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Dr. K.S.V.K. Subba Rao, The Director

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Dr. Sunil K. Narayan, Additional Professor & Head, Department of Neurology

Mr. Z. Zayapragassarazan, Assistant Professor of Educational Technology (Medical Education)
Jawaharlal Institute of Postgraduate Medical Education and Research (JIPMER)

Jawaharlal Institute of Postgraduate Medical Education and Research originated as École de Médecine de Pondichérry established by the French Government in the year 1823. This medical school was converted into Dhanvantari Medical College at the time of de facto transfer of Pondicherry to Government of India. This Medical College was later upgraded into Jawaharlal Institute of Postgraduate Medical Education and Research (JIPMER). JIPMER was declared an Institution of National Importance by an Act of Parliament on 14th July 2008.

JIPMER is well known for its undergraduate and postgraduate medical courses and its alumni have excelled in different disciplines all over the world. It has excellent medical care facilities and most of the patients treated here belong to low socioeconomic group. JIPMER also promotes research in various medical disciplines.

JIPMER runs a popular MBBS course. There are twenty one postgraduate courses, seven super speciality courses, four PhD programmes and four postgraduate diploma courses. The College of Nursing runs B.Sc. (Nursing) course.

JIPMER conducts a nationally acclaimed ten day National Course on Educational Science for Teachers of Health Professionals. This is the only ten day residential course on Educational Science for Teachers of Health Professionals organized in India. JIPMER has been conducting this course twice a year without interruption since the year 1976.

JIPMER has been undertaking research in various pre-clinical, para-clinical and clinical disciplines under the supervision of Institute Research Council (recently upgraded to Scientific Advisory Committee by incorporating external members) and Institute Ethics Committees (Human Studies and Animal Studies) since its inception.

There are thirty eight academic departments and six academic divisions which directly or indirectly take part in rendering high quality medical care to patients. JIPMER has a total bed strength of 1591 beds. The daily average number of outpatients treated is 4,760. Under the Rashtriya Arogya Nidhi (RAN) twenty two patients were benefited and Rs. 10,59,277/- was utilized during the year. Recently commissioned super speciality block provides state of the art medical care in different super specialities largely to poor patients from in and around Puducherry.

As part of its extension programmes, JIPMER has been involved in running its Rural Health Centre and Urban Health Centre in Puducherry and outreach programmes in Karaikal region of Puducherry.
ORGANISATION

The Institute Body

The Governing Body

Standing Finance Committee
Standing Selection Committee
Standing Academic Committee
Standing Estate Committee
Standing Hospital Affairs Committee
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JIPMER
1. Director’s Review

I am happy to present the first Annual Report of the Institute along with the audited statements of accounts for the year 2009-2010.

The origin of JIPMER dates back to 1823 when the French Government established a medical school called École de médecine de Pondichéry to give medical diplomas. At the time of de facto transfer of Pondicherry to Government of India, the medical school was taken over by the Government of India and was converted into a medical college and named as Dhanvantari Medical College. Later, in the year 1964, it was upgraded to Regional Postgraduate Institute and named after our first Prime Minister, Pandit Jawaharlal Nehru, and got the name of Jawaharlal Institute of Postgraduate Medical Education and Research (JIPMER). Its campus is spread over 192 acres of sloping land that is a hillock, known in vernacular as “Gorimedu”. The institute has a self-sufficient campus consisting of the college, hospital, hostel buildings and residential staff quarters. Well laid out roads, green trees & plants and cleanliness help in maintaining the serenity in the Institute. Over the years, it has grown as one of the premier institutes of the country known for excellent standards both in medical education and patient care. Alumni of this Institute are placed in high positions all over the world. JIPMER was declared as an Institution of National Importance by an Act of Parliament in the year 2008. With this new status, this Institute is poised for greater development in training, research and patient care especially for the poor and downtrodden who cannot afford expensive high tech medicare in corporate hospitals.

JIPMER is committed to provide high quality medical care to all sections of the society, it conducts undergraduate, postgraduate, super speciality and Ph.D courses in various disciplines to train competent and caring medical professionals and to undertake health and medical research for the ultimate benefit of the society. JIPMER has developed into a vibrant organization with conducive atmosphere for medical care, medical education and research.

After becoming an Institution of National Importance in 2008 by an act of Parliament, JIPMER now conducts all its examinations and awards its own degrees. JIPMER is fully funded by the Ministry of Health and Family Welfare, Government of India but for extramural grants for research activities. Most of the patient care services are free or highly subsidized for patients attending JIPMER Hospital.

The admission to first year MBBS course in JIPMER is through All India Entrance Examination. A total of 22,674 applications were received and 17,389 candidates appeared in the Entrance Examination for the first year MBBS Course, 2009-2010 session. Out of the 11,966 candidates who qualified in the Entrance Examination, 82 candidates were admitted based on their category merit rank. Eighteen candidates were nominated for the Academic Session 2009-2010 by the Government of India.

College of Nursing was started by JIPMER during the year 2006 with an annual intake of 75 students. Admissions were made to the B.Sc (Nursing) course based on an Entrance Examination for the 2009-2010 session. The B.Sc (MLT) course was started by JIPMER in the year 1985 for training professionals in medical laboratory technology in an integrated fashion for all branches of laboratory technology. During the academic year 2009-2010, 30 candidates were admitted to this 3 year course. JIPMER also conducts EMT (Emergency
Medical Technician) certificate course with the objective of training personnel to handle trauma victims/emergencies during the golden hour of pre-hospitalization including onsite and hospital care. Twenty students are admitted during every academic session for this nine month course. The Standing Academic Committee has also approved starting of following courses from the next academic year: B.Sc., (Dialysis Technology), B.Sc., (Perfusion Technology), B.Sc., (Medical Radiation Technology), B.Sc., (Operation Theatre Technology) and M.Sc., (Medical Lab Technology – Microbiology).

Post graduate courses (M.D. / M.S.) are conducted in 21 disciplines. A total of 88 seats are available for the 21 postgraduate courses and there is a proposal to add 34 more seats for the postgraduate courses from 2011-12. At present Super Speciality Programmes (D.M. / M.Ch.) are conducted in 7 disciplines. A total of 10 seats are available for these 7 Super Speciality Programmes.

PhD programmes are conducted in 8 disciplines and a total of 18 seats are available for these 8 PhD programmes. JIPMER has been conducting M.Sc (Medical Biochemistry) course for the last 32 years. For the academic year 2009-2010, nine students were admitted on the basis of the Entrance Examination to this 3 years course. The main objective of this course is to facilitate skill development in biochemical diagnosis. JIPMER also runs courses for M.R.T. (Medical Record Technician) and M.R.O. (Medical Record Officer) in which sponsored government servants from various institutions are imparted training in the Department of Medical Records.

The Department of Medical Education conducts a popular ten day residential National Course on Educational Science for Teachers of Health Professionals twice every year in the months of February and September. The purpose of this National Course, which is organized in a workshop mode, is to impart training to medical and paramedical teachers to facilitate development of skill based and need based graduate medical and paramedical education.

JIPMER organizes conferences, workshops and other training programmes in various disciplines at national, regional, state and local levels to promote continuing medical education and training for faculties of different fields. As part of continuing medical education, telemedicine programmes have also been initiated.

The Institute has been in the forefront of medical research and after the conversion of the Institute into an Institution of National Importance, the research activities have increased significantly with the availability of more funds and with the increase in the number of faculty members. Intramural research grants were given to eight research projects and fifteen MD/MS/PhD/M.Sc dissertation and thesis projects. Several research projects with extramural funds have also been started.

JIPMER Hospital has a total bed strength of 1591. The daily average number of outpatients treated in the year 2009-2010 was 4,760. Under the Rashtriya Arogya Nidhi (RAN) twenty two patients were benefited and Rs. 10,59,277/- was utilized during the year. In the year 2009-2010, a total of 14,04,389 outpatients were treated in JIPMER Hospital. In the year 2009-2010, a total of 64,331 admissions were made in the Hospital. A total of 19,48,543 investigations were carried out in the year 2009-2010. Total number of deliveries conducted were 16,363. Total number of operations performed were 35,195. The total attendance in Emergency Medical Service (Main Casualty) was 1,17,517 and the total attendance in OG Casualty was 18,267. JIPMER catered to people from the states of Puducherry, Tamil Nadu, Andhra Pradesh, Karnataka, Kerala and other states.
JIPMER also has extension programmes in the form of Rural Health Centre in Puducherry and outreach centre in Karaikal, Puducherry to provide medical care to the needy people who may find it difficult to approach the main Hospital.

Several development projects have been completed in the last couple of years. Department of Radiotherapy has got the status of Regional Cancer Centre in the year 2002. A new building has been constructed with bed strength of 80. Medical Oncology, Radiation Oncology and Cancer Registry, Day Care Centre have been commissioned along with the Super Specialty Block & Trauma Care Centre. Augmentation of the Regional Cancer Centre is being done by installing high tech state-of-the-art equipments like IGRT Unit, HDR Brachytherapy Unit, CT guided Planning System etc. This will provide comprehensive cancer care. A 360 bedded Super Specialty Block housing all the super specialty departments under one roof has been constructed at a cost of Rs.93.04 crores. A Trauma Care Centre has been constructed over the existing Emergency Medical Services Department at a cost of Rs.13 crores. This centre has state-of-the-art equipments such as Multi Slice CT Scanners, high profile Operating Tables, Micro-Vascular Instruments etc. and 2 high tech Ambulances. With this, Emergency Medical Services Department has got all the diagnostic and treatment facilities under one roof. Both the Super Specialty Block and Trauma Care Centre have been commissioned. Several super specialty services which were not available earlier at JIPMER are now being offered. Medical Oncology, Surgical Oncology, Medical Gastroenterology, Surgical Gastroenterology, Nephrology, Neuro Surgery and Endocrinology departments have started functioning in the new super specialty block. Efforts are being made to start post doctoral training programmes in all these departments. Action has also been initiated for second phase of development which includes construction of a 400 bedded Women and Children hospital, a Teaching Block, Hostel Complex and upgradation of all the departments as per the Oversight Committee recommendations. Rs.384 crores were sanctioned for this project with the approval of CCEA. With this, necessary infrastructure is provided to increase the UG seats to 150 and PG seats to 122.

Following are some of the other new services started during last year:

- An Acute Stroke and Neuro Intensive Care Unit has been set up in the Neurology department. Neuro Surgery department has started doing Stereo tactic biopsy for deep seated brain lesions.
- World Bank supported ‘Regional Influenza Laboratory’ for the surveillance of human, avian and swine Influenza has been set up in Microbiology department.
- Orthopaedics department has started doing Total Knee Replacement.
- Clinical Immunology has been made an independent division and diagnostic and therapeutic services are being offered by this division.
- Yoga therapy OPD has been started and generalized yoga therapy consultation is provided for diabetes mellitus, hypertension, respiratory disorders, and for other chronic ailments thereby providing holistic health care.
- Crisis Intervention Clinic has been started in the Psychiatry department to cater to the needs of cases of attempted suicide.
On the academic side, several new courses have been started from last year such as D.M. in Clinical Pharmacology, Clinical Immunology, Neurology, Neonatology, MD Radiotherapy and post doctoral fellowship in Diabetology. Besides awarding its own degrees, the Institute is now empowered to start various new courses and develop its own curriculum for these courses. The areas where trained manpower is needed in healthcare will be identified and new courses will be formulated accordingly. Thus, JIPMER is going to become a major hub for producing the much needed manpower in medical, nursing and other paramedical services in the years to come. Another major thing the Institute could achieve during last year was selection to faculty posts. About 50% of the faculty posts were vacant at any given time and filling up these posts remained as a dream all these years since it had to be done by UPSC. The Institute, on becoming an autonomous body, conducted the interviews and selected about 100 Assistant Professors in various disciplines and almost all of them have joined. It was never in the history of JIPMER these many faculty posts could be filled up in such a short span of time. With increased strength in faculty posts and augmentation of facilities, JIPMER is in a position to do better both in terms of medical education and patient care services.

The First Convocation of JIPMER as an Institute of National Importance was held under the Chancellorship of Prof. N.K. Ganguly, the President of the Institute on 22nd March 2010 in which Shri. Ghulam Nabi Azad, Hon’ble Union Minister of Health and Family Welfare was the Chief Guest and Shri V. Narayanasamy, Hon’ble Union Minister of State for Planning, Parliamentary Affairs and Culture was the Guest of Honour.

Prof. K.S.V.K. Subba Rao
Director, JIPMER.
2. The Institute Body and its Committees

The Institute Body

1. Prof. (Dr.) N.K. Ganguly  
   Former Director General of Indian Council of Medical Research, New Delhi.  
   President

Ex-Officio Members

2. Shri. Naresh Dayal  
   Secretary to the Government of India  
   Ministry of Health and Family Welfare  
   Member  
   Till 30.09.2009

   Ms. Sujatha Rao  
   Secretary to the Government of India  
   Ministry of Health and Family Welfare  
   Member  
   From 01.10.2009

3. Dr. J.A.K Tareen  
   Vice-Chancellor, Pondicherry University.  
   Member

4. Dr. Meer Mustafa Hussain  
   Vice-Chancellor  
   Tamil Nadu Dr. M.G.R Medical University  
   Chennai.  
   Member  
   Till 26.11.2009

   Dr. Mayil Vahanan Natarajan  
   Vice-Chancellor  
   Tamil Nadu Dr. M.G.R Medical University  
   Chennai.  
   Member  
   From 27.11.2009

5. Dr. R.K Srivastava  
   Director General of Health Services  
   Government of India.  
   Member

6. Mrs. Nalini Jayaseelan  
   Chief Secretary  
   Government of Puducherry.  
   Member  
   Till 11.03.2009

   Shri R. Chandramohan  
   Chief Secretary  
   Government of Puducherry.  
   Member  
   From 12.03.2009

7. Shri. Naved Masood  
   Additional Secretary cum Financial Advisor  
   Ministry of Health and Family Welfare  
   Government of India.  
   Member
8. **Secretary to the Govt. of India or his nominee**
   (not below the rank of Joint Secretary)
   Department of Higher Education Ministry of Human Resource Development.

9. **Dr. K.S.V.K Subba Rao**
   Director, JIPMER.

**Nominated Members**

10. **Prof. (Dr.) M.S. Ramachandran**
    (Former Professor & HOD, Department of Medicine, Madras Medical College),
    Chennai.

11. **Prof. Indira Chakravarty**
    (Former Director, All India Institute of Public Health & Hygiene) Kolkata.

12. **Prof. D. Viswanathan**
    (Former Vice-Chancellor, Anna University) Chennai.

13. **Dr. V. Kanakaraj**
    (Former Professor & HOD, Department of Anesthesiology, Madras Medical College) Chennai.

14. **Dr. B.K. Goyal**
    Director, Interventional Cardiology & Hon.
    Dean, Bombay Hospital & Medical Research Centre, Mumbai.

15. **Prof. Avijit Banerji**
    Programme Co-ordinator Centre of Advanced Studies Department of Chemistry, University College of Science and Technology, Kolkata.

16. **Prof. (Dr.) Suneeta Mittal**
    Professor & Head Department of Obstetrics & Gynecology, All India Institute of Medical Sciences, New Delhi.

17. **Prof. (Dr.) K.K. Talwar**
    Director, PGIMER Chandigarh.
18. **Prof. (Dr.) D. Nagaraja**  
Member  
Former Director/Vice-Chancellor,  
National Institute of Mental Health &  
Neuro Sciences, Bangalore.

19. **Prof. (Dr.) R. Surendran**  
Member  
Professor & Head, Institute of Surgical  
Gastroenterology, Government Stanley  
Medical College, Chennai.

### Elected Members of Parliament

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<td>Shri B.S. Gnanadesikan</td>
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<td>Prof. M. Ramadass</td>
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<td>Shri S.S. Ramasubbu</td>
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### Special Invitees

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<td>2</td>
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<td>Member</td>
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<td>Joint Secretary, (HR)</td>
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The Governing Body

1. **Prof. (Dr.) N.K. Ganguly**
   Former Director General of Indian Council of Medical Research, New Delhi.
   **Chairman**

2. **Prof. M. Ramadass**
   Hon’ble Member of Parliament (Lok Sabha)
   **Member**
   *Shri S.S. Ramasubbu*
   Hon’ble Member of Parliament (Lok Sabha)
   **Member**
   Till 17.05.2009

3. **Shri. Naresh Dayal**
   Secretary to the Government of India Ministry of Health and Family Welfare
   **Member**
   Till 30.09.2009

4. **Ms. Sujatha Rao**
   Secretary to the Government of India Ministry of Health and Family Welfare
   **Member**
   From 01.10.2009

5. **Dr. R.K Srivastava**
   Director-General of Health Services, Government of India.
   **Member**

6. **Shri Naved Masood**
   Additional Secretary cum Financial Advisor Ministry of Health and Family Welfare Government of India.
   **Member**

7. **Shri R. Chandramohan**
   Chief Secretary Government of Puducherry.
   **Member**

8. **Prof (Dr.) M.S. Ramachandran**
   (Former Professor & HOD, Department of Medicine, Madras Medical College), Chennai.
   **Member**

9. **Prof. (Dr.) R. Surendran**
   Professor & Head, Institute of Surgical Gastroenterology, Government Stanley Medical College, Chennai.
   **Member**

JIPMER 2009-2010 / 8
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<td>Dr. A.K Das</td>
<td>Senior Professor &amp; Medical Superintendent, JIPMER.</td>
<td>Member</td>
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<tr>
<td>11</td>
<td>Dr. P.H. Ananthanarayanan</td>
<td>Professor &amp; HOD Biochemistry, JIPMER.</td>
<td>Member</td>
</tr>
<tr>
<td>12</td>
<td>Dr. K.S Reddy</td>
<td>Dean, JIPMER.</td>
<td>Member</td>
</tr>
<tr>
<td>13</td>
<td>To be nominated by Government</td>
<td></td>
<td>Member</td>
</tr>
<tr>
<td>14</td>
<td>To be nominated by Government</td>
<td></td>
<td>Member</td>
</tr>
<tr>
<td>15</td>
<td>Dr. K.S.V.K Subba Rao</td>
<td>Director, JIPMER.</td>
<td>Member Secretary</td>
</tr>
</tbody>
</table>
### Standing Finance Committee

1. **Shri. Naresh Dayal**  
   Secretary to the Government of India  
   Ministry of Health and Family Welfare  
   **Chairman**  
   Till 30.09.2009

2. **Ms. Sujatha Rao,**  
   Secretary to the Government of India  
   Ministry of Health and Family Welfare  
   **Chairman**  
   From 01.10.2009

3. **Smt. K. Rani**  
   Hon’ble Member of Parliament (Lok Sabha)  
   **Member**  
   Till 17.05.2009

4. **Dr. Sanjay Jaiswal**  
   Hon’ble Member of Parliament (Lok Sabha)  
   **Member**  
   From 18.05.2009

5. **Dr. R.K Srivastava**  
   Director General of Health Services,  
   Government of India.  
   **Member**

6. **Dr. Naved Masood**  
   Additional Secretary cum Financial Advisor  
   Ministry of Health and Family Welfare  
   Government of India.  
   **Member**

7. **Shri R. Chandramohan**  
   Chief Secretary Government of Puducherry.  
   **Member**

8. **Prof (Dr.) K.K. Talwar**  
   Director, PGIMER, Chandigarh.  
   **Member**

9. **Prof. (Dr.) D. Nagaraja**  
   Former Director/Vice-Chancellor, National  
   Institute of Mental Health & Neuro  
   Sciences, Bangalore.  
   **Member**

10. **Prof. D. Viswanathan**  
    (Former Vice-Chancellor, Anna University),  
    Chennai.  
    **Member**

11. **Dr. V. Kanakaraj**  
    (Former Professor & HOD, Department of  
    Anesthesiology, Madras Medical College),  
    Chennai.  
    **Member**

12. **Prof. Indira Chakravarty**  
    (Former Director, All India Institute of  
    Public Health), Kolkata.  
    **Member**

13. **Dr. K.S.V.K Subba Rao**  
    Director, JIPMER.  
    **Member Secretary**

JIPMER 2009-2010 / 10
Standing Selection Committee

1. **Prof.(Dr.) R. Surendran**
   Professor & Head, Institute of Surgical Gastroenterology, Government Stanley Medical College, Chennai.

2. **Dr. R.K. Srivatsava**
   Director General of Health Services, Government of India.

3. **Prof (Dr.) K.K. Talwar**
   Director, PGIMER, Chandigarh.

4. **Prof. (Dr.) D. Nagaraja**
   Former Director/Vice-Chancellor, National Institute of Mental Health & Neuro Sciences, Bangalore.

5. **Prof (Dr.) M.S. Ramachandran**
   (Former Professor & HOD, Department of Medicine, Madras Medical College), Chennai.

6. **Dr. V. Kanakaraj**
   (Former Professor & HOD, Department of Anesthesiology, Madras Medical College), Chennai.

7. **Prof. Indira Chakravarty**
   (Former Director, All India Institute of Public Health), Kolkata.

8. **Dr. N. Saraswathy**
   (Former Director, Institute of Obstetrics & Gynaecology, Chennai.)

9. **Dr. Nalli Yuvaraj**
   Associate Prof. of Spinal Surgery, MMC, Chennai.

10. **Dr. K.S.V.K Subba Rao**
    Director, JIPMER.

Chairman

Member

Member

Member

Member

Member

Member

Member

Member Secretary
### Standing Academic Committee

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Position/Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td><strong>Prof (Dr.) M.S. Ramachandran</strong></td>
<td>Chairman</td>
</tr>
<tr>
<td></td>
<td>(Former Professor &amp; HOD, Department of Medicine, Madras Medical College), Chennai.</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td><strong>Shri B.S. Gnanadesikan</strong></td>
<td>Member</td>
</tr>
<tr>
<td></td>
<td>Hon’ble Member of Parliament (Rajya Sabha)</td>
<td></td>
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<tr>
<td>3.</td>
<td><strong>Dr. R.K Srivastava</strong></td>
<td>Member</td>
</tr>
<tr>
<td></td>
<td>Director General of Health Services, Government of India.</td>
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<tr>
<td>4.</td>
<td><strong>Dr. Meer Mustafa Hussain</strong></td>
<td>Member</td>
</tr>
<tr>
<td></td>
<td>Vice-Chancellor, Tamil Nadu Dr. M.G.R Medical University, Chennai.</td>
<td>Till 26.11.2009</td>
</tr>
<tr>
<td></td>
<td><strong>Dr. Mayil Vahanan Natarajan</strong></td>
<td>Member</td>
</tr>
<tr>
<td></td>
<td>Vice-Chancellor Tamil Nadu Dr. M.G.R Medical University, Chennai.</td>
<td>From 27.11.2009</td>
</tr>
<tr>
<td>5.</td>
<td><strong>Prof (Dr.) K.K. Talwar</strong></td>
<td>Member</td>
</tr>
<tr>
<td></td>
<td>Director, PGIMER, Chandigarh.</td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td><strong>Prof. (Dr.) D. Nagaraja</strong></td>
<td>Member</td>
</tr>
<tr>
<td></td>
<td>Former Director/Vice-Chancellor National Institute of Mental Health &amp; Neuro Sciences, Bangalore.</td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td><strong>Prof. (Dr.) Suneeta Mittal</strong></td>
<td>Member</td>
</tr>
<tr>
<td></td>
<td>Prof. &amp; Head, Department of Obstetrics &amp; Gynecology, All India Institute of medical Sciences, New Delhi.</td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td><strong>Prof.(Dr.) R. Surendran</strong></td>
<td>Member</td>
</tr>
<tr>
<td></td>
<td>Professor &amp; Head, Institute of Surgical Gastroenterology, Government Stanley Medical College, Chennai.</td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td><strong>Dr. V.I. Mathan</strong></td>
<td>Member</td>
</tr>
<tr>
<td></td>
<td>(Former Director, CMC, Vellore)</td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td><strong>Dr. V.M. Katoch</strong></td>
<td>Member</td>
</tr>
<tr>
<td></td>
<td>Secretary – Department of Health Research &amp;Director-General, ICMR, New Delhi.</td>
<td></td>
</tr>
</tbody>
</table>

JIPMER 2009-2010 / 12
11. Secretary or his nominee (not below the rank of Joint Secretary) in the Department of Higher Education, Ministry of Human Resource Development, GOI. 

12. Dr. K.S Reddy 
Dean, JIPMER. 

13. Dr. K.S.V.K Subba Rao 
Director, JIPMER. 

Member 
Member 
Member Secretary
Standing Estate Committee

1. **Prof. Viswanathan**  
(Former Vice-Chancellor, Anna University), Chennai.  
*Chairman*

2. **Shri B. S. Gnanadesikan**  
Hon’ble Member of Parliament (Rajya Sabha)  
*Member*

3. **Dr. B.K. Goyal**  
Director, Interventional Cardiology & Hon. Dean, Bombay Hospital & Medical Research Centre, Mumbai.  
*Member*

4. **Shri R. Chandramohan**  
Chief Secretary Government of Puducherry.  
*Member*

5. **Prof. (Dr.) D. Nagaraja**  
Former Director/Vice Chancellor, National Institute of Mental Health & Neuro Sciences, Bangalore.  
*Member*

6. **Dr. P.H Ananthnarayanan**  
Professor & Head, Department of Biochemistry, JIPMER.  
*Member*

7. **Dr. S. Badrinath**  
Professor of Microbiology & Project Coordinator, JIPMER.  
*Member*

8. **Dr. K.S.V.K Subba Rao**  
Director, JIPMER.  
*Member Secretary*
Standing Hospital Affairs Committee

1. **Dr. R.K Srivastava**  
   Director General of Health Services, Government of India.  
   **Chairman**

2. **Smt. K. Rani**  
   Hon’ble Member of Parliament (Lok Sabha)  
   **Member**  
   Till 17.05.2009

   **Dr. Sanjay Jaiswal**  
   Hon’ble Member of Parliament (Lok Sabha)  
   **Member**  
   From 18.05.2009

3. **Prof. (Dr.) D. Nagaraja**  
   Former Director/Vice Chancellor, National Institute of Mental Health & Neuro Sciences, Bangalore.  
   **Member**

4. **Prof (Dr.) M.S. Ramachandran**  
   (Former Professor & HOD, Department of Medicine, Madras Medical College), Chennai.  
   **Member**

5. **Dr. V. Kanakaraj**  
   (Former Professor & HOD, Department of Anesthesiology, Madras Medical College), Chennai.  
   **Member**

6. **Dr. Avijit Banerjee**  
   Programme Coordinator, Centre of Advanced Studies, Department of Chemistry, University College of Science & Technology, Kolkata.  
   **Member**

7. **Dr. A.K Das**  
   Senior Professor & Medical Superintendent, JIPMER.  
   **Member**

8. **Dr. S. Srinivasan**  
   Professor & Head, Department of Paediatrics, JIPMER  
   **Member**

9. **Dr. K.S.V.K Subba Rao**  
   Director, JIPMER.  
   **Member Secretary**

JIPMER 2009-2010 / 15
Administrative Setup

DIRECTOR

MEDICAL SUPDT

DEAN

GENERAL ADMN

FINANCE & ACCOUNTS

DEPTS & DIVISIONS

RESEARCH WING

COLLEGE OF NURSING

Hospital Services & Patient Care

Academics Teaching & Exams

Establishment Sciences & Estate

Accounts, Bills, Finance & Purchase

Specialized Services and Consultations Teaching & Research
3. General Administration

Director-Professor of Biometrics
&
Faculty (Administration)*
Ajit Sahai

Chief Medical Officer (NFSG)*
&
Officer on Special Duty (OSD)
M.K. Srivastava

*DDA/Senior Administrative Officers
V. Sudha (Vacant)

Administrative Officers

Human Resource Division
C. B. Unnikrishnan

Hospital
Pal Raveendran

* CHS

*In exercise of the powers conferred to Director as CEO of the institute by section 26(3) of the regulations of JIPMER act 2008, ad-hoc arrangements were made to activate Faculty (Administration) position for overseeing the entire administration of the institute, since the post of Deputy Director (Admn) on par with AIIMS, New Delhi and PGIMER, Chandigarh is yet to be created by the Ministry, for which the proposal is under active consideration. The present post of D.D.A in the Institute is in the scale of the Senior Administrative Officer.

The Institute has three major administrative wings (as depicted in the administrative setup flowchart) namely, “General Administration & Finance”; “Academic, Teaching & Research” and “Hospital & Patient Care”. The General Administration consists of seven Establishment Sections and Estates. All the matters relating to the administration, including creation of posts, recruitments, promotions, arranging meetings of statutory committees, estate management, arrangement of vehicles, security, matters related to discipline and employees’ welfare are coming under the purview of the general administration. Establishment—I deals with creation of posts, recruitment, promotions (APS, DACP, MACP) & all service matters of Group-A & B employees. Establishment—II deals with recruitment of Resident Doctors and rest of the employees in various categories not included above and promotions including MACP and ACR of all Group-C employees. Establishment—III deals with all service matters of Group-C employees. Establishment—IV (R.R. Cell) deals with formulation of draft R.Rs & the notifications and amendments. Establishment—V (Disc. & Court Cases Cell) deals with court matters, disciplinary actions and undertakes inquiries and vigilance cases.
Establishment–VI (Pension Cell) takes care of pension, family pension, gratuity of all superannuation and VRS employees. Establishment–VII (General Section) undertakes maintenance & disposal of vehicles and other general matters. Estate Section has overall responsibility of the estate of the institute including construction and maintenance (Civil & Electrical works) of all the buildings and roads.

To cope up with additional responsibilities and expansion of activities in Administration, Academics and Finance & Accounts divisions after the up-gradation of the institute by an act of parliament in the year 2008, it became essential to create additional posts to manage above tasks independently as an autonomous institution. The Ministry of Health & Family Welfare, Govt. of India had recently approved the creation of twelve managerial positions and a proposal for creating 176 additional posts is under active consideration of the Ministry. The pending new creations also include a Deputy Director (Admin), a Registrar and a few additional positions of Administrative Officers, Accounts Officers and support staff on par with AIIMS, New Delhi and PGIMER, Chandigarh.

### Current Staff Strength

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Category</th>
<th>Sanctioned Strength</th>
<th>Existing Strength</th>
<th>No of Vacant posts</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Faculty</td>
<td>245</td>
<td>161</td>
<td>84</td>
</tr>
<tr>
<td>2</td>
<td>Group ‘A’</td>
<td>128</td>
<td>89</td>
<td>39</td>
</tr>
<tr>
<td>3</td>
<td>Group ‘B’</td>
<td>1047</td>
<td>904</td>
<td>143</td>
</tr>
<tr>
<td>4</td>
<td>Group ‘C’</td>
<td>681</td>
<td>467</td>
<td>214</td>
</tr>
<tr>
<td>5</td>
<td>Group ‘D’</td>
<td>874</td>
<td>643</td>
<td>231</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Total</strong></td>
<td><strong>2975</strong></td>
<td><strong>2264</strong></td>
<td><strong>711</strong></td>
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</tbody>
</table>

### Residents Doctors Strength

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Category</th>
<th>Sanctioned Strength</th>
<th>Existing Strength</th>
<th>No of Vacant posts</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Senior Resident</td>
<td>270</td>
<td>144</td>
<td>126</td>
</tr>
<tr>
<td>2</td>
<td>Junior Resident(NPG)</td>
<td>71</td>
<td>27</td>
<td>44</td>
</tr>
<tr>
<td>3</td>
<td>Junior Resident(PG)</td>
<td>221</td>
<td>213</td>
<td>8</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Total</strong></td>
<td><strong>562</strong></td>
<td><strong>384</strong></td>
<td><strong>178</strong></td>
</tr>
</tbody>
</table>

### Major Achievements

The Institute had conducted a series of recruitments during the year for a number of positions in various categories. More than hundred medical Assistant Professors were recruited in about thirty five departments after a month-long interview process held at Chennai to facilitate participation of the candidates as well as the Standing Selection Committee members and also considering the travel convenience of the experts from premier institutions in the country. Around fifteen non-medical faculty positions were also filled including those from College of
Nursing. In addition to the above faculty positions around 100 Senior and NPG Junior Residents were appointed and more than 250 posts in about forty ministerial, nursing & technical staff cadres were advertised at national level to attract candidates from various eligible categories. The recruitment process has already been completed for more than thirty categories of staff that also included appointing around hundred Staff Nurses. More than 15,000 applications were received for the above vacancies from all over the country suggesting a good competitive environment.

Some of the senior positions on deputation basis were also filled-up, including Deputy Director (Admn)/Senior Administrative Officer, Finance and Chief Accounts Officer, Registrar, Assistant Controller of Examinations, Administrative Officers and Accounts Officer & Assistant Accounts Officers on promotion basis. In continuity of the sixth pay commission recommendations and latest guidelines received from Government of India, a number of MACP consideration were made for the benefit of the employees in various categories, over and above conducting DPC meetings as per the schedule.
4. Developmental Projects

Professor & Project Co-ordinator
S. Badrinath

The Tenth Plan Vision Document proposed Upgradation of Medicare Facilities-I at JIPMER, Puducherry

As trauma care facilities and some of the super specialty services were lacking, it was decided to have a Trauma Care Center and Super Specialty Block in addition to setting up of Nursing College and upgrading Regional Cancer Center. An EFC proposal was submitted to the Ministry of Health & Family Welfare, Government of India and same was discussed at various levels and the proposal was approved by the CCEA. The scope of work included the Project planning, design, construction, and procurement, installation, testing and commissioning of equipments and integrated commissioning of the hospital. The project has to be executed on turn key basis by EPC Developer who was identified by following the process of tendering and selection. M/s Larsen and Toubro Ltd. was entrusted with the projects and HLL Lifecare Ltd. was appointed as in-house consultant to supervise the implementation of the projects by co-ordinating between JIPMER and EPC developer.

The project included establishing a separate Super Specialty Block of 24000 sqm to cater patient needs in 15 super specialty areas as well as to provide facilities for post-graduate education in key super specialty disciplines. The state of the art trauma care centre was established in a three storey set up having 2400 sqm building over the existing Emergency Medical Services Block to cater to the trauma care patients in this area.

This Institute for the first time established a Nursing College with capacity to train 75 nursing professionals per batch for B.Sc. (Nursing) with state-of-art quality, class rooms and hostel facilities.

Phase I upgradation also included augmentation of existing specialties in the existing hospital block and also upgrading the existing oncology centre by creating separate cancer ward to accommodate 100 patients.

The work inter-alia also included Hospital planning with functional analysis and work flow analysis. It also contain architectural brief, design concept, concept for services, etc. The most important entity of the scope of work includes procurement, installation, testing and commissioning of medical equipment as per specification provided. The project was executed on turn key basis and it was a time bound and completed in a record time of 22 months.

The details of various components of the project are as follows:

New Super Specialty Block consisted of 360 beds which occupy six floors and fully air-conditioned and houses the following departments:

Cardiology, Cardio-thoracic Vascular Surgery, Neurology, Urology, Plastic Surgery, Endocrinology, Neurosurgery, Nephrology, Pediatric Surgery, Nuclear Medicine, Medical Oncology, Surgical Oncology, Medical Gastroenterology, Surgical Gastroenterology, Anesthesiology and Critical Care.
All the above departments are fully equipped with state of art medical equipments required and the block has 12 operation theatres, 50 intensive care beds, diagnostic facilities, OPD chambers, space for waiting areas, laboratories, doctors’ facilities, office, stores, pharmacy, etc. The total cost of establishing Super Specialty Block and Augmentation of existing specialty departments was around 93 crores. Major equipments like MRI, CT, 500 ma X-ray, Cath Lab are located in ground floor of OPD wing.

TRAUMA CARE CENTRE

The project included the upgradation of the existing emergency care department through the establishment of comprehensive trauma care centre. This has been done through construction of an additional three floors over the existing two floors of EMS in a total area of about 2400 sqm arpx. The trauma centre housed the departments of general surgery, orthopedics, emergency medicine, anesthesiology and critical care. The total cost of establishing the trauma care centre was around 13 crores.

Augmentation of the existing specialties

The project included augmentation of existing medicine, general surgery and obstetrics and gynecology departments which accomplished through increase in the number of beds shifting 7 super specialties from the existing block to the new block and by upgradation of the existing equipment and facilities.

STATE OF THE ART NURSING COLLEGE

A state of the art nursing college of 4 floors was built to cater to the requirements of JIPMER. The Nursing College has a batch size of 75 students and award B.Sc. Nursing degrees to the students. The college included provision of 4 classrooms for accommodating 200 students and other 4 rooms for 30 students each, 5 departments, library, seminar room, labs, administrative block and residential facilities through the construction of a nursing hostel with a capacity of housing 300 students. The total area is approximately 8000 sqm.

UPGRADATION OF THE EXISTING ONCOLOGY CENTRE

Setting up a separate cancer ward of 100 beds with provision for horizontal and vertical expansion. There are 20 isolation rooms, administrative office and a cubical for social workers. The area is 3600 sqm.

All the above facilities have been established and fully functional.

The Additional works undertaken was the following:

1. Four Lane Road from Gate No.4 to the Emergency Services Block. The work commenced during March 2008 and completed by October 2008.

2. Connecting Corridor between Super Specialty Block and Trauma Care Centre was also completed during the same period.

3. Power Supply to the new projects by laying 22 KVA UG cable

4. Establishing a Tertiary Burns Unit in the 5th Floor of Trauma Care Centre. Both the works started in March 2008 and completed in December 2009.

JIPMER 2009-2010 / 21
AUDITORIUM

Built at a total cost of Rs.9.74 cores, the JIPMER Auditorium is easily one of the largest and the most beautiful Convention Centers and Cultural Complexes in the Union Territory of Puducherry. It has a Central Hall of 750 Seating Capacity with Ground Floor and exquisite balcony in the style of the Classic Bolshoi Theatre. A very large wooden stage ensures perfect site for performing arts and two Green rooms on either sides. The entire hall is carpeted to provide a soft walking arena. There are motorized screens with the State-of-the-art stage lighting system. The audio-video equipment is provided by M/s Silicon Radio House of the Cine World. The Auditorium is installed with a state-of-the-art Acoustic Control System by M/s Lloyds Corporation. There are 3 smaller halls with complete audio-video equipments for parallel sessions of 75-100 capacity. One of them is designed as a conference room with central round conference table. A cafeteria room is provided and enough space exists for serving buffet type food. The Auditorium is equipped with state of art Security and Fire Fighting systems. The whole complex is centrally air-conditioned with a diesel generator back-up. The extensive landscaping, car parking facilities with Central Fountain and Cascade Water Fall adds to the overall ambience.

GUEST HOUSE 2

A new Guest House has been constructed in the space opposite to the existing guest house in JIPMER Campus. This new guest house consists of four single suites in ground floor, 5 suites in 1st floor and 6 single suites in second floor. The total covered area in all the floors is 970 sqmt. Sanction for Rs.2.6283 Crore has been received from the Ministry vide letter No.F.No.G.21017/4/2007-ME-III from the Ministry of Health & Family Welfare for the work. The work has been taken up on lump sum turn key basis by M/s L& T and completed on 31.10.2009.

PHASE II

After completion of Tenth Plan, a proposal for eleventh plan for the project under completion was submitted:

1. Based on the recommendations of the Oversight Committee for increasing the infrastructure in view of the proposed increase in number of seats in medical (U.G. and P.G.), Nursing and Para-medical courses.

2. The vision of Institute to develop it into an Institute of Excellence for teaching, training, patient care and to develop research in medical and para-medical sciences.

3. The vision for Eleventh Plan was targeted to attain the growth in academic, hospital and research activities of the Institute in a community oriented and need based keeping in mind the growth of health care delivery system of the Ministry of Health & Family Welfare, Government of India.

Keeping the above and the recommendations of the Oversight Committee, infrastructure and other objectives in mind, a proposal was presented to the Planning Commission during July 2007 and the detailed project report was presented before the EFC in November 2008 and the project was cleared by CCEA during February 2009.
The project proposed consists of setting up of:

Teaching Block, 400 bedded Women and Children Hospital, Hostel Complex, Doctors' Quarters

For the Phase II Upgradation, once again Hindustan Life care Ltd. was appointed as in-house consultant and the project was initiated on turn key basis as it was done for Phase I upgradation. The Project Management Committee which was established undertook the exercises for short listing and selecting the EPC developer following the established procedures and approval from the competent authorities. As per the RFP document, it is to be completed in 24 months. Earth work excavation for footings and PCC laying is in progress and clearance by the Ministry of Environment and Forests is awaited.

TEACHING BLOCK

The scope of work consists of construction of separate teaching block to bring under one roof all U.G and P.G. teaching of pre-clinical courses viz. Anatomy, Physiology and Biochemistry as well as Medical Education Department and to accommodate 150 students admitted in these courses. It also houses Academic Section, Examination Section, Dean’s Office, and Examination Halls. High tech state of art equipments for teaching and learning will be made available and a tele-medicine department will be set up in the Medical Education Department.

It is of nearly 17,000 sqm. in area (G+4) with facilities in the ground floor for office, cafeteria and Anatomy Department and its allied facilities like histology lab and museum. The first floor of the teaching block accommodates lecture hall with 180 capacity and Physiology Department and its allied facilities including Haematology and Amphibin Lab. Also with a lecture hall, the state of art e-learning centre and Biochemistry Department are located in the second floor. The examination wing, Controller of Examinations’ office and related facilities are placed in the third floor which has also a lecture hall to accommodate 180 candidates. The fourth floor of the teaching block has a common hall to accommodate 320 persons and also three examination halls, Medical Education unit and Registrar’s office.

WOMEN AND CHILDREN HOSPITAL

The WCH will have a constructed area of 28300 sqm. (G+4) to accommodate 426 beds. The facility has been divided into one OPD and IPD block. The OPD block ground floor has Paediatric OPD and Gyn. OPD. The first floor houses developed Paediatric OPD and Well-baby Clinic and Special Clinical OPD with laboratory facilities. The offices of Obst. & Gyn. Department and Paediatric Department, library, museum are located in the second floor with a central hall. Waiting space for patients’ relative is located in the third floor. The basement of OPD and IPD block will be used for car parking.

In the Ground floor of IPD of WCH, Paediatric, Obst & Gyn. casualty and two emergency OTs are located. The first floor of IPD has Paediatric wards and ICU, Malignancy Isolation and nursery for new born and out-born babies are placed. Obst. & Gyn. wards and ICU and private rooms are in the second floor of IPD. Ante-natal ward is in third floor. Other sterile area like OT complex, ICU complex are located in the fourth floor along with Anesthesiology Department and Assisted Reproductive Diagnostic Unit.
To cater to the patient care services, the WCH Block will be equipped with state of art Laboratory Equipments like DNA Lab, Total Imaging System, Excimer Laser, Flow Cytometer, High end Color Doppler, C-Arm, Image Intensifier, PACS complete, 64 Slice CT, etc.

HOSTEL COMPLEX

The hostel complex consists of seven storey building with common facilities to accommodate nearly 1100 students.

The U.G. Men’s hostel, a six storey structure of 6880 sqm. is having 120 single rooms and 101 double rooms with common toilets. The UG Women’s hostel of 6880 sqm will be the same pattern as Men’s Hostel.

The Men Resident Doctors’ Hostel-1 is a six storey building of 4085 sqm. with 138 rooms and the Men Resident Doctors’ Hostel-2 (2760 sqm.) is also a six storey structure with 58 rooms. The Women Residents’ Hostel is a five storey building of 2600 sqm. to accommodate 100 rooms. The Senior Resident Doctors’ Quarters of 812 sqm. is a 4 storey structure to accommodate 16 Senior Residents; Each unit will have a living room, kitchen, bed room and toilet. The Ladies (Nurses) hostel of 2860 sqm is a four storey building with 123 single rooms to accommodate 123 ladies.

The Common Facility, a two storey building which will have separate Gymnasium for men and women and other sports activities and a Veg. & Non-Veg canteen in the ground floor and a Dining Hall in the first floor.

AUGMENTATION

In the second phase, there will be augmentation of the existing departments by utilizing the space vacated by the pre-clinical, super-specialty departments, Radio-therapy, Obst. & Gyn. and Paediatric departments; and procuring medical equipments for the existing departments.

Conversion of the present ward 41 into Medical ICU is under progress. Likewise, alteration works in Microbiology Lab and Pharmacology Lab; providing stair-case and lift for the O.Ts. is also under progress.

The Regional Cancer Centre in JIPMER (915 sqm) will be equipped under Phase II development. In the ground floor, the state of art equipments like Linear Accelerator, MRI, SRS & SRT, High Dose rate drug therapy will be established with CT scan, 500 mA x-ray machine, mobile x-ray machine, etc. and OT & ICU equipments.
5. Academic Wing

5.1 Academic Section

<table>
<thead>
<tr>
<th>Dean</th>
<th>K.S. Reddy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor</td>
<td>S. Mahadevan</td>
</tr>
<tr>
<td>Registrar</td>
<td>James Terance Sekar</td>
</tr>
</tbody>
</table>

FUNCTION OVERVIEW

Jawaharlal Institute of Postgraduate Medical Education and Research (JIPMER), with a deep commitment to excel in areas of medical education, patient care and research, has its academic atmosphere nurtured, disciplined and promoted by the Dean and his team under the expert guidance of the Standing Academic Committee.

Academic Section executes admission and certification formalities, it integrates curricular planning, teaching – learning activities and relevant research for timely transfer to patient’s needs. The Section supervises and ensures strict adherence to curriculum in all the courses. The notification, conduct of Entrance Examinations at All India level and allotment of seats in various courses as per statutory norms are a ‘round – the year’ responsibility of the Academic Section.

UNDERGRADUATE EDUCATION

M.B.B.S. (Bachelor of Medicine, Bachelor of Surgery)

Admission to first year MBBS course in JIPMER is through Entrance Examination. The candidates applying for the Entrance Examination have the option to submit their application in preprinted form or on-line. The preprinted form consists of scannable form and non-scannable form. The candidate applying in preprinted form has to affix the left thumb and index finger print in the non-scannable form. The candidate applying online, after applying, has to download the copy of the application, affix the left thumb and index finger print and send the same to the institute along with the required fees. The Entrance Examination consists of multiple choice type questions totaling 200 in the subjects of English, Physics, Chemistry, Botany and Zoology. The questions are based on the syllabus for XI & XII Standard as prescribed by State Board Hr. Sec. and CBSE. The answers have to be filled in Optical Mark Reader scannable sheets provided along with the question booklet. The Optical Mark Reader scannable answer sheets are scanned for results. All general candidates have to secure a minimum of 50% marks and SC / ST candidates have to secure a minimum of 40% marks in aggregate in the subject of Physics, Chemistry and Biology taken together in the Entrance Examination to be eligible for counseling. The institute provides ballpoint pen to the candidate for marking answers in the scannable Optical Mark Reader answer sheet. During counseling,
The candidates have to submit original certificates. The left thumb and index finger impressions are again collected for purpose of verification before granting of provisional admission. The provisional admission is confirmed only after verifying the signature of the candidate and biometric authentication.

The Entrance Examination for admission to the first year MBBS course 2009-10 session was conducted on 07.06.2009 in six centers, Puducherry, Chennai, Hyderabad, Thiruvananthapuram, Kolkata and New Delhi. A total 22674 applications were received and 17389 candidates appeared in the Entrance Examination. Out of the 11966 candidates who qualified in the Entrance Examination, 82 candidates were admitted based on their category merit rank. 18 candidates were nominated by the Government of India for the Academic Session 2009-10. The number of candidates admitted under the various categories is as under:

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Category</th>
<th>Period 2009-10*</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Unreserved (UR)</td>
<td>22</td>
</tr>
<tr>
<td>2</td>
<td>Other Backward Classes (OBC) Non-Creamy Layer</td>
<td>15</td>
</tr>
<tr>
<td>3</td>
<td>Scheduled Caste (SC)</td>
<td>11</td>
</tr>
<tr>
<td>4</td>
<td>Scheduled Tribe (ST)</td>
<td>08</td>
</tr>
<tr>
<td>5</td>
<td>Puducherry Unreserved (P-UR)</td>
<td>17</td>
</tr>
<tr>
<td>6</td>
<td>Puducherry Other Backward Classes (P-OBC) Non-Creamy Layer</td>
<td>05</td>
</tr>
<tr>
<td>7</td>
<td>Puducherry Scheduled Caste (P-SC)</td>
<td>04</td>
</tr>
<tr>
<td>8</td>
<td>Government of India nominations</td>
<td>18</td>
</tr>
<tr>
<td>9**</td>
<td>CBSE – All India Quota</td>
<td>Nil</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>100</td>
</tr>
</tbody>
</table>


** Contribution to All India CBSE Examination was stopped after JIPMER had become Autonomous Institute and those seats are included in the unreserved category.

The 18 seats earmarked for Government of Indian Nominations are allotted for the following Beneficiary Agencies:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Arunachal Pradesh</td>
<td>3</td>
</tr>
<tr>
<td>M.E.A. – Srilanka</td>
<td>2</td>
</tr>
<tr>
<td>Malaysia</td>
<td>1</td>
</tr>
<tr>
<td>Mizoram</td>
<td>2</td>
</tr>
<tr>
<td>Meghalaya</td>
<td>3</td>
</tr>
<tr>
<td>Nagaland</td>
<td>3</td>
</tr>
<tr>
<td>MHA</td>
<td>1</td>
</tr>
<tr>
<td>Manipur</td>
<td>2</td>
</tr>
<tr>
<td>Lakshadweep</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>18</td>
</tr>
</tbody>
</table>

Eligible Applicants category wise Qualified (2009)

JIPMER 2009-2010 / 26
<table>
<thead>
<tr>
<th>Category</th>
<th>Male</th>
<th>Female</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>UR</td>
<td>2203</td>
<td>2811</td>
<td>5014</td>
</tr>
<tr>
<td>OBC</td>
<td>2389</td>
<td>2059</td>
<td>4448</td>
</tr>
<tr>
<td>SC</td>
<td>904</td>
<td>679</td>
<td>1583</td>
</tr>
<tr>
<td>ST</td>
<td>280</td>
<td>192</td>
<td>472</td>
</tr>
<tr>
<td>P-UR</td>
<td>15</td>
<td>35</td>
<td>50</td>
</tr>
<tr>
<td>P-OBC</td>
<td>153</td>
<td>195</td>
<td>348</td>
</tr>
<tr>
<td>P-SC</td>
<td>22</td>
<td>29</td>
<td>51</td>
</tr>
<tr>
<td>TOTAL</td>
<td>5966</td>
<td>6000</td>
<td>11966</td>
</tr>
</tbody>
</table>

Three candidates belonging to the differently able category were admitted to the first year MBBS course against the 3% seats reserved. The details of the highest marks obtained in the various categories under which admission was granted is as under:

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Categories</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Unreserved (UR)</td>
<td>172</td>
</tr>
<tr>
<td>2</td>
<td>Other Backward Classes (OBC)</td>
<td>162</td>
</tr>
<tr>
<td>3</td>
<td>Scheduled Caste (SC)</td>
<td>157</td>
</tr>
<tr>
<td>4</td>
<td>Scheduled Tribe (ST)</td>
<td>150</td>
</tr>
<tr>
<td>5</td>
<td>Puducherry Unreserved (P-UR)</td>
<td>157</td>
</tr>
<tr>
<td>6</td>
<td>Puducherry Other Backward Classes (P-OBC)</td>
<td>137</td>
</tr>
<tr>
<td>7</td>
<td>Puducherry Scheduled Caste (P-SC)</td>
<td>135</td>
</tr>
</tbody>
</table>

The duration of the course is 4 years and 6 months followed by one year Compulsory Rotatroy Residency Internship. During the period of internship, the intern is paid Rs.8900/- as stipend. The details of postings of the intern are as under:

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Discipline</th>
<th>Duration of Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Community Medicine (Rural)</td>
<td>1 Month</td>
</tr>
<tr>
<td></td>
<td>Community Medicine (Urban)</td>
<td>1 Month</td>
</tr>
<tr>
<td>2</td>
<td>General Medicine Including Psychiatry</td>
<td>1½ Months</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15 Days</td>
</tr>
<tr>
<td>3</td>
<td>General Surgery Including Anesthesiology</td>
<td>1 ½ Months</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15 Days</td>
</tr>
<tr>
<td>4</td>
<td>Obstetrics &amp; Gynaecology Including Family Welfare Planning</td>
<td>2 Months</td>
</tr>
<tr>
<td>5</td>
<td>Pediatrics &amp; Neonatology</td>
<td>1 Month</td>
</tr>
<tr>
<td>6</td>
<td>Orthopaedics including Physical Medicine and Rehabilitation</td>
<td>1 Month</td>
</tr>
<tr>
<td>7</td>
<td>Emergency Medical Services</td>
<td>15 Days</td>
</tr>
<tr>
<td>8</td>
<td>Ophthalmology</td>
<td>15 Days</td>
</tr>
<tr>
<td>9</td>
<td>E.N.T.</td>
<td>15 Days</td>
</tr>
<tr>
<td>10</td>
<td>Elective Posting (Blood Bank / Dermatology / Forensic Medicine / Psychiatry / Radio-diagnosis / TB &amp; CD)</td>
<td>15 Days</td>
</tr>
</tbody>
</table>
B.Sc.,(NURSING)

Nursing college was started by JIPMER during the year 2006. With an annual intake of 75 students. Admission to Nursing is based on Entrance Examination. The Entrance Examination for admission to the first year nursing course, 2009-10 session, was conducted on 19.07.2010. The Entrance Examination was conducted in Puducherry only. The course is of 4 years duration consisting of 8 semesters. The course comprises the study of Nursing principles, Anatomy, Physiology, Biochemistry, Pathology, Microbiology, Psychology, Sociology, Management, Education, English, Research Biostatistics, Medical and Surgical Nursing, Child Health Nursing, Maternity Nursing, Mental Health Nursing, Community Health Nursing and Midwifery.

B.Sc.(MLT) - BACHELOR OF SCIENCE IN MEDICAL LABORATORY TECHNOLOGY

The B.Sc.(MLT) course was started by JIPMER in the year 1985 with the objectives to integrated basic scientific knowledge with diagnostic services, to facilitate skills needed in all branches of laboratory technology and to assess competency-based learning after specified period. The course is of 3 years duration with an annual intake of 30 students per year and the admission is based on Entrance Examination. On successful completion of the course the candidates are eligible for admission to M.Sc.(Medical Biochemistry), and other Post Graduate Courses in Biotechnology and Research Fellowship Programs. During the Academic year 2009-10, 30 candidates were admitted to the course.

P.H.T.T. (Pre-Hospital Trauma Technician) CERTIFICATE COURSE

Pre-Hospital Trauma Technician (PTT) Certificate course with an annual intake of 20 students and duration of 9 months is offered with the objectives of to build a group of trained personnel to handle effectively trauma victims in the field / accident site, to learn skills for safe transportation in specialized ambulances to nearest hospitals and to impart skill based training and relevant knowledge regarding golden hour of pre-hospitalization. The course of study consists of various resuscitation methods and details of safe transportation of victim taught by the Faculty of Anaesthesiology, Surgery and Nursing Sciences. The admission is through Entrance Examination. During the period of study the candidates are paid stipend of Rs.300/- per month.

MODULAR PROJECTS (VII – Semester MBBS Students)

1. Incidence and Risk Factors for catheter associated Urinary Tract Infection. – Bhardwarj. K. et al
2. Ischaemic Stroke – B. Kiran Kumar et al
4. Rheumatic Heart Disease – Sindhu et al
5. Social aspects of children epilepsy – Nadiya. M et al
7. TIMI Risk Score in Diabetics & Non Diabetics – Jeyabalan. J et al
8. Nail Changes in Psoriasis – Vidhya et al

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10. ECG changes in Acute Coronary syndrome – Nithya. J. et al
13. Neonatal Seizmes – Manobalan. K et al

POST-GRAUDATE COURSES

Admission to the Postgraduate (M.D./M.S.), Super Specialty (D.M. / M.C.h.), Ph.D., P.G. Diploma courses AND M.Sc.(Medical Biochemistry) are based on Entrance Examination. The Entrance Examination for admission to Super Specialty and Ph.D., course is common, consists of 250 single best response type MCQs, and cover all subjects. During the Academic year 2009-10, 39 candidates were admitted to the Postgraduate courses, 10 candidates were admitted to the Super Specialty courses, 9 candidates were admitted to the Ph.D., programs and 4 candidates were admitted to the P.G. Diploma course. 19 seats at the Postgraduate level (MD/MS/P.G. Diploma) are reserved for institute candidates. The details of admission are as under:

P.G. Programs (M.D. / M.S.)

