144279232 |
| 2 | Revolving Fund | |
| (i) | Upto 2006-2007 | 1590561 |
| (ii) | Add during 2007-2008 | 3172450 |
| (iii) | Less payment during 2007-08 | 898811 3864200 1590561 |
| 3 | Medical Oncology Fund | |
| (i) | Upto 2006-2007 | 579038 |
| (ii) | Add during 2007-2008 | 619230 |
| (iii) | Less payment during 2007-08 | 441378 756890 579038 |
| 4 | Computer Advance | |
| a) | Upto 2006-2007 | 10359311 |
| b) | During 2007-08 | 642453 |
| c) | Less condemned | 109176 |
| d) | 3372572 1239828660 1144279232 | |
| 5 | Car/HBA Advance | |
| a) | Upto 2006-2007 | 131800 |
| b) | During 2007-08 | 150000 |
| c) | Less recoveries | 22460 259340 131800 |
| 6 | Mach. & Equip. | |
| a) | Upto 2006-2007 | 546703544 |
| b) | Add during 2007-2008 | 25944554 |
| c) | Add Adj. of Custom Advance | 17927134 |
| d) | Less condemnation of M&E as per CSD/Store Section | 3263396 587311836 546703544 |
| 7 | Advance Payments | |
| a) | During 2006-2007 | 242667167 |
| b) | Add during 2007-2008(+) | 93429689 |
| c) | Less Advance Adjustments during the year 2007-08 | 25944554 |
| d) | Add Customs duty unadjust. | 5340633 315492935 242667167 |
| 8 | Security Deposit with NDMC as per Audit Objection during 2004-05 | |
| a) | 2626000 | 2626000 |
| 9 | Building Construction | 296256915 296256915 |
| 10 | Vehicle | |
| a) | Upto 2006-2007 | 941321 |
| b) | During 2007-08 | 968275 1909596 941321 |
| 11 | Capital Works | |
| a) | Upto 2006-07 | 5538544 |
| b) | During 2007-08 | 6753472 12292016 5538544 |
### J.P.N. APEX TRAUMA CENTRE

<table>
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<th>Cash on Hand</th>
<th>Bank Balance</th>
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<td>Capital Grants upto 06-071100713189 Add during 2007-08 106212446 1206925635 1100713189</td>
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<td>Security deposit Receipt during 2007-08 1475000 Refund dg. 2007-08 435000 1040000</td>
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<td>3</td>
<td>Construction of Building Advance to M/s HSCC87912064 during 2006-07 towards construction of buildings 29000000 Add during 2007-08 5000000</td>
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<td>29000000</td>
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<td>4</td>
<td>Machinery &amp; Equipment L/C Advances on M&amp;E 333217199 dg. 06-07 L/C adv. dg. 07-08 67206597 L/C Received upto 07-08 352309634 48114162 333217199</td>
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<td>Construction of Building transferred from AIIMS(M)</td>
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<td>Land Account transferred from AIIMS(M) Account</td>
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<td>7</td>
<td>Machinery &amp; Equipments (i) Upto 06-07 112932400 (ii) Add dg. 07-08 35646952 (iii) M&amp;E received 07-08 352309634 500888986</td>
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<td>Custom duty adjusted (i) Upto 06-07 14447544 (ii) Adjusted dg. 07-08 9968158 24415702</td>
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<td>9</td>
<td>Furniture &amp; Fixtures Upto 06-07 2375382 Add dg. 07-08 2206678 4582060 2375382</td>
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### CENTRE FOR DENTAL EDUCATION & RESEARCH

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(ii) During 2007-08
  (a) EFC 8900000
  (b) Non-EFC 5000000
  (iii) Less transferred to
  Income & Exp. A/c 4904516 366245904 357250420

2 Security Deposits
  (i) Upto 2006-07 260000
  (ii) During 07-08 85000
  (iii) Less refunded during 2007-08 32800 312200 260000