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Courses</th>
<th>Nos. of Seats</th>
<th>Proposed Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Anatomy</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Physiology</td>
<td>4</td>
<td>–</td>
</tr>
<tr>
<td>3</td>
<td>Biochemistry</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>Microbiology</td>
<td>4</td>
<td>–</td>
</tr>
<tr>
<td>5</td>
<td>Pathology</td>
<td>6</td>
<td>–</td>
</tr>
<tr>
<td>6</td>
<td>Pharmacology</td>
<td>5</td>
<td>–</td>
</tr>
<tr>
<td>7</td>
<td>Transfusion Medicine</td>
<td>1</td>
<td>–</td>
</tr>
<tr>
<td>8</td>
<td>Community Medicine</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>9</td>
<td>General Medicine</td>
<td>8</td>
<td>5</td>
</tr>
<tr>
<td>10</td>
<td>General Surgery</td>
<td>8</td>
<td>5</td>
</tr>
<tr>
<td>11</td>
<td>Obstetrics &amp; Gynaecology</td>
<td>8</td>
<td>5</td>
</tr>
<tr>
<td>12</td>
<td>Pediatrics</td>
<td>6</td>
<td>4</td>
</tr>
<tr>
<td>13</td>
<td>Anaesthesiology</td>
<td>6</td>
<td>4</td>
</tr>
<tr>
<td>14</td>
<td>Dermatology, Venereology &amp; Leprosy</td>
<td>5</td>
<td>–</td>
</tr>
<tr>
<td>15</td>
<td>Ophthalmology</td>
<td>5</td>
<td>–</td>
</tr>
<tr>
<td>16</td>
<td>Orthopedic Surgery</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>17</td>
<td>Radio-diagnosis</td>
<td>3</td>
<td>–</td>
</tr>
<tr>
<td>18</td>
<td>Radiotherapy</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>19</td>
<td>Oto-Rhino Laryngology (ENT)</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>20</td>
<td>Psychiatry</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>21</td>
<td>Pulmonary Medicine</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>88</strong></td>
<td><strong>34</strong></td>
</tr>
</tbody>
</table>
Highest mark obtained category wise in Entrance Examination

<table>
<thead>
<tr>
<th>Category</th>
<th>Maximum Marks: 1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>UR</td>
<td>713</td>
</tr>
<tr>
<td>OBC</td>
<td>696</td>
</tr>
<tr>
<td>INSTITUTE</td>
<td>672</td>
</tr>
<tr>
<td>OPH</td>
<td>679</td>
</tr>
<tr>
<td>SC</td>
<td>613</td>
</tr>
<tr>
<td>ST</td>
<td>557</td>
</tr>
</tbody>
</table>

Super Specialty Programs (D.M. / M.Ch.)

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Courses</th>
<th>Nos.of Seats</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>D.M. Cardiology</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>D.M. Neonatology</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>D.M. Neurology</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>D.M. Clinical Immunology</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>D.M. Clinical Pharmacology</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>M.Ch. Urology</td>
<td>2</td>
</tr>
<tr>
<td>7</td>
<td>M.Ch. CTVS</td>
<td>2</td>
</tr>
</tbody>
</table>

Ph.D., Programmes

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Courses</th>
<th>Nos.of Seats</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Ph.D., Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>Ph.D., Physiology</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>Ph.D., Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>Ph.D., Clinical Immunology</td>
<td>2</td>
</tr>
</tbody>
</table>

M.Sc. (MEDICAL BIOCHEMISTRY)

The Masters course in Medical Biochemistry at JIPMER is run over the last 32 years. The course is of 3 years duration. The objectives of the course are to learn judicious use of various biochemical laboratory tests, to facilitate skills needed for performing various biochemical tests, to integrate basic scientific knowledge for biochemical diagnosis and monitoring and to develop skilled human resources in Medical Bio-Chemistry for teaching and research. The annual intake for the year 2009-10 was 9 students and admission was made on the basis of the Entrance Examination.

TRANSFER STATUS COMPLETION FROM PONDICHERRY UNIVERSITY

The students who were on the rolls of JIPMER as on 14.07.2008 have been given an option to choose to continue to be with Pondicherry University or to be the students of JIPMER, for the purpose of examinations, award of degrees etc.
Only six students (2 Ph.D and 4 MBBS) have opted to be with Pondicherry University. It was, accordingly, proposed to continue to conduct examinations for these six students by the Pondicherry University.

The University had no objection to the remaining students being transferred to JIPMER for the purpose of conduct of examinations, award of degrees etc., except the students who would be appearing for the supplementary examinations to be held in October 2008. For these students also, subsequent examinations will be conducted by JIPMER.

JIPMER has specifically assured that for the students who have registered with Pondicherry University prior to 14.07.2008, JIPMER would adopt the same curriculum / regulations, as followed by the Pondicherry University.

For the students who have completed their MBBS course on the basis of the examination conducted up to 13th July 2008 and undergoing Internship currently, the Degrees will be awarded by the Pondicherry University.

APPROVAL FOR NEW COURSES
(STANDING ACADEMIC COMMITTEE / FINANCE COMMITTEE)

Optional Internship programe was approved by Standing Finance Committee and Governing Body on 05.01.2010 for the following courses.

a. B.Sc. (NURSING), B.Sc.(MLT) and Emergency Medical Technician Certificate course.

b. A stipend of Rs.5000/- for B.Sc. (Nursing), Rs.4000/- for B.Sc.(MLT) and Rs.3000/- for EMTC course for period of 12 months has been approved.

The Standing Academic Committee under the Chairmanship of Prof. M.S. Ramachandran, has considered the proposals and recommended the starting of new courses / increasing in seats in the existing disciplines on 11.04.2010.

<table>
<thead>
<tr>
<th>Course</th>
<th>Increase in annual intake</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. MBBS Course</td>
<td>From 100 to 116 seats from 2010-2011.</td>
</tr>
<tr>
<td>2. MD / MS Courses</td>
<td>From 88 to 122 from seats 2010-2011.</td>
</tr>
<tr>
<td>3. M.Ch.(Urology)</td>
<td>From 2 to 3 seats.</td>
</tr>
<tr>
<td>4. M.Ch.(CTVS)</td>
<td>From 2 to 3 seats.</td>
</tr>
<tr>
<td>5. D.M. (Cardiology)</td>
<td>From 2 to 3 seats.</td>
</tr>
<tr>
<td>7. M.Ch. (Neuro Surgery)</td>
<td>1 seat.</td>
</tr>
<tr>
<td>8. Fellowship course in Medical Oncology</td>
<td>2 seats</td>
</tr>
<tr>
<td>9. Fellowship course in Pediatric Critical and Emergency Care</td>
<td>2 seats</td>
</tr>
</tbody>
</table>

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The Committee also approved the curriculum for the following courses:

1. B.Sc. Medical Radiation Technology
2. B.Sc. Perfusion Technology
3. B.Sc. Operation Theatre Technology
4. B.Sc. Dialysis Technology
5. M.Sc. Medical Lab. Technology (Microbiology)

**APPROVAL FOR LECTURES BY DISTINGUISHED FACULTY/INVITED SPEAKERS**

The following Visiting Professors in various disciplines were invited by the Academic Section.

1. **Dr. Suresh Bhambhani**  
   Sr. Deputy Director & Chief  
   Division of Cytopathology Institute of Cytology &  
   Preventive Oncology, New Delhi.

2. **Dr. Amita Aggarwal**  
   Addl. Prof. & Head Dept. of Clinical Immunology  
   SGPGIMS, Lucknow.

3. **Dr. Pranjal Ramanlal Modi,**  
   Addl. Prof. & Head Dept. of Urology  
   Ahamedbad.

4. **Dr. Roopam Borjohain**  
   Prof. of Neurology  
   Hyderabad.

5. **Dr. Rajendra Chaudhary**  
   Prof. & Head, Dept. of Transfusion Medicine  
   SGPGIMS, Lucknow.

6. **Dr. Banani Poddar Nee Bhattachareya**  
   Addl. Prof. of Paediatrics  
   SGPGIMS, Lucknow.

7. **Dr. Kusum Joshi**  
   Senior Prof. of Pathology,  
   PGI, Chandigarh.

8. **Dr. V.V. Vedanarayanan**  
   Prof. of Pediatrics & Neurology  
   University of Mississippi, Jackson, USAi
SHORT TERM AND LONG TERM TRAINING PROGRAMMES

Students from many colleges are imparted training for a period of two to three months in various departments of this Institute on payment of requisite fees.

Besides this students are also allowed for project works for three months in the department of Pharmacology, Biochemistry, Anatomy and Clinical Immunology, Microbiology etc.,

M.R.T. (Medical Record Technician)

15 Sponsored Governments Servants from various Institutions are imparted training in the department of Medical Records of this Institute for a period of 6 months. Examination is conducted at end of the course and certificate is issued.

M.R.O. (Medical Record Officer)

15 Sponsored Governments Servants from various Institutions are imparted training in the department of Medical Records of this Institute for a period of 12 months. Examination is conducted twice at end of every six months of the course and certificate is issued.

EDUCATION ACTIVITIES CLINICAL MEETINGS / CONFERENCE / SYMPOISUM / WORKSHOP

1. Annual conference of National Academy of Burns – Plastic Surgery
2. HIV workshop – Microbiology
3. Indo-French Radial Intervention Course 2009 Workshop – Cardiology
4. ICMR-INSERM workshop on Pharmacogenomics – Pharmacology
5. Workshop on Yoga and Complimentary Therapies for AIDS / HIV – Physiology
6. Pediatric Neurology on Muscle Disorders – Pediatrics

CONVOCATION

The first Convocation of JIPMER, after autonomous status, was held on 22nd March 2010. Shri Ghulam Nabi Azad, Hon’ble Union Minister of Health and Family Welfare, Govt., of India was the Chief Guest. Degrees were awarded to the MBBS, PG (MD / MS) and Super Specialty students who had successfully completed the course. The President, JIPMER and the Chief Guest distributed the degrees awards. The names of the candidates who received their degrees in person and the degrees awarded are detailed below:-

A total of 154 Degrees and 47 Medals were awarded. (In person 83 In Absentia 71 )

Doctor of Philosophy (Ph.D.) – Medical Biochemistry

1. Nivedita Nanda

Doctor of Philosophy (Ph.D.) – Pharmacology

1. Girish C
Doctor of Philosophy (Ph.D.) – Physiology
1. Shyma P
2. Pavithran P

Magister Chirurgiae (M.Ch.) – Urology
1. Prashant Nayak

Doctor of Medicine (M.D.) – Anaesthesiology
1. Vanitha Rajagopalan
2. Senthil Kumar V
3. Ajitha P K

Doctor of Medicine (M.D.) – Biochemistry
1. Selva Kumar C

Doctor of Medicine (M.D.) – Community Medicine
1. Jayalakshmy R
2. Sumanth M.M

Doctor of Medicine (M.D.) – Dermatology, Venereology & Leprology
1. Balaji Adityan M
2. Sakthikandan J
3. Sowmya Kaimal

Doctor of Medicine (M.D.) – General Medicine
1. Deepak Amalnath S
2. Kumar K
3. Maneesh Rai K
4. Praveen Kumar A S
5. Venkateswaran R
6. Sivaprasad P

Doctor of Medicine (M.D.) – Microbiology
1. Noyal Mariya Joseph C

Doctor of Medicine (M.D.) – Paediatrics
1. Anil Kumar H
2. Delhikumar C G
3. Nilesh N Rao
4. Nivedita Mondal

Doctor of Medicine (M.D.) – Physiology
1. Rajajeya Kumar M

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Doctor of Medicine (M.D.) – Psychiatry
1. Arun Kumar K

Doctor of Medicine (M.D.) – Radio-Diagnosis
1. Lokesh Kumar
2. Raguraman P

Doctor of Medicine (M.D.) – Tuberculosis & Respiratory Diseases
1. Praveen Valsalan K

Master of Surgery (M.S.) – General Surgery
1. Gomathi Shankar V
2. Karthigeyan M
3. Pankaja S.S
4. Prakash Kumar M.N
5. Randheer S
6. Sundeept Mittal

Master of Surgery (M.S.) – Obstetrics & Gynaecology
1. Sharmila V
2. Sathiyakala R
3. Vanithamani S
4. Usha D B

Master of Surgery (M.S.) – Orthopaedics
1. Dinesh Kumar Agarwal

Master of Surgery (M.S.) – Otorhinolaryngology
1. Deepak Balasubramanian
2. Sivaraman G

Diploma in Ophthalmology
1. Gaydhanker Raviraj Shravan
2. Bhanushree G

Master of Science (M.Sc.) – Medical Biochemistry
1. Maithili Karpaga Selvi N
2. Saravanan R
3. Vickneshwaran V
4. Vishnu Amaram S S C

Bachelor of Medicine and Bachelor of Surgery (M.B.B.S.)
1. Ahamedali C K
2. Archana R
3. Arul Prakash Pandian J
4. Carthikeyan S M
5. Deevakar Rogith
6. Galidevara Chandana
7. Hari Krishnan K N
8. Harin Asokan
9. Isak Lallawmkima
10. Jagram Meena
11. Kalaiarasi R
12. Kalaivani @ Selvi S
13. Krishna Sarin M S
14. S. Mahavir Agarwal
15. Maya G
16. Praveen Alexander Mathew
17. Priyavadhana B
18. Santhosh P
19. Saptharishi L G
20. Selvakumar B
21. Sivasubramaniyan K
22. Suman Saurabh
23. Yuvaraja M

Bachelor of Science – Medical Laboratory Technology
1. Desdemona Rasitha C
2. Devisri V
3. Jansi K
4. Jayasudha R
5. Kalaivani R
6. Karthika P
7. Lekshmy M S
8. Nirmala Devi V
9. Pujanga Shakthi L
10. Singara Velan K
11. Suganya S

PRIZES

Donors in various subjects, to be awarded to the students pursuing MBBS course, had instituted medals totaling to 30. The details of medals, criteria for selection, name of the Endowment Prize / Donors and subjects are as under:
<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Subject</th>
<th>Criteria For Selection</th>
<th>Name Of Endowment Prize</th>
<th>Name of the Recipient</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Anatomy</td>
<td>Student who secures highest mark in the University Examination in Anatomy Subject in MBBS Course</td>
<td>Dr. S. C. Mitra and Mrs. Geetha Mitra Endowment Prize</td>
<td>Deepa Satheesan</td>
</tr>
<tr>
<td>2.</td>
<td>Physiology</td>
<td>Student who Secures highest mark in the University Examination in Physiology in MBBS Course</td>
<td>Smt. Nishamani Parija Endowment Prize</td>
<td>Awalpreet Singh Chadha</td>
</tr>
<tr>
<td>3.</td>
<td>Biochemistry</td>
<td>Student who secures highest marks in all notified Internal Assessment tests (practical and theory) including send up in the subject of Biochemistry.</td>
<td>Dr. M. K. Ramanathan Memorial Prize</td>
<td>Awalpreet Singh Chadha</td>
</tr>
<tr>
<td>4.</td>
<td>Best Student of First year MBBS</td>
<td>Student who secures the highest IA mark in all pre-clinical subjects viz. Anatomy, Physiology &amp; Biochemistry</td>
<td>Mr. Ajay J Mathews Memorial Prize</td>
<td>Saishree Pradhan</td>
</tr>
<tr>
<td>5</td>
<td>Microbiology</td>
<td>Student who secures the highest mark in all the notified IA tests including send up in the subject of Microbiology. The MBBS student who secures the highest mark in the University Examination in the subject of Microbiology. Interns who secure highest marks based on single common examination on theory.</td>
<td>A) 21st Annual Conference of Association of Pathologists and Microbiologists prize. B) Dr. Vijay Kumar Moorthy Endowment Prize and CyTropical Parasitology Endowment Prize</td>
<td>Sohini chattopadhyay</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Subject</th>
<th>Criteria For Selection</th>
<th>Name Of Endowment Prize</th>
<th>Name of the Recipient</th>
</tr>
</thead>
</table>
| 6.    | Pathology             | Student who secures the highest mark in all the notified IA tests including send up (in case of tie/attendance is taken into consideration) in the subject of Pathology. The MBBS student who secures the highest mark in the University Examination in the subject of Pathology. | A) 21st Annual Conference of Association of Pathologists and Microbiologists prize. and  
B) Dr. Vijay Kumar Moorhy Endowment Prize                                                                                                                                   | Vaitheeswaran. L.G.       |
<p>| 7.    | Pharmacology          | Student who secures the highest mark in all the notified IA tests including send up in the subject of Pharmacology.                                                                                                     | Dr. B.N. Ghosh Memorial Prize                                                                                                                                                                                               | Vaitheeswaran. L.G.       |
| 8.    | Forensic Medicine     | Based on the Highest Marks in University Examination.                                                                                                                                                                    | Instituted by BATCH OF 1981 Alumni                                                                                                                                                                                           | Vijai. W               |
| 9.    | Best student of second MBBS | Student who secures the highest mark in all the notified IA tests in III to V semester (II MBBS) viz. Pathology, Microbiology, Forensic Medicine and Pharmacology including send up examination.                                     | Sri Sudhir Chandra Bhattacharya Memorial Endowment Prize                                                                                                                       | Debasish Sahoo         |
| 10.   | Ophthalmology         | Student who secures the highest mark in all the notified IA tests including send up in the subject of Ophthalmology.                                                                                                     | M/S South Arcot District Cooperative Supply and Marketing Society Ltd, Prize                                                                                                                                                  | Ishita Laroiya         |</p>
<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Subject</th>
<th>Criteria For Selection</th>
<th>Name Of Endowment Prize</th>
<th>Name of the Recipient</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.</td>
<td>P&amp;SM</td>
<td>Student who secures the highest mark in all the notified IA tests including send up from I to VII semesters in the subject of P&amp;SM. Based on the record of Comments Posting, Presentation, Attendance plus Expression of Faculties.</td>
<td>Sri.N.Selvaradjalou Chettiar Memorial Prize and Sri.V.Manicassamy Endowment Prize</td>
<td>Pushkala. SAbi, Albon Paul</td>
</tr>
<tr>
<td>12.</td>
<td>ENT</td>
<td>Based on the Highest Marks in University examination</td>
<td>Dr.Sudha Balan Memorial Endowment Prize</td>
<td>Sherin Jacob</td>
</tr>
<tr>
<td>13.</td>
<td>Best student of Pre-final year MBBS</td>
<td>Student who secures highest mark in the Internal, Assessment in P&amp;SM, E.N.T, and Ophthalmology of pre-final year MBBS course</td>
<td>Dr.S. Lakshmanan Memorial Endowment Prize</td>
<td>Ishita Laroiya</td>
</tr>
<tr>
<td>14.</td>
<td>Medicine</td>
<td>Best student of MBBS in the subject of medicine. 75% weightage for send up examination and 25% weightage for other notified tests only in the Final year MBBSTe prize is awarded to First Rank holder in Medicine in University Exam among Final MBBS students.</td>
<td>A) Dr. V. Murali Memorial Endowment Prize And B) Dr.V. Udayaraj Gold Medal,</td>
<td>Bhavana B Rao, Minu Jose Chiramal</td>
</tr>
<tr>
<td>Sl.No.</td>
<td>Subject</td>
<td>Criteria For Selection</td>
<td>Name Of Endowment Prize</td>
<td>Name of the Recipient</td>
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<tr>
<td>15.</td>
<td>Surgery</td>
<td>Student who secures the highest mark in all the notified IA tests including send up in the subject of Surgery. And Student who Secures highest mark in the University Examination in Surgery in MBBS Course</td>
<td>a) Mrs. S. Santoshwati Memorial Prize and b) Smt. Nishamani Parija Endowment Prize</td>
<td>Bhavana B Rao and Banupriya. B</td>
</tr>
<tr>
<td>16.</td>
<td>Obstetrics and Gynecology</td>
<td>Student who secures the highest mark in all the notified IA tests including send up in the subject of Obstetrics and Gynaecology.</td>
<td>A) Dr. (Mrs). S. N. Mukherjee Gold Medal and B) Dr. Uvathy Memorial Endowment Prize</td>
<td>Minu Jose Chiramel and John Robert. A</td>
</tr>
<tr>
<td>17.</td>
<td>Pediatrics</td>
<td>Student who secures the highest mark in all the notified IA tests including send up in the subject of Pediatrics.</td>
<td>Mrs. Susheela Selvaradjoulou Memorial Prize</td>
<td>Deepasree. J</td>
</tr>
<tr>
<td>18.</td>
<td>Psychiatry</td>
<td>Student who secures based on a single examination of 20 T/P items of 80 marks and 2 SAQs of 20 marks in the subject of Psychiatry.</td>
<td>Indian Psychiatric Society (South Zone) Endowment Prize</td>
<td>Rathnapratheep. R</td>
</tr>
<tr>
<td>19.</td>
<td>Dermatology and STD</td>
<td>Student who secures the highest mark in a single common examination, theory only (SAQs) in the subject of Dermatology and STD.</td>
<td>Indian Association of Dermatology and Venereology Medal</td>
<td>Rathnapratheep. R</td>
</tr>
<tr>
<td>Sl.No.</td>
<td>Subject</td>
<td>Criteria For Selection</td>
<td>Name Of Endowment Prize</td>
<td>Name of the Recipient</td>
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<tr>
<td>20.</td>
<td>Anesthesiology</td>
<td>Single notified prize exam, (theory only)</td>
<td>A) ISA and B) Dr. Chakravarthy Memorial prize</td>
<td>—</td>
</tr>
<tr>
<td>21.</td>
<td>Orthopedics</td>
<td>MBBS Student who secures the highest mark in internal assessment in the subject of Orthopedics.</td>
<td>Dr. Vijay Kumar Moorthy Endowment Prize</td>
<td>Minu Jose Chiramel</td>
</tr>
<tr>
<td>22.</td>
<td>Cardiology</td>
<td>Student who secures the highest mark based on Single common exam (theory only) (SAQs) among Interns in the subject of Cardiology.</td>
<td>MOH Hassan Kuthoose Marikar Endowment Prize</td>
<td>Santhosh. P</td>
</tr>
<tr>
<td>23.</td>
<td>Neurology</td>
<td>Student who secures the highest mark based on Single common exam (theory only) (SAQs) among Interns in the subject of Neurology.</td>
<td>Dr. K.G.S.N and a Endowment prize</td>
<td>S Mahavir Agarwal</td>
</tr>
<tr>
<td>24.</td>
<td>Radiotherapy (Oncology)</td>
<td>Best UG student in Oncology (based on a test involving Medical, Surgical &amp; Radiation oncology)</td>
<td>Mrs. Subhadra Devi and Dr. K.V.K. Rao memorial endowment prize in oncology</td>
<td>John Robert. A</td>
</tr>
<tr>
<td>25.</td>
<td>Best Student of final MBBS</td>
<td>Best Student of final MBBS based on the cumulative total marks of all four subjects of final MBBS in the University Examinations</td>
<td>Brigadier A. Nilakantan Memorial Prize</td>
<td>Minu Jose Chiramel</td>
</tr>
<tr>
<td>Sl.No.</td>
<td>Subject</td>
<td>Criteria For Selection</td>
<td>Name Of Endowment Prize</td>
<td>Name of the Recipient</td>
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<tr>
<td>26</td>
<td>Best Intern of 2008</td>
<td>1) As per the Scores on the Intern diary. 2) Belong to the Regular Batch. 3) Should have joined Internship at least on 1st January and completed on 31st December</td>
<td>Dr. S. C. Mitra and Mrs. Geetha Mitra Endowment Prize</td>
<td>Saptharishi. L.G.</td>
</tr>
<tr>
<td>27</td>
<td>Best all rounder among outgoing MBBS Students</td>
<td>Criteria Circulated Separately.</td>
<td>Dr. K.S. Sridhar Memorial JIPMER Alumni Association Prize and Sri. M.C. Rama Varma Valia Raja Memorial Gold Medal</td>
<td>S Mahavir Agarwal</td>
</tr>
<tr>
<td>28</td>
<td>Best outgoing MBBS graduate of the Year</td>
<td>The Prize is awarded based on the aggregate in total of all the University Exam Marks from first to final year MBBS exams passed without any failure.</td>
<td>Dr. Vikrant Gupta Memorial Medal</td>
<td>Saptharishi. L.G.</td>
</tr>
<tr>
<td>29</td>
<td>Paediatrics</td>
<td>Best performance in University Exams</td>
<td>Su Kannan Endowment Prize</td>
<td>John Robert. A</td>
</tr>
<tr>
<td>30</td>
<td>Surgery</td>
<td>Best Undergraduate in Surgery</td>
<td>JIPMER Alumni Association Dr. Chaudhary Memorial Prize</td>
<td>Banupriya. B</td>
</tr>
<tr>
<td>31</td>
<td>Best outgoing B.Sc (MLT) student</td>
<td>Based on the aggregate of total in all the University Exam marks from first to final semester without any failure</td>
<td>Institute</td>
<td>Karthika. P</td>
</tr>
<tr>
<td>Sl.No.</td>
<td>Subject</td>
<td>Criteria For Selection</td>
<td>Name Of Endowment Prize</td>
<td>Name of the Recipient</td>
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<tr>
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<td>--------------------------------</td>
</tr>
<tr>
<td>1.</td>
<td>Medicine</td>
<td>The prize is awarded to best PG Thesis in MD (General Medicine)</td>
<td>Thaiyal Nayaki Gold Medal</td>
<td>Dr. Maneesh Rai. K</td>
</tr>
<tr>
<td>2.</td>
<td>MD General Medicine</td>
<td>Scoring highest mark in the University Examination in MD General Medicine</td>
<td>Dr. S. C. Mitra and Mrs. Geetha Mitra</td>
<td>Dr. Maneesh Rai. K</td>
</tr>
<tr>
<td>3.</td>
<td>MD Paediatrics</td>
<td>Scoring highest mark in the University Examination in MD Paediatrics</td>
<td>Dr. Balakrishnan Prize</td>
<td>Delhi Kumar. C.G.</td>
</tr>
<tr>
<td>4.</td>
<td>Obstetrics and Gynecology</td>
<td>The student who secures First rank in IA, plus a pass in MD in first attempt in the subject of Obst. &amp; Gynae.</td>
<td>Dr. A. V. Umachigui Memorial Gold Medal</td>
<td>Sharmila. V</td>
</tr>
<tr>
<td>5.</td>
<td>Anesthesiology</td>
<td>The award is based on a Single notified prize exam, clinical and theory in the subject of Anesthesiology.</td>
<td>Dr. Sunitha Shorey Memorial Gold Medal</td>
<td>–</td>
</tr>
<tr>
<td>6.</td>
<td>Dermatology and STD</td>
<td>PG student who secures University First rank in Final MD.</td>
<td>Indian Association of Dermatology and Venereology Medal</td>
<td>Sowmya Kaimal</td>
</tr>
<tr>
<td>7.</td>
<td>Biochemistry</td>
<td>The student who secures highest mark in all the notified IA tests in the subject of Biochemistry.</td>
<td>K. Chudiwala endowment prize</td>
<td>–</td>
</tr>
<tr>
<td>Sl.No.</td>
<td>Subject</td>
<td>Criteria For Selection</td>
<td>Name Of Endowment Prize</td>
<td>Name of the Recipient</td>
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</tr>
<tr>
<td>8.</td>
<td>MS General Surgery</td>
<td>Scoring highest mark in the University Examination in MS General Surgery Scoring highest marks in internal assessment marks.</td>
<td>a) Dr. S. C. Mitra Mrs. Geetha Mitra and b) Prof. B. N. Balakrishna Rao</td>
<td>Gomathi Shankar</td>
</tr>
<tr>
<td>9.</td>
<td>Orthopedics</td>
<td>The Post graduate student who secures the highest marks or the first rank in the subject of Orthopedics in the University Examination among Jipmer Students.</td>
<td>Dr. Vijay Kumar Endowment Prize</td>
<td>–</td>
</tr>
<tr>
<td>10.</td>
<td>Ophthalmology</td>
<td>PG student who secures First Rank in the University examination, Best PG student in Ophthalmology (to be judged by conducting an examination by the department)</td>
<td>a) XVIII Madras Ophthalmologic Conference Medal and b) Mr. K. S. V. Sivaram</td>
<td>–</td>
</tr>
<tr>
<td>11.</td>
<td>CTVS</td>
<td>The award is based in the performance in University examination, not awarded every year unless a standard is reached and recommended by the examiners</td>
<td>Dr. PS Narayanan Memorial Prize</td>
<td>–</td>
</tr>
</tbody>
</table>
THESIS TOPICS
Ph.D.,

1. DSCR genes – Its polymorphism and implication of its clinical profile. – Nandha Kumar. S (Anatomy)
2. DNA damage studies in Prenatal asphyxia – Manoj. A (Anatomy)
3. Pharmacogenomics (Broad field) – Arunkumar. A.S. (Pharmacology)
4. Pharmacogenomics (Broad field) – Umamaheswaran (Pharmacology)
5. Pharmacogenomics (Broad field) – Anichavezhi (Pharmacology)
6. Immunogenetics (Broad field) – Christina Mary (Clinical Immunology)
7. Immunogenetics (Broad field) – Panneer (Clinical Immunology)
8. Molecular basis of Garcinia cambogia extracts on obesity in animal models. – Sri Pradha (Biochemistry)
9. Molecular basis of Insulin Resistance in wistar rats – Sankar. P (Biochemistry)

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M.D. / M.S. / M.Sc.

**DEPARTMENT OF ANATOMY**

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Name of The Student</th>
<th>Title Of Dissertation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr. Deepa. C</td>
<td>Immunoglobulin profile in down's syndrome and its clinical implications.</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. S. Mehar Sulthana</td>
<td>Evaluation of oxidative stress in cases with down's syndrome.</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Sarah. R</td>
<td>Determination of chromosomal aberrations and DNA damage by karyotyping and comet assay in cases with primary amenorrhea.</td>
</tr>
</tbody>
</table>

**DEPARTMENT OF E.N.T.**

<table>
<thead>
<tr>
<th>Sl.No</th>
<th>Name of The Student</th>
<th>Title of Dissertation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr. Krishnapriya. S</td>
<td>The efficacy of diode laser and radiofrequency turbinate reduction in the treatment of inferior turbinate hypertrophy: A Comparative Study</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Santhosh Kumar. N</td>
<td>A Comparative study of Temporalis fascia graft and Vein graft in Myringoplasty.</td>
</tr>
</tbody>
</table>

**DEPARTMENT OF OPHTHALMOLOGY**

<table>
<thead>
<tr>
<th>Sl.No</th>
<th>Name of the Student</th>
<th>Title of Dissertation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr. Indu. G</td>
<td>Anterior segment changes in Eyes with Pseudoexfoliation Syndrome.</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Shabana Bharathi. D</td>
<td>Efficacy and safety of intravitreal Triamcinolone acetonide in resistant diabetic macular edema.</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Shruthi B Harish</td>
<td>Role of topical non – steroidal anti inflammatory drugs (NSAIDs) in the prevention of cystoid macular edema (CME) following uncomplicated cataract surgery.</td>
</tr>
</tbody>
</table>

**DEPARTMENT OF ORTHOPEDICS**

<table>
<thead>
<tr>
<th>Sl.No</th>
<th>Name of the Student</th>
<th>Title of Dissertation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr. Karthikeyan. M</td>
<td>Outcome of vacuum assisted closure in comparison with conventional wound management in open fractures with skin defects.</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Navdeep Baburao Lokare</td>
<td>Evaluation of the Treatment of Congenital Idiopathic clubfoot in older infants by ponseti technique.</td>
</tr>
</tbody>
</table>
### DEPARTMENT OF DERMATOLOGY, VENE. & LEPROSY

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Name of the Student</th>
<th>Title of Dissertation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr. Priya Cinna T Durai</td>
<td>A clinical study of pattern of aging skin changes and Dermatoses in the elderly.</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Gunjan Sharma</td>
<td>–</td>
</tr>
</tbody>
</table>

### DEPARTMENT OF PREVENTIVE AND SOCIAL MEDICINE

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Name of the Student</th>
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<tbody>
<tr>
<td>1.</td>
<td>Dr. Dhruv Kumar Pandey</td>
<td>Services evaluation at 24 hour and day time primary health centres of Pondicherry and Tamilnadu.</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Ghorpade Arun Gangadhar</td>
<td>Incidence of Diabetes Mellitus in rural Pondicherry.</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Punithakumary. P</td>
<td>Magnitude and Determinants of attempted suicide in Pondicherry and Tamil Nadu.</td>
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</tbody>
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### DEPARTMENT OF PHARMACOLOGY

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<th>Name of the Student</th>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr. Arun San Prabhu. S</td>
<td>Evaluation of the in vivo antitumor activity of Cleistanthin B in Swiss albino mice</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Damodaran. S.E</td>
<td>Influence of CYP2D6 genotype on recurrence of breast cancer in patients receiving tamoxifen as an adjuvant therapy.</td>
</tr>
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<td>3.</td>
<td>Dr. Madhan. S</td>
<td>Effect of CYP2C9 and VKORC1 genetic polymorphisms on warfarin dose requirements and adverse events in South Indian population.</td>
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<tr>
<td>5.</td>
<td>Dr. Subraja. K</td>
<td>Effect of CYP2C19 and MDR1 genetic polymorphisms on antiplatelet effects of clopidogrel in clinical settings.</td>
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</table>
### DEPARTMENT OF MICROBIOLOGY

<table>
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<th>Sl.No.</th>
<th>Name of the Student</th>
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<tbody>
<tr>
<td>1.</td>
<td>Dr. Ahamed Kalil. A</td>
<td>–</td>
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<td>2.</td>
<td>Dr. Preethi. V</td>
<td>Evaluation of immunological and molecular methods for the rapid diagnosis of herpes simplex type 1 encephalitis.</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Vasantha Raja. R</td>
<td>Molecular detection and characterization of toxigenic Vibrio cholerae.</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. Vithiya. G</td>
<td>Molecular diagnosis of enteric fever by Polymerase Chain Reaction.</td>
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### DEPARTMENT OF TUBERCULOSIS & C.D.

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### DEPARTMENT OF PATHOLOGY

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<tr>
<td>1.</td>
<td>Dr. Mary Theresa Sylvia S</td>
<td>The Expression of Immunohistochemical markers in Epithelial ovarian tumours and its correlation with clinicopathologic variables.</td>
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<tr>
<td>2.</td>
<td>Dr. Muthu. S</td>
<td>Hodgkin Lymphoma: Immunohistochemical features and Association with Epstein – Barr Virus.</td>
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<tr>
<td>3.</td>
<td>Dr. Prabhu. M</td>
<td>Cyto – Histopathologic correlation of the follicular lesions of Thyroid.</td>
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<td>4.</td>
<td>Dr. Priavadhana. R</td>
<td>Histomorphological and Immunohistochemical profile of High Grade non Hodgkin Lymphomas.</td>
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<tr>
<td>5.</td>
<td>Dr. Priya. D</td>
<td>Evaluation of vascular endothelial growth factor expression and microvascular density in menigioma.</td>
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### DEPARTMENT OF PHYSIOLOGY

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<tr>
<th>Sl. No</th>
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<tbody>
<tr>
<td>1.</td>
<td>Dr. Archana Gaur. T</td>
<td>Gender difference in the role of ventromedial hypothalamus (VMH) in high fat diet (HFD)– induced and sucrose-induced obesity in albino rats of Wistar strain: correlation with lipid profile, thyroid profile and insulin resistance.</td>
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<tr>
<td>2.</td>
<td>Dr. Nishanth. S</td>
<td>Effect of 12 week yoga therapy as a lifestyle intervention in patients of type 2 diabetes mellitus with distal symmetric polyneuropathy – A randomized controlled study.</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Punita. P</td>
<td>Effect of yoga therapy on cardiac autonomic functions in patients of essential hypertension – a randomized controlled study.</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. Saranya. K</td>
<td>Assessment of autonomic functions in patients with polycystic ovary syndrome: correlation with body mass index, insulin resistance, lipid profile and thyroid profile.</td>
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### DEPARTMENT OF PSYCHIATRY

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<tr>
<td>1.</td>
<td>Dr. Aniruddha Mukherjee</td>
<td>Comparative study of Components of Metabolic Syndrome in drug – naïve persons with schizophrenia and their first degree relatives.</td>
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### DEPARTMENT OF PAEDIATRICS

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<tr>
<td>1.</td>
<td>Dr. Prakash. V</td>
<td>Early (6-24 Hrs) Versus Late (&gt;24 Hrs) Enteral feeding (Intragastric) in critically ill children: A Randomized Control Trial.</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Shruthi K Bharadwaj</td>
<td>Therapeutic hypothermia for term Neonates with Perinatal Asphyxia.</td>
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<tr>
<td>4.</td>
<td>Dr. Srinivasa Raghavan. R</td>
<td>Comorbidity and outcome in children diagnosed with ADHD.</td>
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<td>5.</td>
<td>Dr. Sukanya Govindan</td>
<td>Clinical and Investigational studies in Children with Syncopal attacks – A descriptive study.</td>
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<tr>
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<tr>
<td>1.</td>
<td>Dr. Anand Sekar. G</td>
<td>Cardiac involvement in systemic sclerosis.</td>
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<td>3.</td>
<td>Dr. Giridharan. S</td>
<td>Association between non alcoholic fatty liver disease and components of metabolic syndrome with special reference to oxidative stress.</td>
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<td>4.</td>
<td>Dr. Keerthi Talari</td>
<td>Clinical profile and outcome of thrombolytic therapy in ST elevation myocardial Infarction: A prospective observational study.</td>
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<tr>
<td>5.</td>
<td>Dr. Sarfaraz Aslam</td>
<td>Clinical profile of patients with diabetic nephropathy and diabetic retinopathy and its correlation to novel inflammatory bio – markers.</td>
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<td>7.</td>
<td>Dr. Sukesh. E</td>
<td>Cardiovascular risk assessment and angiographic profile in diabetic versus non diabetic patients with ischemic heart disease.</td>
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<tr>
<td>8.</td>
<td>Dr. Vishnu. V.Y</td>
<td>Clinical and Laboratory profile of idiopathic Thrombocytopenic purpura and its management with special reference to outcome after splenectomy.</td>
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### DEPARTMENT OF OBSTETRICS & GYNAECOLOGY

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<tbody>
<tr>
<td>1.</td>
<td>Dr. Abilashini. G.D</td>
<td>A randomized comparative study of intravenous iron sucrose and oral iron for treatment of iron deficiency anaemia in pregnancy.</td>
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<tr>
<td>2.</td>
<td>Dr. Amuthavalli. S</td>
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<td>3.</td>
<td>Dr. Kalaimani. P</td>
<td>Comparison of early and standard oral alimentation after uncomplicated caesarean section – A randomized control trial.</td>
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<td>5.</td>
<td>Dr. Lavanya Eedha</td>
<td>Study of insulin resistance and metabolic abnormalities in adolescents and young women with polycystic ovarian syndrome.</td>
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<tr>
<td>6.</td>
<td>Dr. Mariano Mascarenhas</td>
<td>Serum Homocysteine levels in late first trimester of pregnancy: Correlation with maternal and fetal outcome.</td>
</tr>
<tr>
<td>7.</td>
<td>Dr. Radhika. B.H</td>
<td>Comparison of intravaginal misoprostol and intracervical dinoprostone gel for preinduction cervical ripening: A randomized control trial</td>
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<tr>
<td>8.</td>
<td>Dr. Remya. S</td>
<td>A clinicopathological study of ovarian tumors.</td>
</tr>
<tr>
<td>9.</td>
<td>Dr. Shwetha S Kamath</td>
<td>Comparison of nifedipine and progesterone for maintenance tocolysis after arrested preterm labour: A randomised clinical trial.</td>
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### DEPARTMENT OF BIOCHEMISTRY

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<tr>
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<tbody>
<tr>
<td>1.</td>
<td>Dr. Kavitha. M</td>
<td>A Study of Thyroid profile in Children with Nephrotic Syndrome.</td>
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<tr>
<td>2.</td>
<td>Dr. Prashanth Talikoti</td>
<td>Effect of High Dose water soluble vitamin supplementation on insulin resistance, oxidative stress and Homocystiene in Prehypertension: A Randomized Controlled Study.</td>
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<tr>
<td>3.</td>
<td>Dr. Radhika. M.R</td>
<td>Atherogenic Risk Markers in male type 2 Diabetes Mellitus Patients with Acute Coronary Syndrome.</td>
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<tr>
<td>2.</td>
<td>Thammineni Krishna Latha</td>
<td>Assessment of different biochemical markers in the early prediction of tubal ectopic pregnancy.</td>
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<td>4.</td>
<td>Rajarajeswari. R</td>
<td>Differential Effects of calcium channel blockers and ace inhibitors on platelet aggregation and atherogenic factors in hypertensive patients.</td>
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<tr>
<td>5.</td>
<td>Ravichandra Tagirasa</td>
<td>A comparative study of iron, copper, c - reactive, protein and oxidative stress parameters in obese and non-obese subjects.</td>
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<tr>
<td>6.</td>
<td>Saidaiah Ikkurthi</td>
<td>Evaluation of Homocysteine, Lipoprotein (a) and Sialic Acid levels in subjects with obesity.</td>
</tr>
<tr>
<td>7.</td>
<td>Sravan Kumar Perla</td>
<td>Study of cardiovascular risk markers in patients with polycystic ovarian disease and associated Hypothyroidism.</td>
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<tr>
<td>8.</td>
<td>Srividhya. S</td>
<td>Effect of calorie restriction on subsequent sucrose induced glucose intolerance and oxidative stress in male wistar rats.</td>
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<tr>
<td>9.</td>
<td>Swetha Kumari Ayyapsetty</td>
<td>Effect of sleep deprivation during 2nd and 3rd trimester of pregnancy on inflammatory status and oxidative stress in both maternal and fetal blood and their influence on fetal outcome.</td>
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<tr>
<td>1.</td>
<td>Dr. Naveena Kumar. A.N</td>
<td>Efficacy of paclitaxel, cisplatin, fluorouracil and Leucovorin in downstaging locally advanced gastric cancer.</td>
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<tr>
<td>3.</td>
<td>Dr. Raj Gopal</td>
<td>Comparison of the efficacy of standard triple therapy versus quadruple therapy for eradication of helicobacter pylori and prevention of ulcer recurrence in patients with perforated duodenal ulcer following simple closure – A randomized trial.</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. Sajith P Sasi</td>
<td>Impact of MRSA Decolonization on surgical site infections following elective general surgical operations.</td>
</tr>
<tr>
<td>5.</td>
<td>Dr. Sreelakshmi. M</td>
<td>Study of effectiveness of letrozole as neoadjuvant hormonal therapy in postmenopausal women with estrogen receptor positive breast carcinoma.</td>
</tr>
<tr>
<td>6.</td>
<td>Dr. Varghese Yeldho</td>
<td>The role of fine needle aspiration microbiology in the management of raw areas.</td>
</tr>
<tr>
<td>7.</td>
<td>Dr. Vijayaraghavan. N</td>
<td>Comparison of standard and low pressure pneumoperitoneum in laparoscopic holecystectomy – A prospective double blinded randomized control study.</td>
</tr>
<tr>
<td>8.</td>
<td>Dr. Vishnu. R</td>
<td>Comparison of efficacy of imprint cytology with that of frozen section for intra – operative margin assessment in breast conservation surgery</td>
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### DEPARTMENT OF ANAESTHESIOLOGY

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<tr>
<th>Sl. No</th>
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<tbody>
<tr>
<td>1.</td>
<td>Dr. Niyaz Channanath Ashraf</td>
<td>Pre – Operative oral gabapentin, intravenous fentanyl and their combination in attenuation of the haemodynamic response to laryngoscopy and endotracheal intubation.</td>
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<tr>
<td>2.</td>
<td>Dr. Priya. G</td>
<td>Evaluation of nebulized lignocaine versus intravenous lignocaine for attenuation of pressor response to laryngoscopy and intubation.</td>
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<td>4.</td>
<td>Dr. Sivaraman. B</td>
<td>Comparison of I – Gel with proseal LMA for controlled ventilation in gynecological laparoscopic surgeries.</td>
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<tr>
<td>5.</td>
<td>Dr. Varsha D Allampalli</td>
<td>Evaluation of truview scope and flexi tip blade for tracheal intubation with manual in line stabilization of head and neck.</td>
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### DEPARTMENT OF RADIO – DIAGNOSIS

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<th>Title of Dissertation</th>
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<tbody>
<tr>
<td>1.</td>
<td>Dr. Venu Gopal. K.C.</td>
<td>Diffusion weighted MR imaging of cholesteatoma in patients who have undergone tympanomastoid surgery.</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Vijayakumar. A.R.</td>
<td>Comparison of Transvaginal sonography and contrast enhanced magnetic resonance imaging in the assessment of myometrial invasion by endometrial carcinoma.</td>
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### DEPARTMENT OF RADIOTHERAPY

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<tbody>
<tr>
<td>1.</td>
<td>Dr. Aravind Kumar. P</td>
<td>Study of radiation induced DNA damage in patients with oral cavity cancer on radiotherapy using comet assay on peripheral blood lymphocytes.</td>
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<tr>
<td>2.</td>
<td>Dr. Muzammil Asif</td>
<td>Dosimetric comparison of tandem and ovoid versus tandem and ring applicator for HDR brachytherapy of carcinoma cervix.</td>
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INTRAMURAL RESEARCH GRANTS

Proposals are invited every year for the sanction of Intramural Research Fund. The details of the sanction of Intramural Research Fund for the year 2009-10 are as under:

Sanction for Intramural Research Fund

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Name of the Department</th>
<th>Name of the Investigator</th>
<th>Title</th>
<th>Amount Sanctioned</th>
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<tbody>
<tr>
<td>1</td>
<td>P &amp; S M</td>
<td>Dr. M. Balasoudarssane</td>
<td>Addressing air borne infection control through appropriate disposal of sputum in home conditions.</td>
<td>Rs.1,05,610 for 3 years (31910 +35100 + 38600)</td>
</tr>
<tr>
<td>2</td>
<td>P &amp; S M</td>
<td>Dr. Gautam Roy</td>
<td>Prevalence, Perceptions and impact of common Gynecological Morbidities in postmenopausal women in Rural Pondicherry.</td>
<td>Rs.35,582/-</td>
</tr>
<tr>
<td>3</td>
<td>P &amp; S M</td>
<td>Dr. K.C. Premarajan</td>
<td>Magnitude and determinants of attempted suicides in Pondicherry and Tamilnadu.</td>
<td>Rs.21,450/-</td>
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<tr>
<td>4</td>
<td>Neurology</td>
<td>Dr. Sunil K.Narayan</td>
<td>Association of total plasma homocysteine concentration and MTHFR mutations with cerebrovascular diseases in the South Indian population – A case-control study.</td>
<td>Rs.1 lakh per year for 2 yrs</td>
</tr>
<tr>
<td>5</td>
<td>Neurology</td>
<td>Dr. Srijithesh P R</td>
<td>Magnitude of thrombophilic factors in patients with stroke in our locality - A preliminary study.</td>
<td>Rs.1 lakh per year for 2 yrs</td>
</tr>
<tr>
<td>6</td>
<td>Biochemistry</td>
<td>Dr. Zachariah Bobby</td>
<td>Effect of ovariectomy on fructose mediated oxidative stress and changes in insulin signaling in young and old female albino rats.</td>
<td>Rs.1 lakh per year for 2 yrs</td>
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<td>7</td>
<td>Ophthalmology</td>
<td>Dr. Subhashini K</td>
<td>Ahmed Glaucoma valve in adult refractory glaucoma - a follow up study</td>
<td>Rs.50000/- per year for 2 yrs</td>
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<tr>
<td>8</td>
<td>Microbiology</td>
<td>Dr. S.C. Parija</td>
<td>Utility of urine dipstick test for the screening of urinary tract infection in catheterized women following gynecological surgeries.</td>
<td>Rs.50000/- -for 1 year</td>
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<tr>
<td>1</td>
<td>Physiology</td>
<td>Dr. Pravati Pal</td>
<td>Effection of gender on mesoli mbic regulation of food intake and adiposity in rat model: correlation with sympathetic activity, lipid profile, thyroid profile and insulin resistance.</td>
<td>Rs.50,000/-per year for 2 yrs</td>
</tr>
<tr>
<td>2</td>
<td>Surgery</td>
<td>Dr.D. Kadambari</td>
<td>P-glycoprotein expression as a predictor of response to neoadjuvant chemotherapy in breast cancer - a prospective study.</td>
<td>Rs.50,000/-per year for 2 yrs</td>
</tr>
<tr>
<td>3</td>
<td>Pharmacology</td>
<td>Dr.D.G. Shewade</td>
<td>Effect of cardiovascular drugs on eNOS gene expression and enzyme activity in cultured human umblical endothelial cells.</td>
<td>Rs.50,000 per year for 3 yrs</td>
</tr>
<tr>
<td>4</td>
<td>Pharmacology</td>
<td>Dr.C. Adithan</td>
<td>Effect of $CYP2C9$ and $VKORC1$ genetic polymorphisms on warfarin dose requirements and adverse events in South Indian population.</td>
<td>Rs.50,000 per year for 2 yrs</td>
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<tr>
<td>5</td>
<td>Pharmacology</td>
<td>Dr.S.C. Pradhan</td>
<td>Influence of $CYP2D6$ genotype on recurrence of breast cancer in patients receiving tamoxifen as an adjuvant therapy.</td>
<td>Rs.50,000 per year for 2 yrs</td>
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<tr>
<td>6</td>
<td>Pharmacology</td>
<td>Dr.R. Raveendran</td>
<td>Evaluation of the in vivo antitumor activity of cleistanthin B in Swiss albino mice.</td>
<td>Rs.50,000 for 1 year</td>
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<tr>
<td>7</td>
<td>Pharmacology</td>
<td>Dr.C. Adithan</td>
<td>Effect of endothelial nitric oxide synthase gene (Glu298Asp) polymorphism on endothelium dependent vasodilation in healthy individuals.</td>
<td>Rs.50,000 for 1 year</td>
</tr>
<tr>
<td>8</td>
<td>Anaesthesiology</td>
<td>Dr.V. Ramesh</td>
<td>Interpleural Block versus paravertebral block for postoperative pain relief in patients undergoing breast cancer surgeries.</td>
<td>Rs.50,000 for 1 year</td>
</tr>
<tr>
<td>9</td>
<td>Biochemistry</td>
<td>Dr. Zachariah Bobby</td>
<td>Effect of High dose water soluble vitamin supplementation on insulin resistance, oxidative stress and homocysteine in prehypertension: A Randomized controlled study.</td>
<td>Rs.50,000 for I year &amp; Rs.40,000/- for II year</td>
</tr>
<tr>
<td>10</td>
<td>Biochemistry</td>
<td>Dr. Zachariah Bobby</td>
<td>Effect of Calorie Restriction and High Glycemic load diet on the subsequent sucrose induced Glucose intolerance and oxidative stress in male wistar rats.</td>
<td>It is a proposal for 2 students. Need to be submitted as 2 separate proposal for consideration</td>
</tr>
<tr>
<td>11</td>
<td>Microbiology</td>
<td>Dr.S.C. Parija</td>
<td>Detection of cysticercus antigen in CSF &amp; serum in diagnosis of neurocysticercosis using monoclonal antibodies</td>
<td>Rs.50,000/- per year for 2 years</td>
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<tr>
<td>12</td>
<td>Pharmacology</td>
<td>Dr.D.G. Shewade</td>
<td>Effect of CYP3A5 and P2Y12 genetic polymorphisms on platelet aggregation in patients on treatment with clopidogrel.</td>
<td>Rs.50,000/- per year for 2 years</td>
</tr>
<tr>
<td>13</td>
<td>Pharmacology</td>
<td>Dr.D.G. Shewade</td>
<td>Characterization of cis acting elements in the 5' flanking region of CYP2C19.</td>
<td>Rs.50,000/- for 1 year</td>
</tr>
<tr>
<td>14</td>
<td>Pharmacology</td>
<td>Dr. Raveendran</td>
<td>Effect of cleistanthin A and B on isolated rat heart.</td>
<td>Rs.50,000/- for 1 year</td>
</tr>
<tr>
<td>15</td>
<td>Pharmacology</td>
<td>Dr. Steven A Dkhar</td>
<td>Effect of CYP2C19 and MDR1 genetic polymorphisms on antiplatelet effects of clopidogrel in clinical settings.</td>
<td>Rs.50,000/- per year for 2 years</td>
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</table>

**IMPORTANT DATES**

**ENTRANCE EXAMINATIONS - DATES**

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<th>Course</th>
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<td>B.Sc.(NURSING) &amp; (MLT) &amp; PTT Course/M.Sc /Super S,</td>
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<td>New Super Specialty Courses – DM (Neonatology), DM (Neurology), DM (Cl. Immunology), DM (Cl.Pharmacology), Fellowship in Diabetolgy</td>
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<tr>
<td>Post Graduate</td>
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JIPMER 2009-2010 / 58
## COMMITTEE MEMBERS FOR THE YEAR 2009-10

### STANDING ACADEMIC COMMITTEE

<table>
<thead>
<tr>
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<th>Name</th>
<th>Position</th>
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<tbody>
<tr>
<td>1</td>
<td>Prof (Dr.) M.S. Ramachandran</td>
<td>Chairman</td>
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<tr>
<td></td>
<td>(Former Professor &amp; HOD, Department of Medicine, Madras Medical College), Chennai</td>
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<tr>
<td>2</td>
<td>Shri B.S. Gnanadesikan</td>
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<tr>
<td></td>
<td>Hon’ble M.P. (Rajya Sabha)</td>
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<td>Dr. R.K Srivastava</td>
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<tr>
<td></td>
<td>Director General of Health Services, Govt. of India</td>
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<td>4</td>
<td>Dr. Meer Mustafa Hussain</td>
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<td></td>
<td>Vice-Chancellor, Tamil Nadu Dr. M.G.R Medical University, Chennai</td>
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<td>Prof (Dr.) K.K. Talwar</td>
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<td>Director, PGIMER, Chandigarh</td>
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<td>Prof. (Dr.) D. Nagaraja</td>
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<td></td>
<td>Director/Vice-Chancellor, National Institute of Mental Health &amp; Neuro Sciences, Bangalore</td>
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<tr>
<td>7</td>
<td>Prof. (Dr.) Suneeta Mittal</td>
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<tr>
<td></td>
<td>Prof. &amp; Head, Department of Obstetrics &amp; Gynecology, All India Institute of Medical Sciences, New Delhi</td>
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<td>8</td>
<td>Prof. (Dr.) Surendran</td>
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<td></td>
<td>Professor &amp; Head, Institute of Surgical Gastroenterology, Government Stanley Medical College, Chennai</td>
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<td>9</td>
<td>Dr. V.I. Mathan</td>
<td>Member</td>
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<td></td>
<td>(Former Director, CMC, Vellore)</td>
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</table>
10. Dr. V.M. Katoch  
Secretary – Department of Health Research &  
Director-General, ICMR, New Delhi  
Member

11. Secretary or his nominee  
(not below the rank of Joint Secretary) in the  
Department of Higher Education, Ministry of  
Human Resource Development, GOI  
Member

12. Dr. K.S Reddy  
Dean, JIPMER  
Member

13. Dr. K.S.V.K Subba Rao  
Director, JIPMER  
Member Secretary

INSTITUTE RESEARCH COMMITTEE

<p>| | | |</p>
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</tr>
<tr>
<td>3</td>
<td>Dean</td>
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</tr>
<tr>
<td>4</td>
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<td>Head of the Department, Medicine</td>
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<td>6</td>
<td>Head of the Department, P &amp; SM</td>
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<tr>
<td>7</td>
<td>Head of the Obstetrics &amp; Gynecology</td>
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<td>8</td>
<td>Head of the Pathology</td>
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<td>9</td>
<td>Head of the Pharmacology</td>
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</tr>
<tr>
<td></td>
<td>(Member Secretary Human Ethics Committee)</td>
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<tr>
<td>10</td>
<td>Head of the Microbiology</td>
<td>Member</td>
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<tr>
<td></td>
<td>(Member Secretary Animal Ethics)</td>
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<tr>
<td>11</td>
<td>Head of the Urology</td>
<td>Member Secretary</td>
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## ETHICS COMMITTEE

### HUMAN ETHICS COMMITTEE

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<tr>
<td>1</td>
<td>Shri A. Nadamuni</td>
<td>Chairman</td>
</tr>
<tr>
<td></td>
<td>District Judge (Retd.), Puducherry</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Medical Superintendent, JIPMER</td>
<td>Member</td>
</tr>
<tr>
<td>3</td>
<td>Dean, JIPMER</td>
<td>Member</td>
</tr>
<tr>
<td>4</td>
<td>Dr. C. Jayachandran, Dean, School of Life Sciences, Pondicherry University</td>
<td>Member</td>
</tr>
<tr>
<td>5</td>
<td>Dean, Mother Theresa Institute of Paramedical Sciences, Indira Nagar, Gorimedu, Puducherry</td>
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<tr>
<td>6</td>
<td>Dr. R. Ravi, Deputy Director (SG), VCRC, Puducherry</td>
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<tr>
<td>7</td>
<td>Dr. Santosh Kumar, HOD of Urology</td>
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<tr>
<td>8</td>
<td>Dr. S.C. Parija, HOD of Microbiology</td>
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<tr>
<td>9</td>
<td>Dr. Kalirathinam</td>
<td>Member</td>
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<tr>
<td></td>
<td>Senior Specialist, Dept. of Medicine</td>
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<td></td>
<td>Indira Gandhi Govt., of General Hospital &amp; PG Institute, Puducherry</td>
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<tr>
<td>10</td>
<td>Dr. K. Vijayalakshmi, Lecturer (SG), Dr. Ambedkar Government Law College, Kalapet, Puducherry</td>
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<td>11</td>
<td>Smt. Indira Munusamy, Social Activist, Puducherry.</td>
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<tr>
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<td>Smt. C.K. Ajitha Kumary, Lay Person</td>
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<td>Dr. C. Adithan, HOD of Pharmacology, JIPMER</td>
<td>Member Secretary</td>
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## ANIMAL ETHICS COMMITTEE

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<td>1</td>
<td>Dr. K.S. Reddy, Dean, JIPMER</td>
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<td>Dr. M. Naseema, Chennai</td>
<td>Member (CPCSEA Nominee)</td>
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<td>Dr. S. Jayachandiran, Prof. &amp; Head of Biotechnology, Pondicherry University, Puducherry</td>
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<td>5</td>
<td>Dr. Mathur, Head of the Department of Life Sciences, Pondicherry University, Puducherry</td>
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<td>Dr. H.L. Hoti, Deputy Director, VCRC, Puducherry-6</td>
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<td>7</td>
<td>Dr. D. Kumar, Sr. Prof. of Parasitology, Rajiv Gandhi Vet. College &amp; Animal Sciences, Puducherry</td>
<td>Member</td>
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<td>8</td>
<td>Dr. Lydia Rajakumari, Prof. and Head of the Department of Microbiology, Indira Gandhi College of Arts and Science, Puducherry</td>
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<td>Dr. S.C. Parija, HOD of Microbiology, JIPMER</td>
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During the period under review (2009-10), the Examination Wing conducted the following Professional Examinations.

**UNDERGRADUATE AND POSTGRADUATE PROFESSIONAL EXAMINATIONS**

Details of various Undergraduate and Postgraduate professional examinations conducted by the Examination Wing, JIPMER, Puducherry from 1.4.2009 to 31.3.2010.

**MAY / JUNE 2009**

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**OCTOBER 2009**

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**PUBLIC VIVA-VOCE HELD IN NOVEMBER 2009**

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### NOV / DEC 2009

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### PUBLIC VIVA-VOCE HELD IN FEBRUARY 2010

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<td>P.G. DIPLOMA</td>
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INTRODUCTION

Jawaharlal Institute of Postgraduate Medical Education and Research (JIPMER) has been promoting research activities in medical sciences since its inception. This research may be in the form of faculty research projects, postgraduate dissertation work, PhD thesis work and undergraduate research projects and may involve human or animal subjects. There has been an increase in all types of research activities after JIPMER has become an Institution of National Importance. JIPMER Scientific Advisory Committee was constituted in 2009 after JIPMER became an Institution of National Importance by including external eminent experts. Earlier to the constitution of JIPMER Scientific Advisory Committee, an Institute Research Council was performing similar functions.

FUNCTIONS

JIPMER Scientific Advisory Committee considers all research project proposals undertaken by JIPMER faculty including the faculty of the College of Nursing, residents, Ph D scholars and staff. It examines the research project proposals for their scientific content, financial aspects and administrative issues during its scheduled meetings and approves them if found suitable. All approved research project proposals are sent to Institute Ethics Committee (Human Studies) and Institute Ethics Committee (Animal Studies) for consideration of ethical issues.

COMPOSITION

A. Institute Research Council

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Name of Member</th>
<th>Designation</th>
<th>Position in Scientific Advisory Committee</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dr.K.S.V.K.Subba Rao</td>
<td>The Director JIPMER, Puducherry</td>
<td>Chairman</td>
</tr>
<tr>
<td>2</td>
<td>Dr.A.K.Das</td>
<td>The Medical Superintendent, JIPMER, Puducherry</td>
<td>Member</td>
</tr>
<tr>
<td>3</td>
<td>Dr.K.S.Reddy</td>
<td>The Dean, JIPMER, Puducherry</td>
<td>Member</td>
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<td>4</td>
<td>Dr.Madan Mohan Trakroo</td>
<td>H O D of Physiology, JIPMER, Puducherry</td>
<td>Member</td>
</tr>
<tr>
<td>S.No.</td>
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<td>Position in Scientific Advisory Committee</td>
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<td>Chairman</td>
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<td>Dr.A.K.Das</td>
<td>The Medical Superintendent, JIPMER, Puducherry</td>
<td>Member</td>
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<td>The Dean, JIPMER, Puducherry</td>
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<tr>
<td>4</td>
<td>Dr.V.R.Muraleedharan</td>
<td>Prof &amp; Head, Department of Humanities and Social Sciences, IIT, Chennai</td>
<td>Member</td>
</tr>
<tr>
<td>5</td>
<td>Dr.Jayaprakash Muliyil</td>
<td>Professor &amp; Head, Department of Community Medicine, CMC, Vellore</td>
<td>Member</td>
</tr>
<tr>
<td>6</td>
<td>Dr.S.Jayachandran</td>
<td>Professor, Department of Biotechnology Pondicherry University, Puducherry</td>
<td>Member</td>
</tr>
<tr>
<td>7</td>
<td>Dr.S.L.Hoti,</td>
<td>Scientist ‘F’ &amp; Head, Microbiology &amp; Immunology Dvn, VCRC, Puducherry</td>
<td>Member</td>
</tr>
<tr>
<td>8</td>
<td>Dr.M.Bala Soudarssanane</td>
<td>Head of Department of Community Medicine, Puducherry</td>
<td>Member</td>
</tr>
<tr>
<td>9</td>
<td>Dr. Ajit Sahai</td>
<td>Director-Professor of Biometrics, JIPMER, Puducherry</td>
<td>Member</td>
</tr>
<tr>
<td>10</td>
<td>Dr. C. Adithan</td>
<td>Member Secretary, Human Ethics Committee, JIPMER, Puducherry</td>
<td>Member</td>
</tr>
<tr>
<td>11</td>
<td>Dr. S.C. Parija</td>
<td>Member Secretary, Animal Ethics Committee, JIPMER, Puducherry</td>
<td>Member</td>
</tr>
<tr>
<td>12</td>
<td>Dr. Santosh Kumar</td>
<td>Head of Department of Medical Education, JIPMER, Puducherry</td>
<td>Member Secretary</td>
</tr>
</tbody>
</table>
**ACTIVITIES**

**A. Institute Research Council**

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Date</th>
<th>No. of proposals reviewed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Regular Meeting 14.05.2009</td>
<td>18</td>
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<td>2</td>
<td>Supplementary Meeting 22.05.2009</td>
<td>6</td>
</tr>
<tr>
<td>Total</td>
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</tbody>
</table>

**B. JIPMER Scientific Advisory Committee**

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Date</th>
<th>No. of proposals reviewed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Regular Meeting 11.12.2009</td>
<td>15</td>
</tr>
<tr>
<td>Total</td>
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<td>15</td>
</tr>
</tbody>
</table>

Research project proposals are required to be submitted in a prescribed format.
6.2 Institute Ethics Committee (Human Studies)

District Judge (Retd.) & Chairman
A. Nadamuni

Professor & Member Secretary
C. Adithan

INTRODUCTION

JIPMER, a post graduate medical institute, promotes clinical research in areas of national and local health problems. The JIPMER faculty, research scholars and post graduate students conduct several research works which involves patients and healthy human volunteers. After JIPMER becoming an “Institution of National Importance” there is a great increase in biomedical research and the number of research projects carried out. This involves a number of ethical issues which needs to be addressed. The Institute Ethics Committee (Human Studies) of JIPMER plays the vital role of guiding researchers in the ethical issues associated with their research.

FUNCTIONS

The major responsibility of ethics committee is to protect the rights, safety and well being of the research participants. The Institute Ethics Committee (Human Studies) conducts regular meetings for reviewing the research proposals and gives suggestions to the investigators to make their research ethical before approving them. All the research projects in humans should get the approval of the ethics committee before starting their study.

COMPOSITION

The Institute Ethics Committee for Human Studies is constituted with the following members as per ICMR guidelines 2006.

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Name of Member</th>
<th>Designation</th>
<th>Position in Ethics Committee</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Shri. A. Nadamuni,</td>
<td>District Judge (Retd.), Puducherry</td>
<td>Chairman</td>
</tr>
<tr>
<td>2</td>
<td>Dr. Ashok Kumar Das</td>
<td>Medical Superintendent, JIPMER</td>
<td>Member</td>
</tr>
<tr>
<td>3</td>
<td>Dr. K S Reddy</td>
<td>Dean, JIPMER</td>
<td>Member</td>
</tr>
<tr>
<td>4</td>
<td>Dr. Santosh Kumar</td>
<td>Prof. &amp; HOD of Urology, JIPMER</td>
<td>Member</td>
</tr>
<tr>
<td>5</td>
<td>Dr. S C Parija</td>
<td>Prof. &amp; HOD of Microbiology, JIPMER</td>
<td>Member</td>
</tr>
<tr>
<td>6</td>
<td>Dr. S Jayachandran</td>
<td>Dean, School of Life Sciences, Pondicherry University</td>
<td>Member (External Scientific Expert)</td>
</tr>
<tr>
<td>7</td>
<td>Dr. V Balu</td>
<td>Dean, Mother Theresa Institute of Paramedical Sciences, Puducherry</td>
<td>Member (External Scientific Expert)</td>
</tr>
<tr>
<td>S.No.</td>
<td>Name of Member</td>
<td>Designation</td>
<td>Position in Ethics Committee</td>
</tr>
<tr>
<td>-------</td>
<td>-----------------------------</td>
<td>------------------------------------------------------------------------------</td>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>8</td>
<td>Dr. R Ravi</td>
<td>Ex. Dy.Dir.(SG), VCRC, Puducherry</td>
<td>Member (External Scientific Expert)</td>
</tr>
<tr>
<td>9</td>
<td>Dr. Kalirathinam</td>
<td>Senior Specialist, Dept. of Medicine, Indra Gandhi Government General Hospital &amp; PG Institute, Puducherry</td>
<td>Member (External Scientific Expert)</td>
</tr>
<tr>
<td>10</td>
<td>Dr. Vijayalakshmi</td>
<td>Lecturer, Dr. Ambedkar Govt. Law College, Puducherry</td>
<td>Member (External Legal Expert)</td>
</tr>
<tr>
<td>11</td>
<td>Dr. Smt. Indira Munisamy</td>
<td>—</td>
<td>Member (Social Worker)</td>
</tr>
<tr>
<td>12</td>
<td>Smt. C K Ajitha Kumari</td>
<td>—</td>
<td>Member (Lay Person)</td>
</tr>
<tr>
<td>13</td>
<td>Dr. C Adithan</td>
<td>Professor &amp; Head, Dept. of Pharmacology</td>
<td>Member Secretary</td>
</tr>
</tbody>
</table>

**ACTIVITIES**

The meetings of the Institute Ethics Committee were conducted at the following dates:

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Date</th>
<th>No. of proposals reviewed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Regular Ethics Committee meetings</strong></td>
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</tr>
<tr>
<td>1</td>
<td>April 22, 2009</td>
<td>11</td>
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<tr>
<td>2</td>
<td>November 11, 2009</td>
<td>7</td>
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<tr>
<td></td>
<td><strong>Sub-committee meetings</strong></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>September 18, 2009</td>
<td>10</td>
</tr>
<tr>
<td>4</td>
<td>January 20, 2010</td>
<td>81</td>
</tr>
<tr>
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<td><strong>Total</strong></td>
<td><strong>109</strong></td>
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</tbody>
</table>

The research projects of faculty members and proposals involving more than minimal risk are reviewed in the regular ethics committee meetings.

The thesis or dissertation projects of postgraduates, Ph.D. scholars and MBBS student projects which have less than minimal risk are discussed in sub-committee meetings. The sub-committee is constituted by the chairman which has three members viz., the member secretary, one member from within institution and one member from outside the institution.

The formats for applying research proposals to the ethics committee, volunteer information sheet and consent forms are made available on JIPMER website (www.jipmer.edu). Also the ICMR Ethical guidelines for biomedical research on human participants (2006) is available at the website.

**FUTURE PLANS**

The Standard Operating Procedures (SOP) for the ethics committee is being formulated and is awaiting approval from the members of ethics committee.
6.3 Institute Ethics Committee (Animal Studies)

Dean & Chairman
K. S. Reddy

Professor & Member Secretary
S. C. Parija

The members of the Institutional Animal Ethics Committee are as follows:

Dr K S. Reddy
Dean
JIPMER
Chairman

Dr. Balu
Dean
Mother Theresa Institute
Puducherry
Member

Dr. M. Naseema
No.5,10th East street
Kamaraj Nagar Thiruvanmiyur
Chennai 600 041
Member (CPCSEA Nominee)

Dr. S Jayachandiran
Professor and Head
Department of Biotechnology
Pondicherry University, Pondicherry
Member

Dr. Mathur
Head, Dept. of Life Sciences
Pondicherry University, Pondicherry
Member

Dr. H.L. Hoti
Deputy Director
VCRC, Pondicherry 6
Member

Dr. D. Kumar
Sr. Prof. of Parasitology,
Rajiv Gandhi Vet. College & Animal Sciences Puducherry
Member

Dr. Lydia Rajakumari
Prof. and Head
Dept. of Microbiology,
Indira Gandhi College of Arts and Science, Puducherry
Member

Dr S C Parija
Professor and Head
Dept. of Microbiology
JIPMER, Pondicherry 6
Member-Secretary
The following research projects were sanctioned by the committee in the academic year 2009-10:

1. “Video Demonstration of Blood Sample Collection Techniques in Small Animals” by Mr. S Parasuraman, Research Scholar, Dept. of Pharmacology.

2. “Molecular Effects of Curcumin on Insulin Resistance and its Associated Complications in Type 2 Diabetes and Obesity” by Ms. N. Maithili Karpaga Selvi, PhD Scholar, Dept. of Biochemistry.

3. “Molecular Basis of the Effects of Garcinia Cambogia Extracts on Obesity and Insulin Sensitivity in Diet Induced Obese and Insulin Resistant Animal Models” by Ms. R. Sripradha, PhD Scholar, Dept. of Biochemistry.

4. “Evaluation of the in vivo Antitumor Activity of Cleistanthin B in Swiss Albino Mice” by Dr. R. Raveendran, Additional Professor, Dept. of Pharmacology.

5. “Gender Difference in the Role of Ventromedial Hypothalamus (VMH) in High Fat Diet (HFD) and Sucrose-Induced Obesity in Albino Rats of Wistar Strain: Correlation with Lipid Profile, Thyroid Profile and Insulin Resistance” by Dr. G.K. Pal, Professor, Dept. of Physiology.

6. “Isolation of Cleistanthin A and B from Cleistanthus collinus Roxb., Leaves and Evaluation of Pharmacological and Toxicological Profile of Cleistanthin A and B in Animal Models” by Dr. R. Raveendran, Additional Professor, Department of Pharmacology.

7. “Effect of High Glycemic Load Diet on Subsequent Sucrose Induced Glucose Intolerance and Intolerance and Oxidative Stress in Male Wistar Rats” by Mr. Rajaa Muthu P, M.Sc. (Medical Biochemistry) Student, Dept. of Biochemistry.

8. “Effect of calorie restriction on subsequent sucrose induced glucose intolerance and oxidative stress in male wistar rats” by Ms. S. Srividhya, M.Sc. (Medical Biochemistry) Student, Dept. of Biochemistry.

9. “Molecular basis of insulin resistance and its complications in high fat fed ovariectomised wistar rats: the effects of treatment” by Mr. P. Sankar, PhD Scholar, Dept. of Biochemistry.
## 6.4 Research Monitoring Committee

**Professor & Chairman**  
Subhash Chandra Parija

The members of the research monitoring committee for the year 2009-10 were as follows:

<table>
<thead>
<tr>
<th></th>
<th>Name</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dr. Subhash Chandra Parija</td>
<td>Professor and Head</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Department of Microbiology</td>
</tr>
<tr>
<td>2</td>
<td>Dr. Vishnu Bhat</td>
<td>Professor</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Department of Paediatrics</td>
</tr>
<tr>
<td>3</td>
<td>Dr. S. Mahadevan</td>
<td>Professor</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Department of Paediatrics</td>
</tr>
<tr>
<td>4</td>
<td>Dr. Raveendran</td>
<td>Professor</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Department of Pharmacology</td>
</tr>
<tr>
<td>5</td>
<td>Dr. Karoon Agarwal</td>
<td>Professor and Head</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Department of Plastic Surgery</td>
</tr>
<tr>
<td>6</td>
<td>Dr. Vikram Kate</td>
<td>Professor</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Department of Surgery</td>
</tr>
<tr>
<td>7</td>
<td>Dr. V. S. Negi</td>
<td>Professor</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Department of Medicine</td>
</tr>
<tr>
<td>8</td>
<td>Dr. Zachariah Bobby</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Department of Biochemistry</td>
</tr>
</tbody>
</table>

The Research Monitoring Committee brought out the first edition of bulletin ‘Research in JIPMER’ in the month of February 2009. This edition had covered the projects completed after 2005.

The second edition of the bulletin was brought out in the academic year 2009-2010 and covered the projects carried out since the year 1980. In this handbook, data on the research carried out in the various departments was gathered and presented in an easily accessible format. The various projects were listed out under the headings of MD and PhD dissertations, intramural and extramural projects. Where available, as in the case of completed projects, the synopsis and conclusions drawn from the projects were also provided in the bulletin.
The following projects were cleared for ethical approval in the academic year 2009-10:

<table>
<thead>
<tr>
<th>Names of Investigators, Co-investigators, and students</th>
<th>Titles of the Research Projects</th>
</tr>
</thead>
</table>
| **Investigator:**  
Dr. S. Srinivasan, Prof. & Head, Dept. of Paediatrics  
Co-Investigators: Dr. C. Venkatesh, Senior Resident, Dept. of Paediatrics | Protective effect of intestinal helminthiasis against asthma in children |
| **Investigator:**  
Dr. S. Habeebullah, Prof. & Head & Officer-in-Charge of HRRC(ICMR), Dept. of OB & GY. | Tranexamic acid for the treatment of postpartum haemorrhage. An international randomized, double blind, placebo controlled trial. |
| **Investigator:**  
Dr. S. Habeebullah, Prof. & Head & Officer-in-Charge of HRRC(ICMR), Dept. of OB & GY. | Hospital based surveillance of female genital fistulae-An ICMR Task Force Project |
| **Investigator:**  
Dr. S. Habeebullah, Prof. & Head & Officer-in-Charge of HRRC(ICMR), Dept. of OB & GY. | Pre-programme introduction of cyclofem and noristerat injectable contraceptives through district hospital and NGO clinics- An ICMR Task Force Study |
| **Investigator:**  
Dr. M B Soudarssanane, Prof. & Head, Dept. of PSM  
Co-Investigators:  
1. Dr. Gautam Roy, Prof. Dept. of PSM  
2. Dr. Swaroop Kumar Sahu, Asst.Prof, Dept. of PSM  
3. Dr. Lopamudra, Final Year Resident of PSM  
4. Dr. Subitha L., Final Year Resident of PSM  
5. Dr. Prasanna, Junior Resident, Dept. of PSM  
6. Dr. Betsy Mathai, CMO, UHC  
7. Dr. V. Sougoumarane, CMO, RHC | Addressing air borne infection control through appropriate disposal of sputum in home conditions |
<table>
<thead>
<tr>
<th>Investigator:</th>
<th>Health Seeking Behaviour of Pulmonary Tuberculosis patients in Rural areas, Urban areas and urban slums of Pondicherry</th>
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<tbody>
<tr>
<td>Dr.Swaroop Kumar Sahu, Asst.Prof. Dept. of PSM</td>
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</tr>
<tr>
<td><strong>Co-Investigators:</strong></td>
<td></td>
</tr>
<tr>
<td>1. Dr. M B Soudarssanane, Prof.&amp; Head, Dept. of PSM</td>
<td></td>
</tr>
<tr>
<td>2. Dr.Gautam Roy, Prof. Dept. of PSM</td>
<td></td>
</tr>
<tr>
<td>3. Dr.Sumanth MM, Senior Resident, Dept. of PSM</td>
<td></td>
</tr>
<tr>
<td>4. Dr.Subitha L., Final Year Resident of PSM</td>
<td></td>
</tr>
<tr>
<td>5. Dr.Lopamudra, Final year Resident of PSM</td>
<td></td>
</tr>
<tr>
<td>6. Dr.Prasanna, 2nd year Resident, Dept. of PSM</td>
<td></td>
</tr>
<tr>
<td>7. Dr.Susila,T, 2nd year Resident, Dept. of PSM</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Investigator:</th>
<th>Propranolol in severe infantile hemangiomas-A pilot study</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr.Niranjan Biswal,Prof. Dept. of Paediatrics</td>
<td></td>
</tr>
<tr>
<td><strong>Co-Investigator:</strong></td>
<td></td>
</tr>
<tr>
<td>Dr.Narayanan.P.Asst.Prof. Dept. of Paediatrics</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Investigator:</th>
<th>Chemical analysis of urinary tract stones</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr.Santosh Kumar, Prof. &amp; Head, Dept. of Urology</td>
<td></td>
</tr>
<tr>
<td><strong>Co-Investigators:</strong></td>
<td></td>
</tr>
<tr>
<td>1. Dr.L.N.Dorairajan, Addl.Prof. Dept. of Urology</td>
<td></td>
</tr>
<tr>
<td>2. Dr.R.Manikandan, Asst.Prof. Dept. of Urology</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Investigator:</th>
<th>Randomized controlled trial of yoga in chronic prostatitis/chronic pelvic pain syndrome (CP / CPPS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr.Santosh Kumar, Prof. &amp; Head, Dept. of Urology</td>
<td></td>
</tr>
<tr>
<td><strong>Co-Investigators:</strong></td>
<td></td>
</tr>
<tr>
<td>1. Dr.L.N.Dorairajan, Addl.Prof. Dept. of Urology</td>
<td></td>
</tr>
<tr>
<td>2. Dr.R.Manikandan, Asst.Prof. Dept. of Urology</td>
<td></td>
</tr>
<tr>
<td>Investigator:</td>
<td>Randomized clinical trial comparing intracorpus spongiosum block versus topical anesthesia for performing internal urethrotomy in urethral strictures</td>
</tr>
<tr>
<td>--------------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Dr. L.N. Dorairajan, Addl. Prof. Dept. of Urology</td>
<td></td>
</tr>
<tr>
<td>Co-Investigators:</td>
<td></td>
</tr>
<tr>
<td>1. Dr. Santosh Kumar, Prof. &amp; Head, Dept. of Urology</td>
<td></td>
</tr>
<tr>
<td>2. Dr. R. Manikandan, Asst. Prof. Dept. of Urology</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Investigator:</th>
<th>“A clinical and laboratory study of the association and magnitude of thrombophilic disorders in young patients with stroke in our locality”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Sunil K. Narayan, Prof. &amp; Head, Dept. of Neurology</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Investigator:</th>
<th>“Association of total Plasma homocysteine, folate, vitamin B12 and MTHFR mutations with cerebrovascular diseases in the South Indian population – A hospital-based, case-control study”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Sunil K. Narayan, Prof. &amp; Head, Dept. of Neurology</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Investigator:</th>
<th>Detection of fetal DNA in maternal plasma as a prenatal diagnostic technique</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Sarasu J. Asst. Prof. Dept. of Anatomy</td>
<td></td>
</tr>
<tr>
<td>Co-Investigators:</td>
<td></td>
</tr>
<tr>
<td>1. Dr. Ramachandra Rao, Prof. &amp; HOD, Dept. of Anatomy</td>
<td></td>
</tr>
<tr>
<td>2. Dr. Syed Habeebullah, Prof. &amp; HOD, Dept. of Obst. &amp; Gynae.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Investigator:</th>
<th>Effect of chronic stress on morphology of interstitial cell of cajal, nitrergic and cholinergic neurons in the enteric nervous system of rat colon</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Rashmoni Jana, Asst. Prof. Dept. of Anatomy</td>
<td></td>
</tr>
<tr>
<td>Co-Investigators:</td>
<td></td>
</tr>
<tr>
<td>Dr. Ramachandra Rao, Prof. &amp; HOD, Dept. of Anatomy</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Investigator:</th>
<th>“Molecular effects of curcumin on Insulin Resistance and its associated complications in Type 2 Diabetes and Obesity”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. N. Maithili Karpaga Selvi, Ph.D. Scholar, Dept. of Biochemistry</td>
<td></td>
</tr>
<tr>
<td>Co-Investigators:</td>
<td></td>
</tr>
<tr>
<td>1. Dr. M. G. Sridhar, Prof. Dept. of Biochemistry</td>
<td></td>
</tr>
<tr>
<td>2. Dr. R. P. Swaminathan, Prof. Dept. of Medicine</td>
<td></td>
</tr>
<tr>
<td>Investigator:</td>
<td>“Molecular basis of the effects of Garcinia cambogia extracts on Obesity and Insulin sensitivity in diet induced Obese and Insulin resistant animal models”.</td>
</tr>
<tr>
<td>---------------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Ms.R.Sripradha, Ph.D.Scholar, Dept. of Biochemistry</td>
<td></td>
</tr>
<tr>
<td>Co-Investigators:</td>
<td></td>
</tr>
<tr>
<td>Dr.M.G.Sridhar, Prof. Dept. of Biochemistry</td>
<td></td>
</tr>
<tr>
<td>Investigator:</td>
<td>“Molecular Basis of Insulin Resistance and its Complications in High Fat Fed Ovariectomised Female Wistar rats: The Effects of Treatment”.</td>
</tr>
<tr>
<td>Mr.Sankar.P. Ph.D.Scholar, Dept. of Biochemistry</td>
<td></td>
</tr>
<tr>
<td>Co-Investigators:</td>
<td></td>
</tr>
<tr>
<td>Dr. Zachariah Bobby, Asst. Prof. Dept. of Biochemistry</td>
<td></td>
</tr>
<tr>
<td>Investigator:</td>
<td>Screening for paroxysmal nocturnal hemoglobinuria (PNH) in the local patient population using gel card technology.</td>
</tr>
<tr>
<td>Dr.Debdutta Basu, Addl. Prof. Dept. of Pathology</td>
<td></td>
</tr>
<tr>
<td>Co-Investigators:</td>
<td></td>
</tr>
<tr>
<td>1. Dr.Rakhee Kar, Asst.Prof. Dept. of Pathology</td>
<td></td>
</tr>
<tr>
<td>2. Dr.T.K.Dutta, Prof.&amp; HOD, Dept. of Medicine</td>
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<td>3. Dr.S.K.Verma, Prof.&amp; HOD, Dept. of Pathology</td>
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<td>4. Dr.Rajesh NG, Asst. Prof. Dept. of Pathology</td>
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<td>Investigator:</td>
<td>Histopathologic and immunophenotypic analysis of Basal like breast cancers</td>
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<tr>
<td>Dr.S.K.Verma, Prof.&amp; HOD, Dept. of Pathology</td>
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<td>Dr. Rajesh NG, Asst. Prof. Dept. of Pathology</td>
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<td>Antimicrobial resistance in Shigella sp. – an investigation into the mechanisms prevalent in the local isolates of Pondicherry and surrounding areas of Tamil Nadu</td>
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<td>Dr.B.N.Harish, Prof. Dept. of Microbiology</td>
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<td>Co-Investigators:</td>
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<td>Dr.S.C.Parija, Prof. &amp; HOD, Dept. of Microbiology</td>
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<td>Investigator:</td>
<td>Molecular study of Methicillin resistant Staphylococcus aureus (MRSA)</td>
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<td>Dr. S. Sujatha, Addl. Prof. Dept. of Microbiology</td>
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<th>Investigator:</th>
<th>Influence of CYP2C9, VKORC1 and CYP4F2 genetic polymorphisms on plasma warfarin levels and development of an algorithm for initiating warfarin therapy in south Indian population.</th>
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<td>Dr. D. G. Shewade, Prof. Dept. of Pharmacology</td>
<td><strong>Co-Investigators: Indian Side</strong></td>
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<td></td>
<td>1. Dr. C. Adithan, Prof. &amp; HOD, Dept. of Pharmacology</td>
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<td>2. Dr. J. Balachandar, Prof. &amp; HOD, Dept. of Cardiology</td>
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<td>4. Mr. Krishna Kumar, D. Ph. D. Scholar, Dept. of Pharmacology</td>
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<td><strong>French Side:</strong></td>
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<tr>
<td>Dr. MA Loriot, INSERM UMRS 775, Centre Universitaire des saints peres, 45, rue des Saints-Peres, 75270 Paris, Cedex 06, France</td>
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<td><strong>Co-Investigators: French Side</strong></td>
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<td>1. Pr. Pierre Laurent-Puig, INSERM UMRS 775, Centre Universitaire des saints peres, France</td>
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<td>2. Pr. Ph. Beaune, Pro. Biochemie, INSERM UMRS 775, Centre Universitaire des saints peres, France</td>
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<td>3. Dr. C. Moreau, Ph. D. Student, INSERM UMRS 775, Centre Universitaire des saints peres, France</td>
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<td>4. Dr. V. Siguret, Assoc. Prof. of Hematology INSERM UMRS 775, Centre Universitaire des saints peres, France</td>
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<td>5. Dr. J. L. Golmard, Assoc. Prof. of Statistics, INSERM UMRS 775, Centre Universitaire des saints peres, France</td>
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<td>Investigators:</td>
<td>Pharmacogenomics of pioglitazone therapy in south Indian type 2 diabetes patients</td>
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<td>1. Dr.C.Adithan, Prof. &amp; HOD, Dept. of Pharmacology</td>
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<td>2. Dr.V.Mohan, President, Head of Dept. of Diabetology, Madras Diabetes Research Foundation, Gopalapuram, Chennai</td>
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| Co-Investigators: | | |
|-------------------|-----------------|
| 1. Dr.S.Balakrishnan, Asst. Prof. Dept. of Pharmacology |
| 2. Dr.Radha Venkatesan, Head of Dept. of Molecular Genetics, Madras Diabetes Research Foundation, Gopalapuram, Chennai |
| 3. Dr.C.Suthakaran, Head of Clinical Trials, Madras Diabetes Research Foundation, Gopalapuram, Chennai |
| 4. Dr.T.K.Dutta, Prf.& HOD, Dept. of Medicine |
| 5. Dr.RP.Swaminathan,Prof. Dept. of Medicine |

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<th>Investigator:</th>
<th>Attitude of Health Profession Teachers and Students Towards e-learning</th>
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<td>Mr.Z.Zayapragassarazan, Asst.Prof. of Educational Technology, Dept. of Medical Education</td>
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| Co-Investigators: | |
|-------------------||
| Dr.Santosh Kumar, Prof. & HOD, Dept. of Medical Education & Urology |

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<th>Study to describe the feeding Practices in critically ill patients and development of nutritional algorithm in selected critical care units of JIPMER, Puducherry</th>
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<td>Mrs.Lakshmi.R. Lecturer, College of Nursing</td>
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<p>| Co-Investigators: | |
|-------------------||
| 1. Dr.Rajeshwari Vaidhyanathan, Principal, College of Nursing, Sri Ramachandra Medical College &amp; RI (DU) Porur,Chennai |
| 2. Dr.Ashok Sankar Badhe, Prof. &amp; HOD, Dept. of Anesthesiology |</p>
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<th>Investigator:</th>
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<td>Dr. Sonali Sarkar, Asst. Prof. Dept. of PSM</td>
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<td>Relationship between pre-eclampsia and placental bed vasculature: A study comparing the placental bed microvessel density and trophoblastic invasion of spiral arteries in normal and preeclamptic pregnancies.</td>
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| Dr.Manikandan.K., Asst.Prof. Dept. of Obst.& Gynae | 1. Dr.Bhawana Badhe, Addl.Prof. Dept. of Pathology.  
2. Dr.Soundararaghavan, Prof. Dept. of Obst.& Gynae.  
3. Dr.Surendra Kumar, Prof. & HOD, Dept. of Pathology  
4. Dr.Diwakar Mohan, Dept. of International Health, Johns Hopkins Bloomberg School of Public Health |
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<th>Co-Investigators:</th>
<th>Cytogenetics and Micronuclear assay among infertile women</th>
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| Dr.Kubera.N.S. Asst. Prof. Dept. of Obst.& Gynae | 1. Dr.K.Ramachandra Rao, Prof.& HOD, Dept. of Anatomy  
2. Dr.Soundararaghavan.S, Prof. Dept. of Obst.& Gynae. |
| Investigator: | Calcium homeostasis in pre-eclamptic women receiving magnesium sulphate therapy. |
| Dr.Veena.P. Asst.Prof. Dept. of Obst.& Gynae | 1. Dr.P.H.Ananthanarayanan, Prof.& HOD, Dept. of Biochemistry  
2. Dr.Soundararaghavan.S, Prof. Dept. of Obst.& Gynae. |
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<th>Co-Investigators:</th>
<th>Thyroid dysfunction among antenatal women and its effect on obstetrical outcome</th>
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| Dr.Dilip Kumar Maurya, Asst.Prof. Dept. of Obst.& Gynae | 1. Dr.P.H.Ananthanarayanan, Prof.& HOD, Dept. of Biochemistry  
2. Dr.Soundararaghavan, Prof. Dept. of Obst.& Gynae. |
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<th>Mortality pattern of hospitalized Children in JIPMER, a tertiary care hospital of South India</th>
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<td>Dr.Adhisivam.B. Assistant Prof. Dept. of Paediatrics</td>
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<td>Dr.Vishnu Bhat.B. Prof. Dept. of Paediatrics</td>
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<td>1. Dr.Femitha.P. Senior Resident, Dept. of Paediatrics</td>
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<td>Dr.Narayanan.P. Asst.Prof. Dept. of Paediatrics</td>
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<td>1. Dr.Prabha, Senior Resident, Dept. of Paediatrics</td>
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<td>Dr.Sriram Krishnamurthy, Asst.,Prof. Dept. of Paediatrics</td>
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<td>To estimate DNA damage and repair, using comet assay, to various Radiation dose fractionation schedules in locally advanced Head and Neck cancer: Clinical and Radiobiological correlation.</td>
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<td>1. Dr.K.S.Reddy, Prof.&amp; HOD, Dept. of Radiotherapy,RCC</td>
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<td>2. Dr.Ramachandra Rao, Prof.&amp; HOD, Dept. of Anatomy</td>
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<td>3. Dr.Vivekanandam.S.Prof. Dept. of Radiotherapy,RCC</td>
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<td>4. Dr.Ashutosh Mukerji, Asst. Prof. Dept. of Radiotherapy,RCC</td>
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<td>5. Mr.Nanda Kumar, Junior Resident, Dept. of Anatomy</td>
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<td>6. Mr.N.Vijayaprabhu, Lecturer in Radiology (Medical Physics) Dept. of Radiotherapy,RCC</td>
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<td>4. Dr.Arun Alexander, Asst.Prof. Dept. of ENT</td>
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### Co-Investigators:
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2. Dr.V.Partha Sarathy, Asst.Prof. Dept. of Radiotherapy, RCC
3. Dr.K.S.Reddy, Prof.& HOD, Dept. of Radiotherapy, RCC
4. Dr.Gunaseelan.K, Asst.Prof. Dept. of Radiotherapy, RCC
5. Dr.Vivekanandam.S, Prof. Dept. of Radiotherapy, RCC

### Investigator:
Mr.K.Saravanan, Lecturer in Radiology (Medical Physics), Dept. of Radiotherapy, RCC

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3. Dr.K.S.Reddy, Prof.& HOD, Dept. of Radiotherapy, RCC
4. Dr.Gunaseelan.K, Asst.Prof. Dept. of Radiotherapy, RCC
5. Dr.S.Vivekanandam,.. Prof. Dept. of Radiotherapy, RCC

### Investigator:
Dr.Biswajit Dubashi, Asst.Prof. Dept. of Medical Oncology

### Co-Investigators:
1. Dr.Ankit Jain, Asst.Prof. Dept. of Medical Oncology
2. Dr.Debdutta Basu, Prof. Dept. of Pathology
3. Dr.Sridhar.M.G. Prof. Dept. of Biochemistry

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A study on advantages of using inflatable latex balloon in comparison with rectal retractors used in ring applicators during the Brachytherapy treatments of cancer cervix.

Study of Clinico-Pathological Prognostic factors in Peripheral T cell Lymphomas from South India.
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<td>Dr. R. Aravind, Asst. Prof.</td>
<td>1. Dr. S. Vivekanandam, Prof. Dept. of Radiotherapy</td>
<td>Descriptive hospital based study to estimate the occurrence of Second Primary Tumors (SPT) in patients with oral &amp; oropharyngeal cancer.</td>
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<td>Dept. of Surgical Oncology</td>
<td>2. Dr. S. Balanand, Junior Staff Surgeon (Dental)</td>
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<td>3. Dr. Pradipta Kumar Parida, Asst. Prof., Dept. of ENT</td>
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<td>4. Dr. S. Jagdish, Prof. &amp; HOD, Dept. of Surgery</td>
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<td>Comparison of Analgesic efficacy of transversus abdominis plane block with direct infiltration of local anesthetic into surgical incision in lower abdominal surgeries.</td>
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<td>Dr. Vijayalakshmi S. Senior</td>
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<td>Resident, Dept. of Anaesthesiology</td>
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<td>Modified surgical APGAR score</td>
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<td>3. Dr.Renuka Srinivasan, Prof. Dept. of Ophthalmology</td>
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</tr>
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<td>4. Dr.Vasudev Anand Rao, Prof.&amp; HOD, Dept. of Ophthalmology</td>
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<table>
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<tbody>
<tr>
<td>Dr.Sudeep.K</td>
<td>Senior Resident, Dept. of Anaesthesiology</td>
</tr>
<tr>
<td>Co-Investigators:</td>
<td></td>
</tr>
<tr>
<td>1. Dr.Senthil Kumar V.Senior Resident, Dept. of Anaesthesiology &amp; CC</td>
<td></td>
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<tr>
<td>2. Dr.Vasudevan.A. Asst. Prof. Dept.of Anaesthesiology &amp; CC</td>
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<tr>
<td>3. Dr.Badhe A.S.Prof.&amp; HOD, Dept. of Anaesthesiology &amp; CC</td>
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<table>
<thead>
<tr>
<th>Investigator:</th>
<th>Comparison between sodium and magnesium preparations of valproate in treatment of acute mania : RCT</th>
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</thead>
<tbody>
<tr>
<td>Dr.Shivanand Kattimani, Asst.Prof. Dept. of Psychiatry</td>
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<td>Co-Investigators:</td>
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<tr>
<td>Dr.Ravi Philip Rajkumar, Asst.Prof. Dept. of Psychiatry</td>
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</tr>
<tr>
<td>Investigator:</td>
<td>Psychosocial and familial correlates in children with disruptive behavior disorders presenting to a child guidance clinic</td>
</tr>
<tr>
<td>--------------</td>
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<tr>
<td>Dr. Ravi Philip Rajkumar, Asst. Prof. Dept. of Psychiatry</td>
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</tr>
<tr>
<td>1. Dr. Mahadevan, S. Prof. Dept. of Pediatrics</td>
<td></td>
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<td>2. Dr. Shivanand Kattimani, Asst. Prof. Dept. of Psychiatry</td>
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<table>
<thead>
<tr>
<th>Investigator:</th>
<th>A naturalistic study of treatment-emergent suicidality in depressed out-patients receiving fluoxetine</th>
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<tbody>
<tr>
<td>Dr. Ravi Philip Rajkumar, Asst. Prof. Dept. of Psychiatry</td>
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<tr>
<th>Investigator:</th>
<th>Study of genetic factors associated with susceptibility to infections in Systemic Lupus Erythematosus (SLE)</th>
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<tbody>
<tr>
<td>Dr. V.S. Negi, Addl. Prof. &amp; Head of Clinical Immunology</td>
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<tr>
<td>Co-Investigators:</td>
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</tr>
<tr>
<td>1. Dr. Panneer D, Ph.D. Scholar</td>
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</tr>
<tr>
<td>2. Dr. A.K. Das, Senior Professor of Medicine &amp; Med. Supt.</td>
<td></td>
</tr>
<tr>
<td>3. Dr. T.K. Dutta, Prof. &amp; HOD, Dept. of Medicine</td>
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<td>4. Dr. R.P. Swaminathan, Prof. Dept. of Medicine</td>
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<tr>
<th>Investigator:</th>
<th>Molecular characterization of non classical HLA genes (HLA-G, HLA-E) and their contribution to disease susceptibility and severity in Rheumatoid Arthritis (RA)</th>
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<tbody>
<tr>
<td>Dr. V.S. Negi, Addl. Prof. &amp; Head of Clinical Immunology</td>
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<td>Co-Investigators:</td>
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<tr>
<td>1. Ms. M. Christina Mary, Ph.D. Scholar</td>
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<tr>
<td>2. Dr. A.K. Das, Senior Professor of Medicine &amp; Med. Supt.</td>
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<td>4. Dr. R.P. Swaminathan, Prof. Dept. of Medicine</td>
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<tr>
<td>Investigator</td>
<td>Prevalence and knowledge status of Hepatitis-B virus infection among adolescent students of Pondicherry</td>
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<tr>
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<tr>
<td>Dr. Abdoul Hamide, Prof. Dept. of Medicine</td>
<td>A comparative study of the clinical efficacy of topical ketorolac v/s bromfenac in reducing aqueous prostaglandin E2 levels and macular edema after cataract surgery</td>
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<tr>
<td>Co-Investigators</td>
<td>Quantitative bacteriological profile of hospital attire: Are white lab coats a bacteriological hazard?</td>
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<td>1. Dr. Suryanarayana B. S, Asst. Prof. Dept. of Medicine</td>
<td>Investigator: Dr. Gopalakrishnan MS, Asst. Prof. Dept. of Neurosurgery</td>
</tr>
<tr>
<td>2. Dr. Vir Singh Negi, Addl. Prof. of Medicine &amp; Head of Clinical Immunology</td>
<td>Investigator: Dr. Sreejith Parameswaran, Asst. Prof. Dept. of Nephrology</td>
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<tr>
<td></td>
<td>Co-Investigators: 1. Dr. RP. Swaminathan, Prof. Dept. of Medicine 2. Dr. P.H. Ananthanarayanan, Prof. &amp; HOD, Dept. of Biochemistry 3. Dr. Madhukar Mittal, Asst. Prof. Dept. of Endocrinology</td>
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<td></td>
<td>Longitudinal follow up of bone mineral density in adults with nephrotic syndrome from primary glomerular disease</td>
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<td>Investigator:</td>
<td>Randomized controlled trial of yoga in Lower Urinary Tract Symptoms suggestive of Benign Prostatic Hyperplasia</td>
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<td>------------------------------------------------------------------------------------------------------</td>
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<tr>
<td>Dr. Santosh Kumar, Prof. &amp; HOD, Dept. of Urology</td>
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<td>Co-Investigators:</td>
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<tr>
<td>1. Dr. L. N. Dorairajan, Addl. Prof. Dept. of Urology</td>
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<td>2. Dr. R. Manikandan, Asst. Prof. Dept. of Urology</td>
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<tr>
<td>3. Dr. Muruganandham K. Asst. Prof. Dept. of Urology</td>
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<td>4. Mr. R. Murugesan, Physical Instructor, JIPMER</td>
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<table>
<thead>
<tr>
<th>Investigator:</th>
<th>The efficacy of Nitric Oxide in Stroke (ENOS) trial</th>
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<tbody>
<tr>
<td>Dr. Sunil K. Narayan, Prof. &amp; HOD, Dept. of Neurology</td>
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<tr>
<td>Co-Investigators:</td>
<td></td>
</tr>
<tr>
<td>1. Dr. Balakrishnan, Asst. Prof. Dept. of Clinical Pharmacology</td>
<td></td>
</tr>
<tr>
<td>2. Dr. Sushma Sharma, Senior Resident, Dept. of Neurology</td>
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INTRODUCTION

JIPMER acronym for Jawaharlal Institute of Medical Education and Research from the inception in 1956 has been in the forefront in providing comprehensive health care services to the population of Pondicherry and adjoining north Tamilnadu districts. The growing attendance of the patients in the OPDs clearly indicate how much the general populace utilize the services of the JIPMER hospital.

Statistics at Glance for the year 2009-2010

<table>
<thead>
<tr>
<th>Total numbers of beds</th>
<th>1591</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Out patients Attended</td>
<td>4,760</td>
</tr>
<tr>
<td>Total outpatients Treated</td>
<td>14,04,389</td>
</tr>
<tr>
<td>Total number of Admissions made</td>
<td>64,331</td>
</tr>
<tr>
<td>Total Number of deliveries conducted</td>
<td>16,363</td>
</tr>
<tr>
<td>Total number of patients attended casualty</td>
<td>1,17,517</td>
</tr>
<tr>
<td>Total number of operations performed</td>
<td>35,195</td>
</tr>
<tr>
<td>Total number of investigations carried out</td>
<td>19,48,543</td>
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</table>

H1N1 Pandemic

During this year due to emergence of pandemic H1N1 infection JIPMER has been recognised as the Surveillance centre for Pandemic H1N1 infection and one of the referral centres for the diagnosis by RT-PCR. About 600 samples were tested and out of which about 120 were positive for H1N1 Infection. To tackle the ARDS patients with H1N1 infection designated ICU with 3 ventilators and other monitors were made available during this period which has benefited many needy patients.

NEW FACILITIES ADDED

During this period super-speciality block with the bed strength of 360 beds, 80 bedded regional cancer centre has started functioning partially. Process has been started to recruit more nursing staff to man these wards so that shortly all the beds and operation theaters will become fully operational and the waiting list for elective operations in the departments of CTVS, Plastic surgery Orthopedics etc will be reduced considerably. Trauma care ward and burns unit are yet another feathers in the cap of JIPMER patient care.
Following are some of the other new services started during last year:

- An Acute Stroke and Neuro Intensive Care Unit, Stereotactic biopsy for deep seated brain lesions.
- ‘Regional Influenza Laboratory’ for the surveillance of human, avian, swine Influenza
- Clinical Immunology has been made an independent division and diagnostic and therapeutic services with DM training.
- Yoga therapy OPD

Crisis Intervention Clinic has been started in the Psychiatry department.

PATIENTS BENEFIT SCHEMES

Under the Rashtriya Arogya Nidhi (RAN) twenty two patients were benefited and Rs. 10,59,277/- was utilized during the year. Two well furnished Night shelters are made available to the needy patients and their attendants where about 700 patients can stay overnight paying nominal Rs.2 per person. It is a big boon for poor patients. Medico social service department with team of medico social workers and officer is available for any sort of assistance patient need during their treatment at JIPMER. To have a glimpse of all activities of the JIPMER hospital overall statistics of the year 2009-10 has been presented in the following pages.

### Annual Performance for the Year 2009-2010

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Indicators</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Admissions</td>
<td>64,331</td>
</tr>
<tr>
<td></td>
<td>Male : 28,742</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Female : 38,599</td>
<td></td>
</tr>
<tr>
<td>02</td>
<td>Discharges</td>
<td>62,340</td>
</tr>
<tr>
<td></td>
<td>Male : 24,937</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Female : 37,403</td>
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</tr>
<tr>
<td></td>
<td>Daily Average No. of occupied In Patients: 1,294</td>
<td>117.2%</td>
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<td>Bed Occupancy Rate</td>
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#### Out Patients Statistics

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<th>Sl.No.</th>
<th>Indicators</th>
<th>Total</th>
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<tr>
<td>01</td>
<td>General Services</td>
<td>3,97,842</td>
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<tr>
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<td>New Cases</td>
<td>7,37,915</td>
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<tr>
<td>02</td>
<td>Special Clinics</td>
<td>53,349</td>
</tr>
<tr>
<td></td>
<td>New Cases</td>
<td>2,15,283</td>
</tr>
<tr>
<td>03</td>
<td>Total No. of New Cases</td>
<td>4,51,191</td>
</tr>
<tr>
<td></td>
<td>Total No. of Old Cases</td>
<td>9,53,198</td>
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<tr>
<td>04</td>
<td>Total No. of Out Patients</td>
<td>14,04,389</td>
</tr>
<tr>
<td></td>
<td>New &amp; Old Cases</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Daily Average No. of Out Patients treated: 4,760</td>
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</table>
## Daily Out Patients Attendance as per Service-wise for the year 2009-2010

<table>
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<tr>
<th>Sl. No</th>
<th>Services</th>
<th>New Cases</th>
<th>Old Cases</th>
<th>Total</th>
<th>Average</th>
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<tr>
<td></td>
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<td>131170</td>
<td>198906</td>
<td>674</td>
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<tr>
<td></td>
<td>b. Speciality Clinics</td>
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</tr>
<tr>
<td></td>
<td>1. Chest Clinic</td>
<td>992</td>
<td>4445</td>
<td>5437</td>
<td>116</td>
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<tr>
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<td>2. Geriatrics Clinic</td>
<td>34</td>
<td>91</td>
<td>125</td>
<td>03</td>
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<td>3. Haematology Clinic</td>
<td>355</td>
<td>1826</td>
<td>2181</td>
<td>42</td>
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<td>4. HIV/IEC Clinic</td>
<td>115</td>
<td>1468</td>
<td>1583</td>
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<td>5. Immunology Clinic *</td>
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<td>183</td>
<td>307</td>
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<td>1581</td>
<td>1938</td>
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<td>7. Rhematology Clinic</td>
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<td>3565</td>
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<td>General Surgery</td>
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<td>Obstetrics &amp; Gynaecology</td>
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<td>- Obstetrics</td>
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<td>51881</td>
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<td>- Gynaecology</td>
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<td>402</td>
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<td>Pre-Anaesthetic Clinic</td>
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<td>Pulmonary Medicine</td>
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<td>a. General OPD</td>
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<td>617</td>
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<td>441</td>
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<td>452</td>
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<td>4. Post Opertive Clinic</td>
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<td>128</td>
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<td>1553</td>
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<td>176</td>
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<td>4. Occupational therapy</td>
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<td>8972</td>
<td>11351</td>
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<td>19713</td>
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<td>6. Orthotics</td>
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<td>657</td>
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<td>7. Prostherics</td>
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</tr>
<tr>
<td></td>
<td>a. General OPD</td>
<td>8763</td>
<td>54064</td>
<td>62827</td>
<td>213</td>
</tr>
<tr>
<td></td>
<td>b. Speciality Clinics</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>1. Affective Disorder Clinic</td>
<td>2254</td>
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<td>18062</td>
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<td>2. Schizophrenia Clinic</td>
<td>1361</td>
<td>15610</td>
<td>16971</td>
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<td>3. Neuro psychiatry Clinic</td>
<td>787</td>
<td>10974</td>
<td>11761</td>
<td>250</td>
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<td>4. Crises Intervention Clinic*</td>
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<td>57</td>
<td>97</td>
<td>97</td>
</tr>
<tr>
<td></td>
<td>5. De-addiction Clinic</td>
<td>954</td>
<td>2055</td>
<td>3009</td>
<td>64</td>
</tr>
<tr>
<td>XI</td>
<td>Paediatrics</td>
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<td></td>
<td>a. General OPD</td>
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<td>42133</td>
<td>73443</td>
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<td></td>
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<td>1. Underfive Clinic</td>
<td>7417</td>
<td>5217</td>
<td>12634</td>
<td>243</td>
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<td>2. FUC – (Thursday)</td>
<td>437</td>
<td>3126</td>
<td>3563</td>
<td>70</td>
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<td></td>
<td>3. FUC – (Friday)</td>
<td>1078</td>
<td>7824</td>
<td>8902</td>
<td>182</td>
</tr>
<tr>
<td>XII</td>
<td>Skin &amp; STD</td>
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<td></td>
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<tr>
<td></td>
<td>a. General OPD</td>
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<td>25246</td>
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<tr>
<td></td>
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<td>1. FUC- Skin</td>
<td>141</td>
<td>381</td>
<td>522</td>
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<td>2839</td>
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<td>XIII</td>
<td>Radiotherapy</td>
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<td>1442</td>
<td>2721</td>
<td>4163</td>
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</table>

* Started from March, 2010.
### Daily Out Patients Attendance as per Service-wise for the year 2009-2010

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Services</th>
<th>New Cases</th>
<th>Old Cases</th>
<th>Total</th>
<th>Average</th>
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<tbody>
<tr>
<td>A</td>
<td>Super Speciality Clinics</td>
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<td></td>
</tr>
<tr>
<td>I</td>
<td>Cardiology *</td>
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<tr>
<td>A.</td>
<td>General Opd</td>
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<td>43439</td>
<td>47485</td>
<td>435</td>
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<td>B.</td>
<td>Special Clinics</td>
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</tr>
<tr>
<td>1. Pacemaker Clinic</td>
<td>00</td>
<td>1276</td>
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<td>2. Post Intervention &amp; Valve</td>
<td>00</td>
<td>1262</td>
<td>1262</td>
<td>27</td>
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<tr>
<td>II</td>
<td>C.T.V.S.</td>
<td>1055</td>
<td>11299</td>
<td>12354</td>
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<tr>
<td>III</td>
<td>Diabetes</td>
<td>3613</td>
<td>18750</td>
<td>22363</td>
<td>456</td>
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<tr>
<td>IV</td>
<td>Endocrinology</td>
<td>572</td>
<td>2903</td>
<td>3475</td>
<td>12</td>
</tr>
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<td>V</td>
<td>Nephrology</td>
<td>357</td>
<td>1581</td>
<td>1938</td>
<td>40</td>
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<tr>
<td>VI</td>
<td>Neurology</td>
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<td></td>
<td></td>
<td></td>
</tr>
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<td>A. Neuro Epilepsy</td>
<td>3719</td>
<td>6592</td>
<td>10311</td>
<td>219</td>
<td></td>
</tr>
<tr>
<td>B. Neuro General</td>
<td>4109</td>
<td>6408</td>
<td>10517</td>
<td>202</td>
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<td>VII</td>
<td>Neuro Surgery</td>
<td>3016</td>
<td>2728</td>
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<td>58</td>
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<td>Plastic Surgery</td>
<td>781</td>
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<td>IX</td>
<td>Medical Gastro Entrology</td>
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<td>X</td>
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<td>Urology</td>
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<td>21844</td>
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<tr>
<td>B</td>
<td>Yoga</td>
<td>1190</td>
<td>2428</td>
<td>3618</td>
<td>12</td>
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<tr>
<td>C</td>
<td>Others</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>Casualty</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>1. Main Casualty</td>
<td>58151</td>
<td>62291</td>
<td>120442</td>
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<td>10532</td>
<td>18654</td>
<td>51</td>
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</tr>
<tr>
<td>3. S.S.HC</td>
<td>7989</td>
<td>40541</td>
<td>48530</td>
<td>165</td>
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</table>

* Weekly 3 days from February 2010.

#### Geographical Distribution for the year 2009-2010

<table>
<thead>
<tr>
<th>No. of Patients treated as per State wise</th>
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</thead>
<tbody>
<tr>
<td>2009-2010</td>
</tr>
<tr>
<td>Out Patients</td>
</tr>
<tr>
<td>In Patients</td>
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#### Laboratory Investigations for the Year 2009-2010

<table>
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<tr>
<th>01</th>
<th>Bio Chemistry</th>
<th>9,84,817</th>
</tr>
</thead>
<tbody>
<tr>
<td>02</td>
<td>Microbiology</td>
<td>1,26,047</td>
</tr>
<tr>
<td>03</td>
<td>Pathology</td>
<td>1,31,170</td>
</tr>
<tr>
<td>04</td>
<td>Other Departments</td>
<td>7,06,509</td>
</tr>
<tr>
<td>05</td>
<td>Total No. Of Investigations</td>
<td>19,48,543</td>
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### Deliveries Conducted for the Year 2009-2010

<table>
<thead>
<tr>
<th>2009 – 2010</th>
<th>LiveBirths</th>
<th>Still Births</th>
<th>Total Number of Deliveries</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M</td>
<td>F</td>
<td>Amb</td>
</tr>
<tr>
<td>April</td>
<td>562</td>
<td>560</td>
<td>00</td>
</tr>
<tr>
<td>May</td>
<td>745</td>
<td>612</td>
<td>00</td>
</tr>
<tr>
<td>June</td>
<td>667</td>
<td>639</td>
<td>02</td>
</tr>
<tr>
<td>July</td>
<td>722</td>
<td>643</td>
<td>00</td>
</tr>
<tr>
<td>August</td>
<td>709</td>
<td>635</td>
<td>00</td>
</tr>
<tr>
<td>September</td>
<td>786</td>
<td>617</td>
<td>00</td>
</tr>
<tr>
<td>October</td>
<td>833</td>
<td>711</td>
<td>01</td>
</tr>
<tr>
<td>November</td>
<td>740</td>
<td>681</td>
<td>01</td>
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<tr>
<td>December</td>
<td>748</td>
<td>642</td>
<td>00</td>
</tr>
<tr>
<td>January</td>
<td>646</td>
<td>573</td>
<td>00</td>
</tr>
<tr>
<td>February</td>
<td>526</td>
<td>411</td>
<td>01</td>
</tr>
<tr>
<td>March</td>
<td>672</td>
<td>601</td>
<td>00</td>
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<tr>
<td><strong>Total</strong></td>
<td>8356</td>
<td>7325</td>
<td>05</td>
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### Total Number of Deaths for the Year 2009 – 2010

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<thead>
<tr>
<th>01</th>
<th>Deaths</th>
<th>–48 Hrs.</th>
<th>+48 Hrs.</th>
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</thead>
<tbody>
<tr>
<td></td>
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<tr>
<td>02</td>
<td>Death Rate</td>
<td>G.D.R.</td>
<td>N.D.R.</td>
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<tr>
<td>03</td>
<td>E.M.S. Attendance (Out Patients)</td>
<td>No. of Patients</td>
<td>Average</td>
</tr>
<tr>
<td>04</td>
<td>Main . Casualty</td>
<td>1,17,517</td>
<td>322</td>
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<tr>
<td>05</td>
<td>O.G. Casualty</td>
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</table>
No. of Operations Performed for the Year 2009- 2010

<table>
<thead>
<tr>
<th>Services</th>
<th>April – 09 to March-10</th>
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<tbody>
<tr>
<td>Obstetrics I</td>
<td>1739</td>
</tr>
<tr>
<td>Obstetrics II</td>
<td>1741</td>
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<tr>
<td>Obstetrics III</td>
<td>2078</td>
</tr>
<tr>
<td>Obstetrics IV</td>
<td>1762</td>
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<tr>
<td>Gynaecology I</td>
<td>513</td>
</tr>
<tr>
<td>Gynaecology II</td>
<td>535</td>
</tr>
<tr>
<td>Gynaecology III</td>
<td>753</td>
</tr>
<tr>
<td>Gynaecology IV</td>
<td>469</td>
</tr>
<tr>
<td>Surgery I</td>
<td>2437</td>
</tr>
<tr>
<td>Surgery II</td>
<td>1906</td>
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<tr>
<td>Surgery III</td>
<td>2081</td>
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<tr>
<td>Surgery IV</td>
<td>1705</td>
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<tr>
<td>Neuro-Surgery</td>
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<tr>
<td>Urology</td>
<td>4021</td>
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<tr>
<td>Paed Surg.</td>
<td>1591</td>
</tr>
<tr>
<td>Orthopedics</td>
<td>2518</td>
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<tr>
<td>ENT</td>
<td>4498</td>
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<tr>
<td>Plastic Surgery</td>
<td>572</td>
</tr>
<tr>
<td>Ophthalmology</td>
<td>1932</td>
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<tr>
<td>Thoracic Surg.</td>
<td>329</td>
</tr>
<tr>
<td>Dental</td>
<td>881</td>
</tr>
<tr>
<td>Radiotherapy</td>
<td>818</td>
</tr>
<tr>
<td>Total</td>
<td>35,195</td>
</tr>
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</table>
BACKGROUND INFORMATION OF THE DEPARTMENT

The department of Anaesthesiology and Critical Care is one of the first departments to be started when the institute was established as “École de médecine” in 1956 by the French. The entire department consisted of two consultants and four operation theaters providing all anaesthesia and emergency service. When the institute was made as JIPMER, the department was commissioned in the II floor of the main hospital and started service to 6 operation theaters with six consultants. With time the anaesthesia services were expanded to Super specialty, Emergency services with three operating tables and Acute and Chronic Pain services. Anaesthesia outside OT and exclusive state of art six bedded Critical Care Unit (CCU) were started with round the clock service. The department is also taking care of Central oxygen supply unit (Two liquid oxygen plants). The department has sanctioned faculty of 22 consultants, 35 senior residents and 18 post graduate students. Post graduate courses in Anaesthesiology were started with 2 MD and 4 DA seats in late 1970 and presently the intake is 6 postgraduate students.