(iii) Add M&E received against advances during 07-08 4907555 48456485 29724246

Advance Payment made to foreign purchases
  (i) Upto 2006-07 17134994
  (ii) During 2007-08 3685390
  (iii) Less advances adjusted during 2007-08 4907555 15912829 17134994

Building
  Upto 06-07 transferred from AIIMS Main A/c 215754235
  During 07-08 37829136
  (iii) Capital Works 410493 25399386 215754235

5 Advance paid to HSCC
  (i) Upto 06-07 transferred from AIIMS Main A/c 76497252
  (ii) During 07-08 700000
  (iii) Less refunded during 07-08 32800 312200 260000

6 Advance to NDMC
  (i) Upto 06-07 transferred from 2404500

POOR PATIENT A/C
1 AIIMS (Main)
  a) Opening Balance
    i) Cash/Bank 861808
    ii) FDR’s 400226
  b) Receipts
    i) Grants 378732
    ii) Interest on FDR’s -
    iii) Payments 108024
  c) Closing Balance
    i) Cash/Bank 1132516 861808
    ii) FDR’s 400226 400226

2 Dr.B.R.A.I.R.C.H.
  a) Cash/Bank 1393911
  b) Receipts
    i) Grants 205825
    ii) Interest on FDR’s 484514
    (iii) Wrongly credited by Bank 2000

POOR PATIENT A/C
1 AIIMS (Main)
  a) Cash/Bank 1132516 861808
  b) FDR’s 400226 400226
  Dr.B.R.A.I.R.C.H.
  Cash/Bank 1821020 1393911
  DR. R.P. CENTRE
  Cash/Bank 45258 25052
  N.S. CENTRE
  Cash/Bank 81429 83806
(iv) Payment 265230

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PATIENT TREATMENT ACCOUNTS

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<td>iii) Dly. Inntt.</td>
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<td>iv) Wrong credited</td>
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<tr>
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HOSTELS

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| 2 | Cash at Bank | 732202 |
| 3 | FDR's | 2223103 |

### EXCESS OF INCOME OVER EXPENDITURE

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<td><strong>EXCESS OF EXPENDITURE OVER EXPENDITURE</strong></td>
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<td>(i) Upto 2006-07</td>
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<td>(i) During 2006-07</td>
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<td>(ii) During 2007-08</td>
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<td>b) During 2007-2008</td>
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<td><strong>C.T. PATIENT A/C</strong></td>
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<td>iii) Less fresh cheques issued against cancelled cheques</td>
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<td><strong>ANGIOGRAPHY PATIENT A/C</strong></td>
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<tr>
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<tr>
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<td>ii) (-) Excess of expenditure</td>
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<td>iii) Canceled Cheque</td>
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**Neuro Surgery Patient A/C**

**Excess of Expenditure over Income**

**Excess of Income over Expenditure**
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**Note:**

1. The accounts have been prepared on actual Receipts and Expenditure basis.
2. No depreciation on Mach. & Equipment, vehicles etc. has been provided as the Institute is fully funded by the Govt.
3. A statement showing by various project Investigators during 2007-08 is attached at Appendix-A-I. It may be mentioned that on completion of Research Projects, the equipment are either returned to the funding agencies or are used in the Departments.