EDUCATIONAL COURSES

A. Undergraduate Courses

The department continues with its undergraduate teaching programme to final semester students, nursing and paramedics. Interns training and teaching, on basics of airway management, anaesthesia and intensive care are also provided.

B. Postgraduate Courses

Regular classes are conducted for postgraduates in the form of seminars, journals clubs, case presentation and tutorials. The classes are taken by the students and moderated by the faculty. Senior resident forum includes presentation and discussion related to recent development and other controversies in anaesthesia, intensive care and pain management.
C. Other Courses

Trauma Technician Training is given for paramedical students. The Department also imparts short term training (one month) to two DNB students from IGGHPGI and one from MGMCR, Pondicherry in cardiovascular and thoracic anaesthesia.

CONTINUING MEDICAL EDUCATION PROGRAMS

Professor A. S. Badhe delivered following Guest Lecture on:

- “Anaesthesia Management of Neonatal Surgical Emergencies”, at BAPU 2009, SVIMS, Tirupathi held from 05th to 06th Sep. 2009
- “Eclampsia and HELLP syndrome” at 2nd National Conference of the Association of Obstetric Anaesthesiologists (AOA 2009), PGIMER, Chandigarh; held from 18th to 20th September 2009.
- Various methods of ventilation with Rigid Bronchoscope at ISACON 2009 Chennai; from 26-29 Dec.2009
- “Patient Ventilator Ashynchrony” at Regional Symposium Update on Mechanical Ventilation 2010. SMVMCH & ISA Pondicherry.

Dr Hemavathy B delivered Guest lecture on

- “Anaesthesia for acute abdomen” at CME at annamalai university, Chitambaram held on Feb 2010.

Dr P Kundra delivered following Guest Lecture on:

- “5 papers in general anaesthesia in the last 2 years that are likely to affect anaesthesia practice”. ICRAA – 2009 held from…30th Jan – 01st Feb.2009.
- “Recent Advances in Anaesthesiology. Boyle’s Apparatus to Anaesthesia Work Station” PG Quest 2009, ISA Kerala Chapter held from 07th-08th Feb.2009
- “Scope of ultrasound in critically ill children”. 4th International Paediatric Anaesthesia Course 2009 held from 20th-22nd Feb.2009
- “Signal Transduction”. South Zone Indian Society of Anaesthetists & ISA AP State Chapter 2009 held from 11th-12th Sep.2009.
• “Regional anaesthesia in parturients with thrombocytopenia or anticoagulants”. AOA 2009 held from, Association of Obstetric Anaesthetists from 18th-20th Sep.2009
• “Lung Ultrasound. Ultrasound in Anaesthesiology and Critical Care 2009 held on 08th Nov.2009.
• “Pain Management in Burns”. NABICON 2010 held on 29th Jan.2010
• “Optimizing Difficult Airway. Difficult Airway Course 2010. National Academy of Burns India,
• “Pulmonary Circulation” held from 19th-21st Feb.2010 RACE 2010, Ramachandra Anaesthesia Continuing Education.
• Ventilatory management in chronic obstructive airway disease” held “Regional Symposium Update on Mechanical Ventilation 2010 held
• “Patient with ischaemic heart disease for non cardiac surgery”. ARC 2010, Anaesthesia Review Course held from 19th-21st Mar.2010.
• “Physics and Anaesthesia”. Postgraduate Quest 2010
• “Ultrasound applications in shock”, SHOCK 2010 held fro
• Guest Lecture: Paediatric bronchoscopy at 2nd National conference in Paediatric Anaesthesia, NIMHANS, Bangalore 20th – 21st Feb 2010,

Dr A Vasudevan delivered lectures on
• “Difficult airway managements” at ISA Pondicherry held on January 2010

Dr S K Mishra
• A symposium on “Total Parenteral Nutrition” held on19 Dec 2009 was organized by ISA Pondicherry and the presentation was done by Dept. of Anaesthesiology and Critical Care, JIPMER with Dr Mishra as moderator.

CONFERENCES
Prof A S Badhe
• Chaired a session at IACTA- May-2009, Chennai on Fontan Physiology and Anaesthesia
• Chaired a session “Total Parenteral Nutrition at, ISA,Pondicherry

Dr P Kundra

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• Lung Ultrasound, Resource Person: Ultrasound guided lower limb blocks Workshop on Ultrasound in Anaesthesiology and Critical Care, at ISA Pondicherry Branch, MGMC & RI, Pondicherry 8th Nov 2009.


• Course on Difficult Airway, Goa Medical College 30th Jan 2010, Course Coordinator: Optimizing Difficult Airway.


• Chaired, Regional Symposium Update on Mechanical Ventilation, Manukular Vinayagar Medical College & Hosp., Pondicherry 7th March 2010.


• Postgraduate Quest and Midterm CME, Calicut 27 – 28th Mar 2010, Guest lecture: Physics and anaesthesia

• Ultrasound applications in shock, Moderator: Panel Discussion on case scenarios at Shock CME, KSHMA Mangalore 18th Apr 2010, Guest lecture:

Dr Mishra S K

• Attended the CME and participate in workshop on TEE for anaesthesiologist at IACTA may 2009, Chennai.

• Attended the conference and CME and presented paper on “Low Dose Spinal anaesthesia for Patient with Mitral valvular disease posted for puerperal sterilization”: A Retrospective study at ISACON-2009 held from 26-29 December 2009.

• Attended the CME on ultrasound in anaesthesiology and critical care and participate in workshop at MGCRI held on

• Attended the CME on Symposium Update on Mechanical Ventilation, Manukular Vinayagar Medical College & Hosp., Pondicherry 7th March 2010.

Dr. Bhat R Ravindra

Low dose clonidine as an adjunct to bupivacaine in subarachnoid block for lower abdominal gynaecological surgeries at ISACON-2009.

Dr. Sudeep K

Anesthetic depth for LMA insertion in patients with difficult mask Ventilation at ISACON-2009 Chennai.

JIPMER 2009-2010 / 100
Dr. Ranjani
Comparison of flexitip laryngoscope with macintosh laryngoscope on glottic exposure in patients undergoing general anaesthesia. at ISACON-2009 Chennai.

Dr. Vinoth Kumar N V
Assessments of vocal cord function after thyroid surgery. at ISACON-2009.

Dr. Shirley Stephen
Pre-oxygenation in patients with difficult mask ventilation. at ISACON-2009.

Vimal Raj P
Various modes of ventilation with ventilating bronchoscope - Poster presentation. ISACON-2009.

RESEARCH PROJECTS
A. Departmental project
Completed


Ongoing
1. Mishra S K, Baddhe A S. Use of manikin with or without Audio visual presentation for the development of intubation skills in Interns before their Anaesthesiology Posting (NTTC JIPMER).


5. Pre-oxygenation in patients with difficult mask ventilation Comparison of low dose Bupivacaine with Fentanyl and Bupivacaine alone for spinal Anaesthesia for lower limb and perineal surgeries.


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7. Assessment of vocal cord function after thyroid surgery
8. Effect of positioning from supine and left lateral to m15° lateral tilt on maternal blood flow velocities and wave forms in full term pregnant women
9. Comparison of automated jet ventilation with assisted spontaneous ventilation in rigid bronchoscopy for tracheobronchial foreign body in children
10. Penile vs caudal block in children undergoing hypospadias urethroplasty
11. Evaluation of clonidine as additive to bupivacaine for central neuraxial blockade
12. Comparison of single dose diclofenac sodium vs paracetamol suppository for pain relief following inguinal surgery in children
21. S. Yamini, Pankaj Kundra, Sarath Chandra. S. Cardio respiratory effects of balancing PEEP to intra-abdominal pressures during laparoscopic cholecystectomy

PUBLICATIONS

A. Journal


32. Vasudevan A. Carbon-Dioxide Rebreathing Caused by Displaced Sealing Ring in Circle Absorber System Indian Journal of Anaesthesia 2009; 53 (6):702-710


35. Vasudevan A, Mahesh N. Acute respiratory distress syndrome in a child with cerebral palsy The Internet Journal of Anesthesiology 2009; 20(2)

36. Vasudevan A. Functional description of ‘AMBU BAG’ with a virtual 3D model The Internet Journal of Medical Simulation 2009; 3 (1)

B. Book chapters


PATIENT CARE SERVICES

A. Clinical

Twenty two operation theaters provide anaesthesia services to an average of 15,000 patients annually. Critical care is provided to about 400 patients in the 6 bedded state of the art critical care unit. A number of patients are referred to our intensive care unit from other departments of JIPMER and hospitals from different parts of the State. The ABG (Arterial Blood Gas), invasive and non invasive monitoring, cardiac output monitor (both thermodilution and flow counter technology), and PFT services are also provided. Extending pain relief beyond the confines of the operating room led us to start Acute Pain Services, Chronic pain services (include celiac plexus, Stellate ganglion, lumbar sympathetic block) for specially referred patients. Anaesthesia outside the operating theatre include challenging procedures in Interventional Radiology, Cardiology, Neurology, Gastroenterology and Radiation Oncology, ESWL and ECT. The department is actively consulted by all for Resuscitation, Respiratory assessment, Ventilator management and Invasive monitoring.

B. Laboratory

ABG-3520
PFT-64
AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS
D. Vasudevan

D Vasudevan was selected as Instructor and Provider and Dr Mishra as a Provider for AHLS (Advanced Hazmat Life support)

Dr Mishra S K

1. Was appointed as an executive committee member of ISA Pondicherry
2. Completed the NTTC held From 10 to 19 September 2009 at JIPMER

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS
Prof Badhe

1. Was the chairman of the selection committee for Assistant Professors and Operating Theatre Staff
2. Is a member of purchasing of instrument and equipment (PMSSY) for the setup of AIIMS like institute in different part of the India.

Prof Badhe, Dr Hemavathy, Dr Kundra, Dr Vasudevan Dr Mishra SK, and Parida S are in the tender and purchasing committee, for consumables and instruments for the department.

Central facilities for oxygen for hospital (two Central liquid oxygen liquid plant) was maintained by department of Anaesthesiology and Critical Care.

SIGNIFICANT EVENTS IN THE DEPARTMENT

Department website was designed and launched with the effort of Dr Vasudevan A.
BACKGROUND INFORMATION OF THE DEPARTMENT

The Department was established in 1957 by Dr. Oliver (French) and Dr. V. M. Charnalia under Medical College Pondicherry. Subsequently, the name of the institute was gradually changed to Dhanvantari Medical College (DMC) and JIPMER. Since then the Department has been offering training for medical undergraduate courses and speciality courses including PhD programs. The Department was involved in conducting WHO programs (1985) in the field of Post Natal Growth and Development and Medical Genetics which were incorporated in the curriculum for undergraduate medical education during affiliation to Pondicherry University.

The Department has been involved in teaching learning activities and maintaining high standards of research in training the post graduate and PhD scholars. The karyotyping lab which started in small scale has now expanded to a fully automated karyotyping work station level providing facilities for studies related to interphase FISH / FISH, DNA damage using Comet assay and Micronucleus score.

PhD candidates and post graduate students of Anatomy and other specialities are actively involved in collaborating themselves with this section for interdepartmental collaborative schemes.

Currently the section has been provided with PCR thermal cycler for gene level studies and molecular probing.

EDUCATIONAL COURSES

A. Undergraduate Courses
M.B.B.S
B.Sc (Nursing)
B.Sc (MLT)

B. Postgraduate Courses
M.D (Anatomy)
I MSc.( Medical Biochemistry)
C. Research Courses
PhD (Anatomy)

D. Other Courses
Medical Record Technicians Course (MRT)
Medical Record Officer’s Course (MRO)
Pre Hospital Trauma Technician Course (PHTT)

CONTINUING MEDICAL EDUCATION PROGRAMS

Dr. K. Ramachandra Rao
Attended CME on Recent Trends in Medical Genetics, conducted by the Department of Anatomy, Mahatma Gandhi Medical College and Research Institute, Pondicherry on 22nd Feb 2010.

Dr. Parkash Chand
Attended CME on Recent Trends in Medical Genetics, conducted by the Department of Anatomy, Mahatma Gandhi Medical College and Research Institute, Pondicherry on 22nd Feb 2010.

Dr. Sarasu
Attended International Symposium on Stem Cell Therapy, conducted by Department of Anatomy, Mahatma Gandhi Medical College and Research Institute, Pondicherry on 14th May 2010

CONFERENCES

Dr. K Ramachandra Rao

Dr. Parkash Chand


RESEARCH PROJECTS

A. Funded Projects

Ongoing

1. Detection of fetal DNA in maternal plasma as a prenatal diagnostic technique. Investigator: Dr. Sarasu.J Co-Investigator: Dr. K. Ramachandra Rao

2. The effect of chronic psychogenic stress on the expression of DNA damage among health professionals. Investigator: Dr. Sarasu.J Co-Investigator: Dr. K. Ramachandra Rao

3. Effect of chronic stress on morphology of interstitial cell of cajal, nitregic and cholinergic neurons in the enteric nervous system. Investigator: Dr. Rashmoni Jana Co-Investigator: Dr. K. Ramachandra Rao

4. Cytogenetics and Micronuclear assay among infertile women Investigator: Dr. Kubera NS Co-Investigator: Dr. K. Ramachandra Rao

5. To estimate DNA damage and repair using comet assay to various radiation dose fractionation schedules in locally advanced head and neck cancer. Investigator: Dr. Gunaseelan K Co-Investigator: Dr. K. Ramachandra Rao

B. Departmental Projects

Completed

1. Genetic basis of early pregnancy loss – through cytogenetic analysis, Comet assay & Micronuceus score Investigator: Dr. Rajesh B Supervisor: Dr. K. Ramachandra Rao

2. Study of DNA damages in children below 5 yrs of age with 21 Trisomy Investigator: Dr Jayaprapaksh Supervisor: Dr. K. Ramachandra Rao
3. Assessment of DNA damage in children below 5 yrs of age with non-syndromic congenital malformations.
   Investigator: Dr. Rijied Thompson Swer
   Supervisor: Dr. Parkash Chand

**Ongoing**

1. A study of Oxidative stress induced DNA damage in cases with Neonatal Asphyxia.
   Investigator: Mr. Manoj A
   Supervisor: Dr. K. Ramachandra Rao

   Investigator: Mr. Nandha Kumar
   Supervisor: Dr. K. Ramachandra Rao

3. A study on chromosomal fragile sites in 21 trisomy
   Investigator: Dr. Sangeetha A
   Supervisor: Dr. Parkash Chand

4. Determination of Chromosomal aberration & DNA damage by Karyotyping & Comet assay in cases with primary amenorrhea
   Investigator: Dr. Sarah
   Supervisor: Dr. Parkash Chand

5. Immunoglobulin profile in Down syndrome and its clinical implications
   Investigator: Dr. Deepa C
   Supervisor: Dr. Parkash Chand

6. Evaluation of oxidative stress in cases with Down syndrome
   Investigator: Dr. Mehar Sulthana
   Supervisor: Dr. K. Ramachandra Rao

**C. Collaborative Projects**

**Completed**

1. Comparative study of Evoked potential in Down syndrome with age matched normal children.
   Investigator: Dr. Thenmzhi, Department of Physiology
   Co-guide: Dr. K. Ramachandra Rao

2. A study of DNA damages in cervical cancer
   Investigator: Dr. Elizabeth, Department of Obstetrics and Gynaecology
   Co-guide: Dr. Parkash Chand

**Ongoing**

1. Assessment of Radiation induce DNA damage in peripheral lymphocytes of oral cavity cancer patients using comet assay
   Investigator: Dr. Aravind Kumar, Department of Radiotherapy
   Co-guide: Dr. K. Ramachandra Rao
PUBLICATIONS

A. Journals


B. Books

Dr. K Ramachandra Rao

Functioning as member in South Asian Advisory Panel for Lippincott Williams and Wilkins for the following text books in Anatomy and Embryology.


PATIENT CARE SERVICES

A. Clinical

Embalming is performed on request from public transporting the dead either by road transport or by air.

B. Laboratory

Cytogenetic Laboratory

Special investigations like chromosomal analysis using automated karyotyping system and buccal smear are done on request from various clinical departments in JIPMER hospital – out patients and in patients.
AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

1. Six research papers were published in indexed journals in the field of medical genetics

2. Dr. Rijed Thompson Swer, Final year Resident in the Department of Anatomy won the Best paper award in Tamil Nadu state conference, CHANTCON, held at Chettinad Medical College, on 12th September 2009 for research paper titled ‘Assessment of DNA damage in children below 5 years of age with nonsyndromic congenital malformations using comet assay’

3. Dr. Jayasaharinathan M, Second year Resident in the Department of Anatomy won the Best paper award in Tamil Nadu state conference, CHANTCON, held at Chettinad Medical College, on 12th September 2009 for research paper titled ‘The micronucleus test – A diagnostic tool in Carcinoma cervix’

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Administrative Assignments

Dr. K. Ramachandra Rao

1. Warden for Men’s hostel – Lister, Osler
2. Student advisor, JIPMER student association
3. Professor Examinations – in Examination Wing
4. Member and member secretary for various interview committees
5. Member board for the UG & PG curriculum Committee.
6. Officer-in-charge of UG academic programs – Medical/ Para Medical.
7. Examiner for UG & PG
8. Paper setter for UG & PG/ Diploma/ Nursing
9. Convenor and Doctoral Committee member for Ph.D Programmes.

Dr. Parkash Chand

1. Officer-in-charge of Departmental library
2. Officer-in-charge of Dissection hall.
3. Officers in Charge of Stores – Department.
4. Officer-in-charge of Central Workshop, JIPMER
5. Officer-in-charge of UG academic programs – Medical/ Para Medical.
6. Examiner for UG & PG
7. Paper setter for UG & PG/ Diploma/ Nursing
SIGNIFICANT EVENTS IN THE DEPARTMENT

1. Cytogenetic laboratory has been upgraded with the following imported equipments for patient care, teaching and research purpose.
   
   i. Inverted Microscope, NIKON, Japan
   
   ii. Trinocular Microscope with photographic attachments, Olympus, Japan
   
   iii. PCR Thermal Cycler, Eppendorf, Germany
   
   iv. Refrigerated Centrifuge, Eppendorf, Germany
   
   v. Mini spin plus, Eppendorf, Germany
   
   vi. 80 Degree Deep Freezer, Eppendorf, UK
   
   vii. Biophotometer, Eppendorf, Germany
   
   viii. Vertical gel electrophoresis system, Amersham
   
   ix. Horizontal gel electrophoresis system, Amersham
   
   x. UV transilluminator, UV Tech, UK

2. Dissection hall has been upgraded with 2 Nos of DLP projection system, SANYO for teaching undergraduates and postgraduates.
BACKGROUND INFORMATION OF THE DEPARTMENT

Department of Biochemistry, JIPMER was established in the year 1957. The first officers of the department were Dr. Mademoiselle D. Labie and Dr. M. K. Ramanathan, Reader.

The teaching programmes of the department were commenced as follows: MBBS (1957); Ph.D. (1964); BSc [MLT] (1975); MD [Biochemistry] (1965); and MSc [Medical Biochemistry] (1965). Investigations in the clinical biochemistry laboratory were started in 1965. Several special investigations for better and effective patient health care were started by the department including RIA of insulin, ALP and LDH isoenzymes, hormonal assays, lipid profile, ceruloplasmin, 17-hydroxy steroids, hemoglobin electrophoresis and lipoprotein electrophoresis.

Quality control programme was done using external QC from WHO/Scottish laboratories/DGHS and internal QC using pooled serum and standards.

The department had produced 164 research publications, 74 reviews and scientific papers till its silver jubilee in 1981. Society of Biological Chemists (India), Pondicherry Branch was functioning in the department since 22nd July 1970. Several research projects funded by ICMR, CSIR, BARC and UGC were successfully completed in the department since inception in 1957.

EDUCATIONAL COURSES

A. Undergraduate Courses

The department continues with its undergraduate teaching programmes which include MBBS (two semesters), BSc (MLT) (two semesters), BSc (Nursing) (one semester), MRT (two semesters), and MRC (two semesters) and BMRSc (two semesters). New novel methods of teaching like problem-based learning modules, revision exercises like formulation of multiple choice questions and open book examinations were introduced for the second semester to strengthen concepts in biochemistry.
B. Postgraduate Courses

These include MSc (Medical Biochemistry with intake of 9 students/year (I, II and III year) and MD (Biochemistry)(3 year course) with annual intake of 3 students. 21 departmental seminars and 22 journal clubs were conducted for postgraduate teaching in the department. After postings at the Superspeciality Block, the postgraduate students regularly made departmental presentations regarding a review of their tenure at SSB. The department has 2 Senior Residents and 4 PhD students.

C. Research Courses (PhD course)

Dr. M. G. Sridhar

Following candidates are carrying out their PhD programme under Dr. M.G. Sridhar:

- Molecular basis of the effect of curcumin on insulin resistance and its associated complications in diabetes and obesity-Ms. N. Maithili Karpagaselvi.
- Molecular basis of the effects of Garcinia cambogia extracts on obesity and insulin sensitivity in diet-induced obese and insulin resistant animal models-Ms. R. Sripradha.

Dr. Zachariah Bobby

Following candidates completed their tenure and received PhD in Medical Biochemistry under Dr.Zachariah Bobby:

- Oxidative stress in chronic renal failure: Molecular basis of its deleterious effects and therapeutic considerations-Mr. N. Selvaraj.
- Metabolic, Inflammatory and Redox imbalance in diabetics, subjects susceptible to diabetes and Experimental diabetes: Effects of treatment-Ms. V. Sathiyapriya.

Following candidates are carrying out their PhD programme under Dr. Zachariah Bobby:

- Molecular basis of cardiovascular complications and metabolic syndrome in post menopausal condition: modulation by Amla (Emblica officinalis)- Mrs.Smitha Mariam Koshy.
- Molecular basis of insulin resistance and its complications in High fat fed ovariectomised female wistar rats: The effects of treatment-Mr. P. Sankar.

Academic Programmes

The department had a pass percentage for the various courses as follows: MBBS 96%; BSc (MLT) 67%; BSc (Nursing) 87%; MRT/MRC/BMRSc 100%; MD (Biochemistry) 50% and MSc (Medical Biochemistry) 100%.
CONTINUING MEDICAL EDUCATION PROGRAMS

Dr. P.H. Ananthanarayanan

- Delivered a Guest lecture on “Occupational hazards” at the National Conference on “Safety and security of chemicals, petroleum, petroleum-products and natural gas at storages, warehouses, ports and transportation through pipelines and containers”, at Hotel Le Royal Meridien, Chennai on August 13, 2009.
- Delivered an Invited talk on “Newer methods of assessment” in NTTC Seminar Hall; October 4, 2009.
- Acted as the Resource Person for Level II workshop on “Educational Technology for Medical Teachers” under the NTR University of Health Sciences at Andhra Medical College, Visakhapatnam, Andhra Pradesh, on 18th and 19th December 2009.
- Delivered a Guest Lecture to the Faculty Association of Andhra Medical College on “Newer methods of Assessment” on 19th December 2009.
- Delivered Guest lecture in the 17th National Conference of Association of Medical Biochemists of India (AMBICON-2009) at Jawaharlal Nehru Medical College, Nagpur, Wardha on December 12, 2009.

Dr. M. G. Sridhar

- Delivered a talk to students and staff of Kendriya Vidyalaya-1, Puducherry on “Adolescence-Challenges and opportunities”, in connection with National Adolescence Education Programme on 21st Dec 2009.

Dr. Zachariah Bobby

- Delivered a guest lecture on “Metabolic, inflammatory and redox imbalance in diabetes, subjects susceptible to develop diabetes and experimental diabetes: effects of treatment” at Vinayaka Mission Medical College and Hospital, Karaikal, Puducherry as part of Continuing Medical Education on 5th January 2010.

Dr. R. Soundravally

- Delivered a lecture on “Effective Diagnostics” at Interns Orientation Programme, JIPMER, Puducherry on 26th January 2010.

CONFERENCES

Dr. P.H. Ananthanarayanan

- Attended “Two day policy support brainstorming on safe water for rural and urban India” at National Academy of Sciences, Allahabad; July 9-10, 2009.
- Attended the Sixth National Workshop on “Basic Techniques in Molecular Biology and Bioinformatics in Pharmacogenomics” at JIPMER, Puducherry, India; September 7, 2009.
- Attended One Day Conference of Official Language by the Regional Official Language Implementation Office, JIPMER, Puducherry, India; October 9, 2009.

- Attended Meet on “Consultation on History of Health Care in India: The Past and the Present”, at MDNIY, New Delhi; December 3-4, 2009.

- Attended the Regional Workshop on “Medical Education” to act as Resource person at Andhra Medical College, Visakhapatnam, India; December 18-19, 2009.

- Attended the Advance of Kinanthropometry (ISAK), organized 3 day level-I accreditation workshop in Kinanthropometry in Bernard Theatre, JIPMER, Puducherry; December 22, 2009.

**Dr. M. G. Sridhar**

- “Alterations in oxidant and antioxidant status in alcoholic liver disease” (poster) presented at the 36th National Conference of Association of Clinical Biochemists of India at Cochin, India; November 5-7, 2009.

- “Post-coronary stenting decrease in atherogenic risk factors” (poster) presented at the 36th National Conference of Association of Clinical Biochemists of India at Cochin, India; November 5-7, 2009.

- “Antiplatelet drug resistance in patients undergoing coronary stenting” (poster) presented at 61st Annual Conference of Cardiology Society of India at Cochin, India; December 3-6, 2009.

- Participated in Workshop on Endocrinological techniques and its applications at National Institute of Nutrition, Hyderabad, India; August 16-September 15, 2009.

- Participated in the 6th Indo-Australian Biotech Conference, Hyderabad, India; September 4-5, 2009.

**Dr. Zachariah Bobby**

- “Oxidative stress and inflammatory markers in pre-eclampsia” (poster) presented at the 36th National Conference of Association of Clinical Biochemists of India at Cochin, India; November 5-7, 2009.

- “Oxidative stress, inflammatory response and insulin levels after glucose load in gestational diabetes mellitus” (poster) presented at the International Conference on Advances in Free Radicals Research, Natural Products, Antioxidants and Radioprotectors in Health & Ninth Annual Meeting of the Society of Free Radical Research-India at Hyderabad, India; January 11-13, 2010.

**Dr. G. P. Senthil Kumar**

- Participated in the 60th National Course on Educational Science for Health Professionals”, Dept. of Medical Education, JIPMER, Puducherry, India; February 17-27, 2010.
Mr. S. Kandasamy

- Participated in the National Conference on Scientific Achievements of SC/ST Scientists and Technologists at Bangalore, India; April 14-16, 2009.

Postgraduate/PhD students

M.D. (Postgraduate) students attended the following conferences and presented several posters:

- 36th National Conference of Association of Clinical Biochemists of India at Cochin, India; November 5-7, 2009.
- International Conference on Advances in Free Radicals Research, Natural Products, Antioxidants and Radioprotectors in Health & Ninth Annual Meeting of the Society of Free Radical Research-India at Hyderabad, India; January 11-13, 2010.
- International CME on Pediatric Nephrology at JIPMER, Puducherry, India; January 17, 2010.
- CME on HIV and opportunistic infections at JIPMER, Puducherry, India; February 16, 2010.
- M.D. (Postgraduate) students and PhD students attended the following training workshops:
  - Hands on training programme in PCR Technique for Clinical Applications at Raja Muthiah Medical College, Annamalai University, Tamil Nadu; March 13-14, 2010.
  - Animal Cell Culture Techniques at Department of Biotechnology, Annamalai University, Tamil Nadu; March 13-15, 2010.

RESEARCH PROJECTS

A. Funded Projects

**Ongoing**

Dr. Zachariah Bobby


B. Departmental Projects

**Completed**

**Dr. P. H. Ananthanarayanan**

1. Impact of nutritional education on insulin sensitivity and hemoglobin in pre-diabetic and diabetic population in a community.

2. Impact of nutritional education on biochemical parameters in pre-diabetic and diabetic population in a community.

**Dr. M. G. Sridhar**

1. Platelet aggregation, fibrinogen and lipid profile in cerebrovascular accidents.

2. Levels of homocysteine, C-reactive protein and oxidative stress parameters in cerebrovascular accidents.

**Dr. Zachariah Bobby**

1. Lipid peroxidation, Inflammatory response and sex hormonal imbalance in women of reproductive age group with subclinical hypothyroidism.

2. Female sex hormone imbalance and its associated biochemical changes in women of reproductive age group with primary overt hypothyroidism.


**Ongoing**

**Dr. P. H. Ananthanarayanan**

1. A study of thyroid profile in children with nephrotic syndrome.

2. Study of cardiovascular risk markers and thyroid profile in unmarried women with polycystic ovarian disease.

**Dr. M. G. Sridhar**

1. Impact of coronary stenting on platelet aggregation, oxidative stress, inflammatory response, insulin resistance and cardiac ischemic markers.

2. Atherogenic risk markers in male type 2 diabetes mellitus patients with acute coronary syndrome.

3. Differential effects of calcium channel blockers and ACE inhibitors on platelet aggregation and atherogenic factors in hypertensive patients.

4. Evaluation of homocysteine, inflammatory response, oxidative stress parameters and lipid profile in male non-diabetic acute myocardial infarction patients.
Dr. Zachariah Bobby
1. Effect of calorie restriction on the subsequent sucrose induced glucose intolerance and oxidative stress in male wistar rats.
2. Effect of high glycemic load in the diet on subsequent sucrose induced glucose intolerance and oxidative stress in male wistar rats.
3. Effect of high dose water soluble vitamin supplementation on insulin resistance, oxidative stress and homocysteine in pre-hypertension: a randomized control study.

Dr. R. Soundravally
1. Effects of sleep disturbances during second and third trimester of pregnancy on inflammatory status and oxidative stress in maternal blood and their effects on fetal birth weight and APGAR score.
2. Assessment of multiple serum biomarkers in the early prediction of tubal ectopic pregnancy.

Dr. Medha R.
1. Comparative study of oxidative stress and inflammatory markers in obese and non-obese subjects.
2. Evaluation of homocysteine, lipoprotein (a) and sialic acid levels in subjects with obesity compared to non-obese subjects.

C. Collaborative Projects

*Completed*

Dr. M. G. Sridhar
1. Hypokalemic paralysis – A clinico-laboratory evaluation of its etiology (with Dept. of General Medicine, JIPMER).
2. Ultrasonographic scoring and risk malignancy index in pre-operative prediction of ovarian malignancy (with Dept. of Obstetrics & Gynaecology, JIPMER).
3. Gender differences in heart rate variability in obesity: correlation with lipid and thyroid profiles (with Depts. of Medicine & Physiology, JIPMER).

Dr. Zachariah Bobby
1. Comparison of cerebrospinal fluid oxidative stress in acute pyogenic meningitis versus other acute febrile encephalopathies in children and their clinical outcome (with Dept. of Pediatrics, JIPMER).
Ongoing

Dr. P. H. Ananthanarayanan

1. Assessment of the role of sympathetic markers in the prediction and prevention of essential hypertension (with Dept. of Physiology, JIPMER).
2. Effect of yoga therapy on autonomic function and biochemical profile of patients of essential hypertension (with Dept. of Physiology, JIPMER).
3. Effect of yoga therapy on patients of type 2 diabetes mellitus with neuropathy (with Dept. of Physiology, JIPMER).
4. Effect of gender on mesolimbic regulation of food intake and adiposity in rat model: correlation with sympathetic activity, lipid profile, thyroid profile and insulin resistance (with Dept. of Physiology, JIPMER).
5. Gender difference in the role of ventromedial hypothalamus in high fat diet-induced and sucrose-induced obesity in albino rats of wistar strain: correlation with lipid profile, thyroid profile and insulin resistance (with Dept. of Physiology, JIPMER).
6. Assessment of cardiovascular autonomic function in patients with polycystic ovarian syndrome: correlation with body mass index, insulin resistance, thyroid profile and lipid profile (with Dept. of Physiology, JIPMER).
7. Incidence of diabetes mellitus in rural Pondicherry (with Dept. of Preventive and Social Medicine, JIPMER).
8. Comparison of standard and low pressure pneumoperitoneum in laparoscopic cholecystectomy-a prospective double blinded randomized control study (with Dept. of Surgery, JIPMER).

Dr. M. G. Sridhar

1. Insulin resistance and thyroid profile in women with spontaneous abortion (with Dept. of Obstetrics & Gynaecology, JIPMER).
2. Study of insulin resistance and metabolic abnormalities in adolescence and young women with polycystic ovarian syndrome (with Dept. of Obstetrics & Gynaecology, JIPMER).
3. Serum homocysteine levels in late first trimester of pregnancy: correlation with maternal and fetal outcome (with Dept. of Obstetrics & Gynaecology, JIPMER).
4. Evaluation of oxidative stress in cases of Down’s syndrome (with Depts. of Anatomy & Pediatrics, JIPMER).
5. Effect of CYP2C19 and MDR1 genetic polymorphisms on anti-platelet effects of clopidogrel in clinical settings (with Dept. of Pharmacology, JIPMER).
6. Effect of CYP3A5 and P2Y12 genetic polymorphisms on platelet aggregation in patients on treatment with clopidogrel (with Dept. of Pharmacology, JIPMER).
7. Non-protein nitrogenous substances in cord blood and urine of healthy and asphyxiated babies (with Dept. of Pediatrics, JIPMER).
Dr. Zachariah Bobby

1. Effect of 12 week yoga therapy as a lifestyle intervention in patients of type 2 diabetes mellitus with distal symmetric polyneuropathy- a randomized controlled study (with Dept. of Physiology, JIPMER).

2. Association between non-alcoholic fatty liver disease and components of metabolic syndrome with special reference to oxidative stress (with Dept. of Medicine, JIPMER).

3. Comparative study of components of metabolic syndrome in drug-naive persons with schizophrenia and their first degree relatives (with Dept. of Psychiatry, JIPMER).

4. Effect of Yoga therapy on cardiac autonomic functions and oxidative stress in prehypertensive subjects: a randomized controlled study (with Dept. of Physiology, JIPMER).

5. *Cleistanthus collinus* poisoning-cause of hypokalemia and antioxidant status-an explorative study (with Dept. of Medicine, JIPMER).

Dr. R. Soundravally


PUBLICATIONS

A. Journals


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B. Books

1. Faculty and Residents of the department, JIPMER contributed in bringing out a new “Practical Manual in Biochemistry”, for the undergraduate and postgraduate students in Biochemistry.


PATIENT CARE SERVICES

A. Laboratory Investigations in the department of Biochemistry from 01.04.2010 to 31.03.2010:

I. Clinical Biochemistry 10,43,911

II. Emergency Medical Services 1,81,982

III. SSB(ELISA, RIA, Chemiluminiscence) 10,000

IV. Special Investigations 4,504

Grand Total 12, 40,397

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I. Clinical Biochemistry

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II. Emergency Medical Services (EMS)

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<td>Creatine Kinase Direct</td>
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<td><strong>Total</strong></td>
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<td>Name of the investigation</td>
<td>No. of samples</td>
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<td>9</td>
<td>Cortisol</td>
<td>136</td>
</tr>
<tr>
<td>10</td>
<td>FSH</td>
<td>323</td>
</tr>
<tr>
<td>11</td>
<td>LH</td>
<td>320</td>
</tr>
<tr>
<td>12</td>
<td>Prolactin</td>
<td>315</td>
</tr>
<tr>
<td>13</td>
<td>Testosterone</td>
<td>229</td>
</tr>
<tr>
<td>14</td>
<td>Estradiol</td>
<td>100</td>
</tr>
</tbody>
</table>

III. SSB (ELISA, RIA, Chemiluminiscence)
<table>
<thead>
<tr>
<th>Sl No</th>
<th>Name of the investigation</th>
<th>No of samples</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>Growth hormone</td>
<td>61</td>
</tr>
<tr>
<td>16</td>
<td>Progesterone</td>
<td>51</td>
</tr>
<tr>
<td>17</td>
<td>CA 125</td>
<td>414</td>
</tr>
<tr>
<td>18</td>
<td>PSA</td>
<td>333</td>
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<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>10,000</strong></td>
</tr>
<tr>
<td></td>
<td><strong>IV. Special Investigations</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Sl No</strong></td>
<td><strong>Name of the investigation</strong></td>
</tr>
<tr>
<td>1</td>
<td>Serum ceruloplasmin</td>
<td>143</td>
</tr>
<tr>
<td>2</td>
<td>Serum protein electrophoresis</td>
<td>175</td>
</tr>
<tr>
<td>3</td>
<td>Plasma fibrinogen</td>
<td>217</td>
</tr>
<tr>
<td>4</td>
<td>Stone analysis</td>
<td>64</td>
</tr>
<tr>
<td>5</td>
<td>Paper chromatography</td>
<td>5</td>
</tr>
<tr>
<td>6</td>
<td>Platelet aggregation</td>
<td>5</td>
</tr>
<tr>
<td>7</td>
<td>Glycated hemoglobin</td>
<td>172</td>
</tr>
<tr>
<td>8</td>
<td>Sweat chloride</td>
<td>12</td>
</tr>
<tr>
<td>9</td>
<td>Adenosine deaminase</td>
<td>12</td>
</tr>
<tr>
<td>10</td>
<td>24 hour urinary protein</td>
<td>2659</td>
</tr>
<tr>
<td>11</td>
<td>Urinary micro albumin</td>
<td>4</td>
</tr>
<tr>
<td>12</td>
<td>Urine BJP</td>
<td>48</td>
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<tr>
<td>13</td>
<td>Urine PH</td>
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<td>14</td>
<td>Urine protein creatinine ratio</td>
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<td>15</td>
<td>Urine myoglobin</td>
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<td>16</td>
<td>Urine osmolality</td>
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<td>17</td>
<td>Urine cetrimide test</td>
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<tr>
<td>18</td>
<td>Urine urobilinogens</td>
<td>10</td>
</tr>
<tr>
<td>19</td>
<td>Urine porphobilinogens</td>
<td>5</td>
</tr>
<tr>
<td>20</td>
<td>Urine ketones</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>4,504</strong></td>
</tr>
</tbody>
</table>
AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

1. Following MBBS students participated in the Inter-college Biochemistry quiz competition (MEDBIOQUIST-2010) organized by the Puducherry chapter of the Association of Medical Biochemists of India (AMBI) at Aarupadai Veedu Medical College, Puducherry on 6th March, 2010 and secured first prize:
   i. Mr. Santhosh Swaminathan … First Prize
   ii. Ms. Dudaka Anusha … First Prize

2. Following M.D. (Postgraduate) students attended the 36th National Conference of Association of Clinical Biochemists of India at Cochin, India; November 5-7, 2009 and secured first prize and second prize in NIMS Quiz during the conference:
   i. Dr. Sathish Babu M … First Prize
   ii. Dr. Kavitha S … First Prize
   iii. Dr. Radhika M R … Second Prize

Dr. P.H. Ananthanarayanan

Chairman, Anti-ragging Committee, JIPMER; Member, Scientific Advisory Committee for Ministry of Environment and Forests, Government of India; Member of Selection Committee of JIPMER, Puducherry; Member of Selection Committee of Perundalaivar Kamaraj Medical College and Research Institute, Puducherry; Council Member, Heinz Nutrition Foundation, India; Resource person for NTTC, JIPMER for National Course on Educational Science for Teachers of Health Professionals and Interns” and Postgraduate Orientation Programmes; PG Examiner, JIPMER, Puducherry. Reviewer of Indian Journal of Public Health. Life Member, Association of Clinical Biochemists of India, Association of Medical Biochemists of India, Honorary Fellow of Indian Public Health Association.

Dr. M. G. Sridhar

Member of Under-graduate/Post-graduate Board of Studies in Biochemistry at Puducherry University; Balaji Vidyapeeth, Mahatma Gandhi Medical College, Puducherry; Mahatma Gandhi University, Kottayam, Kerala; Kannur University, Kerala; Paramedical Sciences, Puducherry University; Member, Committee for inspection of postgraduate facilities for medical colleges, Puducherry University; Member of Technical Committee, PMSSY Scheme, Government of India; Member, Selection Committee of Perundalaivar Kamaraj Medical College and Research Institute, Puducherry; PhD Viva Examiner at Sri Chitra Tirunal Institute of Postgraduate Medical Sciences and Technology, Trivandrum; Member, Doctoral Committee for PhD students in the Department of Biochemistry, Puducherry University; PG Examiner in Rajiv Gandhi University Health Sciences, Karnataka and Tamil Nadu Dr. M G R Medical University, Chennai; Member of the Editorial Board of National Journal of Basic Sciences. Reviewer of Life Sciences, Indian Journal of Medical Research, Journal of Nutritional Biochemistry.
Dr. Zachariah Bobby

Member of Human Ethics Committee, Vector Control Research Centre, Puducherry; Ph.D Studies Committee, JIPMER; Research Monitoring Committee, JIPMER; Member of the Selection Committees for the recruitment of Junior Research Fellows at Puducherry University for the Extramural and University funded projects; Member of doctoral committees for the Ph.D candidates in Anatomy and Biochemistry at JIPMER; Member of review board of the Journals, Clinical Chemistry and Laboratory Medicine and Clinica Chimica Acta.

Dr. Zachariah Bobby evaluated the following PhD theses.

1. Tissue Trace Metal – Zinc and Carcinoma by Pamela George Samuel from the Department of Clinical Biochemistry, Christian Medical College Vellore.

2. Cellular effects of Plumbagin in BRCA1 blocked ovarian cancer cells by Thasni K.A from Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram.

Dr. R. Soundravally

Member of Association of Clinical Biochemists of India and Tropical Disease Research Scientist.

Dr. Medha R.

Member of Indian Immunology Society, Association of Clinical Biochemists of India, Association of Medical Biochemists of India and Indian Association of Cancer Research. Reviewer for Archives of Medical Research, Immunopharmacology and Immunotoxicity, Indian Journal of Community Medicine and International Journal of Cardiology.

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. P.H. Ananthanarayanan

1. Deputed to conduct the JIPMER MD/MS PG Entrance Examination at New Delhi, India; February 12-14, 2010.

2. Attended the Planning Meeting for III-year postgraduate orientation programme on research methodology for the year 2009 at JIPMER, Puducherry; April 9 & 21, 2009.

3. Attended the Meeting for making specifications for RFP for various simulators and mannequins for the required skills for MBBS students at JIPMER, Puducherry; April 15, 2009.

4. Attended the Meeting of the Stores Article Purchase Committee at JIPMER, Puducherry; April 20, 2009.

5. Attended the Meeting of the Institute Ethics Committee (Human Studies) for the year 2009 under the chairmanship of Shri. S. Nadamuni, District Judge(Retd., in the Board Room, JIPMER, Puducherry; April 22, 2009.

6. Attended the Meeting of the UG/PG Admission Committee at JIPMER, Puducherry; April 22, 2009.

7. Attended the Meeting regarding the Presentation of Salient features of Phase-II of Development in the President’s chamber in National Institute of Immunology, New Delhi; April 27, 2009.
8. Attended the Meeting regarding augmentation and re-organization of departments JIPMER, Puducherry; April 30, 2009.

9. Attended the Equipment Purchase Committee Meeting under Chairmanship of Director to examine the proposals at JIPMER, Puducherry; May 22, 2009.

10. Attended the Meeting to decide about the selection of the Recruitment to the post of Data entry Operator on contract basis in Chamber and Guidelines framed at JIPMER, Puducherry; June 1, 2009.

11. Attended the First Finance Committee Meeting at Nirman Bhawan, New Delhi, under the Chairmanship of Sri Naresh Dayal, Secretary, H&F.W., Govt of India; June 5, 2009.

12. Attended the National Consultation on “Public Health Workforce in India” organized by WHO, MHFW, GOI at Hotel Oberoi, New Delhi; June 24-25, 2009.

13. Attended the Meeting regarding streamlining of blood collection in Central Laboratory by starting single point collection of blood for all investigations at JIPMER, Puducherry; July 4, 2009.


15. Attended the Equipment Requirement Review Committee Meeting under Chairmanship of Director to examine the proposals at JIPMER, Puducherry; July 28-30, 2009.

16. Attended the Meeting to discuss feasibility of starting shift system in Medical Colleges in the Medical Council of India Office, New Delhi; August 18, 2009


18. Attended the Core group faculty meeting in NTTC Seminar Hall to discuss about MEDUCON-2009; August 26, 2009.

19. Attended the Second Meeting to discuss the issues regarding establishment of JIPMER school of Public Health; September 3, 2009.

20. Attended the Meeting to discuss the issues regarding Establishment of JIPMER School of Public Health in the Chamber of Dean; September 3, 2009.

21. Attended the Meeting at Director’s chamber to discuss regarding selection procedure for direct recruitments/ APS for faculty posts; September 16, 2009.

22. Attended the Budget Review meeting in Director’s Chamber; September 23, 2009.

23. Attended the Inspection of the physical and teaching facilities at JN Medical College, Wardha for increasing of seats in MD Biochemistry course; September 25, 2009.

24. Attended the Meeting of the Core group faculty members of NTTC & JNAA in NTTC Seminar Hall to discuss about MEDUCON-2009; October 1, 2009.

25. Attended the Internal Experts (Technical Advisor) Meeting in connection with recruitment to the Post of Assistant Professor on regular basis in various disciplines; November 6, 2009.
26. Attended the Meeting of the Institute Ethics Committee (Human Studies) for the year 2009 under the chairmanship of Shri. S. Nadamuni, District Judge(Retd.), in the Board Room; November 1, 2009.

27. Attended the Second meeting of Technical Committee on Manpower to work out manpower requirement for Medical college, hospital and nursing college in 6 AIIMS-like institutions being set up under the PMSSY at DGHS Resource Centre, 445-A Wing, 4th floor, Nirman Bhavan, New Delhi; November 16, 2009.

28. Attended the Planning meeting for 60th National Course on “Educational Science for Teachers of Health Professionals to be held in February 2010, in NTTC Seminar Hall; December 3, 2009.

29. Attended the Institute Administrative Committee Meeting under the Chairmanship of Director in Director’s Chamber on December 8, 2009.

30. Attended the Meeting of Core-group of Interns Orientation Programme in NTTC Seminar Hall; December 8, 2009.

31. Participated in the Celebration of Hospital Day in JIPMER Auditorium; December 14, 2009.

32. Attended the DPC Meeting for promotion in respect of Group “A” Posts in the Chamber of Director at JIPMER, Puducherry; December 15, 2009.

33. Attended the Meeting of the XI Plan proposals for preparing of EFC/SFC/DPR etc., with Shri Kadirvelan, Project Consultant of HLL in Board Room; December 15, 2009.

34. Attended the DPC Meeting for promotion in respect of Group “A” Posts in the Chamber of Director at JIPMER, Puducherry; December 29, 2009.

35. Attended the Meeting regarding implementation of 27% reservation for OBC candidates (excluding creamy layer) in Central Educational Institutes held at the Ministry of Health and Family Welfare, New Delhi; January 22-23, 2010.

36. Attended the Standing Finance Committee Meeting at Nirman Bhawan, New Delhi, under the Chairmanship of Sri Naresh Dayal, Secretary, H&F.W., Govt of India; February 23-24, 2010.

**Dr. M. G. Sridhar**

1. Professor (Examinations), JIPMER.

2. Member, Examination Committee, JIPMER.

3. One of the faculty involved in the Postgraduate Orientation Programme in 2009-10.


5. Officer-in-Charge, Purchase Section during vacation.
8.4 Cardiology

Professor & Head
J. Balachander

Assistant Professors
Santhosh Satheesh
A. Ajith
Raja Jaisundar Selvaraj
P. Gobu

BACKGROUND INFORMATION OF THE DEPARTMENT

Department of Cardiology, JIPMER was established as an independent department on 18th April 1987. Cardiac catheterization, angiography and interventions started in October 1987 using a Mobile C arm. First Cardiac Cath Lab was established in January 1995. Colour Doppler Echocardiography and Trans Esophageal Echocardiography started in September 1995. DM (Cardiology) course was started in 2002. Cardiac Electrophysiology and Radiofrequency ablation was started in 1997. In March 2009 the department shifted to the new Super Specialty Block. Currently there are three state of the art Cath Labs, five advanced echocardiography machines including one 3D, three treadmill machines, five Holter systems, and three electrophysiology and radiofrequency ablation systems.

All types of pediatric and adult cardiac diagnostic and interventional procedures are done in the department. It has become a center of excellence in cutting edge cardiovascular training, treatment and research.

EDUCATIONAL COURSES

D.M. Cardiology Course

CONTINUING MEDICAL EDUCATION PROGRAMS

Dr. J. Balachander

- Course Director First Indo French Radial Intervention Course IFRIC 2009 on 2,3,4 Feb 2009 at JIPMER
- Beta Blockers in HF:- HF PANDEMIC, Sri Ramachandra Medical College, CHENNAI 10.7.2009.
- Dr. Sivarajan Memorial Endowment Oration ‘Pacemakers what is new?’ Stanley Medical College, Chennai 15.7.2009.
- Course Director in the Renal Angioplasty and Stenting Workshop, JIPMER 4 August 2009

JIPMER 2009-2010 / 131
- Course Director in the 2009 Congenital Heart Disease Device Closure Workshop, JIPMER 25-26 Sept 2009.
- Indian Heart Rhythm Society Annual Meet, New Delhi 30.10.2009.
- Clinical Cardiology. Update Madras Medical Mission Institute of Cardiovascular Disease, Chennai 9.1.2010.
- Course Director in the PTMC Workshop, JIPMER, PUDUCHERRY 9 Feb 2010
- Chief Resource Person for Post Graduate Training Programme in Cardiology, Southern Railway Hospital Chennai 2009.
- Delivered a Lecture in Pondicherry Cardiac Club on “Recent Advances in Cardiac Pacing” on 24 Feb. 2010

**Dr. Santhosh Satheesh**

- Organising Secretary, First Indo French Radial Intervention Course IFRIC 2009 on 2, 3, 4 Feb 2009 at JIPMER
- Organising Secretary for the Renal Angioplasty Workshop 4 August 2009 at JIPMER.
- Organising Secretary for the Congenital Heart Disease Device Closure Workshop on 25,26 Sept 2009, JIPMER
- Organising Secretary PTMC Workshop 9 Feb 2010 at JIPMER
- Organising Secretary for Second Indo French Radial Intervention Course –IVUS-FFR 2010 on 22, 23, 24 March 2010 at JIPMER.

**National Continuing Medical Education / Training Programmes**

- Trans Radial Intervention Course, 3,4 January 2009 (Ahmedabad)
- Electrophysiology Workshop on 3D Electroanatomical Mapping and Radio Frequency Ablation, Care Hospital, Hyderabad.
- SCAI Intervventional Cardiology Fellows Course Feb 2010 New Delhi.

**International Continuing Medical Education/Training Programmes**

- Advanced Interventional Cardiology Course (Coronary) in Radial Angioplasty, Intravascular Ultrasound and Fractional Flow Reserve, 25 April to 18 May 2009, Lariboisiere Hospital, Paris, France.
- Advanced Course on Cardiac CT and MRI August 30 2009, Barcelona, Spain.

JIPMER 2009-2010 / 132
• Simulator Course in 3D Electroanatomical Mapping using CARTO 3 system, 21 October 2009 Beijing China.

• Advanced Interventional Cardiology Course (Coronary- Emergency) in Acute Myocardial Infarction Management – Radial Primary PTCA, 15-20 May 2010, Lariboisiere Hospital Paris, France.

• Intensive Course in Contrast Echocardiography, 3D Echocardiography, St. Antoine Hospital, Paris, France 21,22 May 2010.

• Interventional Cardiology Training on Virtual Cath Lab - Percutaneous Aortic Valve Implant (Edwards Sapien Valve) 24 May 2010, Paris, France.

• Interventional Cardiology Training on Percutaneous Mitral Valve Repair on a Simulator (Mitra Clip), 28 May 2010, Paris, France.

CONFERENCES

Dr. J. Balachander


• Symposium on Rosuvastatin Current Status, Hotel Annamalai 13 September 2009.

• 16th Annual Conference of Indian College of Cardiology, Lucknow. 30.10.09 Chair Person- Myocarditis – Diagnosis and Management. What is new? UC Samal Patna Chair Person-Symposium:- Interventional Management

• EP Symposium – Lecture: Sudden Cardiac Death. High Risk Population:- How to recognize?

• 61st Annual Conference of the Cardiological Society of India (CSI) 3 to 6 Dec 2009, Cochin, Kerala

• The Chennai Pediatric EP symposium TICEL BIOPARK FRONTIER LIFELINE, CHENNAI 9.1.2010 to 10.1.2010

• World Heart Failure Congress, PGIMER Chandigarh, 5.2.2010 to 7.2.2010.

• Advisory Council Member India Live 2010. National Course on PCI, New Delhi.

Dr. Santhosh Satheesh

International Conferences

• Euro PCR Congress 19 to 22 May 2009 Barcelona, Spain.

• European Society Of Cardiology Congress 29 August to 2 September 2009, Barcelona, Spain.

• Asia Pacific Heart Rhythm Society Annual Congress, Beijing, China Oct 22-25 2009.

National Conferences

  Case Presented - “Coronary Cameral Fistula closure using a PDA device and Coil”.

- 61st Annual Conference of the Cardiological Society of India (CSI) 3 to 6 Dec 2009, Cochin, Kerala.
  Papers Presented
  a. Left Atrial Angiogram During Percutaneous Trans-septal Mitral Commissurotomy (PTMC) – A Simple Step To Improve The Safety (Best Paper Award).
  b. Percutaneous Balloon Valvuloplasty in Concurrent Mitral, Aortic & Tricuspid Rheumatic Stenosis.

- India Live - National Course on Percutaneous cardiovascular Interventions held at Delhi, February 26 - February 28 2010 New Delhi.

- Chennai Electrophysiology Summit 2 to 4 September 2009, SRMC, Chennai.

Dr. Ajith A

International Conferences

- Indo European Revascularization course Interventional Cardiology meet Paris Nov 2009
  Papers Presented:
  a. A case of tortuous right coronary angioplasty and stenting in a patient with intermittent complete heart block.
  b. A case of Aorto ostial stenting for right coronary artery.

National Conferences

- Cardiological Society of India Annual Conference Kochi Dec 2009.
- SCAI Interventional Cardiology Fellows Course Feb 2010 New Delhi.
- India Live-Interventional Cardiology meet Feb 2010 New Delhi.

Dr. Raja Jaisundar Selvaraj

Dr. Gobu P

- 11th Annual Conference of Paediatric Cardiac Society of India at Post Graduate Institute of Medical Education and Research, Chandigarh from 23-25 October 2009.
- 61st Annual Conference of the Cardiological Society of India at Kochi, Kerala from 3rd December to 6th December 2009 and presented the following papers:
  b. A study of restenosis following balloon mitral valvotomy.
- India Live 2010 – National Course on Percutaneous cardiovascular Interventions held at Delhi, February 26- February 28 2010.
- Indo French Radial Intervention Course –IVUS-FFR 2010 on 22, 23, 24 March 2010 at JIPMER.

RESEARCH PROJECTS

A. Funded projects

Completed
1. CETP Gene Polymorphism in patients with ischemic heart disease (ICMR).
2. Genetic variants of beta(1)-adrenoceptor gene polymorphisms (Ser49Gly and Arg389Gly) and essential hypertension in a south Indian Tamil population (DBT).

Ongoing
1. Thrombinase Trial (Malladi Pharmaceuticals).
2. eNOS gene polymorphism in patients with myocardial infarction (Department of Biotechnology).

B. Departmental projects

Completed
1. Acute Pulmonary Embolism-presentation, management and outcomes.
2. Utility of left atrial angiogram during percutaneous mitral commissurotomy.
4. Concurrent mitral, aortic and tricuspid valvuloplasties in Rheumatic heart disease patients- Acute outcome and short term follow up
**Ongoing**

1. Long term follow up of post Percutaneous Transluminal Mitral Angioplasty patients to identify the predictors and risk factors for restenosis.

2. Long term follow up of Familial Hypercholesterolemia patients and their families for the effect of different lipid lowering regimens.

3. Long term follow up of patients with Left atrial thrombus and rheumatic mitral valve disease.

4. Effect of Nitroglycerine in the local anesthetic infiltration on Radial Artery Diameter by vascular ultrasound imaging.

5. Comparison of Epicardial fat and Carotid Intima-media thickness as a predictors of coronary artery disease.

6. Comparison of four regimens of cocktail injections to avoid radial artery spasm for transradial coronary angiography.

7. Long term Outcome of patients undergoing coronary artery stenting with PRONOVA and PROLINK coronary stents.

8. Profile of Pericardial Diseases with specific reference to presentation, management and long term outcome.

9. Acute and long term Patency of Radial Artery following radial angiograms and interventions - a comparison of clinical, plethysmographic and vascular ultrasound.

10. Left atrial thrombus assessment by 3D echocardiography.

11. Dysynchrony Assessment of Patients with Dilated cardiomyopathy – an M mode, Tissue Doppler and Strain Rate Imaging Study.


**C. Collaborative projects**

**Completed**

**International**

1. With St.Antoine Hospital, Paris France
   
   a. Decrease in Left Atrium Volume After Successful Balloon Mitral Valvuloplasty: An Echocardiographic and Hemodynamic Study.

   b. Right Heart Function Evolution Immediately After Successful Balloon Mitral Valvuloplasty: A Tissue Doppler Imaging Study.

**National**

1. With St Stephens, New Delhi, Southern Railway Hospital, Chennai.

   a. Radiofrequency ablation of permanent atrial fibrillation of >2 years duration And left atrial size >5 cm using 2-mm irrigated tip ablation catheter and targeting areas of complex fractionated atrial electrograms.

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Institutional
1. With department of Biochemistry, JIPMER

2. With department of Pharmacology, JIPMER
   a. CETP gene polymorphism in patients with coronary artery disease.
   b. Beta 1 Gene Polymorphisms in South Indian Population

3. With department of Medicine, JIPMER

Ongoing
International
1. French Indian Study on Anti Platelet Efficacy (FISAPE) (Lariboisiere Hospital, Paris).
2. Biomarkers in Acute Coronary Syndrome (Bio MACS) (Lariboisiere Hospital, Paris).

National
1. Rheumatic Heart Disease Profile in India (AIIMS, New Delhi).
2. INTERVENE Trial (CARE Hospital, Hyderabad).

Institutional
1. With Department of Biochemistry, JIPMER
   a. Evaluation of Homocystiene, Inflammatory Response, Oxidative Stress Parameters and Lipid Profile In Non-Diabetic Patients With Acute Coronary Syndrome.
   b. Study of Sialic Acid and Oxidative stress markers in people with Obesity.

2. With Department of Pharmacology, JIPMER
   a. Effect of CYP3A5, P2Y12,CYP2C19 and MDR1 genetic polymorphisms on platelet aggregation in patients on treatment with clopidogrel.


4. With Department of Neuro Surgery and Radiology
   a. The site and distribution of intracranial vascular abnormalities in patients with intracranial bleeds an Angiographic and CT Imaging.
PUBLICATIONS

Journals

1. Ajith A, Balachander J Dedicated Bifurcation Stents – A state of the art review Submitted to Indian Heart Journal.


PATIENT CARE SERVICES

A. Clinical

**Outpatient Services**

Mean Daily Attendance Cardiology OPD – 526

Mean Weekly Attendance for Special Clinics

- Post Intervention Clinic (Monday) – 40
- Arrhythmia Clinic (Wednesday) – 25
- Cardio Thoracic Meet (Friday) – 82
- Genetic Diseases and Lipid Clinic (Saturday) – 05

Community Outreach Services (Health Camps)

1. Karaikal Outreach Centre Health Camp 23.1.2010

**Inpatient Services**

Bed Occupancy Rate

- Cardiology Coronary Care Unit (13 beds) 97%
- Cardiology Ward (35 beds) 99%

B. Laboratory

**Non Invasive Cardiac Lab** (Mean Daily Statistics unless specified otherwise)

1. ECG 150
2. Echocardiography 070
3. Bed Side Echocardiography 003
4. Tread Mill Test 005
5. Holter 003
6. Vascular Doppler (weekly) 005
7. Dobutamine Stress Echocardiography (weekly) 002
8. Stress Myocardial Perfusion Imaging (weekly) 003
9. Foetal Echocardiography (monthly) 002
**Invasive Cardiac Catheterisation Labs** (Average Monthly statistics)

2. Coronary Interventions – 24
3. Diagnostic Cardiac Catheterisations (Adult) – 20
4. Diagnostic Cardiac Catheterisations (Pediatric) – 10
5. Peripheral Angiography – 15
6. Peripheral Interventions – 5
7. Percutaneous Balloon Valvotomies (Mitral, Aortic, Pulmonary, Tricuspid) – 20
8. Device Closure for congenital heart disease – 2
9. Pacemaker and Other Arrhythmia Device Implants – 15
10. Electrophysiological Study & RF Ablations – 10
11. Emergency Angiograms/Interventions – 10

**AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS**

**Dr. J. Balachander**

2. Life Member of the Cardiological Society of India.
3. Fellow of the Indian College of Cardiology.
4. Life-Member of the Indian Academy of Echocardiography.
5. Member of the Indian College of Interventional Cardiology.
6. Commonwealth Fellowship in Paediatric Cardiology.
7. Chairman South Zone Pacing & Electrophysiology.
8. Member from India SAARC Cardiac Society.
10. Searle Award in Cardiology 1984.
12. Member Editorial Board Indian Heart Journal from 1993-2006.
13. Senior Vice President Cardiological Society of India Tamil Nadu and Pondicherry Branch. 2000.
14. Executive Member South Asian Federation for Research in Diabetes and Atherosclerosis.
**Dr. Santhosh Satheesh**
1. Best Paper Award in Cardiological Society of India 61st Annual Conference Dec 2009, Kochi.
2. Life Member of Cardiological Society of India.
3. Life Member of Pediatric Cardiac Society of India.
4. European Association of Percutaneous Cardiovascular Interventions EAPCI Membership 2010.
5. Society for Cardiovascular Angiography and Interventions SCAI Associate Member 2010.

**Dr. Ajith A**
1. Life Member of Cardiological Society of India.
2. Society for Cardiovascular Angiography and Interventions SCAI Associate Member 2010.

**Dr. Gobu P**
1. Life Member of Cardiological Society of India
2. Society for Cardiovascular Angiography and Interventions SCAI Associate Member 2010.

**ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS**

**Dr. J. Balachander**
1. National Co-ordinator for India in Indo French Cardiac Pacemaker Programme (Stimubanque) 2009-2010.
2. Member Technical Expert UPSC for Cardiology.
3. Member Ethical Committee, SVIMS, Thirupathi.
4. Medical Council of India Inspector for DM (Cardiology) Course.
5. Diplomate of National Board Inspector for DNB (Cardiology) Accreditation for Narayana Medical College Nellore.
6. Chief Examiner for National Board of Examinations in Cardiology.
7. Examiner for DM (Cardiology) for the Universities of Kerala, Bombay, Sri Venkateswara Institute of Medical Sciences, Thirupathi, Manipal, Nizams Institute of Medical Sciences, in 2009-2010.
9. Member Ethical Committee, SVIMS, Thirupathi.

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10. Chairman, JIPMER Equipment Specs Vetting Committee for Second Phase Development.


12. Member Chairman, Purchase of Consumables/Non-consumables for the year 2009-10 (HSAPC Meeting).

13. Member, Ethics Committee Meeting, Indira Gandhi Government General Hospital and Post Graduate Institute, Pondicherry.

14. Co Guide for post graduate and PhD students in the departments of Medicine, Biochemistry, Pediatrics, Pharmacology, Physiology, Psychiatry, Immunology, Anaesthesiology.

**Dr. Santhosh Satheesh**

1. Examiner for DM (Cardiology) for the Pondicherry University.


**SIGNIFICANT EVENTS IN THE DEPARTMENT**

**Visiting Faculty (International)**

1. Prof. Patrick Henry, Professor and Head of Department, Department of Cardiology, Lariboisiere Hospital, Paris, France.

2. Dr. Victor Stratziev, Associate Professor, Department of Cardiology, Lariboisiere Hospital, Paris, France.

3. Dr. Subramaniam C Krishnan, Associate Professor of Medicine, University of California, USA.

**Visiting Faculty( National)**

1. Dr.Sriram Rajagopal, Head of the Department, Department of Cardiology, Southern Railway Head Quarters Hospital, Chennai.

2. Dr. R.Krishna Kumar, Head of the Department, Department of Pediatric Cardiology, Amrita Institute of Medical Sciences, Kochi, Kerala.

**Upgradation of Educational Facilities**

1. Increased the number of DM(Cardiology) seats from one to two in 2009 and from two to three in 2010.

2. Commenced the training of undergraduate students from Paris 7 University, Paris, France in 2010.
Upgradation of Research Facilities

1. Established TWO state of the art Digital Subtraction Angiography systems with advanced electrophysiological laboratories. (Seimens Axiom Artis Zee and Phillips Xper Allura FD20).
2. Established Vascular Doppler Research Laboratory (Acuson Sequoia 512).
3. Established Advanced Echocardiography Laboratory with Strain Rate Imaging and Three dimensional echocardiography (Philips IE33).
4. Established Coronary Doppler Wire System in Cath lab for haemodynamic research in Vascular trees (St Jude Radiflow).
5. Established Cardiac Radio-nuclide Imaging System in collaboration with Department of Nuclear Medicine (Seimens).
6. Established Cardiac CT and MRI imaging systems in collaboration with Department of Radiodiagnosis (Seimens, Philips).
7. Established point of care assay of Cardiac Biomarkers including Toponin, BNP, D dimer (Roche).

Upgradation of Patient Care Facilities

1. Two additional cardiac cath labs added making the total number of cardiac cath labs to three. This significantly decreased the waiting period for patients awaiting cardiac procedures.
2. Established a regular Radial Coronary Angiography and Angioplasty programme improving the patient comfort, decreasing complications and shortening the hospital stay of patients.
3. Established regular Electrophysiology services and Initiated Atrial Septal Device Closure.
4. Established a Advanced Echocardiography Lab with three machines which allowed same day echocardiography for all patients referred.
5. Augmented the bedside echocardiography services for intensive care by addition of Acuson X 300 Echocardiography.
7. Added 4 new ECG machines.
8.5 Cardiothoracic Surgery

Director, Senior Professor & Head
K.S.V.K. Subba Rao

Assistant Professors
B.V. Sai Chandran  M. Srikrishna Reddy

BACKGROUND INFORMATION OF THE DEPARTMENT

The Cardiothoracic and Vascular Surgery (CTVS) department was initially started as Department of Thoracic surgery in 1966 by Dr. P.S.Narayanan and later headed by Dr. S.B.Sen in 1974 and by Dr. B.k.Gupta in 1976. From 1978 to till date (2010) Dr. K.S.V.K. Subba Rao has been the head of this department. Other faculty members including Dr. Amit Banerjee, Dr. Nachiappan & Dr. Abid Jeelani have also made marked contributions for the growth of the department.

Though the first open heart operation was attempted in 1973, it was successfully performed in 1983. In 1986, the first valve replacement operation was done and in the same year regular Senior Residents were recruited. In 1988, a symposium was organized on Bronchoscopy. In 1990, it attained the privilege of conducting clinical trials for the implantation of TTK-Chitra–Prosthetic heart valve as one among the six centers chosen across the country. In 1992, the postdoctoral course (MCh) in the field of Cardiothoracic & Vascular Surgery was started. The department has also served to conduct DNB examination for Cardiothoracic Surgery.

EDUCATIONAL COURSES

A. Undergraduate Courses

B.Sc (Perfusion Technology) – a 3 year course with one year internship - at present 4 candidates have been undergoing training.

B. Higher Speciality Courses

Mch (Cardiothoracic & Vascular Surgery) – a 3 year course – at present 7 candidates have been undergoing training.

CONTINUING MEDICAL EDUCATION PROGRAMS

- Dr. B.V. Sai Chandran, Assistant professor - Attended the CME on Mitral valve repair conducted at CARE hospital, Hyderabad on 7th & 8th September 2009.

- Dr. Debasish nayak & Dr. P.Sudarsan Reddy – Senior Residents - Attended the CT CME on Cardiac Surgery conducted at SMS Medical College, Jaipur on 11th to 13th September 2009.

- Dr. Durgaprasad Rath & Dr. P.Sudarsan Reddy – Senior Residents - Attended the CT CME on Cardiac Surgery conducted at Santosham Hospital, Chennai on 19th & 20th December 2009.

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CONFERENCES

- Dr. Durgaprasad Rath & Dr. P. Sudarsan Reddy – Senior Residents - Attended the CT COMCON (All India Conference) conducted at New Delhi by Indian association of Cardiovascular – Thoracic Surgeons from 26th February to 1st March 2010.

RESEARCH PROJECTS

1. A new operation called Mid colon esophago-coloplasty for esophageal bypass using colon for corrosive strictures of esophagus in collaboration with Department of Surgery.
3. Multicentric trial of Chitra Heart valve and indigenously developed prosthetic heart valve.
4. An improved new protocol for the management of patients of Rheumatic Mitral Stenosis with pregnancy.
5. Role of Thrombolytic therapy using streptokinase for acute thrombotic occlusion of prosthetic heart valves.
6. A new cosmetic incision (inverted V) for minimally invasive surgery in congenital heart diseases.

PATIENT CARE SERVICES

A. Clinical

The department has a 32 bedded ward inclusive of 6 ICU beds with online multiparameter monitors, ECG machine, ventilators, and two operation rooms with state-of-art facilities equipped with heart lung machines, defibrillators, monitors, blood gas analysers, Intra-aortic balloon pumps, Echocardiography machine with transthoracic & transesophageal probes and etc., to conduct all types of cardio-thoracic & vascular operations. Fully furnished & air-conditioned out-patient suite with individual consultant & resident cabins are also provided.

1. Facilities to perform video-assisted thoracoscopic surgery is available.
2. All our efforts are being made to increase the total number of open heart surgery/operations and also to diversify the other complicated cardiac procedures.
3. Currently about 25-30 major operations per month, are being done, which mostly comprise of open heart surgery (about 20 per month). All these operations are done totally FREE OF COST to the poor and downtrodden patients suffering from cardiovascular & thoracic diseases with excellent results.
4. The uniqueness is that the spectrum of cases operated varies widely in each subspeciality – i.e cardiac surgery, thoracic surgery & vascular surgery. It also includes patients of different age groups ranging from infants to geriatric population.
5. Apart from the routine schedule of performing valve operations, coronary artery bypass graft (CABG) including off-pump CABG & Correction of common Congenital defects such as ASD, VSD, PDA, Tetrology of Fallot, etc other complex cardiac operations like Repair of thoracic aortic aneurysm, redo-double valve replacement and other redo-open heart operations are also being performed.

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6. The main bulk of thoracic operations include lobectomy, pneumonectomy, decortication of lung, excision of mediastinal tumors. Midcolon Cervical Esophagocoloplasty were performed in collaboration with the department of surgery. Excision of Chest wall tumor and reconstruction of the chest wall with acrylic ribs are also being done in collaboration with the department of plastic surgery. Tracheal repairs were also done.

7. Excellent results are achieved in the operation for decompression of thoracic outlet syndrome with various approaches especially transaxillary excision of cervical rib.

8. Various types of vascular operations are done including repair or bypass graft of peripheral arteries, embolectomy, Aortobifemoral bypass grafts, carotid transposition of subclavian artery.

B. Laboratory

1. There is an endoscopy suite equipped with facilities to perform rigid & flexible bronchoscopy with video screen.

2. Rigid Esophagoscopy is performed in special cases.

3. Transthoracic Fine Needle Aspiration for Cytology – is being done as out-patient procedure routinely.

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS
Dr.K.S.V.K.Subbarao

1. **Fellowships:** Awarded W.H.O.Fellowship for 6 months in 1992-93 to update the recent advances in Cardio Vascular and Thoracic surgery from Texas Heart Institute, Houston & Mayo Clinic Rochester U.S.A.

2. President of the JIPMER Scientific Society for the year 1990.

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS
Dr.K.S.V.K.Subbarao

**Administrative posts:** Has governed various posts as Dean, Medical Superintendent, Director & Additional director General of Health services.

**Examiner:** Examiner for M.Ch.(Cardio Vascular &Thoracic surgery) for Bangalore University, Calicut University, Bombay University, Delhi University, University of Health Sciences (A.P.), Dr.M.G.R.Tamil nadu Medical University Sree Chitra Tirunal Institute (Trivandrum), University of Kerala, Pondicherry University.

**Membership and Fellowship of the various Professional bodies**

1. Fellow of National Academy of Medical Sciences.

2. Member of Indian Medical Association.

3. Member of International association of Thoracic and cardio vascular Surgeons

Dr. B.V.Sai Chandran

Membership and Fellowship of the various Professional bodies

1. Member of European Association for Cardio-Thoracic Surgery.
2. Member of Indian Association of Cardio Vascular and Thoracic Surgeons.
3. Attended three times as a Member of Expert committee for the Technical Evaluation of Medical Equipment for CTVS department under PMSSY scheme of ministry of Health & Family Welfare at New Delhi.
4. Member of the Emergency Medical Team during the VIP visits to the region.
5. Represented as a member in Hospital Stores Purchase of Consumables and Articles Committee.
6. Participated as a Special Invitee in Sutures and hospital Disinfectants Monitoring Committee.

Dr. M. Srikrishna Reddy

Membership and Fellowship of the various Professional bodies

1. Member of European Association for Cardio-Thoracic Surgery.

SIGNIFICANT EVENTS IN THE DEPARTMENT

Educational

1. The number of postgraduate seats for MCh (CTVS) has been increased from two per year to three seats per year.
2. The training course for the perfusionist – BSc. Perfusion technology (Four year course) is started recently.

Patient Care services

1. Recently the department was provided with state-of-art twin modular hi-tech operation theatres, modern facilities for postoperative intensive care unit and wards with central air-condition system.
2. More complex operations have been performed successfully at present, such as, replacement of ascending aorta & aortic arch for aneurysm, Bentall operation, One stage correction of Coarctation of aorta by Ascending aorta to descending aorta bypass graft with simultaneous correction of other anomaly requiring open heart surgery, One stage – combined CABG with Aorto-bifemoral bypass graft, Video assisted thoracoscopic surgery, etc.
3. To summarize, all operations for cardiothoracic & vascular surgical diseases can be performed with the present facilities.
BACKGROUND INFORMATION OF THE DEPARTMENT

The Department of Dentistry currently has 4 dental chairs along with modern dental equipments and provides quality dental care to the patient population. There is also an attached clinical laboratory which is dedicated for the fabrication of dental and maxillofacial prosthesis.

EDUCATIONAL COURSES

A. Undergraduate Courses

The department undertakes its teaching programme for undergraduate (MBBS) Students. During their clinical posting, the students are exposed to dental procedures being performed which help them obtain a basic knowledge of common dental and maxillofacial pathologies. The department also conducts classes in Emergency Management of Maxillofacial injuries for Trauma Technician (Diploma) students.

CONTINUING MEDICAL EDUCATION PROGRAMS

Faculty and residents attended a one day CME Programme on HIV & Opportunistic Infections conducted by the Department of Microbiology, JIPMER, Puducherry, held on 16th February 2010.

CONFERENCES

Dr. B. Krishnan, Assistant Professor was a member of Organizing Committee of NABICON 2010, organized by the Department of Plastic Surgery, JIPMER held on 29th - 31st January 2010.

Dr. S. Balanand, Junior Staff Surgeon, was a member of Organizing Committee of NABICON 2010, organized by the Department of Plastic Surgery, JIPMER held on 29th January - 31st January 2010.
PUBLICATIONS

A. Journals


PATIENT CARE SERVICES

The department performs variety of dental procedures like extractions, restorations, implant surgery, oral prophylaxis, removable and fixed prosthesis, maxillofacial prosthesis, root canal treatment etc. The Department also helps in fabrication of prosthesis following plastic surgical, gynecological and CTVS procedures. Maxillofacial trauma & reconstruction, orthognathic surgeries, maxillofacial pathologies and oncology procedures are also performed. Facilities for digital periapical radiographs are also available. Faculty and residents have participated in Health Camps conducted by JIPMER at Keezhkoothapakkam (July 2009), Semangalam (July 2009) and Kadaperikuppam (August 2009).

A total of 21,596 patients were examined and procedures performed in 2009-2010:

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Name of the Procedures</th>
<th>Total Nos.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Extractions</td>
<td>4,386</td>
</tr>
<tr>
<td>2</td>
<td>Restorations</td>
<td>1,338</td>
</tr>
<tr>
<td>3</td>
<td>Scaling</td>
<td>938</td>
</tr>
<tr>
<td>4</td>
<td>Prosthesis</td>
<td>323</td>
</tr>
<tr>
<td>5</td>
<td>Root Canal Treatment</td>
<td>165</td>
</tr>
<tr>
<td>6</td>
<td>Orthodontic Appliance(Fixed / Removal)</td>
<td>75</td>
</tr>
<tr>
<td>7</td>
<td>Minor Surgery</td>
<td>755</td>
</tr>
<tr>
<td>8</td>
<td>Major Surgery</td>
<td>79</td>
</tr>
</tbody>
</table>

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. B. Krishnan, joined as Assistant Professor of Dentistry on January 2010.
BACKGROUND INFORMATION OF THE DEPARTMENT

Dr. A. Velou was the founder of the department (1960-1968) followed by Dr. Sardari Lal (1968-1969), Dr. B.M.S. Bedi (1970-1972), Dr. B.R. Garg (1972-1973), Dr. Sardari Lal (1973-1982), Dr. B.R. Garg (1982-1996) and Dr. D.M. Thappa (1996 onwards). The M.D. degree course in Dermatology, Venereology & Leprosy (3 candidates per year) was started in the year 1973 and in 1986 Diploma in Leprosy (2 candidates each year) was introduced. From 2010, Diploma in Leprosy (which was earlier converted into Diploma in Dermatology, Venereology and Leprosy) was abolished and all the five postgraduate course seats were changed to MD degree course in Dermatology, Venereology & Leprosy.

The department has the distinction of having editors from here for various journals. Indian Journal of Sexually Transmitted Disease had its first Editor Dr. Sardari Lal (1980-1991). Dr. D.M. Thappa, had been the Editor of Indian Journal of Paediatric Dermatology from 2004-2009. From 2009 onwards Dr. D.M. Thappa has become the Editor of Indian Journal of Dermatology, Venereology and Leprology. He is also an author and editor of three books:

- Textbook of Dermatology, Venereology & Leprology.
- Essentials in Dermatology with MCQs.
- Clinical Paediatric Dermatology.

The department has expanded since its inception and diversified its activities with leprosy clinic established in 1964 and STD clinic established in 1973. Dermtosurgery was introduced for the first time in the year 1996. The Department has been active in the conduct of various workshops/ conferences:

- W.H.O. workshop on Epidemiology and control of Leprosy, 1st-7th December 1981.

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• V National Conference of Indian Association of Study of Sexually Transmitted Diseases, 1981.
• Symposium on Continued Medical Education on S.T.D., 1981.
• 6th South Zone Conference of Indian Association of Dermatologists, Venereologists & Leprologists, 13th -15th September, 1996.

EDUCATIONAL COURSES

A. Undergraduate Courses
The department continues with its undergraduate UG teaching programmes which include MBBS (two semesters), B.Sc(Nursing) and M.R.Sc.(Medical Record).

B. Postgraduate Courses
These include three MD and two Diploma in Dermatology, Venereology and Leprology till 2009. From 2010, all postgraduate courses had been made as five MD Dermatology, Venereology and Leprology.

C. Other Courses
The summer training in research was provided to MBBS students from JIPMER. One MBBS student conducted a project work in the department under short term project work of ICMR.

CONTINUING MEDICAL EDUCATION PROGRAMS

Dr. D.M. Thappa was the chairperson for the scientific committee for the Annual Conferences of IADVL Branch Pondicherry in 2009-10.

CONFERENCES

National

Dr. DM Thappa

• Dr. D.M. Thappa, Head of the department of Dermatology & STD has delivered a Guest Lecture on “Oral Blistering Disorders – Dermatologist Perspective” at Mahatma Gandhi Postgraduate Institute of Dental Sciences, Puducherry on 16.07.09.

• Dr. D.M. Thappa, Head of the Department of Dermatology & STD and two of the final year postgraduates participated in the ASTICON 2009, 33rd National Conference of Indian Association for the Study of Sexually Transmitted Diseases & AIDS held at Khajuraho, M.P., from 23rd to 25th October 2009. He delivered guest lecture on “Genital Herpes Update” in the CME programme. The second guest lecture was on “What we should learn from Kamasutra” in the conference. He also chaired a session and was a panelist on the panel discussion on “Syndromic Management of STD, does it really work?”.

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Dr. D.M. Thappa, Head of the Department of Dermatology & STD, one Senior Resident and four postgraduates participated in the 7th Annual Conference of Indian Society for Paediatric Dermatology held at Taj Coramandel, NH Road, Chennai on 7th & 8th November 2009. He participated in the debate “Oral Steroids are needed in Vitiligo”

Dr. D.M. Thappa, Head of the Department of Dermatology & STD and four postgraduates participated in the 38th National Conference of Indian Association of Dermatologists, Venereologists and Leprologists held at Lucknow from 07th to 10th of January 2010.

Dr. D.M. Thappa being the Chief Editor of Indian Journal of Dermatology, Venereology & Leprology participated in IADVL Association activities.

Dr. D.M. Thappa was the co-editor of the book “History of IADVL (1973-2009)” released during the conference. He contributed three chapters in this book also.

Dr. D.M. Thappa was a panelist on the panel discussion on “Acne Symposium (sponsored by Galderma) Thank God for Acne”.

Dr. D.M. Thappa delivered a guest lecture on “All the latest in genital herpes”

Dr. D.M. Thappa participated in a debate “Controversies in Dermatology”. The topic allotted was “Leprosy will never be eradicated” and he spoke against the motion.

Dr. D.M. Thappa, Head of the Dept. of Dermatology & STD, Dr. T.J. Jaisankar, Professor of Dermatology & STD, Senior Residents & Postgraduates of the Dept. of Dermatology and STD participated the 19th Annual Conference of Indian Association of Dermatologists, Venereologists and Leprologists, Pondicherry Branch on 24th January 2010 at 9.00 a.m. at the Sunway GRT Grand, Pondicherry.

Dr. D.M. Thappa was the Chairman for Scientific Committee and chaired the session on “Psychocutaneous Medicine” by Dr. K. Matheenthiran, President, IADVL, Pondicherry Branch and award paper session.

Dr. T.J. Jaisankar

Dr. T.J. Jaisankar, Professor of Dermatology & STD and Dr. Dependra Kumar Timshina & Dr. Rajesh.G, postgraduates of this department attended the conference TRICHOCON-II and I-Shop at Coimbatore from 17th to 19th July 2009.

International

Dr. DM Thappa

Dr. D.M. Thappa, Head of the Department of Dermatology & STD attended the workshop on “Laser Treatment and its Applications in Dermatology” held on Kasemrad Hospital, Bangkok on 16th & 17th of November 2009 as a Guest speaker on “Vascular and pigmented lesions treatments with lasers on Indian skin”.

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RESEARCH PROJECTS

Departmental Projects

**Completed**
- Lichen Simplex Chronicus of the anogenital region – A clinico etiological study- Dr. Rajalakshmi
- Clinical study of pigmentary disorders in children-Dr. Tukaram Sori.

**Ongoing**
- Clinical & investigative study of chronic Urticaria-Dr. M. Malathi.
- A Clinico pathological study of cicatricial alopecias and their psychosocial impact-Dr. Pratibha Pradhan.
- Spectrum of seborrheic keratosis – a clinical and dermoscopic study-Dr.Rajesh.
- A clinical study of dermatosis in diabetes to establish its markers-Dr. Dependra Kumar Timshina.
- A Clinical study of pattern of aging skin changes and dermatoses in the elderly-Dr. Priya Cinna T. Durai.
- Clinico-investigative study of T. vaginalis infection in women-Dr. Sivaranjini.

PUBLICATIONS

A. Journals

Publications of Dr. DM Thappa, Additional Professor and Head


B. Books

Dr. D.M. Thappa authored a new book in the year 2009


Dr. D.M. Thappa authored 2 revised editions of books in the year 2009


C. Book Chapters

Dr. D.M. Thappa contributed chapters to following books

API Textbook of Medicine, 8th edition, Mumbai: The Association of Physicians of India 2008 by Siddharth N. Shah (Protozoal and parasitic skin infection and infestations by DM Thappa and Rashmi Kumari).


Dr. D.M. Thappa is an Editor-in-Chief for the Indian Clinical Updates – Dermatology, Wiley Blackwell Publications.

PATIENT CARE SERVICES

A. Clinical

The department had an OPD attendance of 41334 and STD attendance of 185 patients in its four sections dealing with skin diseases (both male and female), venereal diseases and Hansen’s
diseases. Special OPD clinics included follow-up patients with Vitiligo, Hansen’s disease and other chronic dermatoses like psoriasis etc. Dermato-surgical procedures done at OPD included punch grafting for Vitiligo, electro-cautery, PUVA therapy and cryosurgery. During the period from 01.04.2009 to 31.03.2010 a total of 522 patients attended FUC clinic and 723 patients attended Leprosy clinic. A total number of 248 patients were treated as in-patient at ward 33 and 286 patients at 02 ward.

B. Laboratory

Total Registered : 10860
1. Skin Scrapings for fungus : 5412
2. Nail Clippings for fungus : 960
3. Hair Clippings for fungus : 120
4. Gram Smear : 1212
5. Tzanck Smear : 1140
6. Hair Shaft Examination : 12
7. Oil Mount Examination : 168
8. Wet Mount Examination : 156
9. Anagen Telogen Ratio : 168
11. Zeil Neilson stain for Tuberculous bacilli : 72
12. Hb, TLC, DLC : 36
13. ESR : 60
14. Urine analysis : 444
15. Stool analysis : 408

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr. DM Thappa

1. Dr. DM Thappa was the Editor of Indian Journal of Dermatology, Venereology & Leprology – published 6 issues and 2 supplements in 2009.

2. Dr. DM Thappa was awarded “Award of Excellence” for the exemplary services to the association and profession by Indian Association for the Study of Sexually Transmitted Diseases & AIDS (IASSTD & AIDS) in ASTICON 2009, 33rd National Conference of Indian Association for the Study of Sexually Transmitted Diseases & AIDS held at Khajuraho, MP from 23rd to 25th October 2009.

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3. Dr. DM Thappa has undergone XXXV National Course on Education Science for Teachers and WHO Fellowship on STD/AIDS, University of Washington, Seattle, USA (1999).

4. Dr. DM Thappa is the fellow International Medical Sciences Academy (2000), Member National Academy of Medical Sciences (2000), life member of Indian Association of Dermatologists, Venereologists, and Leprologists (IADVL), life member of Indian Association for the study of Sexually Transmitted Diseases and AIDS (IASSTD&AIDS), life member of Indian Association for Leprologists (IAL), life member of Indian Society of Pediatric Dermatology (ISPD), life member of Indian Medical Association (IMA), core committee member of Contact and occupational Dermatoses Forum of India (CODFI), life member of Cosmetology Society of India (CSI) and member of International Society of Dermatology (2010).

5. He is the inspector for Diplomate National Board of Examination and Medical Council of India.

Dr. TJ Jaisankar

1. Dr. TJ Jaisankar is the life member of Indian Association of Dermatologists, Venereologists, and Leprologists (IADVL) and rotary club member of Pondicherry. He is also the inspector for Medical Council of India.

Dr. Laxmisha Chandrashekar

1. Dr. Laxmisha Chandrashekar is the life member of Indian Association of Dermatologists, Venereologists, and Leprologists (IADVL), and also a member of the European Academy of Dermatology and Venereology, and International Society of Dermatology.

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Besides indoor and outdoor services, the department also participates in community health camps organized in collaboration with Preventive and Social Medicine, JIPMER, Pondicherry.

SIGNIFICANT EVENTS IN THE DEPARTMENT

The department has acquired Q Switched Nd:YAG laser, Nd:YAG long and short pulse laser, Intense pulse light and Co2 laser and is in the process of setting up cosmetology and laser center.
BACKGROUND INFORMATION OF THE DEPARTMENT

The Department of Endocrinology was started in the month of January of 2010 with appointment of assistant professors, Dr. Sadish Kumar @ Kamalanathan and Dr.Madhukar Mittal. They both worked under the guidance of Dr.Abdoul Hamide, Professor of Medicine. The blueprint for the department was prepared by them. Unfortunately Dr.Madhukar Mittal had to resign his post shortly after joining for personal reasons. Dr. Sadish Kumar @ Kamalanathan is carrying forward the Endocrine services. The department got services of junior resident from the month of March.

EDUCATIONAL COURSES

DM course for Endocrinology is currently not there and is expected in near future.

CONFERENCES

Dr. Sadish Kumar @ Kamalanathan attended National Endocrine Society of India conference (ESICON) held at Udaipur on 9-11 Oct. 2009.

PATIENT CARE SERVICES

The outpatient specialist Endocrinology services were started in the month of February. It was conducted on every Tuesdays from 9 a.m to 4 p.m.

Endocrine OPD Services

<table>
<thead>
<tr>
<th>Month</th>
<th>Old</th>
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<td>February 2010</td>
<td>386</td>
<td>47</td>
<td>433</td>
</tr>
<tr>
<td>March 2010</td>
<td>421</td>
<td>68</td>
<td>489</td>
</tr>
</tbody>
</table>

Interdepartmental Consultations

<table>
<thead>
<tr>
<th>Month</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>February 2010</td>
<td>37</td>
</tr>
<tr>
<td>March 2010</td>
<td>41</td>
</tr>
</tbody>
</table>
The following patient care activities were implemented in Endocrinology Clinic.

1. Thyroid registry was started.

2. Assessment and enrollment of Graves' disease and toxic multinodular goiter for radioablation.

3. Pituitary dysfunction registry was started.

Endo-nuclear Medicine meet every month to review the case in the last 1 month.

**SIGNIFICANT EVENTS IN THE DEPARTMENT**

Endocrinology & Diabetes Health camp was conducted in JIPMER Outreach Centre, Karaikal on 13/03/10. A health talk on diabetes and a interactive session with general public to clear their misapprehensions was conducted.
BACKGROUND INFORMATION OF THE DEPARTMENT

The origin of Department of Oto-Rhinolaryngology & Head Neck Surgery dates back to November 1956 when Ecole De Medicine De Pondicherry established in 1823 (maintained by the French Government) was taken over by Government of India.

Dr. O.P. Gupta (retired as Professor of ENT, BHU Varanasi) was the first Head of the Department followed by Dr. Hullgol of Bombay University.

Dr. P.B. Rao, M.S., FRCS, became Professor and Head of ENT Department in 1965 during which period the microsurgery of the ear and larynx were undertaken with highly gratifying results. Prof. K.L. Sawhney took up the reign after him followed by Prof. N.K. Majumdar, who started all types of major Head & Neck surgeries for malignancies of upper airway and anterior skull base surgery from 1986.

The Department has been doing Functional Endoscopic Sinus Surgery (Video Monitored) from 1995 with highly gratifying results. The Department has been using Microdebriders/Tissue shaver in the Functional Endoscopic sinus surgery from 1999. The Audiology Section is equipped with GSI 33 & GSI 61 Audiometers from 1996. The sophisticated BERA and OAE have been installed in the Department from the year 1998 to facilitate enhanced audiological evaluation.

EDUCATIONAL COURSES

A. Undergraduate Courses

Classes are undertaken for Undergraduate students (VI & VII semesters) This includes theory classes of about 70-80 hours and practical /clinical postings for 8 weeks. The students are divided into 4 batches and they undergo the clinical and practical training in rotation during the VI and VII semesters in this speciality and their performance is assessed by the senior faculty by the marks obtained in the periodical/scheduled tests.

B. Postgraduate Courses

Postgraduate Degree course (M.S., (ENT)) was started in 1969 with yearly intake of 2 postgraduates and their training programmes are undertaken as per the guidelines/directions of JIPMER duly following the protocol for teaching activities as per the MCI guidelines. The programme for the postgraduate students includes weekly case presentation, topic
presentation/seminars. & journal club once in two weeks. The PG residents get trained in the operative work under the supervision of the faculty members in phased and graded manner. They also get their training in the research methodologies when they carry out their PG dissertation work after obtaining the required approval from PG committee and Ethical committee.

CONFERENCES

List of Conferences/Workshops attended between 01/04/2009 and 31/03/2010.

Dr. S. Gopalakrishnan

- had attended the “Frontal 2009” programme organized on 20th and 21st November, 2009 at Cochin.

- had attended with Dr. M. Kiruba Shankar, Junior Resident & Dr. G. Sivaraman, Senior Resident the “18th FESS Workshop” held at PD Hinduja Hospital, Mumbai conducted by Dr. M.V. Kirtane from 18th to 20th September, 2009.

- Dr. M. Kiruba Shankar, Junior Resident had won 30 degree STORZ Endoscope worth Rs. 80,000/- in the open quiz conducted by the Organizers of the above workshop in which PG participants (Post graduates and Specialists) from various countries like South Africa, Nigeria and Middle east countries.

- had attended with Dr. Nirmal @ Shanmugasundaram, Junior Resident the “Indo-US Emergency medical Summit” held at Coimbatore PSG Medical College and Research Institute, in October, 2009 – and Dr. Nirmal presented a paper/poster presentation entitled “Unusual presentation of foreign body, fish in Nasopharynx” in the above said conference.

Dr. Sunil Kumar Saxena

- attended AOICON 2010 held at Mumbai from 7th to 8th January, 2010.

Dr. Pradipta Kumar Parida

- had attended the “60th National Teacher Training Course (NTTC)” for teachers of health professionals held at JIPMER from February, 17th to 27th 2010.

- had attended with Dr. J. Madana, Senior Resident & Dr. G. Sivaraman, Senior Resident the “Workshop on Thyroid disorders” conducted at JIPMER by Department of Medical Endocrinology.

RESEARCH PROJECTS

A. Departmental projects

Completed

1. An open label comparative study of intrasal fluticasone and budesonide in post operative management of ethmoidal polynosis.

2. Efficacy of surgical turbinoplasty and radiofrequency volumetric tissue reduction in treatment of inferior turbinate hypertrophy.

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On going

1. A descriptive study of Bronchial foreign bodies in children.
2. The role of Mitomycin-C in functional endoscopic sinus surgery.

B. Collaborative Projects

On going

1. “Cyto – Histopathological Correlation of the Follicular Lesions of thyroid” with the Department of Pathology, JIPMER, Puducherry (as a Co-Guide by Dr. S. Gopalakrishnan Prof and Head of ENT.

2. “To measure degree of hearing loss in patients of Squamous cell carcinoma of the head & neck receiving Cisplatin based chemotherapy” with the Department of Radiotherapy (as a Co-Investigator by Dr. Arun Alexander, Asst Prof of ENT.

3. “Incidence of metachronus and synchronous second primary in head and neck malignancy (5 years study)” (as a co-investigator by Dr. Pradipta Kumar Parida, Asst Prof of ENT) with the Department of Surgical Oncology.


PUBLICATIONS

Journals


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PATIENT CARE SERVICES

The Department of ENT is running regular OPD services in all working days from 8.30 am to 1.30 pm with the daily OPD attendance of approximately 250. Besides regular OPD, a special ENT cancer clinic is run on Tuesday afternoon wherein the average OPD attendance is about 80 (approximately).

The in-patient services are provided from the Department of ENT with the bed strength of 30 (19 – male and 11 female). The bed occupancy rate is approximately 98.35% last year with turn over interval 1.2.

The average number of surgeries done in the main Operation Theatre per month is 150-200 approximately. The number of procedures done in the minor OT& emergency services range from 125-150 per month.

With the addition of new sophisticated equipments such as Video monitored nasal endoscopic equipments with the documentation facilities, Binocular operating microscope, Microdebrider, CO₂ & Diode laser etc., the Department has been doing more sophisticated micro surgery of the ear and larynx, head and neck cancer surgery and various types of functional endoscopic sinus surgery with highly gratifying results.

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS


ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

1. DHLS (Diploma in Hearing and Language Speech) Course, for 1 year duration through e-mode the first of its kind in JIPMER (under Manipal University recognized by RCI) is being conducted at JIPMER under the aegis of Host Institute of All India Institute of Speech and Hearing (AIISH), Mysore at JIPMER Study center from 2007. Two batches have already completed and the third batch during 2009-10 (16 candidates) has appeared their final theory examination during May, 2010 and results awaited. The programme is being funded by AIISH, Mysore to meet the expenditure pertaining to stipend to students, salary to the contract staff, day to day miscellaneous expenses etc. Dr. S. Gopalakrishnan has been acting as the local co-ordinator for the above programme.

2. Dr. S. Gopalakrishnan had acted as adviser to UPSC and had undertaking the assignments by MCI as Inspector in various Medical colleges for starting of UG and PG courses. At the Institute level, he has been acted as active member of the Hospital Purchase Committee and Operating Services Monitoring Efficiency Committee.

SIGNIFICANT EVENTS IN THE DEPARTMENT

The Rehabilitation Council of India had undertaken an inspection in the month for the purpose of granting recognition to run the Diploma in Hearing Language and Speech (DHLS) (1 year course) in JIPMER Study center.

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BACKGROUND INFORMATION OF THE DEPARTMENT

Ever since JIPMER was inaugurated in 1966, the subject of Forensic Medicine was looked after by the department of Pathology including the Postmortem, till 1987. Dr. Sharif was the first professor of Forensic Medicine under whose control the department was created. He was assisted by two faculty members Dr. Atul Murari and Dr. A. Sahai. At present, there is an assistant professor Dr. K.K. Shaha in the department. With effect from 1999, the Medico legal Postmortems are brought under the control of the Medical Superintendent till date.

EDUCATIONAL COURSES
Undergraduate Courses
The department is actively engaged in teaching undergraduate students.

RESEARCH PROJECTS
Departmental Projects
Ongoing
Stature estimation from hand length in Adults.

PUBLICATIONS
Journals

PATIENT CARE SERVICES
Clinical
1. The department conducts Medico Legal Postmortem and the number is around 675 in the year 2009 – 10.
2. Doctors of the department also attend Court as experts.
8.11 Medical Education

Professor & Head
Santosh Kumar

Assistant Professor of Educational Technology
Z. Zayapragassarazan

CORE GROUPS

I. National Course on Educational Science for Teachers of Health Professionals

Core Group
1. Dr. K.S.V.K. Subba Rao, Director, JIPMER & Project-Director, NTTC, JIPMER.
2. Dr. K.S. Reddy, Dean, JIPMER.
3. Dr. P.H. Ananthanarayanan, Professor & HOD of Biochemistry.
4. Dr. Santosh Kumar, Professor & HOD of Med. Education & Urology (Coordinator).
5. Dr. B. Vishnu Bhat, Professor of Paediatrics.
6. Dr. Latha Chaturvedula, Additional Professor of Obstetrics & Gynaecology.
7. Dr. D. Kadambari, Additional Professor of Surgery.
8. Dr. Aparna Agarwal, Professor of Medicine.
9. Dr. B. Gitanjali, Professor of Pharmacology.
10. Dr. Debdutta Basu, Professor of Pathology.
11. Dr. M. Bala Soudarssanane, Professor & HOD of P&SM.
12. Dr. R.P. Swaminathan, Professor of Medicine.
13. Mr. Z. Zayapragassarazan, Assistant Professor of Educational Technology.

II. Interns Orientation Program on Quality Care

Core Group
1. Dr. P.H. Ananthanarayanan, Professor & HOD of Biochemistry.
2. Dr. Santosh Kumar, Professor & Head, Dept of Medical Education (Coordinator).
3. Dr. A. Tumbanatham, Deputy Medical Superintendent.
4. Dr. S.P. Subbaiah, Medical Officer, Blood Bank.
5. Dr. M.J.E. Ambroise, Additional Medical Superintendent.

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6. Dr. T. Kadhiravan, Assistant Professor, of Medicine.
7. Dr. Gautam Roy, Professor, of PSM.
8. Dr. M. Balasoudarssanane, Professor & HOD of PSM.
9. Dr. B. Gitanjali, Professor of Pharmacology.
10. Dr. Aparna Agrawal, Professor of Medicine.
11. Dr. D. Kadambari, Additional Professor of Surgery.
12. Dr. Dasari Papa, Additional Professor of Obstetrics & Gynaecology.
13. Dr. Debdutta Basu, Additional Professor of Pathology.
14. Dr. Soundravally, Assistant Professor of Biochemistry.
15. Dr. Jharna Mandal, Assistant Professor of Microbiology.
16. Dr. Abdoul Hamide, Professor of Medicine.
17. Dr. R. P. Swaminathan, Professor of Medicine.
18. Dr. S. Mahadevan, Professor of Pediatrics.

III. First Year Postgraduate Orientation Programme on Research Methodology, Communication and Ethics

**Core Group**

Dr. Santosh Kumar, HOD of Medical Education (Coordinator).

*Research Methodology, Research Protocol Writing & EBM*

1. Dr. Santosh Kumar, HOD of Medical Education, Coordinator.
2. Dr. Ajit Sahai, Director-Professor of Biometrics.
3. Dr. R. P. Swaminathan, Professor of Medicine.
4. Dr. S. Mahadevan, Professor of Pediatrics.
5. Dr. B. Gitanjali, Professor of Pharmacology.
6. Dr. R. Raveendran, Professor of Pharmacology.
7. Dr. M. Bala Soudarssanane, Professor & HOD of P & SM.

*Ethics*

1. Dr. N. Biswal, Professor of Paediatrics, Coordinator.
2. Dr. Latha Chaturvedula, Professor of Obstetrics & Gynaecology.
3. Dr. D. Kadambari, Additional Professor of Surgery.
4. Dr. T. Kadhiravan, Asst. Professor of Medicine.
Micro Training on Journal Club
1. Dr. B. Vishnu Bhat, Director Professor of Paediatrics, Coordinator.
2. All Heads of P.G. Training Departments.

IV. Third year Postgraduate Orientation Programme on Research Methodology
Core Group
1. Dr.P.H.Ananthanarayanan, Professor & HOD of Biochemistry.
2. Dr. Santosh Kumar, Professor & HOD of Medical Education (Coordinator).
3. Dr. Ajit Sahai, Director-Professor of Biometrics.
4. Dr. R.P. Swaminathan, Professor of Medicine.
5. Dr. S. Mahadevan, Professor of Paediatrics.
6. Dr. B. Gitanjali, Professor of Pharmacology.
7. Dr. R. Raveendran, Additional Professor of Pharmacology.
8. Dr. M.Bala Soudarssanane, Professor & HOD of P&SM.
9. Dr. T. Kadhiravan, Assistant Professor of Medicine.

V. JIPMER News Editorial Board
Editor-in-chief
1. Dr. K.S.V.K. Subba Rao, Director.

Editorial Committee
1. Dr. Santosh Kumar, Professor & HOD of Medical Education.
2. Dr. C. Adithan, Professor & HOD of Pharmacology.
3. Dr. G.K. Pal, Professor of Physiology.
4. Mr. Z. Zayapragassarazan, Assistant Professor of Educational Technology.
5. Miss. V. Sudha, Deputy Director (Admin).
6. Mr. A. Rajavelu, Officer-in-charge, Press.

VI. NTTC Bulletin Editorial Board
Patrons
1. Dr. K.S.V.K. Subba Rao, Director, JIPMER & Project-Director, NTTC, JIPMER.
2. Dr. K.S. Reddy, Dean, JIPMER.

Editor
1. Dr. Santosh Kumar, Professor & HOD of Medical Education & Urology.
**Editorial Board**

1. Dr. P.H. Ananthanarayanan, Professor & HOD of Biochemistry.
2. Dr. B. Vishnu Bhat, Professor of Paediatrics.
3. Dr. Latha Chaturvedula, Additional Professor of Obstetrics & Gynaecology.
4. Dr. D. Kadambari, Additional Professor of Surgery.
5. Dr. Aparna Agarwal, Professor of Medicine.
6. Dr. B. Gitanjali, Professor of Pharmacology.
7. Dr. Debudatta Basu, Professor of Pathology.
8. Dr. M. Bala Soudarssanane, Professor & HOD of P&SM.
9. Dr. R.P. Swaminathan, Professor of Medicine.
10. Mr. Z. Zayapragassarazan, Assistant Professor of Educational Technology.

**BACKGROUND INFORMATION OF THE DEPARTMENT**

The first National Teacher Training Centre (NTTC) was established in the year 1975 at JIPMER as part of the World Health Organization’s initiative to promote a global training program for medical teachers on Educational Science and Technology and with financial support from WHO. The first National Course on Educational Science for Teachers of Health Professionals was held in March 1976. The National Courses on Educational Science for Teachers of Health Professionals have been regularly held twice a year during the months of February and September.

So far sixty such National Courses have been conducted and a total of 1352 participants have been trained. The purpose of these National Courses is to empower medical teachers to make medical education skill oriented and need based and also to help in setting up or improving Medical Education Units/Departments in their own institutions. Since the discontinuation of grant-in-aid from WHO in the year 1999, the National Teacher Training Centre has been upgraded to the Department of Medical Education and the financial support for conducting the National Courses is provided by JIPMER.

The National Teacher Training Centre, JIPMER and the Department of Medical Education, JIPMER have also provided consultancy services for establishment of Medical Education Units in several medical colleges (Raja Muthiah Medical College, Chidambaran; Jawaharlal Nehru Medical College, Belgaum; Kasturba Medical College, Manipal; Medical Colleges at Trivandrum, Vishakhapatnam and Coimbatore) and for development of Master Trainers for Tamil Nadu Dr. MGR Medical University, Chennai; Training of Trainers (TOT) workshops for health services development projects of Tamilnadu, Andhra Pradesh, Karnataka, Kerala and West Bengal have also been conducted.

The Department of Medical Education has also been regularly organizing Interns Orientation Program on quality care and Postgraduate Orientation Program on Communication, Ethics and Research Methodology.
EDUCATIONAL COURSES

Other Courses

The department conducts the following short term training programmes:

1. National Courses on Educational Science for Teachers of Health Professionals (Twice a year).

   59th National Course on Educational Science for Teachers of Health Professionals was held on September 9 to 19 in 2009 at JIPMER, Pondicherry.

   60th National Course on Educational Science for Teachers of Health Professionals was held on February 17th to 27th in 2010 at JIPMER, Pondicherry.

2. Interns Orientation Programme on Quality Care.

   Interns Orientation Programme on Quality Care for the year 2010 was held on January 27, 28 and 29 in 2010 at JIPMER, Pondicherry.

3. First Year Postgraduate Orientation Programme on Research Methodology, Communication and Ethics.

   First Year Postgraduate Orientation Programme on Research Methodology, Communication and Ethics for the year 2009 was held on August 12, 13 and 17 in 2009 at JIPMER, Pondicherry.

4. Third Year Postgraduate Orientation Programme on Research Methodology.

   Third Year Postgraduate Orientation programme on Research Methodology for the year 2009 was held on April 27, 28, 29 and 30 in 2009 at JIPMER, Pondicherry.

CONTINUING MEDICAL EDUCATION PROGRAMMES

Telemedicine Programme Committee

- Dr. K.S.V.K. Subba Rao, The Director, JIPMER.
- Dr. A.K. Das, Medical Superintendent.
- Dr. S. Badrinath, Project Coordinator.
- Dr. K.S. Reddy, Dean.
- Dr. Santosh Kumar, Professor & Head, Departments of Urology and Medical Education.
- Dr. Ajit Sahai, Director-Professor of Biometrics.
- Dr. J. Balachander, Professor & Head of Cardiology.
- Dr. Ramachandra Rao, Professor & Head of Anatomy.
- Dr. S. Mahadevan, Professor of Paediatrics.
- Dr. R. Raveendran, Professor of Pharmacology.
Telemedicine Project Staff

- Dr. Santosh Kumar, Professor & Head, Department of Medical Education.
- Mr. Z. Zayapragassarazan, Assistant Professor of Educational Technology.
- Mrs. Barathi Balakumar, Technical Supervisor.
- Mr. R. Anbalagan, Technical Assistant.

Telemedicine Network Nodes

Sri Ramachandra Medical College, Chennai.

Sri Chitra Tirunal Institute of Medical Sciences, Trivandrum.

Telemedicine Activities

Organizing CME programmes for the Faculty and Post-graduates.

Tele-education and knowledge sharing with other medical colleges.

**Telemedicine CME Programmes conducted during the year 2009 – 2010**

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Date</th>
<th>Time</th>
<th>Telemedicine Programme</th>
<th>Telemedicine Network Node</th>
<th>Departments Participated</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>11.02.2010</td>
<td>2.30pm-3.30 pm</td>
<td>Oncology and Related Topics</td>
<td>Sri Ramachandra Medical College, Chennai.</td>
<td>Radiotherapy, Surgical oncology, Medical Oncology, Surgery, O&amp;G, Pathology.</td>
</tr>
<tr>
<td>2.</td>
<td>17.02.2010</td>
<td>2.30pm -3.30 pm</td>
<td>Clinical Society Meeting of Surgery Department</td>
<td>Sri Ramachandra Medical College, Chennai.</td>
<td>Radiotherapy, Medicine, O&amp;G, ENT, Pathology, Cardiology.</td>
</tr>
<tr>
<td>3.</td>
<td>10.03.2010</td>
<td>2.30pm -3.30 pm</td>
<td>Physicians’ Conference</td>
<td>Sri Ramachandra Medical College, Chennai.</td>
<td>Medicine, Biochemistry, Biometrics, Cardiology.</td>
</tr>
<tr>
<td>4.</td>
<td>18.03.2010</td>
<td>2.30pm -3.30 pm</td>
<td>Guest Lecture on Transfusion Medicine</td>
<td>Sri Ramachandra Medical College, Chennai.</td>
<td>Transfusion Medicine, Medicine, Nursing.</td>
</tr>
</tbody>
</table>
CONFERENCES

Medical Education Conference 2009 (MEDUCON 2009)

The Medical Education Conference 2009 (MEDUCON 2009) was held on 4.10.2009 in the Conference Hall of the Super Speciality Block JIPMER under the auspices of JIPMER NTTC Alumni Association (JNAA).

Mr. Z. Zayapragassarazan


RESEARCH PROJECTS

Departmental Projects

Ongoing

“Attitude of Health Profession Teachers and Students towards E-learning”.

PUBLICATIONS

I. JIPMER News

JIPMER News publishes information about clinical, research, teaching and training and other activities carried out by JIPMER faculty and staff. It is published once in two months. Six issues were brought out during the year.

II. NTTC Bulletin

The purpose of NTTC Bulletin is to publish reports of the completed educational projects undertaken by the participants of National Courses on Educational Science for Teachers of Health Professionals and other articles of educational interest. It is circulated free of cost to all former participants of the National Courses. It is published twice a year along with two National Courses organized every year. Two issues were brought out during the year in September 2009 and March 2010.

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III. Publications


AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr. Santosh Kumar


5. Organization of 60th National Course on Educational Sciences for Teachers of Health Professionals, 2010.

6. Member of Telemedicine Programme Committee.

Mr. Z. Zayapragassarazan

1. Member of Core Group of National Course on Educational Science for Teachers of Health Professionals.

2. Member of Editorial Board for NTTC Bulletin.

3. Project staff for Telemedicine.

4. Delivered a presentation cum demonstration on E-learning for the faculty members of JIPMER in the NTTC Seminar Hall on 10.2.2010 between 3.30 to 4.30 P.M.

5. Took sessions on Telemedicine and Medical Tourism for students of Medical Records Technician Course and Medical Records Officer Course.

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. Santosh Kumar

1. Member of U.G./P.G. Admission Committee.

2. Member of Personal Appearance / Counseling Committee for I MBBS Course.

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Mr. Z. Zayapragassarazan

1. Officer-in-charge of stores of the Medical Education Department.
2. In-charge of organizing Telemedicine Programmes.
3. Member of Pondicherry Science Forum.
4. Assisted Head of the Department in organizing the various training programmes organized in the Department of Medical Education.
8.12 Medical Gastroenterology

Additional Professor & In-charge
DKS Subrahmaniyam

Assistant Professor
CP Lakshmi

BACKGROUND INFORMATION OF THE DEPARTMENT
The department started functioning on 2nd March 2010 with Dr Subrahmaniyam being faculty in charge and Dr. Lakshmi joining the institute as Assistant professor. Clinical services were started step by step since then.

EDUCATIONAL COURSES
Involved in academic programs of department of Medicine, especially MD teaching sessions.

PATIENT CARE SERVICES
Started OPD services and inpatient consultations in March 2010, rest of the facilities were added after March.