(S.P. MAHLA)  
FINANCE & CHIEF ACCOUNTS OFFICER  
(P. VENUGOPAL)  
DIRECTOR
## ALL INDIA INSTITUTE OF MEDICAL SCIENCES

### STATEMENT SHOWING THE EXPENDITURE OF THE GRANT RECEIVED FOR THE SPECIFIC PURPOSE FOR THE YEAR 2007-08

<p>| Funding Agency                               | Opening Balance Credit | Receipt Credit | Total Credit | Expenditure | Balance Credit | Debit | Debit | Debit | Debit | Debit | Debit | Debit | Debit | Debit | Debit | Debit | Debit | Debit | Debit |
|----------------------------------------------|------------------------|----------------|--------------|-------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 ICMR                                       | 33116116               | 0              | 71061102     | 104177218   | 61179580       | 42997638 | 0     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 2 C.S.I.R.                                   | 10220879               | 0              | 35175848     | 45396727    | 31698039       | 13698688 | 0     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 3 DST                                        | 39284582               | 0              | 115230772    | 154515354   | 57563799       | 96949975 | 0     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 4 UNICEF                                     | 1211735                | 0              | 1000000      | 2211735     | 1185631        | 3397366  | 0     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 5 D.B.T.                                     | 57385436               | 0              | 141776312    | 199167148   | 117707640      | 81454108 | 0     |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 6 W.H.O.                                     | 13623789               | 0              | 12362058     | 25985847    | 14124534       | 11861313 | 0     |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 7 U.G.C.                                     | 2659395                | 0              | 3418980      | 6078375     | 5898298        | 180077   | 0     |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 8 Ministry of Health and Family welfare      | 2620801                | 0              | 6598788      | 9219589     | 5026629        | 4192960  | 0     |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 9 Ministry of Environment &amp; Forest           | 0                      | 0              | 1087894      | 1087894     | 713490         | 374404  | 0     |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 10 Dabur Research Foundation                 | 816403                 | 0              | 1081043      | 2027867    | 1029161        | 998706   | 0     |       |       |       |       |       |       |       |       |       |       |       |       |
| 11 DEPTT. OF ELECTRONICS                     | 114542                 | 0              | 171590       | 367127     | 274721         | 92406   | 0     |       |       |       |       |       |       |       |       |       |       |       |       |
| 12 Himalaya Drug Co.                         | 195537                 | 0              | 810303       | 920290     | 682636         | 237654  | 0     |       |       |       |       |       |       |       |       |       |       |       |
| 13 International Atomic Energy Agency        | 946824                 | 0              | 86000        | 140683     | 23119          | 117564  | 0     |       |       |       |       |       |       |       |       |       |       |       |
| 14 Convatee Sayibb                           | 2328                   | 0              | 0            | 2328       | 0              | 2328    | 0     |       |       |       |       |       |       |       |       |       |       |       |       |
| 15 Rajiv Gandhi Foundation                   | 109987                 | 0              | 810303       | 920290     | 682636         | 237654  | 0     |       |       |       |       |       |       |       |       |       |       |       |
| 16 Directorate of Education (NSS)            | 54683                  | 0              | 86000        | 140683     | 23119          | 117564  | 0     |       |       |       |       |       |       |       |       |       |       |       |
| 17 Torrent Pharma                            | 0                      | 0              | 51279        | 51279      | 1538           | 49741   | 0     |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 18 INDO-US                                   | 764123                 | 0              | 0            | 764123     | 0              | 764123  | 0     |       |       |       |       |       |       |       |       |       |       |       |       |
| 19 Ford Foundation                          | 458594                 | 0              | 0            | 458594     | 0              | 458594  | 0     |       |       |       |       |       |       |       |       |       |       |       |       |
| 20 Fulford India Ltd.                        | 551571                 | 0              | 0            | 551571     | 217979         | 333592  | 0     |       |       |       |       |       |       |       |       |       |       |       |       |
| 21 National Thalassemia Welfare Society      | 41644                  | 0              | 20000        | 61644      | 46099          | 15545   | 0     |       |       |       |       |       |       |       |       |       |       |       |       |</p>
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(S.P. Mahla)
Finance & Chief Accounts Officer
# APPENDIX - A1

## ALL INDIA INSTITUTE OF MEDICAL SCIENCES

### RESEARCH SECTION

### Statement of Expenditure Made for Purchasing Equipment during the Financial Year 2007-2008

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**GRAND TOTAL** 107,752,639

(S.P. Mahla)
Finance & Chief Accounts Officer

AIIMS 2007-2008 / 705
# Appendix B

## ALL INDIA INSTITUTE OF MEDICAL SCIENCES

### LIST OF SUNDRY DEBTORS (SCHEME CELL)

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3207437

(S.P. Mahla)