SIGNIFICANT EVENTS IN THE DEPARTMENT
Starting of the new department on 2-3-2010, followed by starting of clinical services
BACKGROUND INFORMATION OF THE DEPARTMENT

This department started functioning in May 2009 at regional cancer center with twenty beds. The department runs OPDs on all the days (Monday to Friday) in the forenoon session. The average OPD attendance of patients is forty per day. It has a separate day care with average of 15 chemotherapies and targeted therapies administered per day. Minor OT procedures like bone marrow aspiration and biopsy, central venous access device insertion, intrathecal chemotherapy, therapeutic paracentesis and trucut biopsy are done on regular basis. The department faculty actively takes part in various specialty tumor clinics (Surgery and Breast Oncology Clinic, Hemato-oncology clinic, Gynec-oncology clinic, Ortho tumor clinic, Lung Cancer Clinic) in the afternoon sessions. The department also actively participates in a clinico-pathological meet conducted twice monthly for discussion of challenging cases. The department is well equipped with state of art equipments like Laminar hood for sterile chemotherapy preparation, Deep freezer (-80 degree Celsius) for stem cell storage. The transplant room is provided with laminar flow and HEPA filters.

The department will soon start a state of art intensive care unit for critically ill patients and bone marrow transplant for various hematological malignancies. The department has been sanctioned with a fellowship course of one year duration to impart intensive training in the field of medical oncology. The fellowship will commence in the August 2010.

EDUCATIONAL COURSES

Fellowship in Medical Oncology (Commencing from August 2010)

CONTINUING MEDICAL EDUCATION PROGRAMS

Dr. Biswajit D

- Attended Best of ASH in July 2009 in Delhi.
- Attended a CME on Pediatric-Hematology and delivered a talk on emergencies in oncology practice conducted on 5th – 6th September 2009 at Cancer Institute Adyar.
- Attended a CME on Colorectal Cancer and delivered a talk on chemotherapy in colorectal cancer conducted on 13th September 2009 at JIPMER, Puducherry.
- Attended Best of ESMO at Adyar Cancer Institute in January 2010.
- Attended a CME on Non Hodgkin Lymphoma and delivered talks on Management of Indolent Lymphoma and Management of Aggressive B-Cell lymphoma conducted on 13th December 2009 at JIPMER, Puducherry.

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Dr. Ankit Jain

- Attended CME on Stem Cell Transplant at Bangalore on 27\textsuperscript{th} September 2009.
- Attended CME on Breast Cancer as a Panel Member on discussion of role of taxanes in breast cancer in March 2010 at Chennai.

CONFERENCES

Dr. Biswajit D

- Attended 2\textsuperscript{nd} Asian Breast Cancer Congress on Feb 6\textsuperscript{th} and 7\textsuperscript{th} 2010 at Bangalore.
- Attended CANCERCON 2010: An international conference on Cancer Biology: Molecular Mechanisms and Novel therapeutics on Feb 18\textsuperscript{th} -20\textsuperscript{th} 2010 at Chennai.

Dr. Ankit Jain

- Attended CANCERCON 2010: An international conference on Cancer Biology: Molecular Mechanisms and Novel therapeutics on Feb 18\textsuperscript{th} -20\textsuperscript{th} 2010 at Chennai.
- Presented a paper on Kaposiform Hemangioendothelioma with Pulmonary Metastases: Case report and review of current literature on March 2010 at JIPMER scientific society meeting.

Dr. Deepa Joseph

- Presented a paper on Arterial Occlusion precipitated by CDDP based chemotherapy in a patient with testicular tumor and Case report and review of current literature on 1\textsuperscript{st} Dec 2009 at JIPMER scientific society meeting.

RESEARCH PROJECTS

Departmental Projects

Study of Clinico-Pathological Prognostic factors in Peripheral T cell Lymphomas from South India.

Single arm descriptive study of CAPOX regimen in locally advanced and metastatic gastric carcinoma patients.

Single Arm descriptive Analysis of neoadjuvant docetaxel and carbolatin in triple negative breast cancer population attending JIPMER.

PUBLICATIONS

Journals


7. Jain A. Phase 0 (Zero) clinical trials: A myth or reality?. Ind J Cancer 2010;47:70.


PATIENT CARE SERVICES

A. Clinical
1. OPD attendance:
   - New cases : 389
   - Old cases : 3209

2. Total Chemotherapies delivered: 1751

3. Total Minor OT procedures: 336
   a. Central Venous Access Device Insertion: 32
   b. Intra Thecal Chemotherapy administration: 105
   c. Paracentesis: 60

B. Laboratory
1. Bone Marrow Aspiration and Biopsy: 140
BACKGROUND INFORMATION OF THE DEPARTMENT

The Department of Medicine has been in existence ever since the time of inception of JIPMER. It has a long track record of excellence in undergraduate and postgraduate medical education as well as clinical research. Before the departments of cardiology and neurology were started, the Department of Medicine catered to the patient care, academic, and research activities in these areas including services such as echocardiography and ultrasonography. It has played a major role in patient care related to nephrology by offering peritoneal and haemodialysis services since the 1980s. It also has contributed to a major extent in the fields of infectious diseases, toxicology, haematological, respiratory, and endocrine diseases by providing specialty clinical services and in-patient care. The Department of Medicine has played a lead role in establishing counselling and treatment services to patients with HIV/AIDS since 1997. Its faculty has varied interests in the fields of cardiology, haematology, nephrology, neurology, and infectious diseases, and they have made substantial contribution to medical research by publishing research papers in various national and international journals.

EDUCATIONAL COURSES

A. Undergraduate Courses
   • MBBS course for 100 students.

B. Postgraduate Courses
   • M.D. (General Medicine) for 8 students each year.
   • The department conducted the Diplomate of National Board final clinical examination in General Medicine on March 29 – April 1, 2010.
CONFERENCES

Prof. T.K. Dutta

- Delivered a talk on ‘Multiorgan dysfunction syndrome (MODS)’ at the Annual conference of the Association of Physicians of India at Jaipur in Jan 2010
- Delivered a talk on ‘Splenectomy in ITP’ in the Annual Conference of Indian Society of Hematology & Transfusion of Medicine held at AIIMS, New Delhi in November 2009

Prof. R.P. Swaminathan

- Attended the Midterm National Conference of Tropical Neurology held on 27th to 28th March 2010.
- Attended the CME on Non-Hodgkin’s Lymphoma, 13th December, 2009
- Was a resource person in the NTTC (National Teacher Training Center) workshop for medical teachers 60th course 17th Feb – 27th Feb, 2010 and postgraduate orientation, and interns orientation programmes of the institute 2010.
- Delivered an intramural lecture on “Hypertension–JIPMER experience” in the JIPMER Scientific Society

Prof. Abdoul Hamide

- Chaired a session on “Neurocysticercosis-Indian Perspectives” at the Midterm National Conference of Tropical Neurology held on 27th to 28th March 2010 at JIPMER.
- Delivered the lead talk on “Post-Exposure prophylaxis for Health Care Workers” on the World AIDS Day 2009 at JIPMER Scientific Society.

Dr. D.K.S. Subrahmanyam

- Attended the CME on Non-Hodgkin’s Lymphoma, 13th December, 2009 JIPMER.
Dr. Tamilarasu Kadhiravan

- Delivered a lecture on ‘Management of extranodal lymphomas’ in the CME on ‘Non-Hodgkin Lymphomas' organized by the Departments of Medicine and Medical Oncology, JIPMER.
- Delivered an intramural lecture on ‘Novel H1N1 influenza – spread and clinical manifestations’.
- Attended the 60th National Course on Educational Science for teachers of health professionals conducted by the National Teachers Training Centre, JIPMER, Puducherry.
- Attended the capacity-building workshop on Operations Research in HIV/AIDS organized by the National AIDS Control Organization (NACO) in association with the World Health Organization (WHO) at the National Centre for Disease Control, Delhi.
- Was the non-examiner co-ordinator for the Diplomate of National Board final clinical examination in General Medicine.

RESEARCH PROJECTS

A. Funded Projects

Ongoing
1. Indian Collaborative Stroke Study (Co-investigator): funded by ICMR.

B. Departmental Projects

Completed
1. Efficacy of adeovir vs. lamivudine therapy in patients chronically infected with Hepatitis B virus – a randomized-controlled study.
2. Clinical and laboratory profile of acute pyogenic meningitis and effect of adjunct steroid on outcome: a randomized placebo controlled study.
3. A study of clinical, electrocardiographic, echocardiographic, and Holter profile of yellow oleander poisoning.
5. A study of neuropathy in rheumatoid arthritis.
7. A study of cardiac functional status in COPD patients with special reference to angiotensin receptor blocker therapy.
8. Clinical profile of falciparum malaria and comparison of artesunate vs. artesunate and doxycycline with special reference to recrudescence.
**On-going**

2. Clinical and laboratory profile immune thrombocytopenic purpura with special reference to outcome after splenectomy.
5. Cardiac involvement in systemic sclerosis.
7. Clinical profile of patients with diabetic retinopathy and diabetic nephropathy and correlation to inflammatory biomarkers.
8. Association between metabolic syndrome and non-alcoholic fatty liver disease with special reference to oxidative stress and insulin resistance.

**PUBLICATIONS**

**A. Journals**

B. Book Chapters

PATIENT CARE SERVICES

A. Clinical
The Department of Medicine has 120 beds with four units including a well-equipped eight-bedded ICU. The Department runs specialty clinics in Diabetes, Endocrinology, Haematology, HIV, Respiratory Medicine, Nephrology, Clinical Immunology.

No. of out-patients treated = 1,97,546
No. of in-patients treated = 6,299
No. of haemodialysis performed = 1,627

B. Laboratory
In addition various diagnostic services such as upper gastrointestinal endoscopy, ultrasonography, automated blood counts, glycosylated haemoglobin estimation are also provided on regular and emergency basis.

No. of upper GI endoscopies performed = 202
No. of automated blood counts done = 9,790
No. of HbA1c estimations done = 547
No. of diabetic foot evaluations performed = 1,600

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Prof. T.K. Dutta
1. Delivered a talk on ‘Snake bite’ in Ashford Hospital, London, UK.

Prof. R.P. Swaminathan
1. Was the co-ordinator and chairman of the Diplomate of National Board final clinical examination in General Medicine march 29th – 1st April, 2010.
Prof. Adboul Hamide

2. Set Question papers, corrected dissertations for the National Board of Examinations.
3. Reviewed articles for publication in indexed journals such as, Indian Journal of Gastroenterology, Indian Journal of Medical Research, and BioMed Central series of journals.

Dr. Tamilarasu Kadhiravan

1. Was awarded the Dr. M. J. Shah Memorial Award in Tropical Medicine (2009) of the Association of Physicians of India for presenting an original research paper entitled ‘Haemostatic abnormalities and correlates of spontaneous bleeding in adults with dengue fever/dengue haemorrhagic fever’.

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Prof. R.P. Swaminathan

1. Member of core committee on PG Education.
2. Member of committee for purchase of drugs.
4. Member of Medical Board for JIPMER Staff.
5. Administrative Head of the Department of Nephrology.
6. Member of the Doctoral committee for review of thesis by PhD scholars.

Prof. Adboul Hamide

1. Member of sub-committee of Pondicherry AIDS Control Society.
2. Member of core committee of RNTCP/DOTS, Pondicherry.
3. Resource person for the Interns orientation program.
4. Member representing minority community in Departmental Promotion Committee (DPC) and various interviews conducted for recruitment of residents and staff.
5. Administrative Head of the Department of Endocrinology with one Asst. Professor managing OP&IP services.
6. Member of the Doctoral committee for review of thesis by PhD scholars.
7. Member of the committee for purchase of items for CSSD of the hospital.
8. In charge of ART Centre & Implemented Post-Exposure Prophylaxis (PEP) service for the health care workers accidentally exposed to HIV.
SIGNIFICANT EVENTS IN THE DEPARTMENT

1. Dr. Jai Radhakrishnan, Nephrologist, Columbia University, USA visited the Department and gave several lectures and interacted with the postgraduate students.

2. Drs. Ryad Tamouza, Krishnamoorthy Ragagopalan, and Helene Moins from St. Louis Hospital, INSERM, Paris, France visited the Division of Clinical Immunology and Department of Medicine from 4-3-2010 to 18-3-2010 under ICMR-INSERM international collaborative research programme.

3. Nephrology and Endocrinology Wards have started functioning under the supervision of the Department of Medicine.

4. Prof. Abdoul Hamide conducted a HIV/AIDS awareness programme for the NCC cadets at the camp in Pondicherry. A regular Post-Exposure Prophylaxis (PEP) service for the health care workers accidentally exposed to HIV has been implemented.
BACKGROUND INFORMATION OF THE DEPARTMENT

Departmental Activities

The department is actively involved in four areas namely diagnostic microbiology, teaching of undergraduate students, training of postgraduate residents, and research, which includes the training of PhD research scholars.

Diagnostic Activities

The clinical diagnostic services of the department are spread across all major branches of microbiology. The different sections of the department include those of Exudate, Blood Culture, Urine & Stool, Immunology, Parasitology, Virology, Mycobacteriology, Mycology, Molecular biology, HIV, Anaerobic Bacteriology, Hospital Infection Surveillance and Water Analysis. About 1,00,000 specimens are processed per annum in various sections of the department.

Teaching of Undergraduate Students

In each academic year 116 MBBS students and 30 BSc MLT students are taught and trained in the Department of Microbiology. Besides, 5 to 10 students in the MRT/MRO course, nearly 75 students of BSc.Nursing and 4 MSc MLT students are also imparted teaching in microbiology. A structured lecture schedule, hands-on practical exercises, informative demonstration classes are the hallmarks of undergraduate training.

Training of Postgraduate Students

Four postgraduate students, who are admitted through open entrance examinations every year, are imparted postgraduate training in order to enable them to monitor, manage, and direct a Diagnostic Microbiology Laboratory. A structured PG program comprising of Journal Clubs, PG Seminars, and Culture/Technique/Slide Seminars represent the essential components of postgraduate training. Emphasis is given to bench-work, and hands-on training so as to enable the trainee to become proficient with the practical nuances of diagnostic
microbiology. The trainee also has to attend on-call duties as a part of the Emergency Laboratory Services. The resident is made proficient in communication skills through participation in PG programs and undergraduate teaching. Recently, there have been two new additions to enhance the quality of postgraduate education. These include the initiation of a structured Residents’ Logbook, and the introduction of out station postings to other centers of excellence and Research & Development institutes in India.

Research Activities

The department admits two PhD scholars every year as a part of its research endeavor. Eligible candidates must have a Masters degree in MSc Medical Microbiology. Immunodiagnosis and molecular diagnosis of hydatid disease, neurocysticercosis and amebiasis, molecular epidemiology of Salmonella Typhi and Klebsiella pneumoniae are some of the ongoing research projects of the department.

To keep up with the rapidly changing face of diagnostics a fully functional Molecular Biology laboratory has been established. Routinely molecular diagnosis of TB meningitis, leptospirosis, amebiasis and neurocysticercosis is carried out by PCR. Tests that have been added in the recent years to the diagnostic menu of the hospital include the QBC (Quantitative Buffy Coat) technique for the detection of haemo-parasites, antigen detection tests for hydatid disease and neurocysticercosis, modified acid-fast stain for intestinal coccidian parasites (in Parasitology), tests for anti-nuclear antibody, IgM ELISA for brucellosis, IgM ELISA and LAT for leptospirosis (in Immunology), new antibiotic panel for susceptibility testing (in Bacteriology), antigen detection for Cryptococcus neoformans (in Mycology), ELISA for HBsAg detection, IgM ELISA for Rubella, CMV and Herpes, ELISA for HCV, ELISA for anti-HBsAg Ab levels (Virology), Western Blot for neurocysticercosis and hydatid disease (Parasitology), ESBL and MBL strains detection etc. In addition BACTEC systems for blood and mycobacterial culture, Anoxomat Mark II anaerobic culture system and a nephelometry system for immunodiagnosis have been acquired and are being used for routine diagnostic services. Real time PCR for diagnosis of influenza has been acquired and Department of Microbiology, JIPMER has been established as a Regional Influenza Laboratory for diagnosis of all kinds of influenza. Also, recently services such as FlowCytometry for CD4 estimation in HIV has been introduced.

To conclude, the Department of Microbiology at JIPMER is in the process of development. The department is making an all round effort to provide newer diagnostic services for better patient care, upgraded training program for the students: both undergraduates and postgraduates, and a congenial environment for research and innovation.

EDUCATIONAL COURSES

A. Undergraduate Courses

The Department of Microbiology, offers MBBS undergraduate courses covering three (3rd, 4th & 5th) semesters. Teaching programmes in the form of lectures, practical classes, Integrated classes, Modular teaching and Student seminars are conducted to create better understanding of the subject. The department also conducts BSc.Nursing, BSc MLT and courses for medical record trainees & medical record officers(MRT/MRO) and Pre-Trauma Hospital Technician Courses (PTHTC).

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B. Postgraduate Courses

The Department of Microbiology, offers 3 years Post Graduate course in Medical Microbiology with intake of 4 Post Graduate Students per year. At present there are 9 Post Graduate Students being trained in both the diagnostic & research aspect of microbiology.

C. Research Courses

The Department of Microbiology, offers a full time PhD Programme with an annual intake of 2 candidates.

D. Other Courses

The department of microbiology offers short term training programme for MD, MSc, and other allied health personnel's from different parts of the country.

CONTINUING MEDICAL EDUCATION PROGRAMS

The department of microbiology also holds continuing medical education programs in HIV, Quality assurance, simple methods in Clinical microbiology, etc for the benefit of faculty, residents from different medical colleges of the country.

CONFERENCES

Dr. S. C. Parija

- Dr. S C. Parija was invited as a guest speaker for Tropicon 2010 organized by the department of neurology, JIPMER, on 27th March 2010. Prof. Parija delivered a guest lecture on “Neurocysticercosis: Microbiology and Laboratory diagnosis”.

- Dr. S C. Parija was invited as a guest speaker at the Golden Jubilee Celebrations of the Institute of Medical Sciences, BHU, Uttar Pradesh on March 17th, 2010. Prof Parija delivered a guest lecture on “Recent advances in molecular diagnosis and vaccines in amoebiasis”.

- Dr. S. C. Parija was resource person at the CME on “Opportunistic infection in HIV” for postgraduate residents of JIPMER and other medical colleges in and around Puducherry organized by the department of microbiology on 16th March 2010 with the support of NACO. Prof. Parija delivered a lecture on “Parasitic infections and immuno-reconstitution inflammatory syndrome (IRIS) in HIV.”

- Dr. S.C. Parija was invited as a guest speaker at the TN Chapter Meet of Indian Academy of Tropical Parasitology on “Recent trends in diagnosis of parasitic diseases” at the department of Microbiology, Madras Medical College, Madras, on December 26th, 2009. Prof. Parija delivered a talk on “Understanding parasitic diseases”.

- Dr. S.C. Parija was resource person at the 8th, 5 day National workshop on “Simple diagnostic methods in clinical microbiology” held by the department of microbiology, JIPMER, from 27th November to 1st December 2009. Prof. Parija delivered a talk on “Molecular diagnosis of amoebiasis and vaccines”.

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Dr. S.C. Parija, as the President of the Indian Academy of Tropical Parasitology, participated in the inaugural function of the Third National Conference of the Indian Academy of Tropical Parasitology (Tropacon 2009) held at the Department of Parasitology, PGI, Chandigarh from November 17th to 19th, 2009. Prof. Parija delivered the “Presidential Oration on Progress in research of diagnosis and vaccines in amoebiasis”. Prof. Parija chaired a session on “Vector Control Strategy”. Prof. Parija was the Chief guest during the valedictory function and distributed away the prizes and certificates to the recipients.

Dr. S. C. Parija, was invited as a guest speaker at the 21st National Congress of Parasitology held at Punjab University, Chandigarh from 14th to 16th November, 2009. Prof. Parija delivered a talk on “Recent methods in the diagnosis of Parasitic infections”.

Prof. S C Parija, delivered a Presidential oration on ‘Progress in research on diagnosis and vaccines in Amoebiasis’ on the occasion of the 3rd Congress of the Indian Academy of Tropical Parasitology (IATP) held at PGI, Chandigarh. Prof Parija, also delivered a guest talk on “Parasitic agents of Traveller’s diarrhea”, during the CME of the IATP, held on 16th November, 2009.

Dr. S. C. Parija, was invited to deliver a Plenary lecture on – “Recent advances in the molecular diagnosis of Parasitic infections with reference to Amoebiasis” during the 33rd National Congress of the Indian Association of Medical Microbiology (MICROCON-2009) held from 7th-9th November 2009 at JSS Medical College, Mysore.

Dr S C Parija, Professor and Head, Dept. of Microbiology and President of Indian Academy of Tropical Parasitology(IATP) inaugurated the ‘Tamilnadu Chapter ‘of the IATP in a function organized at the Institute of Microbiology, Madras Medical College, Chennai on 29th October, 2009.

Dr S.C. Parija delivered a Guest lecture entitled “How to write and publish a Research Paper” at Subharti Medical College, Meerut, U.P. on September 11th, 2009.

Dr S.C. Parija delivered a talk on “Epidemiology and Laboratory diagnosis of Swine Influenza” at Santosh World Medical Academy, Ghaziabad, U.P. on September 9th, 2009.

Dr S.C. Parija, was also invited as a Guest Speaker at the 3rd Annual Conference of IAMM (Orissa Chapter) and National Symposium on Anti-Retroviral Therapy held at M.K.C.G Medical College, Berhampur, Orissa on August 29th, 2009. He delivered a lecture on “Opportunistic Protozoal Infections in patients with HIV”.

Dr. S.C. Parija, was invited as a guest speaker at the 2nd Annual Symposium on HIV/AIDS, Organised by YRG Care, Chennai, Tamil Nadu on August 9th, 2009. Prof. Parija delivered a talk on “Parasitic infections and HIV-associated immune reconstitution inflammatory syndrome”.

Dr. S C Parija, attended National seminar on Frontiers in Biotechnology held at Bharathiar University, Coimbatore from 22nd to 24th July 2009. He delivered a guest lecture on “Molecular diagnosis of Amoebiasis.”
Dr. B. N. Harish

- Dr B N Harish attended the 13th International Conference on Emerging Infectious Diseases at Kolkata from 6th to 11th April 2009.
- Dr B.N.Harish attended U.S Japan Conference on enteric disease organised along with NICED, Calcutta from 12-15th July 2009 and presented a poster on ‘Drug resistance in NonTyphoidal Salmonella.
- Dr B N Harish, Professor, Dept. of Microbiology, JIPMER was invited as an expert to participate in the meeting of the Indian National Network for Surveillance of Antimicrobial resistance (INSAR) held at PGIMER, Chandigarh from Oct 21st – 22nd 2009.
- Dr B N Harish, was invited as visiting Professor to Yanepoya Medical College, Mangalore during October 2009 and delivered lecture on ‘Drug resistance in bacteria’.
- Dr B N Harish, was invited as a guest speaker by Devarajars Medical College, Kolar, Karnataka.
- Dr B N Harish, attended ICID at Manila, U.S.A in March 2010. He had poster presentation and chaired a session on Hospital Infection.

Dr. S. Sujatha

- Dr S.Sujatha, attended a CME on Update on Microbiology to be held at Aarupadai veedu Medical College & Hospital, Puducherry on 18th July, 2009 forenoon and delivered a lecture on ‘Swine flu’.
- Dr S Sujatha, Additional Professor, Dept. of Microbiology delivered a talk on “Genomics and Pathogenesis of Influenza” at the CME on Swine flu conducted by Stanley Medical College, Chennai on October 7th, 2009.
- Dr S Sujatha, Additional Professor, Department of Microbiology, JIPMER, delivered a guest lecture on ‘Genomics and Pathogenesis of Novel Influenza A H1N1’ at the Sri Satya Sai Medical College, Chennai on 26th November, 2009, and also in the CME on Influenza A (HINI) 2009 at JIPMER on 27th November, 2009, which was organized jointly by the departments of Microbiology and Preventive and Social Medicine.

Dr. Rakesh Singh

- Dr. Rakesh Singh attended and presented a poster at Third National conference of the Indian Academy of Tropical Parasitology, Department of Parasitology, PGIMER, Chandigarh held from 16th -19th November, 2009.
- Dr. Rakesh Singh attended the NCDC/NACO capacity building workshop on operational research in HIV/AIDS held at National centre for disease control, New Delhi from 24th to 28th November, 2009.
RESEARCH PROJECTS

A. Funded Projects

Ongoing

ICMR Projects


UGC Project

Molecular Characterization of ESBL producer *Klebsiella pneumonia* in Pondicherry. Principal Investigator Dr. B. N. Harish. Funds-Rs.5,98,300/-.3 years (2008-2011).

B. Departmental Projects

Completed

1. Laboratory diagnosis of extrapulmonary tuberculosis by conventional method BacT/ALERT and polymerase chain reaction.

2. Rapid diagnosis of typhoid fever by nested PCR for flagellin gene of *Salmonella Typhi*.

3. Phenotypic characterization of *Escherichia coli* in single episode and recurrent episode of urinary tract infections.

4. Multidrug resistance in *Salmonella typhi*.

5. Molecular diagnosis of swine flu.

6. Phenotypic characterization of beta hemolytic streptococci.

7. Determination of MIC of ciprofloxacin in shigella isolated from stool sample.

8. Biochemical characterization of vibrios isolated from marine and fresh water sample from Pondicherry.

9. Biochemical characterization of mycobacteria

10. Molecular diagnosis of leptospirosis.

11. Fungal profile in blood sample.

12. Various associated co-infections with HIV.


Ongoing
1. Virulence determinant and antimicrobial resistance in isolates of Enterococci.
2. Molecular detection and characterization of toxigenic Vibrio cholerae.
3. Molecular diagnosis of enteric fever by PCR.
4. Real time PCR in amoebiasis.

C. Collaborative Projects

Completed
Evaluation of clinical and laboratory parameters for the diagnosis of Streptococcal sore throat (with Paediatrics).

Ongoing
1. Utility of urine dipstick test for the screening of urinary tract infection in catheterized women following gynaecological surgeries (with Obstetrics & Gynaecology).
2. Anaerobic infections in diabetic foot patients (with surgery).

PUBLICATIONS

A. Journals


B. Books


C. Book Chapters

1. Dr. S.C. Parija, “Hypersensitivity” Chapter in the text book of Immunology. Editor Dr. S.K. Gupte.


PATIENT CARE SERVICES

Laboratory

To keep up with the rapidly changing face of diagnostics a fully functional Molecular Biology laboratory has been established. Routinely molecular diagnosis of TB meningitis, leptospirosis, amoebiasis and neurocysticercosis is carried out by PCR. Tests that have been added in the recent years to the meet the diagnostic needs of the hospital include the QBC (Quantitative Buffy Coat) technique for the detection of haemo-parasites, antigen detection tests for hydatid disease and neurocysticercosis, modified acid-fast stain for intestinal coccidian parasites (in Parasitology), tests for anti-nuclear antibody, IgM ELISA for brucellosis, IgM ELISA and LAT for leptospirosis (in Immunology), new antibiotic panel for susceptibility testing (in Bacteriology), antigen detection for Cryptococcus neoformans (in Mycology), ELISA for HBsAg detection, IgM ELISA for Rubella, CMV and Herpes, ELISA for HCV, ELISA for anti-HBsAg Ab levels (in Virology), Western Blot for neurocysticercosis and hydatid disease (Parasitology), ESBL and MBL strains detection etc. In addition BACTEC systems for blood and mycobacterial culture, Anoxomat Mark II anaerobic culture system and a nephelometry system for immunodiagnosis have been acquired and are being used for routine diagnostic services. Real time PCR for diagnosis of influenza has been acquired and Department of Microbiology, JIPMER has been established as a Regional Influenza Laboratory for diagnosis of all kinds of influenza. Also, recently services such as FlowCytometry for CD4 estimation in HIV has been introduced.

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr. S C Parija

1. Dr. S C Parija, Professor and Head, Department of Microbiology has been conferred D.Sc in Medicine by Madras University. Prof Parija received his D.Sc from University of Madras, for his research work on newer methods on examination on stool for diagnosis of intestinal parasitic infection.

2. Dr. S C Parija, Professor and Head, Department of Microbiology has been conferred the fellowship of Royal college of Parasitologists (FRCPath) by the Royal College of Parasitology, London, U.K in recognition of his contributions to the field of Microbiology.

3. Dr. S C Parija, Professor and Head, Department of Microbiology has been conferred the fellowship FICPath by the Indian College of Pathologists.

4. Dr. S C Parija, Professor and Head, Department of Microbiology has been conferred the fellowship FISCD by the Indian Society for Malaria and other Communicable Diseases.

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5. Dr. S C Parija, Professor and Head, Department of Microbiology has been conferred the fellowship FABMS by the Indian Association of Biomedical Scientists.

6. Dr. S C Parija, Professor and Head, Department of Microbiology has been conferred the fellowship FIMSA by the International Medical Science Academy.

7. Dr. S C Parija, Professor and Head, Department of Microbiology has been conferred the fellowship FICAI by the Indian College of Allergy & Applied Immunology.

8. Dr. S C Parija, Professor and Head, Department of Microbiology has been conferred the fellowship FIAVP by the Indian Association of Development of Veterinary Parasitology.

9. Dr. S C Parija, Professor and Head, Department of Microbiology has been appointed as Honorary member of the Iranian Society for Parasitology.

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**Dr. Jharna Mandal**

Dr. Jharna Mandal, Assistant Professor, Department of Microbiology is a Life member of Indian Association of Medical Microbiology (IAMM), Indian Association of Tropical Parasitology (IATP) and Society for Indian Human and Animal Mycologists (SIHAM).

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**Dr. Rakhi Biswas**

Dr. Rakhi Biswas, Assistant Professor, Department of Microbiology is a Life member of Indian Association of Medical Microbiology (IAMM) and Indian Association of Tropical Parasitology (IATP).

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**Dr. Rahul Dhodapkar**

Dr. Rahul Dhodapkar, Assistant Professor, Department of Microbiology is a Life member of Indian Association of Medical Microbiology (IAMM) and Indian Association of Tropical Parasitology (IATP) and corresponding member of International Society of Infectious diseases.

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**ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS**

**Dr. S.C. Parija**

1. Dr. S.C. Parija, Professor and Head, Department of Microbiology was appointed as Editor-in-Chief of the on-line journal, *Tropical Parasitology* published by Indian Academy of Tropical Parasitology (IATP), India.

2. Dr. S.C. Parija, Professor and Head, Department of Microbiology was appointed as Editor of the BMC Tropical series on “HIV/AIDS and opportunistic diseases and co-infections published by BMC.

3. Dr. S.C. Parija, Professor and Head, Department of Microbiology was appointed as Editor-in-Chief of the on-line journal, *Internet Journal of Parasitic Diseases*, published from The Texas, USA.

4. Dr. S.C. Parija, Professor and Head, Department of Microbiology was appointed as Associate Editor of the online international Journal, *BMC Infectious Diseases*.
5. Dr. S.C. Parija, Professor and Head, Department of Microbiology was appointed as Associate Editor of the on-line international Journal, *BMC Journal of Case Reports (JCR)*.

6. Dr. S.C. Parija, Professor and Head, Department of Microbiology was appointed as Associate Editor of the on-line international Journal, *BMC Research Notes*.

7. Dr. S.C. Parija, Professor and Head, Department of Microbiology was appointed as Member of the Editorial Board of the on-line journal *BMC Clinical Pathology* (2001-continue).

8. Dr. S.C. Parija, Professor and Head, Department of Microbiology was appointed as Member of the Editorial Board of *Health Renaissance*, the journal published by BPKoirala Institute of Health Sciences, Dharan, Nepal (1998-continue).

9. Dr. S.C. Parija, Professor and Head, Department of Microbiology was appointed as Member of the Board of Editors of the *Journal of Parasitic Diseases*, published by the Indian Society for Parasitology (2001-continue).

10. Dr. S.C. Parija, Professor and Head, Department of Microbiology was appointed as Member of the Board of Editors of *Biosciences*, the journal published by the Indian association of Biomedical Scientists (2001-continue).

11. Dr. S.C. Parija, Professor and Head, Department of Microbiology was appointed as Member of the Board of Editors of the *Journal of Veterinary Parasitology*, published by the Indian Association for the Advancement of Veterinary Parasitology (1992-continue).

**Membership in official committees**

Dr. S.C. Parija, Professor and Head, Department of Microbiology acted as Member of the Selection Committee of the Union Public Service Commission, New Delhi to select various posts in microbiology.

Dr. S.C. Parija, Professor and Head, Department of Microbiology acted as Member of the Selection Committee of the All India Institute of Medical Sciences, New Delhi to select faculty posts in microbiology.

Dr. S.C. Parija, Professor and Head, Department of Microbiology acted as Member of the Board of Studies of the University of Colombo, Sri Lanka for MD in Parasitology.

Dr. S.C. Parija, Professor and Head, Department of Microbiology acted as Member of the Board of Examiners of the Sultan Quaboos University, Oman.

Dr. S.C. Parija, Professor and Head, Department of Microbiology acted as Member of the research committee of the India Clinical Epidemiology Network (CLEN).

Mr. Gireesh, PhD scholar in the department of microbiology, won award for the Best poster titled “PCR for diagnosis of neurocysticercosis” at the neurology conference Tropicon 2010 organized by the department of neurology, JIPMER, on 27th March 2010.
Significant events

Dr. S.C. Parija

Dr. S.C. Parija, has been reelected as the president of Indian Academy of Parasitology for 2010 to 2012.

Dr. S.C. Parija, Professor and Head, Department of Microbiology was a Resource person for the “Refresher training for technicians of Puducherry” held from 30th March to 1st April 2010 by the Dept of Microbiology with the support of NACO.

Dr. S.C. Parija, Professor and Head, Department of Microbiology was co-ordinator of the “World TB day celebrations” held in the Dept. of Microbiology on 23rd march, 2010 in collaboration with the Department of Tuberculosis and Chest Diseases with the support of the State TB Control.

Dr. S.C. Parija, Professor and Head, Department of Microbiology was a Resource person for CME on ‘Opportunistic infection in HIV’ for postgraduate residents of JIPMER and others medical colleges in and around Puducherry held on 16th March, 2010 with the support of NACO.

Dr. S.C. Parija, Professor and Head, Department of Microbiology was a Resource person for the EQAS workshop for Medical officer and technician for HIV of Puducherry held from 5th to 6th March, 2010 in the dept. of Microbiology.

Dr. S.C. Parija was invited as an expert member to attend India CLEN (Indian Clinical Epidemiological Network Strategy Planning) held on 20th-22nd February at Nagpur. He was also member of the review committee to review proposals submitted for programme.

Dr. S.C. Parija, Professor and Head, Department of Microbiology, was invited to participate in the WHO workshop on HIV/AIDS in Medical Curriculum. This National Workshop was organized by the University College of Medicine on 9th-10th November, 2009. Prof. Parija presented a status report on ‘Medical Microbiology Curriculum in HIV’ during the workshop.

Dr. S.C. Parija attended Zonal operational research committee meeting at NTI, Bangalore on 13 & 14th March, 2009 as a Member of Research Operational group of South zone.

Dr. B.N. Harish

Dr. B.N. Harish conducted a workshop on Laboratory techniques at Yenapoya Medical college, Bangalore from 4th to 8th May 2009.

Dr. B.N. Harish attended the 2 & ½ day training at NACO and 5-7 days SRL assessment from 10th August to 14th August 2009.

Dr. S. Sujatha

Dr. S. Sujatha attended WHO sponsored hands on laboratory training on molecular characterization of Influenza A H1N1 Virus for microbiologists and laboratory technical staff of the 10 pre-identified AI lab network under IDSP (NICD), in Delhi from June 25th-27th, 2009.
**Dr. Jharna Mandal**

Dr. Jharna Mandal, Assistant Professor, Department of Microbiology, attended NTTC training at JIPMER held from 17th to 26th February 2010.

Dr. Jharna Mandal was a Resource person for the “Refresher training for technicians of Puducherry” held from 30th March to 1st April 2010 by the Dept of microbiology with the support of NACO.

Dr. Jharna Mandal was a Resource person for the EQAS workshop for Medical officer and technician for HIV of Puducherry was held from 5th-6th March, 2010 in the dept. of Microbiology.

**Dr. Rakhi Biswas**

Dr. Rakhi Biswas, Assistant Professor, Department of Microbiology, co-ordinated the organization of an informational event on the occasion of the “World TB day celebrations” held in the Dept. of Microbiology on 23rd March, 2010 in collaboration with the Department of Tuberculosis and Chest Diseases with the support of the State TB Control.

Dr. Rakhi Biswas was a Resource person for the “Refresher training for technicians of Puducherry” held on 30 March to 1st April 2010 by the Dept of microbiology with the support of NACO.

Dr. Rakhi Biswas was a Resource person for the EQAS workshop for Medical officer and technician for HIV of Puducherry was held from 5th-6th March, 2010 in the dept. of Microbiology.

**Dr. Rakesh Singh**

Dr. Rakesh Singh, Assistant Professor, Department of Microbiology attended HIV workshop at NIMANS Bangalore held from 27th April to 1st May 2009.

Dr. Rakesh Singh participated in the HIV training programme on dried blood and whole blood sample collection and handling for the purpose of integrating infant diagnosis of HIV 1 DNA PCR held on 5th August, 2009 at the Govt. Medical College, Madurai.

Dr. Rakesh Singh inspected the H1N1 laboratory established at Trivandrum, Kerala held from 17th to 18th August, 2009.

Dr. Rakesh Singh attended the Regional STI Training Programme held at the Institute of Venerology, Madras Medical College, Chennai from 6th-7th April, 2010.

Dr. Rakesh Singh attended the NTTC training at JIPMER held from 17th to 26th February, 2010.

**SIGNIFICANT EVENTS IN THE DEPARTMENT**

An assessment of the HIV section of the Department of microbiology, was held on 09th March 2009 by a team from NACO who had visited for the purpose of accrediting the laboratory as a State Reference Laboratory.
The CME on Influenza A H1N1/2009 was held jointly by Departments of Microbiology & Preventive and Social Medicine on 27th of November, 2009. It was held to highlight the facts on evolution, disease spectrum of the H1N1 virus and shed light on aspects of its control. It was aimed to create awareness amongst the medical fraternity.

The department of microbiology, JIPMER organized the Eight, 5 day National workshop on “Simple Diagnostic Methods in Clinical Microbiology from 27th Nov to 1st Dec 2009. The main objective of the workshop was to demonstrate through hands-on training, the various rapid, simple and inexpensive diagnostic techniques suitable for application and adaptive in a low cost laboratory.

WHO supported “Regional Influenza Laboratory” for the surveillance of human, avian, swine Influenza was started in Department of Microbiology. It has been set up for the purpose of rapid and specific and timely diagnosis of H1N1 cases in and around Pondicherry.

An EQAS workshop for the Medical Officers and Lab. Technicians working in ICTC was organized by Department of Microbiology, JIPMER on 5th and 6th March 2010. Medical Officers and Lab. Technicians from Karaikal, Mahe and Yenam region attended the workshop. The workshop was inaugurated by Dr. S.C. Parija, Professor and Head, Department of Microbiology.

Dr. Jharna Mandal co-ordinated the organization of the CME on Opportunistic infection in HIV for postgraduate residents of JIPMER and others medical colleges in and around Puducherry on 16th march, 2010 with the support of NACO.

The Department of Microbiology, JIPMER and Pondicherry AIDS Control Society are organizing a one day continuing Medical Education Programme on “HIV AND OPPORTUNISTIC INFECTIONS”. This programme was organized on the 16th of March at the Conference hall of the Superspeciality block of JIPMER. The CME was organized for the resident doctors of the various medical institutes and hospitals of Puducherry. The CME was inaugurated by Dr. K S V K Subba Rao, Director, JIPMER and Dr. G S Naidu, Project director, NACO Puducherry.

A refresher course on HIV testing for ICTC lab technicians was conducted by the Department of Microbiology, JIPMER on 30th, 31st March and 1st April 2010. The CME was inaugurated by Dr. K S V K Subba Rao, Director, JIPMER and Dr. G S Naidu, Project director, NACO Puducherry.

Achievements of students/Residents (Academic, sports and cultural):

Prize exam in Tropical parasitology was conducted for Interns in September 2009.
The new division of Nephrology, under the department of Medicine was established in the newly commissioned superspeciality block in 2009. A new assistant professor joined the Nephrology division on 15th January 2010. The division of Nephrology has state-of-the-art facilities for patient care. The new dialysis unit with 5 state-of-the-art hemodialysis machines, two reverse osmosis water treatment plant and 3 multi-parameter patient monitors became operational in August 2009 and provides round the clock emergency dialysis services. The dialysis unit has space and provision to accommodate an additional 5 dialysis machines. The department has facility and trained technical man power for other specialized forms of treatment like Slow Low Efficiency Dialysis (SLED), Therapeutic Plasma Exchange (TPE) and Continuous Ambulatory Peritoneal Dialysis (CAPD) for patients with kidney disease. The new Nephrology ward in the superspeciality block with bed strength of 20 was inaugurated in October 2009. The department is poised for significant growth in the near future with establishment of a renal transplantation program along with the department of urology, starting a DM program in Nephrology and BSc Medical Technology in Dialysis.

CONTINUING MEDICAL EDUCATION PROGRAMS

Prof R. P. Swaminathan

- Delivered a lecture on ‘Management of hypertension - our experience at JIPMER’ in the monthly JIPMER Scientific Society (JSS) meeting in March 2010.

Dr Sreejith Parameswaran


CONFERENCES

Prof R. P. Swaminathan

- Attended the annual conference of Southern Chapter of Indian Society of Nephrology (ISN-SC CON 2010) from 12th to 14th February, 2010, at JIPMER, Puducherry.
- Attended the annual conference of Indian Society of Pediatric Nephrology held at JIPMER on 17th January 2010.
Dr Sreejith Parameswaran


- Attended the Annual national conference of Indian Society of Nephrology (ISNCON 2009) at Guwahati from 4th to 6th December 2009 and presented the following 3 papers:
  a. Sreejith P, Geda SB, Rathi M, Kohli HS, Gupta KL, Sakujuha V, Jha V. Referral pattern of patients with end-stage renal disease (ESRD) and its impact on outcome at a tertiary care center in North India (Oral presentation).

- Attended Symposium on promotion of deceased organ donation held at PGIMER Chandigarh in February 2009.

RESEARCH PROJECTS

Departmental Projects

Ongoing

1. Longitudinal follow up of bone mineral density in adults with nephrotic syndrome from primary glomerular disease.

2. Comparison of Slow Low Efficiency Dialysis (SLED) and Intermittent Hemodialysis for acute kidney injury.

3. A study of renal tubular function abnormalities in patients with spontaneous symptomatic hypokalaemia.

PUBLICATIONS

A. Journals


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B. Book Chapters


PATIENT CARE SERVICES

A. Clinical

Facilities available in the department:

1. Hemodialysis.

2. Slow Low Efficiency Dialysis (SLED).

3. Intermittent Peritoneal dialysis.


The department provides speciality treatment for seriously ill patients and patients with chronic kidney problems.

Number of Nephrology OPD patients : 1630

Number of Hemodialysis sessions : 359 New patients, 1465 hemodialysis

Number of Dialysis catheter insertions : Internal Jugular – 266

Femoral – 80

Subclavian – 113

Number of Kidney biopsies : 04 (February & March 2010)

Intermittent Peritoneal Dialysis : 05 (February & March 2010)

Nephrology consultations : 228 (February & March 2010)

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr Sreejith Parameswaran


2. Was invited as reviewer for the journal ‘Nephrology’ published by the Asia-Pacific Society of Nephrology.

SIGNIFICANT EVENTS IN THE DEPARTMENT

New equipments procured in the Department:

1. Fresenious 4008S AaRT Machines capable of Slow Low Efficiency Dialysis (SLED) and Hemofiltration - 2 Nos.

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2. Fresenious 4008B Hemodialysis machine - 1 No.


4. Reverse Osmosis water treatment plants - 2 Nos.

Community service

1. Dr Sreejith Parameswaran participated in the JIPMER outreach program to Karaikal district of Pondicherry and conducted Nephrology special OPD at Karaikal on 6th February 2010.

2. Dr Sreejith Parameswaran represented JIPMER at the World Kidney Day celebration organized by the Pondicherry government on 16th March, 2010.

Visiting Professor

Dr Jai Radhakrishnan, Associate Professor, Department of Medicine and Nephrologist, Columbia University, New York visited the department on 11th February, Conducted ward rounds and bed side case discussion and gave lectures on the topics ‘Approach to Interpretation of ABG’ and ‘How to perform kidney biopsy’ for residents in dept of Medicine, and a guest lecture on ‘Management of Chronic Kidney Disease’ in a special session of JIPMER Scientific Society.
BACKGROUND INFORMATION OF THE DEPARTMENT

After short periods of leadership under Dr. L. C. Takur and Dr. Kuljith Singh Anand, the department had a steady stewardship under Dr. Sunil K Narayan, who joined as associate professor of Neurology in 2000 May and made slow and steady progress, where Dr Narayan was ably assisted by Dr. Ram Niranjan Sahoo, as a Chief Medical Officer from 2003. During the period from 2000-2009, the department functioned in the main hospital block, with only 8 inpatient beds and two weekly clinics but acquired several state-of-the art equipments such as digital video-EEG machine, transcranial Doppler, digital ENMG/EP and carotid colour duplex scanner. Department acquired laboratory technicians one each for EEG (2004), ENMG (2007) and neurovascular (2009) lab.

In 2004, two (Undegraduate and Postgraduate) annual gold medal examinations were started in Neurology. With the laboratory assisted patient care and research activities of the department gathering momentum, Dr. Narayan guided about 15 MD students and 3 PhD students as co-guide and 4 ICMR students in Neurology related topics.

In 2009 April, after the shift to the superspecialty block, department received a quantum leap in its facilities. It started acute stroke care services including r-tPA thrombolytic therapy and other stroke interventions and clinical trials and is supported by a competent neurosurgery team, modern imaging tools for the Nervous system such as MRI scanners, CT scanners, Digital subtraction angiography and SPECT scanners and interventions for neuroimmunological disorders. We have embarked on our future plans to set up comprehensive neurovascular, epilepsy care, neurogenetics and neurobionics programmes.

EDUCATIONAL COURSES

A. Undergraduate Courses

- Our faculty take didactic lecture classes in Neurology to final year MBBS students on topics such as stroke, epilepsy and parkinsonism.
- We also conduct yearly Dr. Nanda memorial Gold Medal Examination in Neurology to MBBS house officers.
- We have obtained approval to start BSc Neurotechnology course.

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B. Postgraduate courses

- MD postgraduate students in Internal Medicine and Psychiatry undergo clinical rotations in Neurology.
- Faculty in Neurology guide/co-guide MD thesis of postgraduates in Neurologically relevant topics for MD Medicine, Psychiatry, Physiology currently.
- We conduct Dr. Chandrasekhar Gold Medal Examinations for MD Medicine, Paediatrics and Psychiatry students.

C. Higher Speciality Courses

- Department of Neurology conducts DM course in Neurology. Seats: 2.
- Department co-guides PhD students in Pharmacology and physiology.

D. Other Courses

- Department has guided several MBB students in short-term ICMR summer research studentships in Stroke projects.
- Two Neurophysiotherapy postgraduate students from Mother Theresa Institute of paramedical sciences, Pondicherry underwent training in Neurology.
- One batch of final year BSc nursing students underwent rotations in Neurology.

CONTINUING MEDICAL EDUCATION PROGRAMS

- Department conducted a botulinum toxin workshop.
- Conducts monthly CMEs for doctors, physicians and neurologists under the aegis of Pondicherry association of neuroscientists and IMA.

CONFERENCES

- Department organized TROPICON 2010, the annual national conference of Tropical Neurology chapter of Indian Academy of Neurology on 27th and 28th March 2010 in the JIPMER auditorium. Around 130 delegates and 20 faculty from all over India participated in this conference. The theme of the conference was “Tropical Neurology in India: Environment is the key”. The meeting deliberated on common tropical neurological problems unique to India. Dr. Sunil Narayan was the Organising Secretary and secretary, scientific committee and Dr. Srijitshesh P, the treasurer for this conference.
- Department organized an international workshop in interventional neuroradiology in collaboration with University of Minnesota, USA. The International resource persons were Dr. Vallabh Janardhan, assistant professor of Neurology and interventional radiology and currently Director, Texas Stroke Research Centre, Dr. Vikram Janardhan, Chief Executive Officer, Insera Therapeutics Inc. Dr. Sunil Narayan was the convenor and Dr. Srijitshesh P, the organizing secretary for this workshop.
Dr. Sunil K Narayan presented a paper at the European Federation of Neurological Societies Conference in Florence, Italy held from 12-15 October 2009. He presented a paper “Comprehensive North-East England CADASIL registry: Community impact and Disease burden”, on his research work in stroke genetics over a commonwealth scholarship.

Dr. Narayan chaired a session in the annual national conference of Indian academy of Neurology held at Cochin from 11th to 14th October 2010.

The following papers were presented at this congress from the department of Neurology:

- Dr. Sunil Narayan, head of the department and Dr. Sushama Sharma, senior resident, Neurology attended the Neurointensive Crae workshop held at CARE Hospital, Hyderabad from November 27th to 28th.
- Dr. Sunil Narayan chaired a session on clinical case discussion at the Neuroupdate Chennai held from 8th to 10th January.
- Dr. Narayan also chaired a session in the TS Srinivasan knowledge conclave on “Brain, Mind and Soul- integrating the interface” held on 12th and 13th February 2010.
- Dr. Sreejithesh P, assistant professor of Neurology, was a deligate at the neurovascular intervention workshop held in New Delhi from 17th -20th February.
- Dr. Srijithesh P, assistant Professor, Neurology attended the Movement disorder workshop held at Mumbai from 21st to 22nd November and presented and discussed two video case reports.
- Dr. Sunil Narayan and Dr. Srijithesh P attended the Indo-French workshop on Pharmacogenomics held from Nov-30th to Dec 2 at JIPMER.

**RESEARCH PROJECTS**

1. Pharmacogenomics of antiepileptic drug diphenyl hydantoin in Epilepsy patients: In collaboration with Pharmacology: ICMR Center for Advanced Research in Pharmacogenomics: PhD thesis Pharmacology (Co-investigator).
2. Association of total plasma homocysteine, B12 and folic acid in dementia, depression and schizophrenia: MD thesis psychiatry (Chief guide).


5. Association of total plasma homocysteine, vitamin B12 and folic acid levels and MTHFR gene polymorphisms with ischemic strokes in Tamilian population-Intramural research grants (Principal investigator).

6. Association of thrombophilic factors (Protein C, Protein S, Antithrombin III, Factor V Leyden and antiphospholipid antibodies) –Intramural research grants (Principal investigator).

PUBLICATIONS


PATIENT CARE SERVICES

A. Clinical

Outpatient Care: With an average of 600 per week Neurology patients including over 250 Epilepsy, 100 headache, and over 50 stroke, 50 Parkinsonism and other extrapyramidal disorders, Neurology has one of the busiest OPDs of JIPMER with quaternary level care and offer free drugs for all common conditions. Department receives the support of a medical social worker on the outpatient days.

Inpatient care: Department acquired a state of the art 6-bedded acute stroke care/ neurointensive care unit with laptop based digital EEG, ENMG, TCD and 6 ventilators, a 16 bedded intermediary care ward and 4-special ward beds considerably augmenting its patient care services. Free plasma exchange and IV methyl predniolone and IVg therapy for acute neuroimmunological diseases, antibiotic, antifungal and antiviral therapy for CNS infections and IV tPA thrombolysis therapy for acute ischemic strokes with prompt laboratory supports including neuroimaging, neurochemistry and neurophysiologic studies and access to internet in all wards makes our service efficient and unique.

B. Laboratory

Equipments: Department further acquired two video EEG machines with long term monitoring facilities including one with wireless recording, one ENMG/EP machine and one deep brain stimulator system.

C. Community Work

Department of Neurology with Neurosurgery conducted a medical camp in Karaikkal at the JIPMER outreach centre. This was attended by around 250 patients.

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

1. Dr. Sunil Narayan was selected for inclusion into Morquio's International Who is who directory.

2. The JIPMER team won the first prize in the TROPICAL NEUROLOGY quiz conducted during in TROPICON2010.

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. Sunil Narayan was a selected expert for an international survey on stroke service monitoring in developing countries by World Stroke Organisation.

He was an expert for the National Board for accreditation of hospitals for starting DipNB programme in Neurology.

Dr. Narayan was an expert for UPSC for selection of faculty to Neurology.

He was also an examiner in Neurology for Dr. NTR and KEM medical universities.

Dr. Narayan was an expert for DST for evaluation of scientific projects for funding.
SIGNIFICANT EVENTS IN THE DEPARTMENT

1. Department of Neurology observed World Stroke Day on 26.10.2009. In connection with this, a quiz programme for residents on “Stroke and acute brain attacks” and an essay writing competition for nursing students on “Nursing care in acute phase and rehabilitation of stroke” were conducted. Department of Neurology participated in the World Stroke Day proceedings of the Pondicherry association of Neuroscientists held on 1st November at the Hotel Sunway, Pondicherry. Dr. Sunil Narayan, head of the department talked on update on management of acute ischemic stroke, Dr. Sreeejithesh P, assistant professor of Neurology, JIPMER on Obstructive sleep apnoea, a new risk factor for stroke.

2. Dr. Narayan also gave a talk on Stroke therapy awareness in the All India Radio, Pondicherry.

3. Department of Neurology participated in the world Epilepsy day proceedings observed on 17th November 2010, hallmarked by a Epilepsy awareness walk conducted on the Pondicherry beach by the Pondicherry Epilepsy association. Dr. Sunil Narayan talked on the importance of enhancing the awareness on the organic basis and treatbility of of the majority of epilepsy cases in the community.

4. Department of Neurology participated in the World Dementia Day awareness activities by distribution of banner and posters on 19th September.
8.18 Neurosurgery

Assistant Professors
V.R. Roopesh Kumar
M.S. Gopalakrishnan
C.V. Shankar Ganesh
M.S. Venkatesh

BACKGROUND INFORMATION OF THE DEPARTMENT

The formal division of Neurosurgery started functioning with the joining of Assistant Professors V.R. Roopesh Kumar, M.S. Gopalakrishnan, C.V. Shankar Ganesh, M.S. Venkatesh.

EDUCATIONAL COURSES

A. Undergraduate Courses

M.B.B.S. students, belonging to sixth semester are lectured on the assessment, examination, investigation and management of head injury and other neurosurgical disorders. Concept based teaching is practiced. Photographs and operative videos are routinely used for teaching.

B. Postgraduate Courses

M.S. General surgery students (First year, 8 students) are posted in the department for a period of one month. Training is imparted to them in the examination, assessment, investigation and treatment of patients with head injury and other neurosurgical disorders. Bedside clinics, intensive care management in the ICU and live operative demonstration in the operating room are part of the routine. Residents are allowed to operate (under supervision) on patients with head injury and assist other elective surgeries. Seminars and case presentations are regularly held.

M.S. ENT (First year, 2 students) are trained for a period of one month. Neurological assessment of patients with special emphasis on neuro-otology is taught. Cerebello-pontine angle and other skull base lesions and their clinical and operative management are part of the training.

Four M.S. General surgery postgraduate residents from Mahatma Gandhi Medical College receive training for a period of one month. Training pattern is similar to that of JIPMER General surgery residents.

M. Sc. Physiotherapy students from Mother Therasa college of Physiotherapy are sent to our department for a period of one month. Functional rehabilitation of neurosurgical patients both in the intensive care and in the wards are the main theme of the training programme.
C. Other Courses

These include training to a batch of students of ‘Prehospital trauma care technology’ – a diploma course. Students are trained in ‘on site’ assessment and initial management of patients with head injury.

CONFERENCES

**Dr. V.R. Roopesh Kumar**

- Attended the 11th Annual conference of the skull base surgery society of India and Endoscopic skull base surgery cadaveric workshop, from 2nd – 4th October 2009 at Hyderabad, India.
- Attended the 12th Annual AIIMS microneurosurgery workshop held from 18th - 20th February at AIIMS, New Delhi, India.
- Participated in the 6th Endonasal endoscopic skullbase workshop and Ginde oration from 9th -11th April 2009, at Mumbai, India.

**Dr. M.S. Gopalakrishnan**

- Attended the 11th Annual conference of the skull base surgery society of India and Endoscopic skull base surgery cadaveric workshop, from 2nd – 4th October 2009 at Hyderabad, India.
- Presented a poster titled ‘Submerged neurosurgical operating environment – A theoretical construct, at the 58th Annual conference of the Neurological society of India – NSICON 2009 from 17- 20th December, 2009, held at SGPGI, Lucknow, India.
- Attended the 12th Annual AIIMS microneurosurgery workshop held from 18th - 20th February at AIIMS, New Delhi, India.
- Participated in the 6th Endonasal endoscopic skullbase workshop and Ginde oration from 9th -11th April 2009, at Mumbai, India.

**Dr. C.V. Shankar Ganesh**

- Presented a paper titled ‘A study of pediatric brain abscess in JIPMER’ at the 58th Annual conference of the Neurological society of India – NSICON 2009 from 17- 20th December, 2009, held at SGPGI, Lucknow, India.
- Attended the 2nd Annual conference of the Indian society of Neuro-oncology, held from 2-4th April, 2010 at Chennai, India.

PUBLICATIONS

**Journals**

V.R. Roopesh kumar, M.S. Gopalakrishnan, et al, Neurosarcoidosis - An atypical presentation. Accepted for publication in Neurology India.