Finance & Chief Accounts Officer

AIIMS 2007-2008 / 706
### Appendix-C

**ALL INDIA INSTITUTE OF MEDICAL SCIENCES**

**STATEMENT SHOWING THE DONATIONS & INVESTMENT AS ON 31-03-08**

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**TOTAL** 1105924 1765368899

(S.P. Mahla)
Finance & Chief Accounts Officer
### Appendix-D

**ALL INDIA INSTITUTE OF MEDICAL SCINECES**

Details of Misc. Donations as on 31.3.2008

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(S.P. Mahla)
Finance & Chief Accounts Officer
### Appendix-E

**ALL INDIA INSTITUTE OF MEDICAL SCIENCES**

**Details of Misc. Deposits as on 31.3.2008**

**2007-2008**

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(S.P. Mahla)
Finance & Chief Accounts Officer

### Appendix - F

**All India Institute of Medical Sciences**

**Details of GPF Investment**

**2007-2008**

- Opening Balance of Investment as on 1.4.2007: 1559693465
- Investment during 2007-08: 255000000
- Closing balance as on 31.3.2008: 1740553116
- Investment matured during 2007-08: 8500000

Details of NPS Investment 2007-2008

- Opening Balance of Investment as on 1.4.2007: 15000000
- Investment during 2007-08: 10000000
- Closing balance as on 31.3.2008: 51980605

(S.P. Mahla)
Finance & Chief Accounts Officer
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 31 March 2008

We have audited the attached Balance Sheet of All India Institute of Medical Sciences (AIIMS) as at 31 March 2008 and the Income & Expenditure Account/Receipts & 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 read with Section 18(2) of the All India Institute of Medical Sciences Act, 1956. 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 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/Comptroller and Auditor Generals’ 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, books of accounts on double entry system of accounting and other relevant records have not 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 (C.T.Patient)
A.1 Liabilities
A.1.1 Non-depiction of liability (CT Patient, Angiography and Neurosurgery Patient Accounts)
Based on the estimates given by the doctors (fixed packed rates+ cost of stents, valves etc), patients had to deposit amounts with the Institute. A test check of three patient accounts i.e CT patient, Angiography, and Neurosurgery Patient Accounts
for the period for the years 2003-04 to 2007-08 revealed that Rs. 5.30 crore which was refundable to patients was not shown as liability in the balance sheet of the Institute. This resulted in overstatement of income and understatement of Liabilities. The liability in respect of earlier periods and other centers had not been ascertained by the Institute. Hence we are unable to form an opinion in this regard.

A.2 Assets

A.2.1 Advances (CT Patient Account)
As per the cash book of the CT Patient Accounts, an amount of Rs. 1 crore was transferred to the Angiography Patient Account but it been shown neither under the Payments side of the Receipt & Payment Accounts nor as advance in the Balance Sheet of the CT Patient Account, resulting in understatement of Payments and understatement of Advances by Rs. 1 crore.

A.2.2 Overstatement of assets (New Pension Scheme)
The closing balance of the New Pension Bank Account as at 31.3.2008 was Rs. 2.37 crore but a closing balance of Rs. 2.70 crore as on 30.4.2008 was included in the Balance Sheet of AIIMS (Main). This resulted in overstatement of Assets and Liabilities by Rs. 0.33 crore.

A.2.3 Understatement of assets (Institute Rotary Cancer Hospital)
The Institute had paid Rs. 2.06 crore as advance for Machinery and Equipment but adjusted only Rs. 1.79 crore under the head ‘Machinery and Equipment – Adjustment of Customs advances’ on the Assets side of the balance sheet, resulting in understatement of expenditure and assets of Rs. 0.27 crore.

A.2.4 Overstatement of assets (J.P.N.Apex Trauma Centre)
The actual closing balance of advance with Customs under ‘Machinery and Equipment (Customs)’ was Rs. 1.15 crore which was taken as Rs. 1.86 crore, resulting in overstatement of Machinery and Equipment by Rs. 0.71 crore and overstatement of excess of income over expenditure.

A.2.5 Understatement of assets (J.P.N.Apex Trauma Centre)
The closing balance of ‘Machinery and Equipments’ was Rs. 55.65 crore which had been taken as Rs. 50.08 crore, resulting in understatement of assets by Rs. 5.57 crore and understatement of Capital Fund by the same amount.

A.2.6 Fixed assets
No depreciation had been provided on fixed assets, resulting in overstatement of Assets and understatement of Expenditure. Fixed assets for Rs 9.34 crore condemned during the year were reduced from the assets side and from the Capital Fund of the respective centres for which sanction of the competent authority was not made available. Hence, the correctness of the figures under Fixed Assets could not be ensured.

The Schedule of Fixed Assets showing the opening balance, additions, deletion, depreciation and closing balance has not been attached.
A.2.7 Investments-Non-adherence to the approved pattern of investment for G. P. Fund accumulations.
Investment of accumulated funds under General Provident Fund, amounting to Rs.172.97 crore was not made as per the pattern prescribed by the Ministry of Finance vide notification no. F.5 (53)/2002-ECB & PR dated 24.1.2005.

B Income and Expenditure Account

B 1. Income

B.1.1 Understatement of income (Main-AIIMS)
An amount of Rs. 32.00 lakh was directly paid by the Ministry of Health and Family Welfare to advocates and booked as expenditure under the Grant-in-aid (Non-Plan) of AIIMS which was not accounted for in the accounts resulting in understatement of income under Grant-in-aid (Non-Plan) and understatement of expenditure by Rs.32.00 lakh.

B.1.2 Understatement of income (CN Centre Account) (Rs. 16.26 lakh)
Interest of Rs. 16.26 lakh earned on the LCs had not been taken as income resulting in understatement of income by Rs. 16.26 lakh and overstatement of Machinery and Equipment by the same amount as it had been credited to it.

B 1.3 Understatement of income (CT Patient Account)(Rs. 1.25 crore)
Interest of Rs. 1.25 crore was earned on FDRs of Rs. 18.00 crore but only Rs. 0.25 crore had been taken as interest income, resulting in understatement of income by Rs. 1.00 crore.

B 1.4 Understatement of income (Gamma Knife Patient Account) (Rs. 25.81 lakh)
Interest of Rs. 25.81 lakh earned on FDRs had not been taken as income, resulting in understatement of income by Rs.25.81 lakh.

B 1.5 Understatement of income (Neuro Surgery Patient Account)(Rs.17.95 lakh)
Interest of Rs. 17.95 lakh earned on the FDRs have not been taken as income, resulting in understatement of income by Rs. 17.95 lakh.

C General

C.1.1 Non-consolidation of accounts
The different departments of the institute were treated as separate entities and for each department, Receipt and Payment account, Income and Expenditure account and Balance Sheet was prepared and excess of income over expenditure, capital fund and investments worked out but the consolidation of these accounts was not done. As such, the headwise consolidated financial position of the institute was not available.
Significant accounting policies adopted by the Institute in the preparation of annual accounts were not disclosed.

C.1.2 Assets included assets valued at Rs. 14.39 lakh destroyed due to fire and theft during the year 2007-08.
C.1.3 A trial balance had not been prepared and hence, it could not be ensured that all debits were equal to all credits.