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BACKGROUND INFORMATION OF THE DEPARTMENT

This department started as a part of RCC from May 2009. The department has one SPECT-CT gamma camera, one Rectilinear scanner, 2 isotope dose calibrators, 2 contamination monitors and 2 radiation survey monitor. Isotope Iodine-131 50microCi capsules used to come every fortnight for imaging thyroid. From May-2009 to Feb 2010 the department used to perform iodine thyroid scans and CT for RT planning and a total of 438 studies were done during this period.

The department started receiving technetium generator as a source of radioactive isotope (99m-Tc) and cold kits for various nuclear medicine studies like bone scan, hepato-biliary scan, renal scan (DTPA & DMSA), lymphoscintigraphy, Brain perfusion in March-2010 and total of 158 studies were done in March-2010.

In all from May 2009 to March 2010, total of 596 studies were conducted in the department.

CONTINUING MEDICAL EDUCATION PROGRAMS

Dr. Dhanapathi Halanaik


PUBLICATIONS

Journals


PATIENT CARE SERVICES

A Total of 596 Nuclear Medicine diagnostic studies and CT scan for RT planning has been performed from May-2009 to March-2010.
ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

1. Endonuclear inter departmental case discussions once in a month.

2. Nuclear-Immunology inter departmental case discussions once in a month.

The department will soon start a state of art “Isolation ward” for high dose radionuclide therapy. With this facility we will be able to treat carcinoma thyroid patients for residual and metastatic disease, hyperthyroidism requiring doses more than 15 mCi, isotope bone pain palliation, radiosynovectomy and iodine-131 MIBG for neuroendocrine tumors. The department is expected to have PET-CT with cyclotron also, which has enormous applications in oncology as well as in non-oncology conditions.
# 8.20 Obstetrics and Gynaecology

<table>
<thead>
<tr>
<th>Professor &amp; Head</th>
<th>S. Habeebullah</th>
</tr>
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<tbody>
<tr>
<td>Professors</td>
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<tr>
<td>P. Reddi Rani</td>
<td>S. Soundararaghavan</td>
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<tr>
<td>Chief Medical Officer (NFSG)*</td>
<td>N.K. Nayak</td>
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<td>Additional Professors</td>
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<tr>
<td>Dasari Papa</td>
<td>Latha Chaturvedula</td>
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<td>Assistant Professors</td>
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<tr>
<td>S. Haritha</td>
<td>P. Veena</td>
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<tr>
<td>K. Manikandan</td>
<td>Dilip Kumar Maurya</td>
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<tr>
<td>N.S. Kubera</td>
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*CHS

## BACKGROUND INFORMATION OF THE DEPARTMENT

The department of Obstetrics and Gynaecology delivers high quality patient care simultaneous with intensive academic and research activities. The department consists of 4 units with 12 consultants and 10 senior residents. Each year 8 postgraduates are inducted into the MS Obstetrics and Gynaecology postgraduate programme.

On an average 88,000 outpatients and 20,000 In-patients are treated per year. The average number of deliveries and major surgeries per year are 16,360 and 1,109 respectively.

The department is equipped with state of the art facilities for the assessment of the fetus and management of high risk pregnancy, screening and early diagnosis of cervical cancer through Pap smear and colposcopy, performing minimally invasive surgeries and procedures through the use of laparoscope, managing the problems of infertility including microsurgery, and treating gynaecological cancers through oncologic surgeries and chemotherapy.

Undergraduate MBBS students are taught through bedside clinical classes, small group demonstrations and tutorials, and theory lectures in addition to observation training of operative techniques in the Operation Theatres. Theory classes are also taken for the nursing students.

Postgraduates undergo rigorous training in all aspects of Obstetrics and Gynaecology. Regular lecture classes, bedside clinics, journal clubs and symposia form part of their training in addition to practical training under supervision in the labor ward and operation theatres.
The department is equally involved in high quality research. Each Postgraduate carries out a thesis/dissertation as part of the postgraduate programme under the guidance of the faculty. In addition, the faculty are also involved in ongoing research projects and produce a number of publications in indexed journals. It is also a centre for Postpartum programme and Human Reproductive Research Centre under the ICMR.

EDUCATIONAL COURSES

A. Undergraduate Courses

The department continues with its undergraduate teaching programmes which include MBBS (for six semesters) and B.Sc Nursing Students (VIII semester). UG teaching programmes include lectures, bedside clinical teaching, tutorials, symposia and modular teaching on specialized topics. In addition, undergraduates are specially exposed to family planning with two weeks posting. Undergraduates are also taught in the OPDs and OTs appropriately. During the VIII and IX semester they are posted in the labour room and they are trained to conduct normal deliveries and perform basic procedures like IV access, episiotomy and repair, blood transfusion etc.

Dr. Latha Chaturvedula, Additional Professor is the faculty of NTTC since September 2004. Involved in Training of trainers in medical education every six months taking sessions on educational objectives, skill learning, OSCE and ethics for medical education.

B. Postgraduate Courses

Eight Post graduates are admitted to the dept every year. Post graduates are trained by rotation in all the units of the dept. In the first year of Post graduation they are posted to departments of Anaesthesiology, Radiotherapy and Paediatrics for one month each. Postgraduate training programme includes symposia, journal club, clinical case discussions, audit meetings and lectures. Post graduates are trained in managing normal and abnormal pregnancies and are trained to perform normal deliveries, instrumental deliveries and caesarean sections. They work in labour room on rotation and during this time they acquire skills to manage obstetric emergencies. They assist in gynaecological surgeries and perform minor and some major procedures. They are exposed to basic ultrasound, basic endoscopy and Gynae oncology.

CONTINUING MEDICAL EDUCATION PROGRAMS


2. Conducted CME on “Explaining the unexplained Infertility” By Dr. Nimish Shelat in the month of July 2009.

3. Organised and conducted CME on “correctable congenital anomalies at birth” on 22.11.2009 by the Obst & Gyane Dept in association with Obst & Gyn society of Pondicherry. Two guest speakers from Chennai were the invited faculty. Other faculty were from the depts of Obst & Gynae, Surgery, paediatrics and Radiology of JIPMER. PNDT Act and prevention of congenital malformations were also discussed along with surgically correctable malformations at birth. The role of new imaging modalities along with 2D USG was also emphasized. About 80 participants attended the CME along with all other postgraduates from the departments of paediatrics and surgery.

CONFERENCES

Dr. S. Habeebullah

- Attended Bangalore Society of Obstetrics & Gynaecology CME 2009 at Bangalore on 26.6.2009 and conducted case discussion on “Cancer Cervix”.
- Attended the All India PG Training programme “Focus 2009” on 25.8.2009 at Jubilee Mission Medical College and Research Institute, Thrissur (Kerala) and conducted case discussions on 1) Endometrial cancer 2) Anaemia in pregnancy.
- Attended Revision Course on “OG Quest 2010” at Sri Ramachandra Medical College and Research Institute, Porur, Chennai on 3.2.2010 and conducted case discussion on gestational trophoblastic disease and other short cases.
- Attended Modular Training on HIV/TB conducted by Pondicherry AIDS Control Society 22.2.2010 at Pondicherry.
- Chaired a session at CME on ‘Menopause’ on 28.2.2010 in Mahatma Gandhi Medical College, Pondicherry.
- Referee for peer reviewing FOGSI Obstetrics and Gyn Journal of India.

Dr. S. Soundararaghavan

- Was referee for reviewing articles for Fertility & Sterility.
- Was international referee for reviewing articles for British Medical Journal.

Dr. Dasari Papa

- Participated in 53rd AICOG at Guwahati, from 20.1.2010 to 22.1.2010 and received Fellowship of Indian College of Obstetricians & gynaecologists on 21.1.2010 (FICOG)
- Received a certificate and award for Journal’s best paper prize for the year 2008.
- Presented a paper on “Ultrasonographic morphological scoring and Risk Malignancy Index (RMI) in prediction of ovarian malignancy” and was awarded the best paper prize for the same.

Dr. Latha Chaturvedula

- She is the faculty for PG orientation session on Ethics for medical doctors
- Attended the Interview at Pondicherry All India Radio on 22.7.2009 for the title of “Adikkadi Karukkalappu aabaththa”.

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• Attended Yuva Fogsi Conference 2009 South Zone on 28&29th Nov.2009 at Madurai and gave a talk on “Borderline ovarian tumours – Management dilemmas”.

• Attended CME on “Menopause” on 28.2.2010 in Mahatma Gandhi Medical College, Pondicherry and gave a talk on “Deciphering & navigating menopause”

• Gave a talk on “Mental health of women” in All India Radio on 11.2.2010.

Senior Residents and Junior Residents attended five camps – for pregnant women, Geriatric age group and adolescents in and around Pondicherry.

I.C.M.R. Projects

• Phase III Multicentre clinical trial with sub dermal single – rod contraceptive implant – IMPLANON (Follow up & Return of Fertility after removal).

• A Simple behavioral Intervention to reduce episiotomy rates – An ICMR Task Force study.

PUBLICATIONS

Journals


**PATIENT CARE SERVICES**

<table>
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<th>S.No</th>
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<td>3</td>
<td>Infertility Clinic</td>
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<td>Post Natal clinic</td>
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</table>

**Operations Performed**

**Gynaecology**

- Major Abdominal surgery: 546
- Major Vaginal Surgery: 450
- Oncology Surgery: 113
- Diagnostic Lap/Hysteroscopy: 89
- Operative Laparoscopy: 40
- D&C/FC/EA: 1076
- Biopsies/Polypectomy: 1726
- Cystoscopy/Cryo/colposcopy: 83
- Papsmear: 6939
- MTP: 212

**Obstetrics**

- Deliveries: 16360
- Vaginal deliveries: 11289
- Operative vaginal deliveries: 2018
- LSCS: 2970
- Emergency Laparotomy: 43
- NST: 3431
- USG: 10435
Side Laboratory Investigations (O&G)

### Blood
- Hb: 19215
- BT, CT: 6891
- TC, DC: 697
- ESR: 477
- Blood Grouping: 4995

### Urine
- Routine & Microscopy: 8017
- Pregnancy Test: 779
- Ketones: 84
- BS: 34
- Albumin: 31,229

### Stool
- Ova/ cyst: 150
- Occult bld: 27

**POSTPARTUM PROGRAMME**

**Achievement of different family planning methods**

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**Immunization Particulars**

**OPV**

**JIPMER OPD**

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**Service Area**

<table>
<thead>
<tr>
<th>Dose</th>
<th>Achievement</th>
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</thead>
<tbody>
<tr>
<td>I</td>
<td>58</td>
</tr>
<tr>
<td>II</td>
<td>72</td>
</tr>
<tr>
<td>III</td>
<td>71</td>
</tr>
<tr>
<td>Booster</td>
<td>71</td>
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<table>
<thead>
<tr>
<th>Vaccine</th>
<th>I dose</th>
<th>II dose</th>
<th>III dose</th>
<th>Booster dose</th>
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<tbody>
<tr>
<td>DPT</td>
<td>58</td>
<td>72</td>
<td>71</td>
<td>71</td>
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<tr>
<td>Hepatitis B</td>
<td>61</td>
<td>56</td>
<td>72</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Measles 87</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>MMR 68</td>
</tr>
<tr>
<td>T.T</td>
<td>65</td>
<td>65</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vitamin A</td>
<td>75</td>
<td>61</td>
<td>67</td>
<td>65</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>V dose 64</td>
</tr>
</tbody>
</table>

**AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS**

Dr. Dasari Papa, Additional Professor participated in 53rd AICOG at Guwahati, from 20.1.2010 to 22.1.2010 and received Fellowship of Indian College of Obstetricians & gynaecologists (FICOG) on 21.1.2010.

Dr. Dasari Papa, Additional Professor received a certificate and award for Journal’s best paper prize for the article published in the journal of Obst & Gynae society of India for the year 2008.

Dr. Sharmila.V, a postgraduate in Obst. & Gynaec. received from Dr. A.V. Umachigui Memorial Gold Medal.

Minu Jose Chiramel (Miss) of M.B.B.S Course received from Dr. & Dr. (Mrs.) S.N. Mukherjee Gold Medal in Obst. & Gynaec.

John Robert.A of M.B.B.S Course received from Dr. Uvathi Memorial Endowment Prize.
BACKGROUND INFORMATION OF THE DEPARTMENT

The Department of Ophthalmology was established in the early 1960s. Prof. Mishra was the first Head of the department but it was Prof. N.N. Sood who gave a face lift to the department. In 1984, the department was named as “Upgraded Department of Ophthalmology” and specialty clinics like Retina Clinic, Cornea and Glaucoma Clinic were established. The department was also the first one in government sector in whole of south India to procure and start phacoemulsification surgeries in 1996.

EDUCATIONAL COURSES

A. Undergraduate Course

The teaching programme consists of theory classes and clinical postings in 6th and 7th semesters of MBBS curriculum which includes modular and integrated teaching.

B. Postgraduate Courses

The postgraduate courses offered consisted of MS (3) and DO (2).

CONTINUING MEDICAL EDUCATION PROGRAMS

Dr S. Sandramouli, Oculoplastic Surgeon, from The Royal Wolverhampton Hospitals, NHS Trust specializing in Oculoplasty in April 2010 presented a lecture on Radiology in Ophthalmology”.

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CONFERENCES

Dr. Vasudev Anand Rao

- Chaired & delivered key note address – National Workshop and Seminar on Role of yoga in the prevention and management of Hypertension.
- Moderator of CME on “Strabismus Update” on 25.6.09 at Aravind Eye Hospital, Puducherry.
- Attended CME on “Recent Trends in Ophthalmic Care” at Aravind Eye Hospital, Puducherry on 19.4.09.
- Delivered two lectures “Disc Edema” and “Colour Vision”, 2nd Eye to Eye examination for postgraduate teaching programme at MM Joshi Eye Institute, Feb 5-6, 2010.
- Co- author of Paper presented at 68th Annual Conference of All India Ophthalmological Society 2010, held at Kolkata on “Ocular Myasthenia with interesting systemic associations”.
- Co-author of Poster presented at “All India Ophthalmological Society 2010”, held at Kolkata on Primary orbital neuroblastoma with intraocular extension.

Dr. Renuka Srinivasan

Attended 68th Annual Conference of the All India Ophthalmological Society (January 21 - 24, 2010) held at Science City, Kolkata, West Bengal. The presentations in the conference are: -

- Chief Instructor of instruction course entitled “Systemic diseases – a look beyond diabetes’.
- Presented a Paper on “Haematological diseases and the eye”.
- Co- author of the paper “Comparison of different IOL formulae”.
- Co- author of the paper “Ocular manifestations of lymphoreticular malignancies”.
- Co- author of the Poster on “Effect of topical steroid on systemic hypertensives and normotensives”.
- Co- author of the Poster on “Effect of phacotrabeculectomy on central corneal thickness”.
- Co- author of the paper “Effect of combined surgery on central corneal thickness”.

Dr. Subashini Kaliaperumal

- Took part in the 60th National Teachers’ Training Workshop 2010 held at JIPMER from 17th Feb-27th Feb.
- Attended the Annual Conference of Indian Intraocular Implant & Refractive Society, 10-11 July 2009 Taj Coromandel, Chennai.
- Attended Glaucoma surgical symposium “Cutting Edge 2009” at Aravind Eye Hospital, Puducherry, July 18-19 2009.

- Membership- became a member of “Glaucoma Society of India” in February 2010.

**Dr. Ramesh Babu**

- Attended 68th Annual Conference of the All India Ophthalmological Society (January 21-24, 2010) held at Science City, Kolkata, West Bengal.
  
  a. Co-instructor for the instruction course “Systemic Ophthalmology – a look beyond diabetes”.

- Attended the Annual Conference to Indian Intraocular Implant & Refractive Society, 10-11 July 2009 Taj Coromandel, Chennai.

**RESEARCH PROJECTS**

**A. Funded Projects**

**Ongoing**

“Ahmed Glaucoma Valve in adult refractory glaucoma – a follow up study”.

It is an intramural research project funded by JIPMER and approved in Feb. 2010. The duration of the project is 2 years.

Principal Investigator: Dr. Subashini Kaliaperumal.

Co-investigator: Dr. Vasudev Anand Rao.

The primary aim of the study is to evaluate the intraocular pressure control with Ahmed glaucoma valve (AGV) in adult eyes with refractory glaucoma. It would be a longitudinal interventional study and includes eyes with uncontrollable intraocular pressure despite medical treatment or failed filtering surgery in the age group of 30 to 75 years. Childhood glaucomas, ciliary block glaucoma, eyes with vitreous in the anterior chamber, and eyes with severe scleral and corneoscleral limbal thinning will be excluded from the study. The device (AGV) is implanted in the affected eye after written informed consent under local anaesthesia. Postoperatively, the intraocular pressure is evaluated at repeated intervals by applanation tonometry. Any complications that develop are evaluated and managed.

**B. Departmental Projects**

**Ongoing**

1. Evaluation of risk factors in primary open angle glaucoma.

2. Comparative study of one site versus two site phacotrabeculectomy.

3. Central Corneal thickness in normal tension glaucoma.

5. Factors affecting outcome of Pan Retinal Photocoagulation in PDR.
6. Outcome of small incision cataract surgery in pseudoexfoliation.
7. Role of topical NSAIDs in prophylaxis of cystoid macular edema following uncomplicated cataract surgery.
8. Efficacy and safety of IVTA in refractory diabetic macular edema.
9. Anterior segment changes in eyes with pseudoexfoliation.

PUBLICATIONS

Procurement of Equipments
1. Operating Microscope with Digital Imaging
2. Fundus Camera

PATIENT CARE SERVICES
No. of surgeries:

<table>
<thead>
<tr>
<th></th>
<th>Inpatient</th>
<th>Outpatient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elective</td>
<td>1817</td>
<td>15</td>
</tr>
<tr>
<td>Emergency</td>
<td>85</td>
<td>7</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Name of treatment</th>
<th>No. of Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Cataract Surgery &amp; IOL implantation</td>
<td>(Small inci. 1122 &amp; Large: 190)Total: 1312</td>
</tr>
<tr>
<td>2.</td>
<td>Scleral fixation</td>
<td>43</td>
</tr>
<tr>
<td>3.</td>
<td>Lens extraction</td>
<td>6</td>
</tr>
<tr>
<td>4.</td>
<td>Trabeculectomy</td>
<td>11</td>
</tr>
<tr>
<td>5.</td>
<td>Combined surgery</td>
<td>14</td>
</tr>
<tr>
<td>6.</td>
<td>Squint Correction</td>
<td>7</td>
</tr>
<tr>
<td>7.</td>
<td>Evisceration</td>
<td>7</td>
</tr>
<tr>
<td>8.</td>
<td>Enucleation</td>
<td>2</td>
</tr>
<tr>
<td>9.</td>
<td>ARC</td>
<td>4</td>
</tr>
<tr>
<td>10.</td>
<td>Corneal tear repair</td>
<td>14</td>
</tr>
<tr>
<td>11.</td>
<td>Scleral tear repair</td>
<td>12</td>
</tr>
<tr>
<td>12.</td>
<td>Penetrating Keratoplasty</td>
<td>23</td>
</tr>
<tr>
<td>13.</td>
<td>Triple Procedure</td>
<td>3</td>
</tr>
<tr>
<td>14.</td>
<td>Anterior Vitrectomy</td>
<td>82</td>
</tr>
<tr>
<td>15.</td>
<td>Pars plana vitrectomy</td>
<td>5</td>
</tr>
<tr>
<td>16.</td>
<td>D.C.R.</td>
<td>18</td>
</tr>
<tr>
<td>17.</td>
<td>Lamellar Keratoplasty</td>
<td>8</td>
</tr>
<tr>
<td>18.</td>
<td>D.C.T.</td>
<td>3</td>
</tr>
<tr>
<td>19.</td>
<td>Probing</td>
<td>4</td>
</tr>
<tr>
<td>20.</td>
<td>Cyclophoto coagulation</td>
<td>9</td>
</tr>
<tr>
<td>21.</td>
<td>Entropion Repair</td>
<td>5</td>
</tr>
<tr>
<td>22.</td>
<td>EUGA</td>
<td>10</td>
</tr>
<tr>
<td>23.</td>
<td>Manual I/A</td>
<td>29</td>
</tr>
<tr>
<td>24.</td>
<td>Orbital Implant</td>
<td>4</td>
</tr>
<tr>
<td>25.</td>
<td>AC Reformation</td>
<td>6</td>
</tr>
<tr>
<td>26.</td>
<td>Resuturing</td>
<td>6</td>
</tr>
<tr>
<td>27.</td>
<td>Iris reposition</td>
<td>22</td>
</tr>
<tr>
<td>28.</td>
<td>Lens matter aspiration</td>
<td>24</td>
</tr>
<tr>
<td>29.</td>
<td>IOL Repositioning</td>
<td>14</td>
</tr>
<tr>
<td>30.</td>
<td>IOL Explantation</td>
<td>10</td>
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</tbody>
</table>

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<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Count</th>
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</thead>
<tbody>
<tr>
<td>31.</td>
<td>Amniotic membrane transplantation</td>
<td>10</td>
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<tr>
<td>32.</td>
<td>Intra Vitreal Antibiotics</td>
<td>11</td>
</tr>
<tr>
<td>33.</td>
<td>Intra cameral antibiotics</td>
<td>30</td>
</tr>
<tr>
<td>34.</td>
<td>Dermoid excision</td>
<td>2</td>
</tr>
<tr>
<td>35.</td>
<td>Excisional Biopsy</td>
<td>3</td>
</tr>
<tr>
<td>36.</td>
<td>Incisional biopsy</td>
<td>2</td>
</tr>
<tr>
<td>37.</td>
<td>Pterygium excision</td>
<td>9</td>
</tr>
<tr>
<td>38.</td>
<td>Pterygium excision with Conj. Autograft</td>
<td>5</td>
</tr>
<tr>
<td>39.</td>
<td>ACIOL Implantation</td>
<td>21</td>
</tr>
<tr>
<td>41.</td>
<td>ICCE</td>
<td>4</td>
</tr>
<tr>
<td>42.</td>
<td>Miscellaneous Minor Operation</td>
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<tr>
<td>43.</td>
<td>I &amp; D</td>
<td>217</td>
</tr>
<tr>
<td>44.</td>
<td>Abscess drainage</td>
<td>10</td>
</tr>
<tr>
<td>45.</td>
<td>Chalazion(I &amp; C)</td>
<td>178</td>
</tr>
<tr>
<td>46.</td>
<td>Tarsorrhaphy</td>
<td>42</td>
</tr>
<tr>
<td>48.</td>
<td>Cauterization</td>
<td>18</td>
</tr>
<tr>
<td>49.</td>
<td>Suture Removal</td>
<td>171</td>
</tr>
<tr>
<td>50.</td>
<td>Caterpillar hair removal</td>
<td>28</td>
</tr>
<tr>
<td>51.</td>
<td>Foreign body removal (extraocular)</td>
<td>249</td>
</tr>
<tr>
<td>52.</td>
<td>Syringing</td>
<td>4302</td>
</tr>
<tr>
<td>53.</td>
<td>Schirmer's Test</td>
<td>3438</td>
</tr>
<tr>
<td>54.</td>
<td>Scraping</td>
<td>1531</td>
</tr>
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</table>

**Clinics**

1. Fundus Clinic                          1088
2. Glaucoma Clinic                        661
3. Post Operative Clinic                  2666
4. Cornea Clinic                          664
Special investigations and procedure

1. Post Mydriatic Test 4543
2. Refraction 9439
3. Keratometry 1546
4. Contact lens 158
5. Yag Laser 541
6. A Scan / B Scan 1555
7. Automated Perimetry 236
8. Fluorescein Angiography 93
9. Panretinal Photocoagulation 99
10. Laser Iridotomy 14
11. Pacymetery 203

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Tele-Ophthalmology Project

The Tele-ophthalmology project was granted to the Department of Ophthalmology by the NPCB, Ministry of Health and Family Welfare in August 2008. Professor Renuka Srinivasan was the chief coordinator and Dr. K Ramesh Babu, Assistant Professor, was appointed as the coordinator for the project. Since then the Department of Ophthalmology has been active in conducting eye camps in and around Puducherry. In the last one year 45 camps have been conducted and 11,160 people screened.

State of the art equipments including non-mydriatic fundus camera which is used for retinal screening for diabetic retinopathy & glaucoma, etc, auto-refractometer to correct refractive errors and non-contact tonometer for glaucoma screening to the camp site.

Cataract Surgery: 390 patients with cataract were brought from camp site to the hospital for surgery.

Free Spectacles: Over 1400 patients were given free spectacles under this project.

Educative pamphlets and posters to create awareness on diabetic retinopathy, cataract, glaucoma and eye donation are displayed at the camp site.

Various NGO’s who join hands with us are also motivated in spreading awareness on eye donation. This has increased the eye donation rate.

School Screening: 6,766 school students in nineteen Govt. and Govt-aided schools were screened for ocular disorders in Puducherry. This has thrown light on the prevailing visual defects particularly refractive errors in school children, which is easily detectable and correctable.

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**Diabetic Screening:** 6,517 known diabetics were screened under this project in the last one year. Over 400 diabetics were detected to have diabetic retinopathy. All diabetic patients attending the diabetic clinic in JIPMER were screened for retinopathy using non-mydriatic fundus camera. Thus the initiative for an integrated, holistic approach to diabetic care has been made and 1,246 patients benefited from our effort.

**Glaucoma Screening:** All patients at camp site are screened for glaucoma by use of fundus camera and non-contact tonometer. 537 new cases of glaucoma suspects were detected and were referred to JIPMER for further evaluation.

**Teachers training workshops:** In collaboration with the National Programme for control of Blindness,(NPCB) Puducherry and Department of School Education, Puducherry a comprehensive training programme was conducted for school teachers in vision screening. This was conducted in August-September 2009, wherein 199 teachers from 149 schools in Puducherry were trained. The faculty in Department of Ophthalmology trained these school teachers in assessing vision and detecting common ocular ailments in children like squint, cataract, conjunctivitis, ocular trauma etc. They were also motivated for encouraging eye donation. They were provided with a vision screening kit comprising of a Snellen chart, torch, feedback forms and referral cards.

This programme has been a great success since we have received feedback from almost all schools. More than 35,400 school children from ninety three schools have been screened in a short span of 4-6 months. We are in the phase of getting back to these schools and giving correcting spectacles to the defective students at their respective schools.

**ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS**

**Dr Vasudev Anand Rao**

1. Internal subject expert for selection for the post of Assistant Professor in Ophthalmology on 14th November 2009 at Hotel Residency Towers, Chennai.

2. Expert member of Selection Committee for recommending appointment of Associate Professor of Ophthalmology (UCMS) in February 2010.

3. Member of Committee for inspection of Mahatma Gandhi Medical College & Research Institute, Puducherry for registration to perform Corneal Transplantation in November 2009.

4. External Member for Undergraduate Ophthalmology final examination in Lady Hardinge Medical College, Delhi in December 2009.

5. Appraiser for DNB training for the subject of Ophthalmology at Aravind Eye Hospital, Puducherry.

6. MCI inspector at Deccan College of Medical Sciences, Hyderabad in September 2009.

7. MCI inspector of Medical College affiliated to Pondicherry University in March 2010.

8. MCI inspector of NDM VP Sanjay Medical College, Nashik in September 2009.
Dr. Renuka Srinivasan

1. External Member for Undergraduate Ophthalmology final examination in Stanley Medical College, Chennai in March 2010.


3. MCI inspector of Sri Siddhartha Medical College, Tumkur for increase of seats in MS (Ophthalmology) course in July 09 and Dec 09.

4. Appraiser for DNB training for the subject of Ophthalmology at Command Hospital, Kolkata in June 2009.

5. Appraiser for DNB training for the subject of Ophthalmology at Sant Paramanand Hospital, Delhi in October 2009.
BACKGROUND INFORMATION OF THE DEPARTMENT

The department of Orthopaedic Surgery is functioning since the inception of JIPMER. It has 64 sanctioned in-patient beds. In addition it caters to in patients admitted to emergency wards and special wards. The department runs out-patient services 6 days / week. Special clinics, namely clubfoot clinic, cerebral palsy/poliomyelitis clinic are functioning once a week and bone tumor clinic functions twice a month. Emergency services are provided seven days / week. The department is allotted 6 operation tables per week for major surgical work. Available surgical facilities in the department are: trauma surgery for routine and complex trauma including spinal injuries (state of the art internal fixation techniques are used); correction of congenital and acquired deformities using complex corrective procedures like Ilizarov technique; hip and knee total joint replacement; knee arthroscopy and ACL reconstruction; limb salvage reconstruction after bone tumor resections (custom mega prostheses); resection and extracorporeal irradiation and reimplantation for malignant bone tumours (only centre in India carrying out this procedure); spinal surgeries like antero-lateral decompression, anterior decompression, discectomy, posterior instrumentation and fusion for spondylolisthesis; routine poliomyelitis and cerebral palsy corrective procedures. The department functions as two clinical units. There is bone banking facility which uses ETO sterilized allograft bone. The department runs a post graduate programme with 4 MS candidates per year. In addition it takes part in Institute’s undergraduate MBBS, BSc(Medical Records), BSc(Nursing) and Emergency Trauma Technician Course.

EDUCATIONAL COURSES

- MBBS.
- MS Orthopaedic Surgery.
- Emergency Trauma Technician course.
CONTINUING MEDICAL EDUCATION PROGRAMS

Dr. D.K.Patro
- Delivered a guest Lecture titled ‘Compartment syndrome- controversial issues’ at the Instructional Course Lectures of OASIS held from 31st July to 1st Aug, 2009 at Pondicherry.
- TV Talk hosted by Doordarshan Kendra, Pondicherry on 16.9.2009.
- Attended the musculo-skeletal camp conducted by the Haemophilia Society. Pondicherry on 18th Apr. 2009.

Dr Jagdish Menon
- Was visiting faculty at workshop conducted on Paediatric Orthopaedics, Trichy CME TNOA on 7th June 2009.
- Delivered faculty lecture entitled “Principles of evaluation and treatment of Developmental Dysplasia of the hip” at Regional meet of the OASIS at Cochin on 11th Dec. 2009.
- Delivered faculty lecture on “Technique and pitfalls of titanium elastic nailing in paediatric fractures” at TNOACON at Courtallam in Feb. 2010.
- Attended the musculo-skeletal camp conducted by the Haemophilia Society. Pondicherry on 18th Apr 2009.

Dr Natraj AR
- Attended the Bangalore Orthopaedic society meet held in Jan. 2010.
- Attended the Karnataka State Orthopaedic meet held in Feb. 2010.

Dr Sreenivas T
- Attended the Bangalore Orthopaedic society meet held in Jan. 2010.
- Attended the Karnataka State Orthopaedic meet held in Feb. 2010.

Dr Deep Sharma

CONFERENCES

Dr Jagdish Menon
- Attended the Paediatric Orthopaedic Society of India Annual Meeting at Hyderabad on 24th – 26th Jan. 2010.
RESEARCH PROJECTS

Departmental Projects

**Completed**

1. C-Reactive Protein and IL-6 in early diagnosis of infection after open fractures'.
2. Donor site morbidity following harvest of free fibular graft.
3. A comparative study on the management of cubitus varus by arc osteotomy and lateral supra-condylar closed wedge osteotomy.
4. Outcome of cephalomedullary nailing in unstable inter-trochanteric and subtrochanteric fractures of femur- a prospective study.
5. Minimally invasive plate osteosynthesis in fractures of long bones.
6. Outcome of open reduction and internal fixation in closed displaced intra-articular fractures of the calcaneum.
7. Locking compression plate osteosynthesis in unstable distal radius fractures.
8. Use of calcium sulphate as a bone graft substitute in benign osseous lesions.
9. Titanium Elastic nailing in pediatric femur fractures- a comparison with hip spica casting

**Ongoing**

1. Extracorporeal irradiation and re-implantation as limb-salvage procedure in malignant bone tumours.
2. Effect of exercise on shoulder function and mobility following mastectomy with axillary dissection in patients with breast cancer.
3. Dynamic MRI and it’s role in the management of malignant bone tumors.
4. Resection arthrodesis using fibula for stage III Giant Cell Tumours’.
5. ‘Resection arthrodesis of wrist compared to resection arthroplasty of wrist using fibula.
6. Resection arthroplasty of knee using custom megaprosthesis’.
7. Open disectomy for massive intervertebral disc prolapse’.
8. ‘Synostosis excision, soft tissue interposition, tendon transfer for supination in congenital superior radio-ulnar synostosis’.
9. ‘Resection, fibular grafting with ilizarov for congenital pseudoarthrosis of tibia.
10. Outcome of biodegradable implants in small bone fractures.
11. Ponseti's technique in the treatment of replaced and neglected CTEV.
PUBLICATIONS

Journals


PATIENT CARE SERVICES

A. Clinical

The department functions as two clinical units. Out patient services are available on all days except Sundays and national holidays. The department has 64 sanctioned in-patient beds. In addition it caters to in- patients admitted to emergency wards and special wards. Special clinics, namely clubfoot clinic, cerebral palsy/ poliomyelitis clinic are functioning once a week and bone tumor clinic functions twice a month. Emergency services are provided round the clock for seven days a week. Surgeries performed in the department include trauma surgery for routine and complex trauma including spinal injuries (state of the art internal fixation techniques are used); correction of congenital and acquired deformities using complex corrective procedures like Ilizarov technique; hip and knee total joint replacement; knee arthroscopy and ACL reconstruction; limb salvage reconstruction after bone tumor resections (custom mega prostheses); resection and extracorporeal irradiation and reimplantation for malignant bone tumours (only centre in India carrying out this procedure); spinal surgeries like anterolateral decompression, anterior decompression, discectomy, posterior instrumentation and fusion for spondylolisthesis; routine poliomyelitis and cerebral palsy corrective procedures.

Average OPD attendance: 473 patients/ OPD

Average bed occupancy rate: 98%

Average number of major surgical procedures per month: 52

B. Laboratory

Bone Bank: The department runs a bone bank which uses processed and ETO sterilized allograft bone. Approximately 24 patients a year a benefitted from this allograft. These includes patients with large tumoral defects, difficult non-union and other structural defects.
AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr. D.K. Patro

Oration awarded


ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. D.K. Patro

1. In addition to the department of Orthopaedics, administrative head of Department of Physical Medicine and Rehabilitation also.

2. DNB Inspector ship:

   Appointed Inspector for starting and renewal of DNB courses in the specialty of Orthopaedics at the following centers and conducted the same:
   
   i.  ‘Pushpagiri institute of medical sciences, Tiruvalla’.
   ii. ‘Preethi Hospital, Madurai’.
   iii. ‘Max Hospital, New Delhi’.
   iv. ‘Railway hospital, Perambur, Chennai.
   v.  ‘ST John Hospital, Katapana, Kerala.
   vi. ‘MIOT Hospital, Chennai.

3. MCI Inspector ship:

   Appointed inspector for conducting inspection by MCI for the following institutions and conducted the same:
   
   i.  KPC Medical College, Jadavpur, Kolkata for MBBS.
   ii. KS Hegde Medical College, Mangalore for MS, ORTHO.
   iii. JJ Medical College, Davangere, Karnataka for MS ORTHO.
   iv.  ‘Alluri Sitarama Institute of Medical Sciences, ELLURU, Andhra Pradesh for MS Ortho.

4. Nominated as Subject Expert by Ministry of Health and Family Welfare, Govt. of India for the taskforce for revising the curriculum for MBBS. Attended the workshop conducted by the taskforce from 26.2.07 to 03.03.07 at MS Ramaiha Medical College, Bengaluru.

5. Nominated as subject Expert in the selection committee for faculty selection by Govt. of Puducherry.

6. Nominated member of Medical Equipment and Hospital Planning Division Council of Bureau of Indian Standards.

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7. **Post-gradute Examiner for the following:**
   
   i. MGR Health University, TamilNadu.
   
   ii. NTR Health University, AndhraPradesh.
   
   iii. Calcutta University, Kolkata.
   
   iv. Utkal University, Odisha.
   
   v. VSS University, Odisha.
   
   vi. RGUHS, Karnataka.
   
   vii. MAHE, Manipal.

**SIGNIFICANT EVENTS IN THE DEPARTMENT**

The following patient care services were started

1. Extra corporeal irradiation and reimplantation for malignant bone tumours as a Limb salvage procedure.

2. Total knee joint replacement.

3. Titanium elastic nailing.

4. Use of Bio-degradable implants.
BACKGROUND INFORMATION OF THE DEPARTMENT

The department of paediatric surgery was started in the year 1976 as a unit of General Surgery with a bed strength of 10 under the care of a part time consultant Prof. Chatterjee. In 1978, Prof. Chatterjee became a full time consultant looking after paediatric surgery. The department continued to grow and hence in 1986 two full time consultants were designated to look after the needs of the department. However in 1990 after the retirement of Prof. Chatterjee the department went back to having only a part time consultant to look after its needs until 2009. However the department continued to conduct undergraduate classes, look after the surgical needs of paediatric patients especially GIT, and training of postgraduates and Senior residents. It is to the credit of the department that at least a dozen post MS senior residents have gone on to complete their MCh in paediatric surgery.

However after the current recruitment of full time paediatric surgeons, the department has expanded to 30 beds including an exclusive 6 bedded paediatric surgery ICU, carrying out OPD services on all days of the week. The department now takes care of all aspects of paediatric surgery including paediatric thoracic, paediatric GI, paediatric genitourinary, pediatric solid malignancies and paediatric endoscopic surgeries.

In the last one year, we have several firsts to our credit, viz the first very low birth weight (1200g) neonate with Tracheo-oesophageal fistula with oesophageal atresia survived after a complete primary repair through a Right thoracotomy; the first 95% pancreatectectomy for diffuse nesidioblastosis was carried out successfully in a neonate and cured of the persistent hyperinsulinemic hypoglycemia; again for the first time at JIPMER a neonate with bilateral hydroureteronephrosis with posterior urethral valves and uremia underwent neonatal primary valve ablation without resorting to diversions i.e. a neonate with posterior urethral valves.

EDUCATIONAL COURSES

A. Undergraduate Courses

Conducting undergraduate classes for the VI/VIIth Semester of the MBBS students and internal evaluation at the end of the term.
B. Postgraduate Courses
Training of Postgraduate MS Students who are posted during their rotation of superspeciality postings.

CONFERENCES

Dr. Kumaravel S
Invited as faculty for the CME programme, Paediatric Surgical Update 2010 at Maulana Azad Medical College, New Delhi.

Dr. B Jindal
- attended the COPSCON 2009 at Coimbatore and presented the paper on Duplicate Bladder Exstrophy, a rare variant of Bladder Exstrophy.
- Dr. B Jindal attended the IAPSCON 2009 and presented a poster on Duplicate Bladder Exstrophy.

PUBLICATIONS

Journals

PATIENT CARE SERVICES

At present the Department of Paediatric surgery has a 16 bedded general ward, four bedded pay ward and a four bedded burns ward. We also run a Paediatric Surgical ICU with facilities for accommodating upto 6 neonates a total of 30 beds.

The department runs Out Patient Services on all six (working) days of a week with an average attendance of 80 patients (30 new patients and 50 follow up patients) daily. We are performing 250 minor procedures per month on an average (Prepuceal adhesiolysis, vaginal synechiae release, incision and drainage of abscess, Anal calibrations, dilatations, circumcision, lymphnode biopsies) in the OPD. We have carried out 489 major surgeries (291 elective surgeries and 198 emergencies) last year which includes about 35% neonatal cases.

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Academic
Prof. Chatterjee was felicitated on the 50 years of academics in Paediatric Surgery in Pondicherry and Prof. Raveenthiran, Prof. & HOD of Paediatric Surgery, Annamalai University, on 27th April 2009 gave a talk on “Ethics in Paediatric Surgery”.

Administration
Dr. Kumaravel S, joined the department in February 2010; at the recommendation of the HOD of Paediatric Surgery and with the concurrence of the Director, he was made In-Charge of the Department under the guidance of the HOD.
8.24 Paediatrics

Professor & Head
S. Srinivasan

Professors
B. Vishnu Bhat S. Mahadevan

Additional Professor
Niranjan Biswal

Assistant Professors
P. Narayanan P. Sriram
B. Adhisivam Sriram Krishnamurthy

BACKGROUND INFORMATION OF THE DEPARTMENT
The Department has 90 sanctioned beds including 6 bedded PICU (Paediatric Intensive care Unit) and 25 bedded Level–III NICU. The daily outpatient attendance averages around 200. The Department runs specialty clinics for child neurology, tuberculosis clinic, pediatric cardiology, nephrology, child guidance clinic, HIV and high risk follow up clinic for newborns. The emergency unit runs round the clock and handles all pediatric emergencies. The PICU has state of the art facilities with 6 ventilators and invasive monitoring and has been adjudged as the best ICU in the hospital for the year 2009. The neonatal division caters to about 18000 deliveries with more than 2000 admissions in the NICU annually. All research work is being done on basic health problems relevant to our country.

The Department has regular teaching program for undergraduate (M.B.B.S) and post graduate (M.D) students. A separate Division of Neonatology was formed and DM in neonatology was started from the academic year 2009-2010 with an intake of one student per year. The Department has also obtained necessary permission to start PhD in Paediatrics and Fellowship course in Paediatric Critical Care and Emergency from the academic year 2010-2011.

EDUCATIONAL COURSES
A. Undergraduate Courses
The undergraduate teaching of the department comprises of M.B., B.S. course (2 batches). The number of students in each batch is 116.

B. Postgraduate Courses
M.D (Pediatrics) - 6 students per academic year.

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C. Higher Speciality Courses

D.M (Neonatology)-1 student per academic year.

D. Research Courses

Proposal to start PhD in Pediatrics (2 seats) – session beginning in August 2010

E. Other courses

Fellowship course in Paediatric Critical Care and Emergency from the academic year 2010-2011.

CONTINUING MEDICAL EDUCATION PROGRAMS

- International CME on Pediatric Nephrology was organized by the Department on 17th January 2010. Renowned speakers from India and abroad delivered talks on all relevant topics in Pediatric nephrology.
- Workshop on Essential Newborn care for Nurses was conducted by the Department in February 5-7, 2010.

CONFERENCES

Dr. S. Srinivasan

- As President of Pondicherry Science Forum delivered Presidential Address and Valedictory Address in the National Children’s Science Congress – 2009 held at the Conference Hall, III Floor, Directorate of School Education on 23.11.2009 and 24.11.2009 at the School of Management Auditorium, Pondicherry University.
- Participated in the Annual Intensive Clinical Training Program for the postgraduates at ICH & HC, Chennai and delivered a lecture on the topic “Approach to CP” and Case Discussion in Newborn case on 17.12.2009.

Dr. B. Vishnu Bhat

- Essential Newborn care Workshop for Neonates at JIPMER on 15th to 18th July, 2009.
- Recent Concepts in management of perinatal asphyxia – talk delivered at SRMC, Chennai during Newborn Week Celebration on 20.11.2009.
- Essential Newborn Care Workshop for Nurses – 5th – 7th February 2010.
- State level ‘TOT’ in Homeopathy for Maternal and Child Health- 23.3.2010 to 27.3.2010- delivered talk on ‘Essential Newborn Care’ and Birth injuries and birth defects’
Dr. S. Mahadevan


Dr. N. Biswal


Dr. P. Narayanan

- Faculty for the Advanced Provider course of IAP NRP programme at Chidambaram on 28-2-2010.
- Faculty for the workshop on “Essential Newborn nursing” at JIPMER on February 5-7, 2010.
- State level ‘TOT’ in Homeopathy for Maternal and Child Health- 23.3.2010 to 27.3.2010-delivered talk on ‘Common problems in respiratory system’.
- Attended the Instructor course of IAP-LDSC Neonatal Resuscitation Programme at Hyderabad on 5-1-2010.
- Attended the advanced provider course of Neonatal Resuscitation programme by Indian Academy of Paediatrics at Chennai on 20-6-2009.
- Participated as a delegate and presented a paper and one poster at the 1st Asian Congress on Pediatric Intensive Care at PGI, Chandigarh on September 25-27, 2009.
- Delivered a lecture on “Approach to Incessant Cry” at the CME on Surgical Problems in Pediatric Office Practice at Mahatma Gandhi Medical College & Research Institute Pondicherry on 13-12-2009.
- Delivered a lecture on “Protein Energy Malnutrition in Children” at the Seminar on Ambulatory Paediatrics at SLIMS, Pondicherry on 2-12-2009.

Dr. P. Sriram

Participated in International CME in Pediatric Nephrology (17/1/2010), JIPMER.

Dr. B. Adhisivam

- Faculty for workshop on Essential newborn nursing (5/2/10 – 7/2/2010), JIPMER.
- Participated in CME Approach to management of Thyroid disorders (18/4/2010), JIPMER.
• Participated in International CME in Pediatric Nephrology (17/1/2010), JIPMER.
• Participated in 59th National Course on Educational science for Health professionals (9/9/09 – 19/9/09), JIPMER.
• Presented a paper titled Antenatal counseling on breastfeeding – a need for training health personnel in MEDUCON 2009 (4/10/2009), JIPMER.

Dr Sriram Krishnamurthy

Participated as delegate in the XXI Annual Conference of the Indian Society of Pediatric Nephrology on 4-6 December 2009, New Delhi.

RESEARCH PROJECTS

Departmental Projects

Completed
2. A Descriptive study of Clinical Profile, Management and outcomes of Intracranial Abscess in Children in a Tertiary Care Centre.
4. Determinants of outcome due to snake envenomation in Children _< 13 years.
5. Study of Newborns requiring assisted ventilation.
6. Study of Speech and Language Disorder.
7. Study of ADHD children.

Ongoing
2. Mortality pattern of hospitalized children in Pediatric Medicine, JIPMER.
4. Outcome of late preterm babies.
5. Propranolol in severe infantile hemangiomas – A pilot study.
6. Urinary Reaction of non protein nitrogenous substances in Perinatal asphyxia.
7. Therapeutic hypothermia in Perinatal asphyxia.
8. DNA damage in Perinatal Asphyxia.
10. Oxidative stress in Down syndrome.
11. Immunological status in Down syndrome.
12. Therapeutic Hypothermia for Term Neonates with Hypoxic Ischemic Encephalopathy.
17. Profile of children under five years referred for speech delay.
19. Comparison of nebulised salbutamol versus L-adrenaline in infants with bronchiolitis - A randomized controlled trial.
20. Early Neonatal outcome in caesarean section.

PUBLICATIONS

A. Journals


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B. Book Chapters


PATIENT CARE SERVICES

A. Clinical
1. Average daily OPD : 200
2. Average daily IPD :
   a) 8 admissions (General ward)
   b) 5 admissions (Emergency and HDU)
   c) 2 (PICU)
3. Total Bed strength : 90 (sanctioned)
4. Average daily bed occupancy rate : 125%

B. Laboratory
Department side laboratory caters to all basic investigations including routine hemograms and urine examination of all inpatients.

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr. B. Vishnu Bhat
1. Editor Current Pediatric Research.
2. Associate Editor – Indian Journal of Paediatrics.

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. B. Vishnu Bhat
1. Faculty NTTC, JIPMER.
2. Secretary JIPMER Alumni Association.
3. Staff Adviser, JIPMER Students.

SIGNIFICANT EVENTS IN THE DEPARTMENT

A separate Division of Neonatology was formed and DM in neonatology was started from the academic year 2009-2010 with an intake of one student per year. The Department has also obtained necessary permission to start PhD in Paediatrics and Fellowship course in Paediatric Critical Care and Emergency from the academic year 2010-2011.
BACKGROUND INFORMATION OF THE DEPARTMENT

The department of Pathology started way back at the inception of JIPMER. It was headed by stalwarts like Dr. DJ Reddy, Dr. AL Arora, Dr. AJ Veliath, Dr. Kamala Chandra and Dr. Malati Madhavan. Over the years, it has developed into a multidisciplinary department with Histopathology, Cytopathology, Hematopathology, Clinical Pathology and Autopsy divisions. Recently added services include Immunohistochemistry, Cryostat, Neuropathology and Renal Pathology units (Renal and Neuropathology laboratories are being standardized). During 2009-10, the department played a major role in the patient care by providing the essential in-patient and out-patient laboratory services including the 24 hour emergency service. Also, added in the department were new equipments like Automated Sperm Analyzer and Immunofluorescence Microscope.

The department is involved in UG/ PG teaching and various interdepartmental activities such as regular Clinicopathological Conferences, Dermatopathology, Immunopathology, Oncopathology, Neuropathology and Hematopathology meetings and Orthopedics tumor clinics. For the past several years, the department is holding regular monthly/ bi-monthly meetings in which pathologists from all over Pondicherry participate and share their experience. During the last year, the department started DNB examination and the internal faculty was actively involved in the various local and National Conferences/ CMEs as guest speakers, chairpersons and judges. They also worked in the committees of the various Conferences held in JIPMER.

EDUCATIONAL COURSES

A. Undergraduate Courses

A total of 100 MBBS, 36 B.Sc. MLT and 75 B.Sc. Nursing students were trained. The teaching activity included regular lectures, practical classes, tutorials and presentations of the General Pathology-based short topics by the UG students. Regular chapter-wise/ system-wise tests
and send-up examinations were conducted for the internal assessment of MBBS/ B.Sc. MLT students. Didactic and problem based modules were also incorporated in the MBBS teaching schedule. Theory classes were conducted for trainees of Medical Record training (MRT) and Medical Record Officers (MRO) as well. The practical examination for MBBS is being conducted in the format of “Objective Structured Practical Examination (OSPE)” since the last two years.

B. Postgraduate Courses

The department had fourteen MD students (2 final and 6 each of first & second years) and four Senior Residents. Postgraduate teaching activity included regular slide and gross conferences; presentation of short topics and journal articles by the PG students; presentation of journals and discussion of the laboratory techniques by the faculty and Senior Residents. Postgraduate students from other Medical Colleges of Tamilnadu and Pondicherry also underwent short term training in the department. The departmental faculty guided Pathology PG students and co-guided PG students from the other pre-clinical and clinical (MD &MS) departments of JIPMER.

C. Other Courses

K. Swarup, a second year MBBS student completed a short term students’ ICMR project titled “Study of Tumor Cellularity in Locally Advanced Breast Carcinoma on Neoadjuvant Chemotherapy” under the guidance of Dr. Bhawana Badhe.

CONTINUING MEDICAL EDUCATION PROGRAMS

Dr. Surendra Kumar Verma

- Chaired a session on “Molecular Genetics of Gliomas and Immunohistochemistry in Grading Brain Tumors” in the “CME on Neuropathology” held at SRMC Chennai on 27th September 2009.
- Chaired a session in the ‘International CME on Neuropathology” held at Stanley Medical College, Chennai on 12th August 2009.
- Organizing Chairperson of “CME and Workshop on Cervical Cytology” held at JIPMER on 13th October, 2009.

Dr. Bhawana Badhe

- Attended Medical Education Conference (MEDUCON) held at JIPMER in October 2009.
- Organized “CME and Workshop on Cervical Cytology” on 13th October, 2009.

Dr. N. Siddaraju

- Organizing secretary of the “CME and Workshop on Cervical Cytology” held at JIPMER on 13th October 2009.
- As an invited speaker, he spoke on “Cytology of Mediastinal Lesions” at Mid-term CME (Andhra Chapter IAPM) held at Hyderabad on 23rd January, 2010 and chaired a session of ‘Slide Seminar on Mediastinal Lesions’.

**Dr. Debdatta Basu**
- An invited guest at the “Multiple Myeloma Update” organized by the “Indian Society of Hematology and Transfusion Medicine” and the “Bombay Hematology Group” on 17th May 2009 at Mumbai.
- An invited guest faculty at the 27th CME and PG course in Pathology at JN Medical College Belgaum, held from 3rd to 6th June 2009. He spoke on “Utility of Bone Marrow Trephine Biopsy” and conducted a “Slide Session” and “Quiz” on Hematopathology for the PG students.
- As invited faculty, delivered a lecture on “Bone Marrow in Pediatric Disorders” at ‘CME on Hematology’ conducted at Madras Medical College, Chennai on 4th July, 2009.
- Attended Cytology CME at Bangalore on 5th January 2010.
- Was a part of the Organizing committee of Annual Medical Education Conference (MEDUCON 2009) held at JIPMER in 2009 (October).

**Dr. Bipin Kumar**
- Member of organizing committee of “CME and Workshop on Cervical Cytology” held on October 13, 2009.
- Delivered a guest lecture on “Etio-pathogenesis and genetics of colorectal cancer” in the interdepartmental conference organized by the department of Gastrointestinal Surgery.

**Dr. Sajini Jacob**
- Member of organizing committee of “CME and Workshop on Cervical Cytology” held at JIPMER on October 13, 2009.
- Spoke on “Non-Hodgkin lymphoma - Epidemiology & Pathology” in the CME on NHL organized by the dept of Medicine and Medical Oncology in Dec. 2009.

**Dr. Rakhee Kar**
- Participated in the “60th National Course on Educational Science for Health Professionals” held at NTTC, JIPMER, Puducherry, from 17th - 27th February, 2010.

**Dr. Pampa Ch Toi**
- Delivered a lecture on “Etiopathogenesis of Common Gynaecological malignancies” in the “Regional Cancer Centre, JIPMER –Cancer Update CME on Gynaecological Malignancies and Nursing Care in Oncology Practice” on 4th April, 2010.
- Participated in the “60th National Course on Educational Science for Health Professionals” held at JIPMER, Puducherry, from 17th to 27th February, 2010.
CONFERENCES

Dr. SK Verma
- Presented a paper titled “Cellular Swirls and Similar Structures on FNAC as a Diagnostic Clue for Papillary Carcinoma of Thyroid” in the “39th Annual Conference of Indian Academy of Cytologists” at PGIMER Chandigarh on 15th November. He co-authored 2 other papers presented in the Conference.
- Judged the poster session in the “International Update in Pathology” held at PGIMER, Chandigarh from 19th to 21st February, 2010.

Dr. Bhawana Badhe
- Co-authored 2 papers presented in the “39th Annual Conference of Indian Academy of Cytologists” at PGIMER Chandigarh on 15th November.
- Co-authored 2 papers presented at JIPMER Scientific Society (JSS) and MEDUCON-2009.

Dr. N. Siddaraju
- Co-authored 2 papers presented in the “39th Annual Conference of Indian Academy of Cytologists” at PGIMER Chandigarh on 15th November 2009.
- Co-authored a paper presented at JIPMER Scientific Society (JSS) meeting held on 30th July, 2009.

Dr. Debdatta Basu
- Attended the “50th Annual Conference of Indian Association of Hematology and Transfusion Medicine (GOLDCON)” held at AIIMS, New Delhi from 17th to 20th November, 2009.
- He was an invited faculty in the “Pre Conference Workshop on Bone Marrow Biopsy” and spoke on “Utility of Bone Marrow Trephine Biopsy in Chronic Myeloproliferative Neoplasms”. He co-authored a paper titled “Angiogenesis and Proliferation Index in Acute Leukemia”. (GOLDCON 2009).
- Attended “34th National Conference of Indian Society of Blood Transfusion and Immunohematology” at New Delhi from November 20th - 22nd 2009.

Dr. Sajini Jacob
- Attended MEDUCON 2009 held at JIPMER on October 2009.

Papers presented by the Residents of the Department
- “Angiogenesis and Proliferation Index in Acute Leukemia”: authored by Prabha, Basu D, Dutta TK (GOLDCON 2009, AIIMS, Delhi).
• Asymptomatic multicentric Castleman’s lymphadenopathy-plasma cell type: a case report: authored by Verma SK, Badhe BA, Mary TS (CYTOCON 2009, PGIMER, Chandigarh).


• Evaluation of brush cytology in the diagnosis of upper gastrointestinal lesions: authored by Muniraj F, Siddaraju N, Sistla S (presented in the “Nalinibai Takkar Award” paper Session at CYTOCON 2009, PGIMER, Chandigarh).

• “Cellular swirls” and similar structures on fine needle aspiration cytology as “diagnostic clue” for papillary thyroid carcinoma: A report of four cases: authored by Verma SK, Siddaraju N, Singh N, Srinivasan R. (CYTOCON2009).

RESEARCH PROJECTS

Departmental Projects

Completed

1. Evaluation of Brush Cytology in the Diagnosis of Upper Gastrointestinal Lesions.

2. Assessment of Angiogenesis and Proliferation Index in Adults with Acute Leukemia

Ongoing


2. Histomorphological and Immunohistochemical Correlation of high Grade Non-Hodgkin Lymphomas.

3. Hodgkin Lymphoma – Immunohistochemical Features and Association with Epstein-Barr Virus.

4. Cyto-histopathologic Correlation of the Follicular Lesions of Thyroid.

5. Role of p63 and High Molecular Weight Cytokeratin 34BE12 in the Differential Diagnosis of Prostatic Tumors.

6. The Expression of Immunohistochemical Markers P53, Ki-67, ER, PR and Her-2-neu in Epithelial Ovarian Tumours and Their Clinicopathological Correlation.

7. Significance of Squash/crush Cytology in Central Nervous System Tumors and its Histopathological Correlation.

8. Histomorphology and Immunohistochemistry of Salivary Gland Tumors.
PUBLICATIONS

A. Journals


B. Book Chapters


PATIENT CARE SERVICES

Surgical Pathology

Routine Hematoxylin-eosin, special stains, immunohistochemistry services are provided. Immunofluorescence laboratory is being standardized. Routine frozen sections and cryostat facilities are available.

In 2009, 16,064 biopsies were examined.