D Grants-in-aid
The institute is financed mainly from grants of Government of India. During the year 2007-08, the institute received grants of Rs. 470 crore (Plan Rs. 160 crore and Non-Plan Rs. 310 crore). It also had its own income of Rs. 87.84 crore from hospital receipts, tuition fees, examination fees, license fees, interest income etc. The total Plan expenditure was Rs. 67.28 crore and Rs.96.59 crore was utilised for giving advances for various purposes. The total Non Plan expenditure was Rs. 345.18 crore and Rs. 2.29 crore was given to suppliers etc as advances. The institute received grants for various schemes for Rs. 45.92 crore from various funding agencies and incurred an expenditure of Rs. 36.27 crore. It also received Rs.5 crore for NDDTC and Rs. 15.43 lakh for NDDTC (UNDCP) against which an expenditure of Rs.4.30 crore was incurred.

E. Management Letter
Deficiencies which have not been included in the Audit Report have been brought to the notice of the Director, All India Institute of Medical Sciences, through a management letter issued separately for remedial action.

v Subject to our observations in the preceding paragraphs, we report that the Balance Sheet and Income & Expenditure Account/Receipt and Payment Account dealt with by this report are in agreement with the books of accounts.

vi In our opinion and to the best of our information and according to the explanations given to us, the said financial statements subject to the significant matters stated above. The disclaimer stated in para A.1.1 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, 2008 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

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<th>Place: New Delhi</th>
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PARA WISE REPLIES TO THE AUDIT OBSERVATIONS ON THE ACCOUNTS OF ALL INDIA INSTITUTE OF MEDICAL SCIENCES, ANSARI NAGAR, NEW DELHI-110029.

FOR THE YEAR 2007-08

A  Balance Sheet (C.T.Patient)

A.1  Liabilities

A.1.1 Non-depiction of liability (CT Patient, Angiography and Neurosurgery Patient Accounts)
Based on the estimates given by the doctors (fixed package rates+ cost of stents, valves etc), patients had to deposit amount with the Institute. A test check of three patient accounts i.e CT patient, Angiography, and Neurosurgery Patient Accounts for the period for the years 2003-04 to 2007-08 revealed that Rs. 5.30 crore which was refundable to patients was not shown as liability in the balance sheet of the Institute. This resulted in overstatement of income and understatement of Liabilities. The liability in respect of earlier periods and other centers had not been ascertained by the Institute. Hence we are unable to form an opinion in this regard.

The amount is deposited as per direction and estimate issued by treating doctor. The account section has to keep the amount with it till procedure is done or advised by the doctor to refund the money. Accumulated balance comprises amount deposited by patients who are to undergo prescribed procedure and in respect of those patients whose surgery/procedure have been deferred for the time being due to health problem. Refunds are made immediately where either the procedure is not required or the treatment completed. It is not liability. There is not a single case where the patient has asked for refund of money deposited, and has been denied the same. It is not clear how the audit party has arrived at the amount to be refunded without confirming the conduct of procedure or surgery. However, efforts are being made to confirm from consultant/treating doctor about the future plan of procedure/surgery where the file is not closed as on date. It is also stated that money will be refunded as and when the patient demands it, after getting a certificate from the consultant that the procedure/surgery has not been done. The amount as such cannot be classified as liability.

A.2  Assets

A.2.1 Advances (CT Patient Account)
As per the cash book of the CT Patient Accounts, an amount of Rs. 1 crore was transferred to the Angiography Patient Account but it been shown neither under the Payments side of the Receipt & Payment Accounts nor as advance in the Balance Sheet of the CT Patient Account, resulting in understatement of Payments and understatement of Advances by Rs. 1 crore. The amount of Rs.1.00 crore has since been transferred back to C.T.Patients Accounts. However, the observation of the Audit has been noted for future compliance.

A.2.2 Overstatement of assets (New Pension Scheme)
The closing balance of the New Pension Bank Account as at 31.3.2008 was Rs. 2.37 crore but a closing balance of Rs. 2.70 crore as on 30.4.2008 was included in the Balance Sheet of AIIMS (Main). This resulted in overstatement of Assets and Liabilities by Rs. 0.33 crore.
In this connection it is stated that closing Balance of April, 2008 was inadvertently shown in the balance instead of closing balance of March 2008. The closing balance of March, 2008 is Rs.2,36,92,623.85. The Necessary rectification will be done in the account of the year 2008-09.

A.2.3 Understatement of assets (Institute Rotary Cancer Hospital)

The Institute had paid Rs. 2.06 crore as advance for Machinery and Equipment but adjusted only Rs. 1.79 crore under the head ‘Machinery and Equipment – Adjustment of Customs advances’ on the Assets side of the balance sheet, resulting in understatement of expenditure and assets of Rs. 0.27 crore.

It is informed that due to oversight the expenditure of C.D and P.D.A was shown less for Rs.26,40,389/- (C.D of Rs.25,11,499/- + P.D.A of Rs.1,28,890/-). This will be corrected in the current financial year 2008-09.

A.2.4 Overstatement of assets (J.P.N.Apex Trauma Centre)

The actual closing balance of advance with Customs under ‘Machinery and Equipment (Customs)’ was Rs. 1.15 crore which was taken as Rs. 1.86 crore, resulting in overstatement of Machinery and Equipment by Rs. 0.71 crore and overstatement of excess of income over expenditure.

The point as raised by Audit has been noted. The necessary adjustments will be made in the current financial years accounts.

A.2.5 Understatement of assets (J.P.N.Apex Trauma Centre)

The closing balance of ‘Machinery and Equipments’ was Rs. 55.65 crore which had been taken as Rs. 50.08 crore, resulting in understatement of assets by Rs. 5.57 crore and understatement of Capital Fund by the same amount.

As far as the understatement of assets by Rs.5,56,14,499/- under the head Machinery & Equipment is concerned, it is stated that necessary reconciliation is being carried out with our store section and the outcome of the same will be furnished to Audit in due course.

A.2.6 Fixed assets

No depreciation had been provided on fixed assets, resulting in overstatement of Assets and understatement of Expenditure. Fixed assets for Rs 9.34 crore condemned during the year were reduced from the assets side and from the Capital Fund of the respective centres for which sanction of the competent authority was not made available. Hence, the correctness of the figures under Fixed Assets could not be ensured.

The Schedule of Fixed Assets showing the opening balance, additions, deletion, depreciation and closing balance has not been attached.

AIIMS is preparing its accounts on actual receipt & expenditure basis. Further, no depreciation on machinery & equipment, vehicles etc has been provided as the AIIMS is fully funded by the Government and no such provision has been made for depreciation. A note regarding the same has already been mentioned in the balance sheet. Moreover, AIIMS is under the process of finalization of the Annual Accounts as per new format then depreciation will also be taken into account.

The schedule of fixed assets showing the opening balance, addition, deletion, depreciation and closing balance will be attached with accounts as per new format.
All the receipts and payments in respect of schemes are reflected in the Institute Main Accounts. Please refer point no. 12 on payment side of Main A/c. The Appendix A-1 mentioned details of machinery & equipment purchased during the year by Scheme Cell.

A.2.7 Investments-Non-adherence to the approved pattern of investment for G. P. Fund accumulations.
Investment of accumulated funds under General Provident Fund, amounting to Rs.172.97 crore was not made as per the pattern prescribed by the Ministry of Finance vide notification no. F.5 (53)/2002-ECB & PR dated 24.1.2005. All the investments have been made keeping in view the safe guard of the funds of employees. Besides to get more interest, investment was mainly made in public sector banks. However, efforts are being made in getting the achievement as per Ministry of Finance circular by making the investment in the bonds being issued by the public sector companies.

B Income and Expenditure Account

B 1. Income

B.1.1 Understatement of income (Main-AIIMS)
An amount of Rs. 32.00 lakh was directly paid by the Ministry of Health and Family Welfare to advocates and booked as expenditure under the Grant-in-aid (Non-Plan) of AIIMS which was not accounted for in the accounts resulting in understatement of income under Grant-in-aid (Non-Plan) and understatement of expenditure by Rs.32.00 lakh.
An amount of Rs.32.00 lakh was directly paid by the Ministry of Health & Family Welfare to advocates so this amount was neither taken as the receipt nor as the expenditure in Non-Plan. Hence does not result in under statement of Income/understatement of expenditure.

B.1.2 Understatement of income (CN Centre Account) (Rs. 16.26 lakh)
Interest of Rs. 16.26 lakh earned on the LCs had not been taken as income resulting in understatement of income by Rs. 16.26 lakh and overstatement of Machinery and Equipment by the same amount as it had been credited to it.
The observation of the Audit has been noted for future compliance. Necessary correction will be done in the accounts for the year 2008-09.

B 1.3 Understatement of income (CT Patient Account)(Rs. 1.25 crore)
Interest of Rs. 1.25 crore was earned on FDRs of Rs. 18.00 crore but only Rs. 0.25 crore had been taken as interest income, resulting in understatement of income by Rs. 1.25 crore.
Receipt of F.D of Rs.18.00 crore made on 25.11.2006 matured on 25.11.2007 earning a interest of Rs.1,24,61,021. Rs.1.00 crore was invested as FDR which is included in the total FD of Rs.23.00 crore already shown in the Balance Sheet and Rs.24,61,021 was given as interest by the bank.

B 1.4 Understatement of income (Gamma Knife Patient Account) (Rs. 25.81 lakh)
Interest of Rs. 25.81 lakh earned on FDRs had not been taken as income, resulting in understatement of income by Rs.25.81 lakh.
Interest of Rs.25.81 lakh earned on FDR has been noted and will be reflected in the accounts for the current financial year 2008-09.
B.1.5 Understatement of income (Neuro Surgery Patient Account)(Rs.17.95 lakh)
Interest of Rs. 17.95 lakh earned on the FDRs have not been taken as income, resulting in
understatement of income by Rs. 17.95 lakh.
Rs.17,94,802 appeared in bank statement on 3.4.2008 as interest income has been noted and
will be reflected in current financial year 2008-09.

C. General

C.1.1 Non-consolidation of accounts
The different departments of the institute were treated as separate entities and for each
department, Receipt and Payment account, Income and Expenditure account and Balance
Sheet was prepared and excess of income over expenditure, capital fund and investments
worked out but the consolidation of these accounts was not done. As such, the headwise
consolidated financial position of the institute was not available.
Significant accounting policies adopted by the Institute in the preparation of annual accounts
were not disclosed.
AIIMS is in the process of finalizing its accounts as per new format of accounts. Audit
observation will be taken into consideration at the time of finalization of next year accounts.

C.1.2 Assets included assets valued at Rs. 14.39 lakh destroyed due to fire and theft during
the year 2007-08.
Audit observation will be taken into consideration at the time of finalization of next year
accounts.

C.1.3 A trial balance had not been prepared and hence, it could not be ensured that all debits
were equal to all credits.
Audit observation will be taken into consideration at the time of finalization of next year
accounts.
1. Adequacy of internal audit system
   • The Institute did not have any internal audit manual.
   • As per the audit plan, 70 units were to be audited during 2007-08 but only 23 units were audited.

2. Adequacy of Internal Control System
   
   Control Environment
   • Three posts of Accounts Officers were lying vacant. The post of Financial Advisor was vacant w.e.f. 30.11.06.
   • Twenty six disciplinary cases were pending from 2000 to till date. The agewise break-up was not given by the Institute.

   Monitoring
   • The settlement of outstanding paras of external audit was poor. No review meeting was taken by the Management to monitor the settlement of outstanding paras of statutory audit. 65 paras for the period from 1992-93 to 2004-05 were outstanding.

3. System of physical verification of fixed assets:
   • The physical verification of fixed assets had not been conducted during 2007-08 and as such, the actual existence of fixed assets included in the accounts could not be assured.

4. Regularity in payment of statutory dues:
   • As per the accounts, no statutory dues over six months were outstanding