Cytopathology

Routine May-Grünwald-Giemsa, Papanicolaou and relevant special stains are performed and immunocytochemistry (ICC) is standardized. The cytology laboratory is enrolled in the Quality Assurance Scheme of Indian Academy of Cytology (IAC).
14,466 samples were investigated in the year 2009. These included fine needle aspiration, gynecologic (cervicovaginal smears) and non-gynecologic (fluid) cytology, as well as more recently introduced squash (for CNS tumors), imprint and brush (gastrointestinal and bronchial) cytology.

**Hematopathology**

The lab caters to routine hemograms, BM aspiration and biopsy, coagulation and hemolytic workup. The External quality assurance scheme is followed for the coagulation with CMC (Vellore). The lab provides a 24-hour emergency in-patient service.

During 2009-10, diagnostic workup of 21,379 patients was performed.

**Clinical Pathology**

The OPD laboratory under the control of department of Pathology dealt with 86,829 samples inclusive of hemogram, urine, stool and semen from the OPD patients in the main hospital as well as super specialty block.

**Autopsy**

25 autopsies were performed.

**AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS**

**Dr. N. Siddaraju**


2. Received “Rashtriya Gaurav Award” with a Certificate of Excellence by Dr. Bhishma Narain Singh at a seminar on “Global Participation in India’s Economic Development” at New Delhi on 5th March, 2010.


**Dr. Debdatta Basu**

1. Won the gold medal for the best paper in the category “B” (original article), at the JIPMER Scientific Society for 2009 for the paper entitled “Prognostic Significance of Bone Marrow Biopsy in Myeloma”.

2. Awarded visiting professorship to Goa Medical College, Goa on September 3rd and 4th, 2009. He gave a lecture on “Bone Marrow Trephine Biopsy - Interpretation and Clinical Utility”. He also conducted a series of slide seminars with pathology residents and faculty there.

**ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS**

**Dr. Surendra Kumar Verma**

2. Incharge of the Cytopathology, Neuropathology and Nephropathology divisions.
3. Organized a CME and workshop on Female genital tract in JIPMER in October 2009.
4. MD, DNB and MBBS Examiner (both as Internal and External).
5. MCI Inspector for MBBS and MD Pathology Courses.
6. Conducted DNB Examination in Pathology at JIPMER.
7. Member of the Organizing Committee for various conferences held in JIPMER.
8. Chaired sessions and judged presentations at various National Conferences and CMEs.
9. Conducted monthly Clinico-Pathology Conferences in the Institute and regular interdepartmental meetings in various specialities.

**Dr. Bhawana Badhe**

1. Special interest in Breast and Oncopathology.
2. Vice President and Acting President of JIPMER Scientific Society.
3. Organized CME and Workshop on Cervical Cytology.
4. Member of organizing committees for 3 National conferences held at JIPMER, Pondicherry.
5. Conducted National Board Diplomat (DNB) examination in Pathology at JIPMER.
6. Internal Examiner of MBBS, MD and B.Sc. MLT examinations.
7. External examiner for MD (Pathology) examination in Maharashtra and Tamil Nadu states.
8. Co-authored 2 papers presented at JIPMER Scientific Society (JSS) and MEDICON-2009
9. Guiding 3 postgraduate research students and one undergraduate student (ICMR project)
10. Published 5 articles, one in the International and 4 in the National journals.
11. Co-investigator with the department of Obstetrics and Gynecology.
12. MCI inspector for postgraduate and diploma course at Adichunchanagiri Institute of Medical Sciences (AIMS), Bellur, Karnataka.

**Dr. N. Siddaraju**

1. Field of Interest is Cytopathology.
2. Overall In-Charge of Out Patient Department (OPD) Laboratory and In-Charge of Cytology Division.
3. Participation in undergraduate and postgraduate teaching.
4. Internal examiner for MBBS.
5. Reviewed 7 articles 1 each for “Melanoma Research” International Journal of Infectious Diseases (IJID) and Southern Medical Journal (SMJ); 4 for Journal of Cytology (JOC) and has also been in the Editorial Boards of Indian Journal of Dental Research (IJDR); Cytopathology; Pathology and Laboratory International; and Head and Neck Pathology.

6. Published 13 articles; 1 in National and 12 in International journals.

7. Participated in interdepartmental activities such as Orthopedic tumor clinics.

Dr. Debdatta Basu

1. Incharge of Hematopathology Division, with special interest in Bone Marrow Biopsy and Lymphoma.

2. In-charge of undergraduate (MBBS) classes.

3. Invited speaker at various CMEs and conferences held at national levels.

4. Faculty of the Medical Education Cell (NTTC) of JIPMER since 2005. Takes the session on TL media, Lectures, Problem learner. Helped in the organization of the two annual workshops conducted in JIPMER.

5. Deputy Warden of Postgraduate Hostel in JIPMER.

6. Member of the CRAFT and Library Committee.

7. Internal Examiner for MBBS.

8. Member of organizing committee of various National Conferences and Convocation Day held in JIPMER.


10. Actively participated in all intra- and interdepartmental activities.

Dr. Bipin Kumar

1. Assistant Professor on Ad-hoc basis.

2. Involved in UG/PG teaching and the in intra- and interdepartmental activities.

3. Did reporting in “Cytology”, “Histopathology”, Clinical Pathology” and “Hematology” Divisions.

4. Involved in various interdepartmental activities.

5. Set MBBS and B. Sc. Nursing question papers.

6. Published papers in National and International journals.

Dr. Sajini Jacob
1. Assistant Professor on Ad-hoc basis.
2. Actively involved in UG/PG teaching.
3. Actively involved in intra-and interdepartmental activities.
4. Independently reported in “Hematology”, “Cytology”, “Histopathology” and “Clinical Pathology” Divisions.
5. Published papers.

Dr. Rakhee Kar
1. Joined as Assistant Professor (Pathology), JIPMER (Institute of National Importance), Puducherry in February 2010.
2. Actively involved in undergraduate teaching (MBBS and BSc MLT), Post graduate teaching (MD Pathology) and research projects in the department (Co-investigator in Screening for PNH in the local patient population using Gel card technology).
3. Currently in-charge of Hematology and Clinical Pathology Laboratory in the super specialty block (SSB) of JIPMER.
4. Involved in interdepartmental clinicopathological conferences.

Dr. Pampa Ch Toi
1. Joined JIPMER as Assistant Professor in February 2010.
2. In-Charge of OPD laboratory.
3. Internal examiner for B.Sc. MLT (JIPMER-2010).
4. Member of the organizing committee of the first convocation held at JIPMER.
5. Involved in undergraduate and postgraduate teaching.
6. Involved in interdepartmental clinicopathological conferences.

Dr. Rajesh NG
1. Joined JIPMER as Assistant Professor in February 2010.
2. Special area of Interest: Breast, Renal and Dermatopathology.
3. Dedicated specialization in Dermatopathology and Renal pathology in JIPMER.
4. Standardizing Immunofluorescence Laboratory in JIPMER for Renal and Dermatopathology Divisions.
5. Involved in independent reporting of Surgical Pathology.
6. Involved in undergraduate and postgraduate teaching.
7. Involved in interdepartmental clinicopathological conferences.

8. Was granted a research project on the study of basal-like breast cancers in South Indian Patients.

Dr. Shramana Mandal

1. Joined JIPMER as Assistant Professor in April 2010.

2. Independent reporting of Surgical Pathology and Cytopathology on rotation basis.

3. Involved in Undergraduate and Postgraduate teaching.

4. Involved in interdepartmental clinicopathological conferences.

SIGNIFICANT EVENTS IN THE DEPARTMENT

1. Dr. Suresh Bhambhani MD, Deputy Director and Chief, Division of Cytology, ICMR, Noida, New Delhi, was the visiting Professor for 3 days from 12-10-09 to 14-10-09. He delivered a guest lecture titled “Precancerous and Cancerous Lesions of Cervix- Changing Scenario” in the JIPMER Scientific Society on 12-10-09. On 13-10-09, he conducted a one day CME/ Workshop on “Cervical Cytology” in which he and his colleague Dr. Veena Kashyap MD, Ph D, Senior Scientist, delivered guest lectures in the CME. Dr. Veena Kashyap spoke on “Normal Cervicovaginal Cytology, while Dr. Bhambhani delivered 3 guest lectures titled “Interpretation of Inflammatory/infectious Lesions on Cervicovaginal Cytology”, “Interpretation of Precancerous and Cancerous Lesions on Cervicovaginal Cytology” and “HPV-Its Role in Causation of Cervical Cancer”. Dr. Dasari Papa, Professor of Obstetrics and Gynecology, JIPMER spoke on “Clinical Management of the Patients with Abnormal PAP Smear”. During his 3 days’ visit, Dr. Bhambhani interacted with the Pathology Residents and Faculty.

2. Department of Pathology organized an academic programme on Renal Pathology by Dr. Kusum Joshi, an eminent pathologist, Senior Professor & Head of the Department of Pathology, PGIMER, Chandigarh, who stayed in JIPMER as visiting Professor between 5th and 7th of April. She delivered guest lectures on “Renal involvement in Systemic Vasculitis”, “Viral Infections in Transplant Kidney”, “Diverse Renal Manifestations in Plasma Cell Dyscrasias” and “Granulomatous Lesions of the Lung”. One of these lectures was presented in the JIPMER Scientific Society. She interacted with the Pathology faculty and Residents and conducted a slide seminar on “Medical Renal Disorders”.

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8.26 Pharmacology

Professor & Head
C. Adithan

Professors
S.C. Pradhan  D. G. Shewade  B. Gitanjali

Additional Professors
R. Raveendran  Steven A. Dkhar

Lecturer
Kesavan R.

BACKGROUND INFORMATION OF THE DEPARTMENT

The Department of Pharmacology was started in 1958 under Dr. Emilie Savini, a French Professor. Since then there is a gradual increase in research activities apart from the regular teaching activities. Dr. C. Adithan became the Head of the Department in December 2005. The focus of research is now at the molecular level in the area of pharmacogenomics besides clinical trials, development of hepatoprotective herbal drugs and toxicology studies. A state of the art pharmacogenomics lab was established by technical collaboration with INSERM, France. The pharmacogenomics lab was declared as a centre of excellence and upgraded to “ICMR Centre for Advance Research in Pharmacogenomics” with liberal financial support. Since 2004, an ICMR sponsored National workshop on “Basic Techniques in Molecular Biology and Bioinformatics in Pharmacogenomics” is conducted every year to train researchers in the field of pharmacogenomics. The cell culture laboratory started functioning from 2008 onwards. The Regional Pharmacovigililance Centre under the National Pharmacovigilance Programme was established in the department in 2005. Eight peripheral centres were attached to it. A Drug Information Centre was established in 2007. Apart from these, therapeutic drug monitoring and hormone assays are done as hospital services.

EDUCATIONAL COURSES

A. Undergraduate Courses

The department is training MBBS students (116), B.Sc. Nursing (75), B.Sc. MLT (30), Pre Hospital Trauma Technician (PHTT) (15), MRO (3-4) students in both theoretical and practical aspects of pharmacology. MBBS students are also taught topics like essential drugs list, pharmacovigilance, drug information etc. The sessional examinations for MBBS and B.Sc. MLT students include the Objective Structured Practical Examination (OSPE). Most of the animal experiments are being replaced by clinical pharmacology exercises and also by teaching through Computer Assisted Learning (CAL). This helps to reduce use of animals for experimental purpose as per the guidelines of the Animal Ethics Committee.
B. Postgraduate Courses

Each year five MD students join the department. These students are trained in both theoretical and practical aspects of pharmacology. In addition they are trained in pharmacogenomics techniques, adverse drug reaction (ADR) monitoring, drug information services and toxicology through seminars, journal clubs and PG classes. Each year two full time Ph.D. students with institute stipend join the department. Besides research scholars, students working as junior/senior research fellow in extramurally funded research projects are also allowed to register for the Ph.D. course. Last year four Ph.D. students were awarded the Ph.D. degree.

C. Research Courses

The department of pharmacology has started DM clinical pharmacology course with one seat from the academic year 2009-2010.

D. Other Courses

Dr. Aye Soe, Lecturer, Dept. of Pharmacology, University of Medicine (2), Yangon, Myanmar joined as a WHO fellow to undertake training in Dept. of Pharmacology from 01.09.2009 to 31.10.2009. She was trained in molecular biology, bioinformatics essential for pharmacogenomic research, biostatistics & clinical pharmacodynamic experiments.

CONFERENCES

Workshops Organized by the Department

Sixth National Workshop on Basic Techniques in Molecular Biology and Bioinformatics in Pharmacogenomics

The ICMR sponsored “Sixth National Workshop on Basic Techniques in Molecular Biology and Bioinformatics in Pharmacogenomics” was organized by the department of pharmacology jointly with the Vector Control Research Centre (VCRC) and Bio-informatics Centre, Pondicherry University on September 7 - 12, 2009. Thirty participants from all over the country participated in the workshop.

Indo-French Workshop on Pharmacogenomics

The Department of Pharmacology organised the “Indo-French Workshop on Pharmacogenomics” at the Super-Speciality Block Conference Hall on 30th November - 2nd December, 2009. The workshop was inaugurated by Dr. V.M. Katoch, Secretary to the Govt. of India, Dept. of Health Research and Director-General, ICMR. It was sponsored by ICMR (Indian Council of Medical Research), New Delhi and INSERM (French National Institute of Health and Biomedical Research), Paris, France. The Theme of the workshop was “Translational Research in Pharmacogenomics” and was conducted with the objective of strengthening the existing ties and creating new avenues for partnership between India and France in collaborative research and training of manpower.
Conferences Attended, Lectures Delivered

Dr. C Adithan

He gave the following lectures.

- “Pharmacogenomics in Psychiatry” at the Indian Psychiatric Society, 14th South Zone Annual PG Training Programme organized by the Dept. of Psychiatry, S.V.Medical College, Tirupathi on 13.06.09.
- “Personalized Medicine: Promises and problems in India” at the Annual Conference of the Southern Regional Indian Pharmacological Society 2009 (SRIPS 2009) that was held at PSG Institute of Medical Sciences and Research, Coimbatore during 12th - 14th November 2009.
- “Personalized Medicine: When the benefits will reach Indian patients?” at the Indo-French Workshop on Pharmacogenomics, JIPMER, November 30 - December 2, 2009.
- “Pharmacogenomics in Anticancer Drugs” at the International Conference on Integrative and Personalized Medicine and 42nd Annual conference of Indian Pharmacological society (IPSCON 2009) held at Kolkata on 10th - 12th December 2009. He also chaired the U.K.Seth Prize session on clinical pharmacology and also served as a judge for the award of Gufic prize.
- “Pharmacogenomics and clinical drug development” at the Third Annual Conference of the Indian Society for Clinical research (ISCR), held during January 8 - 9, 2010 at Bengaluru.

Dr. D G Shewade

- Delivered a talk on “Genetic variations in the 5' flanking region of CYP2C19 gene and their functional importance as explored in South Indian population” at the Indo-French Workshop on Pharmacogenomics, JIPMER, November 30 - December 2, 2009.

Dr. B Gitanjali

- Dr. B. Gitanjali was nominated by the WHO-SEARO to facilitate the preparation of State Specific Essential Drug List for Jammu & Kashmir State. She co-ordinated the meeting of the working group in Jammu which was held in the Govt. Medical College, Jammu, on 8th & 9th April and the meeting of the group in Srinagar which was held in the Govt. Medical College, Srinagar on 10th & 11th April 2009.
- Attended the workshop organized by the World Health Organization on “Essential medicines list and providing better medicines for children” held at Accra, Ghana, Africa, on August 2-4, 2009. She also attended the conference of the Commonwealth Pharmaceutical Association which followed on August 5-7, 2009.
- Delivered a talk on “My tryst with Rational Use of Medicines in JIPMER” at the “Third Asia-Pacific Regional Consultation on Undergraduate Medical and Pharmacy Education: setting up of an informal network – Educators for Rational Drug Use”, held in Negombo, Sri Lanka on August 24-26, 2009.
- Resource person at the AICTE sponsored workshop on “Writing and Communication Skills for Biomedical Media” at the Sree Siddaganga College of Pharmacy, Tumkur, Karnataka on 19-21 September 2009.
- Resource person at the ICMR sponsored CME on “Biomedical Communication” at the J.N. Medical College, Belgaum on 22nd September 2009.
- Delivered a lecture on “Formulating a curriculum in clinical pharmacology for medical undergraduates in India – the Delphi experience” at MEDUCON 2009 held on 04.10.2009 at JIPMER.
- Delivered lectures on “Plagiarism” and “Dealing with Rejection” at JPGM WRITECON 2009 held at Seth GS Medical College & KEM Hospital, Mumbai on 3rd - 4th December 2009.
- Resource person for “Workshop on Thesis Writing” at the Deccan College of Medical Sciences, Hyderbad on 9th December 2009.
- Gave two invited lectures “Better Medicines for children: Integrating the science, the policy and the practice” and “PG Training in Pharmacology: Lacunae and Solutions” at the International Conference on Integrative and Personalized Medicine and 42nd Annual conference of Indian Pharmacological society (IPSCON 2009) held at Kolkata on 10th - 12th December 2009. She also attended the meeting on the “Revision of the National Essential Medicines List” as an invited participant.
- Attended the informal consultation on Better Medicines for Children in India at WHO-SEARO, New Delhi, 2-3 February 2010. She presented a plenary paper on “Comparison of the EMLs of the Five States in India – Preliminary Findings: Challenges and Opportunities”.

**Dr. R Raveendran**

- Resource person at the ICMR sponsored CME on “Biomedical Communication” at the J.N. Medical College, Belgaum on 2nd September 2009.
- Resource person at the AICTE sponsored workshop on “Writing and Communication Skills for Biomedical Media” at the Sree Siddaganga College of Pharmacy, Tumkur, Karnataka on 19-21 September 2009.
- Organized and conducted a “Lectures Series in Basic Biomedical Statistics” at JIPMER on 8th November 2009.
- Resource person for “Workshop on Thesis Writing” at the Deccan College of Medical Sciences, Hyderabad on 9th December 2009.
- Presented a poster cum demonstration on “StatShop: Virtual workshop on biostatistics” at the International Conference on Integrative and Personalized Medicine and 42nd Annual conference of Indian Pharmacological society (IPSCON 2009) held at Kolkata on 10th - 12th December 2009. He also chaired a session on experimental pharmacology at the conference.
Delivered an invited lecture on “Developing Alternatives - How & By Whom?” at a MCI sponsored CME on “Alternatives to Animals in Medical Education” conducted at CMC, Ludhiana, Punjab on February 26, 2010.

Delivered a talk on “CAL Software as alternatives to Animals in Education” at the Academic Staff College of Bharathiar University, Coimbatore, Tamil Nadu on March 18, 2010.

Mr. R Kesavan

Presented a Poster entitled “Lack of association between MDR1 C3435T Genetic polymorphism and Clinical response to Phenytoin therapy in Epileptic patients” at the Annual Conference of the Southern Regional Indian Pharmacological Society 2009 (SRIPS 2009) that was held at PSG Institute of Medical Sciences and Research, Coimbatore during 12th - 14th November 2009.

Delivered a lecture on “Genetic polymorphism and Phenytoin toxicity” at the Indo-French Workshop on Pharmacogenomics, JIPMER, November 30 - December 2, 2009.

Dr. P M K Reddy

Presented a poster titled “Pharmacoeconomics of allopathic medicines Vs. Herbal and natural formulations for chronic diseases” at 14th APTI National Conference from 3 - 4th November 2009, Jodhpur.

RESEARCH PROJECTS

A. Funded Projects

a. Extramurally Funded Projects

Ongoing

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Title</th>
<th>Principal Investigator</th>
<th>Funding</th>
<th>Duration</th>
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<tr>
<td>1.</td>
<td>Association between CYP2C8, CYP2C9, CYP2J2 and eNOS gene polymorphisms and susceptibility to Acute Myocardial Infarction in South Indian population</td>
<td>Dr. C. Adithan</td>
<td>Rs 38.75 lakhs from DST, Govt. of India, New Delhi.</td>
<td>3 years (2006-2009)</td>
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<td>2.</td>
<td>ICMR Centre for Advance Research in Pharmacogenomics</td>
<td>Dr. C. Adithan</td>
<td>Rs 1.58 crores from ICMR, New Delhi.</td>
<td>5 years (2007-2012)</td>
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<td>3.</td>
<td>Phase-I clinical trial project of Thrombinase</td>
<td>Dr. R. Raveendran</td>
<td>Malladi Drugs &amp; Pharmaceuticals Limited, Chennai</td>
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### b. Intramurally Funded Projects

**Ongoing**

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<th>S.No</th>
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<tr>
<td>1</td>
<td>Mr.U.S.Chakradhra Rao</td>
<td>Characterization of 5’ regulatory region of CYP2C19 in a South Indian population</td>
<td>Dr. D. G. Shewade</td>
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<td>2</td>
<td>Miss. Anichavezhi. D</td>
<td>Effect of cardiovascular drugs on eNOS gene expression and enzyme activity in cultured human umbilical endothelial cells</td>
<td>Dr. D.G. Shewade</td>
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<td>3</td>
<td>Mr. S. Parasuraman</td>
<td>Isolation of Cleistanthin A and B from Cleisthanus collinus Roxb. leaves and evaluation of pharmacological and toxicological profile of cleistanthin A and B in animal models.</td>
<td>Dr. R. Raveendran</td>
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<td>4</td>
<td>Dr. S. Suresh Kumar</td>
<td>Effect of endothelial nitric oxide synthase gene (Glu298Asp) polymorphism on salbutamol induced endothelial response in healthy individuals.</td>
<td>Dr. C. Adithan</td>
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<td>5</td>
<td>Dr. S. Arun San Prabhu</td>
<td>Evaluation of the in vivo antitumor activity of cleistanthin B in Swiss albino mice</td>
<td>Dr. R. Raveendran</td>
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<td>6</td>
<td>Dr. Damodaran S E</td>
<td>Influence of CYP2D6 genotype on recurrence of breast cancer in patients receiving tamoxifen as an adjuvant therapy</td>
<td>Dr. C. Pradhan</td>
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<td>7</td>
<td>Dr. Madhan. S</td>
<td>Effect of CYP2C9 and VKORC1 genetic polymorphisms on warfarin dose requirements and adverse events in South Indian population</td>
<td>Dr. C. Adithan</td>
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<td>8</td>
<td>Dr. Priyadharsini. R</td>
<td>Effect of CYP3A5 and P2Y12 genetic polymorphisms on platelet aggregation in patients on treatment with clopidogrel</td>
<td>Dr. D. G. Shewade</td>
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<td>9</td>
<td>Dr. K. Subraja</td>
<td>Effect of CYP2C19 and MDR1 genetic poly-morphisms on antiplatelet effects of clopidogrel in clinical settings</td>
<td>Dr. Steven. A. Dkhar</td>
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### Completed

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<td>1. Dr. A. Surendiran</td>
<td>Effect of <em>CYP2C9</em> and <em>MDR1</em> polymorphisms on plasma levels of glibenclamide in type 2 Diabetes Mellitus patients of South India</td>
<td>Dr. S.C. Pradhan</td>
<td>2007-2010</td>
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<td>2. Dr. Shahid Akhtar Md.</td>
<td>Effect of second generation antihistamines on psychomotor and cognitive functions of healthy subjects. A randomized, double-blind, placebo controlled clinical trial</td>
<td>Dr. B. Gitanjali</td>
<td>2007-2010</td>
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### Ongoing

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<td>Dr. Madhav Rao</td>
<td>Effects of cleistanthin A and B on motor function in animal models</td>
<td>Dr. R. Raveendran</td>
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### PUBLICATIONS

#### Journals


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PATIENT CARE SERVICES

Laboratory

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**Hormonal Studies**

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**ADR**                 | 11  | 1   | 10  | 4    | 1   | 5   | 1   | 1   | 12  | 2   | 12  | 60  |     |

**Sleep studies**        |     |     |     | 1    | 2   |     |     |     |     |     |     |     | 3    |

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr. R Raveendran

Received a prize for poster presentation on “Software controlled artificial animal models for teaching animal experiments” at the “VII World Congress on Alternatives & Animal Use in the Life Sciences”, Rome (Italy) on 30 Aug - 3 Sept 2009.

Dr. Surendiran A

Under the guidance of Dr. S. C. Pradhan, was awarded the second prize for oral presentation of his research paper entitled “Effect of CYP2C9 and MDR1 genetic polymorphisms on plasma levels of glibenclamide in Type 2 Diabetic Patients of South India” at the Annual conference of Southern Regional Indian Pharmacological Society 2009 (SRIPS 2009), Coimbatore.

Mr. Arun Kumar AS

Under the guidance of Dr. C. Adithan, was awarded the best poster prize for his paper entitled “Association between eNOS gene polymorphism and acute myocardial infarction risk in a South Indian population” at the Indo-French Workshop on Pharmacogenomics 2009, JIPMER.

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The following Ph.Ds were awarded.

Mrs. R. Vimalavathini

“Factors Preventing Good Glycaemic Control with Insulin in Type 1 Diabetes Mellitus” under guidance of Dr. B. Gitanjali on August 28, 2009.

Mr. P. Ramu

“Genetic Susceptibility to Essential Hypertension in a South Indian Tamilian Population” under guidance of Dr. C. Adithan on October 28, 2009.

Mr. Girish C

“Hepatoprotective Herbal Drugs: Efficacy evaluation of traditional formulations and active chemical constituents in experimental studies” under guidance of Dr. S.C. Pradhan, on November 9, 2009.

Mrs. Padmaja N

“Pharmacogenomics of Coronary Artery Disease” under guidance of Dr. C. Adithan on December 2, 2009.

**ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS**

Dr. C. Adithan

Current Responsibilities at JIPMER besides routine teaching works:

1. Faculty-in-charge, Finance Division, JIPMER.
2. Chairman, JIPMER Ph.D. Studies committee.
3. Member, Board of Examinations, JIPMER.
4. Vice-Chairman, Drug Purchase and Utilization Monitoring Committee.
5. Member-Secretary, Advisory Committee for establishing Multidisciplinary Advanced Research Centre, JIPMER.
6. Member Secretary, Institute Ethics Committee (Human studies).
7. Warden - Lister, Osler and Aschoff House (UG Men’s Hostel), JIPMER.
8. Member, Committee for assessing man power requirements of JIPMER.
9. Member, Institute core committee for starting renal transplantation at JIPMER.
10. Member, Editorial Board – JIPMER News.
11. Co-ordinator, Regional Pharmacovigilance Centre.
Dr. S. C. Pradhan
He is the
1. Vigilance officer of JIPMER.
2. Undergraduate and Postgraduate teaching in-charge.
3. Recognized Ph.D guide.

Dr. D. G. Shewade
He is the
1. Officer in-charge of purchase, JIPMER.
2. Recognized Ph.D. guide.

Dr. B. Gitanjali
She is the
1. Student staff advisor.
2. Officer in-charge of pharmacy.
3. Teaching in-charge for PHTT course.

Dr. Raveendran
He is the
2. The officer-in-charge of CRAFT (Centre for Research and Academic Facilities and Training) and
3. Chairman of JIPMER departmental canteen.

Dr. Steven A. Dkhar
He is the
1. Officer in-charge of stores, Dept. of pharmacology.
2. Teaching in-charge for B.Sc., MLT.
3. Teaching in-charge for MRO.

Mr. R. Kesavan
He is the
1. Condemnation officer of OPD and E.M.S. Department.
BACKGROUND INFORMATION OF THE DEPARTMENT

The Physiotherapy Section in JIPMER was established in the year 1966 with limited staff and equipment. The Physiotherapy Section is situated in the PMR Block, Second Floor, OPD No.90. It is well connected with all the other Departments, Wards and Out-patient Departments [OPD]. Physiotherapy is specialized branch of Physical Medicine & Rehabilitation mainly concerned with the prevention, treatment and rehabilitation of the patients, by using:

- Superficial and deep heating modalities.
- Cold Therapy.
- Electrical stimulation and diagnosing.
- Traction.
- Ultra violet Radiation Therapy.
- Infra-red Radiation Therapy.
- Exercise Therapy and other miscellaneous procedures from preparation of equipments, preparation of the patient[treatment area], termination of treatment [winding up].

The role of Physiotherapy is establishing good relationship with the patient to enable them and their families to co-operate in treatment.

PATIENT CARE SERVICES

Physiotherapy services are provided to the patients as out patients department services in forenoon and In-patients services in the afternoon sessions. In addition to routine duties, we also attend special clinics like poliomyelitis clinic, cerebral palsy clinic, immunology clinic and stroke clinic weekly once. We also take part in Institute's under-graduate MBBS[Interns], and B.Sc[Nursing], MRT[Medical Records Trainee’s] course.
Out-Patient Service

Patients referred from various OPD’s
1. PMR
2. Orthopaedic Surgery
3. Surgery
4. Neurology
5. Neuro Surgery
6. Paediatrics
7. Paediatric Surgery
8. Radiotherapy
9. Oncology
10. Obstetrics
11. Gynecology
12. Immunology
13. Plastic Surgery
14. Dermatology
15. ENT
16. General Medicine
17. DTCD

Are evaluated and taken up for regular therapy [pain management & rehabilitation] and follow-up.

In-Patient Service

Patients referred from various wards and attended bedside and given rehabilitative exercise. Patients are being attended in Intensive Care Unit’s [PICU, NICU, CCCU, CCU, NMICU, NSICU, Pediatric Surgery ICU, Plastic Surgery ICU, CTVS, ICU, Urology ICU], Post-operative and General wards in PMRC, Orthopaedics Surgery, Obstetrics and Gynecology, Medicine, Surgery, CTVS, Cardiology, Immunology, Casualty, ID 102 Wards, Dermatology, Radiotherapy & Oncology [RCC], Special Wards[A,B,C].

All the patients are given therapy using.

1. Exercise Therapy
   - Passive exercise
   - Active exercise
   - Active assisted exercise
   - Resisted exercise
   - ADL training
   - Gait training
   - Mobilization-Manipulation therapy

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2. Electro Therapy
   Conductive Heating
   - Wax bath
   - Contrast bath
   - Hot compression therapy
   Conversion Heating
   - Short wave diathermy
   - Micro wave diathermy
3. Cryotherapy
   - Ice packs
   - Ice-massage
4. Mechanical
   - Ultra-red radiation
   - Traction
   - Phonophoresis
5. Radiation
   - Infra-red radiation
   - Ultra violet radiation
   - Laser
6. Medium Frequency Currents
   - Interferential therapy
   - TENS
7. Low Frequency Currents
   - Electrical stimulation
   - Iontophoresis
   - Electro-diagnosis
8. Continuous Passive Mobilisers
   - Lower Limb-hip, knee
   - Upper limb-shoulder, elbow, forearm.
9. Gymnasium Equipments
   - Multi gym [9 seater]
   - Mariner's wheel
   - Quadriceps table
   - Treadmill
   - Static cycle
   - Bubble Inclino meter
   - Shoulder compass
   - Ankle exercise
   - Finger exercise
   - Forearm & wrist mobiliser.

Statistics of the Year

Physiotherapy Annual Census [2009-2010]

<table>
<thead>
<tr>
<th>S.No</th>
<th>Month</th>
<th>Year</th>
<th>New cases</th>
<th>Old cases</th>
<th>TOTAL</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>OPD</td>
<td>IP</td>
<td>Male</td>
<td>Female</td>
<td>Male</td>
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<tr>
<td>01.</td>
<td>April</td>
<td>2009</td>
<td>447</td>
<td>451</td>
<td>416</td>
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<tr>
<td>02.</td>
<td>May</td>
<td>2009</td>
<td>486</td>
<td>461</td>
<td>511</td>
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<tr>
<td>03.</td>
<td>June</td>
<td>2009</td>
<td>525</td>
<td>402</td>
<td>616</td>
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<tr>
<td>04.</td>
<td>July</td>
<td>2009</td>
<td>475</td>
<td>529</td>
<td>808</td>
</tr>
<tr>
<td>05.</td>
<td>Aug.</td>
<td>2009</td>
<td>560</td>
<td>365</td>
<td>687</td>
</tr>
<tr>
<td>06.</td>
<td>Sept.</td>
<td>2009</td>
<td>460</td>
<td>361</td>
<td>606</td>
</tr>
<tr>
<td>07.</td>
<td>Oct.</td>
<td>2009</td>
<td>555</td>
<td>410</td>
<td>427</td>
</tr>
<tr>
<td>08.</td>
<td>Nov.</td>
<td>2009</td>
<td>507</td>
<td>439</td>
<td>484</td>
</tr>
<tr>
<td>09.</td>
<td>Dec.</td>
<td>2009</td>
<td>484</td>
<td>387</td>
<td>554</td>
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<tr>
<td>11.</td>
<td>Feb.</td>
<td>2010</td>
<td>498</td>
<td>418</td>
<td>447</td>
</tr>
<tr>
<td>12.</td>
<td>Mar.</td>
<td>2010</td>
<td>448</td>
<td>456</td>
<td>654</td>
</tr>
</tbody>
</table>

Annual Total: 28204
AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Mr. V. Kaleeswaran

1. Has appeared for MHSc[PT] examination from Annamalai University 2009-2010.

SIGNIFICANT EVENTS IN THE DEPARTMENT

1. The department was awarded “Best Ancillary Services” [3rd Place] on Hospital Day 2009.

The following patient care services were added:

1. Computerized Lumbar and cervical traction using Chattanooga Auto traction Unit.
2. Continuous passive mobilization of upper limb using CPM shoulder, CPM elbow and forearm units.
3. Ultra Sound Therapy given by using ultra sound Unit with computerized sensor.
BACKGROUND INFORMATION OF THE DEPARTMENT

The Occupational Therapy Section in JIPMER was established in the year 1966 with limited staff equipment and space. Occupational Therapy Section was later shifted to spacious PMRC Block II Floor in the year 1985. Occupational Therapy is a specified branch of PMR mainly concerned with prevention, treatment and Rehabilitation.

PATIENT CARE SERVICES

Occupational Therapy services are provided to the patients as out patient department services in forenoon and in-patient services in the afternoon sessions.

1. In addition to routine duties we also attend special clinics like poliomyelitis, cerebral palsy clinical, Immunology clinic and stroke clinic.

2. We also take part in Institute’s Under-graduate MBBS [Intern] and B.Sc. [Nursing] MRT [Medical Record Trainees] course.

Out-Patient Service

1. Patient referred from various OPD’s.
2. P.M.R.
5. Medicine.
8. Paediatrics.
11. Oncology.
12. Obst. & Gynaecology.
13. Immunology.
15. Dermatology.
16. ENT.
17. General Medicine.
18. DTCD are evaluated and taken up for regular therapy and follow-up.

**In-Patient Service**

Patients referred from various wards are attended bedsides and given rehabilitative services. Patients are being attended in Intensive Care Unit[PICU, NICU, CCCU, CCU, NMICU, NSICU, Paediatric Surgery ICU, Plastic Surgery ICU, CTVS ICU, Urology ICU], Post-operative and general wards in PMRC, Orthopaedics and Obst & Gynaecology, Medicine, Surgery, CTVS, Cardiology, Immunology, Casualty, ID 102 Wards, Dermatology, Radiotherapy, Oncology[RCC], Special Wards[ABC].

Patients attending occupational therapy section are given therapy using:

1. Therapeutic approaches and activities.
2. Splintage.
3. Prevocational assessment and training.
4. Functional capacity evaluation and training.
5. Education and counseling to patients and care taken.
6. Hand function evaluation and rehabilitation.
7. Sensory motor evaluation and rehabilitation.
8. Cognitive perceptual evaluation and rehabilitation.
9. Sensory Integration Therapy.
10. Stress management and relaxation training.
11. Activities of daily living training.
12. Aids and adaptation.
### Statistics of the Year

Occupational Therapy Annual Census [2009-2010]

<table>
<thead>
<tr>
<th>S.No</th>
<th>Month</th>
<th>Year</th>
<th>Male</th>
<th>Female</th>
<th>Male</th>
<th>Female</th>
<th>Male</th>
<th>Female</th>
<th>TOTAL</th>
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<td>01.</td>
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<td>2009</td>
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<td>140</td>
<td>300</td>
<td>400</td>
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<td>02.</td>
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<td>2009</td>
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<td>145</td>
<td>290</td>
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<td>2009</td>
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<td>70</td>
<td>55</td>
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<td>04.</td>
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<td>2009</td>
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<td>125</td>
<td>290</td>
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<td>75</td>
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<tr>
<td>05.</td>
<td>Aug.</td>
<td>2009</td>
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<td>150</td>
<td>285</td>
<td>390</td>
<td>85</td>
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<td>06.</td>
<td>Sept.</td>
<td>2009</td>
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<td>2009</td>
<td>143</td>
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<td>09.</td>
<td>Dec.</td>
<td>2009</td>
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<td>137</td>
<td>283</td>
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<td>78</td>
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<td>12.</td>
<td>Mar.</td>
<td>2010</td>
<td>126</td>
<td>121</td>
<td>251</td>
<td>317</td>
<td>41</td>
<td>39</td>
<td>895</td>
</tr>
</tbody>
</table>

### SIGNIFICANT EVENTS IN THE DEPARTMENT

1. Sensory integration therapy with its essential equipments was started in 2009 rendering services to patients with ADHD, Autism and various PDD.
2. Biofeedback training.
3. Using recumbent bike for therapeutic purposes.
5. Pre and post Botox/Alcohol injection assessment/therapy.
BACKGROUND INFORMATION OF THE DEPARTMENT

- The Orthotic section was started in 1968 with one technician and one cobbler. Then it was expanded in 1986 with one Orthotist, two Technicians, two Craftsman, 5 Cobblers and one Attender. Initially only conventional Orthoses were made, slowly we switched over to modular orthoses. At present following works are in progress.

- Fabrication of lower and upper limb orthoses.
- Fabrication of surgical boots and MCR foot wear.
- Fabrication of Spinal orthoses [belts, corsets, braces and color etc].
- Having fully equipped sophisticated laboratory.

PATIENT CARE SERVICES

Treating of patients suffering from polio, cerebral palsy, spinal disorders scoliosis contraction of the toes, finger etc.

1. Treating orthopaedically handicapped patient by providing orthoses.
2. Treating patient with mental disorder spastic children by giving supportive orthoses.
3. Providing walking aids.
4. Providing modern, light weight cap dated orthoses to the needy patient.
5. Providing orientation classes and explaining about the orthoses to Intern, Nursing students.

Statistics of the Year 2009-2010

<table>
<thead>
<tr>
<th>Category</th>
<th>Number</th>
</tr>
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<tbody>
<tr>
<td>New Cases</td>
<td>1557</td>
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<tr>
<td>Old Cases</td>
<td>779</td>
</tr>
<tr>
<td>Upper and Lower limb Orthoses</td>
<td>266</td>
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<tr>
<td>Spinal Orthoses</td>
<td>251</td>
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<tr>
<td>Orthopaedic footwear</td>
<td>108</td>
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<tr>
<td>Footwear modification</td>
<td>558</td>
</tr>
<tr>
<td>Orthoses repair</td>
<td>232</td>
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</table>
SIGNIFICANT EVENTS IN THE DEPARTMENT

1. Orthotic Section has been updated with latest equipments and machineries. Staff at par with rehabilitation Council of India guidelines to conduct Degree course for Prosthetic and Orthotics[BPO].

2. Two of our staff Mr.K.Srikanth and Mr.Mana Govinda Dalai attended the National Conference of Orthotics and Prosthetic Association of India[including 25 international faculties] held at New Delhi in the month of February 2010.

3. Mr.K.Srikanth, Orthotist has received Excellency Award for best technical service in Government sector by Orthotic and Prosthetic Association of India during the National Confernece held at New Delhi-2010.

4. Mr.K.Srikanth, Orthotist holding the following position in professional Association and Govt.
   a. Member of Composition of Artificial limb, rehabilitation appliances and equipmentation for the Disabled sectional committee in Bureau of Indian Standards [ISI], New Delhi.
   b. Life member and National Treasurer of Orthotics and Prosthetic Association of India.
   c. Registered Professional of Rehabilitation Council of India [RCI].

5. Mr.K.Srikanth Orthotist was appointed as Examiner for Bachelor of Physiotherapy by Vice Chancellor of Chatrapathi Shivaji Maharaj University, Kanpur [Kanpur University] to conduct Practical and Oral examination on 25.06.2010.

6. Orthotic Section in JIPMER is only one of the biggest section in South India, providing modular Orthoses with latest technology by taking measurement/cast from each patient issuing free of cost [based on Income certificate] to patient.
BACKGROUND INFORMATION OF THE DEPARTMENT

This Section is started in September 1986 with the skeletal staff of two technicians. Basic equipment and machineries were purchased consecutive year (hand tools and work were purchased). Only ‘ALIMCO’ components purchased and used for fabrication. Fitting alignment gait training provided in this section for amputees on OPD basis. Additional staff carpenter posted to work. All the technical staff in this Section are the qualified professional cases are treated of various states and districts.

In and Out patients of JIPMER hospital patients, who referred by Orthopadics, General Surgery, Cardio-Thoracic Surgery, Plastic Surgery and Physical Medicine also treated and Provided artificial devices. Cases are disposed after various checkout of fitting & Comfort etc.

PATIENT CARE SERVICES

1. Axillary Crutches to amputees.
2. Elbow crutches to amputees.
3. Upper limb prosthesis to amputees.
4. Lower limb Prosthesis to amputees.
5. Upper limb repair work on old prosthesis.
6. Lower limb repair works on old prosthesis.
7. Gait training to amputees on trial limb.
9. B.Sc. Nursing [JIPMER] students and MBBS [JIPMER] Interns are being taught the prosthetic subjects along with practical demonstration.
Statistics

1. Average New Cases attended – 314
2. Average Old cases attended – 280
3. Prosthesis fitted – 32
4. Prosthetic repair work attended – 34
5. Axillary and elbow crutch issued – 48
6. Crutches repair work done – 40

SIGNIFICANT EVENTS IN THE DEPARTMENT

1. Endo skeletal Prosthesis below knee and above knee fabricated and fitted.

2. Nylon Pylon, Aluminum Pylon used endoskeletal prosthesis fitted. Advanced Four bar knee joint of AK amputee fitted to a Bilateral amputee. Low-cost AK ISNY double socket fabricated with glass fiber fitted to a Through knee amputee.

3. IOPA- Professional CME conducted in JIPMER in MAY 2010 on “ADVANCEMENT IN PROSTHETICS”.

4. The staff members are holding Chief Executive posts in various professional associations.
BACKGROUND INFORMATION OF THE DEPARTMENT

The Department of Physiology is among the premier departments in JIPMER, started with the inception of the institute. The physiology department is providing medical education and training to undergraduate and postgraduate medical students, and also to the students of various paramedical courses. Also, the department is involved in clinical investigations on electrophysiological diagnostic procedures, pulmonary functions tests and autonomic function tests for hospital patients. The unique feature of the physiology department is that the electrophysiology laboratory is providing hospital services in patient management for more than thirty years. Also, research activities are conducted vigorously in various laboratories of the department. Department has a state of the art animal research laboratory. The yoga research, therapy and training are important routine features of the department. The Advanced Center for Yoga Therapy, Training, Education and Research (ACYTER) of JIPMER is under the Department of Physiology and the Department has conducted many national conferences, CMEs and workshops in Physiology and Yoga.

EDUCATIONAL COURSES

A. Undergraduate Courses

The department continues with its undergraduate UG teaching programme which include MBBS (two semesters), B Sc (Nursing) and B Sc (Medical Laboratory Technology).

B. Postgraduate Courses

These include four M D students per year. Nine M Sc (Medical Biochemistry) students come to Physiology for their first year teaching programme. Regular PG seminars are held twice a week and journal club weekly.

C. Research Courses

Two candidates have completed Ph D course in 2009 and one candidate has joined in the current year.
D. Other Courses

Medical Records Technician (six months course), Medical Records Officers (One year course), Pre-Hospital Trauma Training Course (nine months course). Two students underwent the projects work under KVPY Scheme of the DST in different laboratories of the department and one student has been awarded the fellowship.

CONTINUING MEDICAL EDUCATION PROGRAMS

Dr. Madanmohan Trakroo

- Organizing Secretary, Workshop on “Chakra Meditation for Healing”. JIPMER, 01 Jan. 2010.

Dr. G. K. Pal

- Participated as a delegate in the Medical Education Conference of JIPMER NTTC Alumni Association (MEDUCON) held on 4th October 2009 at JIPMER, Pondicherry.
- Participated as a delegate in the XXI Annual Conference & Platinum jubilee Celebration of the Physiological Society of India and International Conference on Integrative Physiology: Modern Perspective held on 12th-14th of November 2009 at Science city, Kolkata.
- Participated as a delegate in the XXX Annual Conference of Indian Association of Biomedical Scientists (IABMS), held at Chandigarh, from 18-20 November, 2009.
- Participated as a delegate in the 55th Annual Conference of Association of Physiologists and Pharmacologists of India (APPI), held at Saifai, Etawah, from 4th-10th December, 2009.
- Participated as a delegate in the National Workshop-cum Seminar on “Yoga and complimentary therapies on HIV/AIDS” on 30th January 2010, at JIPMER, Pondicherry.
- Participated as a delegate in the ‘Level I Accreditation Workshop on Kinanthropometry conducted by International Society for the Advancement of Kinanthropometry (ISAK), held at JIPMER, Pondicherry from 22 – 24 December, 2009.
- Participated as a delegate in the National Workshop-cum Seminar on “Yoga and complementary therapies for HIV/ AIDS” on 30th January 2010, at JIPMER, Pondicherry.
• Participated in the Workshop on chakra healing organized by advanced centre for Yoga therapy, education and research, JIPMER, Pondicherry in Jan 2010.

Dr. P Vijayalakshmi
• Workshop-cum-Seminar on “Yoga and Complementary Therapies for HIV/AIDS” held at JIPMER on 30.01.10.

Dr. G S Gaur
• National conference of IABMS held at (DIHAR, DRDO), Chandigarh in Nov. 2009.
• TROPICON 2010 the National Conference of Tropical Neurology held at JIPMER, Puducherry in March 2010.
• Re-Orientation Training Programme (ROTP) on Yoga, for AYUSHI Allopathy Doctors held at Morarji Desai National Institute of Yoga, New Delhi in Sept. 2009.
• National Workshop on Recent Developments in Nuclear Medicine” held at DIHAR (DRDO), Chandigarh in Nov. 2009.
• Participated as a delegate in the ‘Level I Accreditation Workshop on Kinanthropometry conducted by International Society for the Advancement of Kinanthropometry (ISAK), held at JIPMER, Pondicherry from 22 – 24 December, 2009.
• National workshop-cum-seminar on “Role of Yoga in prevention & Management of Hypertension held at JIPMER, Puducherry in March 2010.
• Workshop cum seminar on Yoga and complementary therapies for HIV/AIDS held in Jan 2010 at JIPMER, Puducherry.
• Workshop on chakra healing organized by advanced centre for Yoga therapy, education and research, JIPMER, Pondicherry in Jan. 2010.

Dr. Pravati Pal
• Medical Education Conference of JIPMER NTTC Alumni Association (MEDUCON) held on 4th October 2009 at JIPMER, Pondicherry.
• XXI Annual Conference & Platinum jubilee celebration of the Physiological Society of India and International Conference on Integrative Physiology: Modern Perspective held on 12th-14th of November 2009 at Science city, Kolkata.
• XXX Annual Conference of Indian Association of Biomedical Scientists (IABMS), held at Chandigarh, from 18-20 November, 2009. Dr. Mrs. Pal chaired a scientific session in the conference.
• 55th Annual Conference of Association of Physiologists and Pharmacologists of India (APPI), held at Saifai, Etawah, from 4th-10th December, 2009.
• National Workshop-cum Seminar on “Yoga and complimentary therapies on HIV/ AIDS” on 30th January 2010, at JIPMER, Pondicherry.
• National Workshop-cum Seminar on “Role of yoga in prevention and management of hypertension” on 18-19 March 2010, at JIPMER, Pondicherry.
• Workshop on chakra healing organized by advanced centre for Yoga therapy, education and research, JIPMER, Pondicherry in Jan. 2010.

Dr. Vivek Kumar Sharma
• Workshop on chakra healing organized by advanced centre for Yoga therapy, education and research, JIPMER, Pondicherry in Jan. 2010.
• Participated as a delegate in “National Workshop-cum-Seminar on Role of Yoga in Prevention and Management of Hypertension”, held at JIPMER, 18-19 March, 2010.
• Participated in National Teachers Training Programme organized by the Department of Medical Education, JIPMER from 17 to 27 Feb. 2010.

Dr. S Velkumary
• Workshop on chakra healing organized by advanced centre for Yoga therapy, education and research, JIPMER, Pondicherry in Jan. 2010.
• Participated as a delegate in “National Workshop-cum-Seminar on Role of Yoga in Prevention and Management of Hypertension”, held at JIPMER, 18-19 March, 2010.

CONFERENCES

Dr. Madanmohan Trakroo
• Series of talks given to nursing participants of the workshop on HIV / AIDS conducted at JIPMER from October – December 2009.
• Chaired a session and gave a talk on “Role of yoga in the management of hypertension” during “17th International Yoga Festival” organized by Department of Tourism, Govt. of Pondicherry from 04 – 07 Jan. 2010.
• Lead talk on “Role of yoga in the prevention & management of HIV/AIDS” during “Workshop-cum-Seminar on Yoga & Complementary therapies for HIV/AIDS” held at JIPMER on 30.01.10.
• Key note address titled “Yoga for cardiovascular health” during National Yoga Week, MDNIY, New Delhi, 12-18 February, 2010.
• Talk on “Diet for health & relaxation”, during workshop on “Yoga for Stress Management & Personality Development” sponsored by CCRYN, New Delhi at Hotel Surguru, Pondicherry on 12.01.10.
Dr. G. K. Pal

- Delivered a lecture on “The role of sympathovagal balance in pathophysiology of pregnancy-induced hypertension” in the XXI annual conference & platinum jubilee celebration of the Physiological Society of India and International conference on integrative physiology: Modern Perspective, held on 12th-14th of November 2009 at Science city, Kolkata.

Dr G S Gaur

- Presented a paper at National conference of IABMS, entitled “Effect of posture on rate pressure product and autonomic functions in normal human subjects”, held at (DIHAR, DRDO), Chandigarh in Nov. 2009.

Dr Vivek Kumar Sharma

- Delivered a talk on “Successful Ageing” on 20 March 2010 at Mysore Medical College.

RESEARCH PROJECTS

A. Funded projects

Ongoing

1. Effect of yoga therapy on autonomic function and biochemical profile of patients of essential hypertension. Dr Madanmohan Trakroo. Amount Rs 8, 11,000. Funded by MDNIY, Department of AYUSH, New Delhi.

2. Effect of yoga therapy on patients of type II diabetes mellitus with neuropathy. Dr. Madanmohan Trakroo. Amount Rs, 3,66,000. Funded by MDNIY, Department of AYUSH, New Delhi.

3. Effect of gender on mesolimbic regulation of food intake and adiposity in rat model: correlation with sympathetic activity, lipid profile, thyroid profile and insulin resistance. Dr. Pravati Pal. Rs.1,08,000. Funded by JIPMER, Pondicherry (Intramural research fund).

B. Departmental Projects

Completed

1. Effect of antihypertensive drug therapy on heart rate variability in newly diagnosed essential hypertension.

2. Study of the predictive value on noninvasive markers of sympathetic overactivity in pregnancy-induced hypertension.

3. Gender difference in heart rate variability in obesity: a correlation with lipid and thyroid profile.

4. Comparative study of evoked potentials in Down’s syndrome with age matched normal children.
5. Assessment of pulmonary functions in pre-hypertensives and hypertensives.

6. Assessment of sympathovagal balance in normal, pre-hypertensive and hypertensive patients and its response to orthostatic tilt.

**Ongoing**

1. Effect of 12 week yoga therapy as a lifestyle intervention in patients of type II diabetes mellitus with distal symmetric polyneuropathy - a randomized control study.

2. Effect of 12 week yoga therapy on cardiac autonomic functions in patients of essential hypertension - a randomized control study.


4. Gender difference in the role of VMH in high fat diet-induced and sucrose-induced obesity in albino rats of Wistar strain: correlation with lipid profile, thyroid profile and insulin resistance.

5. Assessment of cardiovascular autonomic functions in patients with polycystic ovary syndrome: correlation with body mass index, insulin resistance, lipid profile and thyroid profile.

**PUBLICATIONS**

**A. Journals**


8. Pal G.K., Pravati Pal. The role of sympathovagal balance in pathophysiology of pregnancy-induced hypertension. Published in the souvenir of the XXI annual conference & platinum jubilee celebration of the Physiological Society of India and International conference on integrative physiology: Modern Perspective, held on 12th-14th of November 2009 at Science city, Kolkata.


B. Books


PATIENT CARE SERVICES

Laboratory

1. Electrophysiology Laboratory
   i) Nerve conduction studies ... 529  
   ii) Electromyography ... 55 
   iii) Evoked potential ... 371

2. Autonomic Function Test Laboratory
   i) Autonomic Function Tests ... 83 
   ii) Tilt Table Tests ... 65

3. Pulmonary Function Tests ... 82

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr Madanmohan Trakroo

1. Received scroll of honor & gold medal for Annual Internal Oration (2009-10), JIPMER Scientific society.

Dr. G. K. Pal

1. Received Prof. J. N. Maitra Memorial Oration Award from Physiological Society of India in the inaugural ceremony of its XXI Annual Conference & Platinum jubilee celebration of the International Conference held on 12th of November 2009 at Science city, Kolkata.

2. Was elected as the Editor (Physiology) of Indian Journal of Physiology and Pharmacology for the year 2009 - 2011.

3. Served as Editor-in-Chief of Biomedicine, the journal of Indian Association of Biomedical Scientists for the year 2007-2009.

Dr G S Gaur

1. Received prize for best paper presentation at oral session of free papers presented in IABMS Conference at Chandigarh in Nov 2009.

Dr Pravati Pal

1. Was elected as the Associate Editor of Indian Journal of Physiology and Pharmacology for the year 2009 - 2010.

2. Was elected as secretary of JIPMER scientific society for the year 2009.

3. Served as Managing Editor of Biomedicine, the journal of Indian Association of Biomedical Scientists for the year 2009.

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SIGNIFICANT EVENTS IN THE DEPARTMENT

1. Dr. Madanmohan served as Programme Director of ACYTER (Advanced Centre for Yoga Therapy, Education and Research). Started Yoga therapy OPD and yoga training for patients and normal subjects.

2. Dr. G.K. Pal was appointed as Officer-in-Charge of Central Workshop of JIPMER. He was Member secretary for committee for condemnation of old and obsolete books in the central library of JIPMER. Dr. Pal was a member for book exhibition held in August in JIPMER and for selection of books for various departments of JIPMER. He continues to be a member of JIPMER Canteen management committee since 2007. Also, he continues as a member of JIPMER news and annual report committee. He has worked as the chairman of scientific committee of workshop cum seminar on Role of Yoga in prevention and management of hypertension held at JIPMER in March 2010.

3. Dr. G.K Pal was a subject expert for selection for the post of Professor in Physiology for King George Medical University, Lucknow. He was a member of the selection committee for the post of Assistant Professor and Associate Professor at Perundurai Kamarjar Medical College of government of Pondicherry. He was member of the international advisory board of Al-ameen journal of Medical Sciences (indexed in pubmed). He is an examiner for DNB courses in Physiology at National Board of Examinations, New Delhi. Dr. Pal is the member of selection committee for Ph. D. scholars and the committee for deciding course curriculum for M.D. and Ph. D. courses in Rajiv Gandhi University Health Sciences, Karnataka, Bangalore. He is the examiner for M.B.B.S., and M.D. courses in Tamilnadu Dr. M.G.R. Medical University, Annamalai University, Chidambaram, Tamilnadu and medical colleges in Orissa, Maharasstra, Kerala, Gujarat and Calcutta university.

4. Dr. G.K. Pal has guided one Ph. D. student, two M.D. students and one KVPY project student during this period. Mr. P. G. Nandan, II year MBBS student of JIPMER, who worked under the guidance of Dr. Pal, was awarded KVPY fellowship of DST for the year 2009. Dr. Pal was author of four text books of Medical Physiology and two textbooks of practical physiology. He was reviewer for Indian Journal of Experimental Biology, Medical Science Monitor, Japanese Journal of Physiology and Brain Research.

5. Dr. P. Vijayalakshmi has guided one M.D. student.

6. Dr. G. S. Gaur guided one MD student and was appointed M.C.I. inspector for verifying the facilities available at K.S. Hegde Medical academy, Mangalore for starting P.G. course (MD) in Physiology. He is external examiner on penal for various undergraduate and postgraduate courses for Pondicherry University, T.N. Dr. M.G.R. Medical University and Rajiv Gandhi University of Health Sciences, Karnataka, Bangalore. He has been appointed examiner for Diplomat National Board (DNB) New Delhi, in Aug 2009. He was also appointed as expert for doctoral committee at Sathyabama University in June 2009. He was elected as treasurer for Association of Physiologist & Pharmacology of India (APPI) Pondicherry Chapter for 2009-2010 and also elected treasurer for JIPMER
faculty association for 2010. Dr. Gaur worked as Chairman of transport and accommodation committee for organizing workshop cum seminar on “Role of Yoga in prevention and management of hypertension” held at JIPMER in March 2010. He was elected core committee executive member of NTTC alumni association for 2009-2010. He served as teacher-in-charged for B.Sc (Nursing).

7. Dr Pravati Pal was selected as a member of advisory board of Biomedicine, the journal of Indian Association of Biomedical Scientists for the year 2010. She was reviewer for Indian Journal of Physiology of Pharmacology, Biomedicine and Al-ameen journal of Medical Sciences. She has guided one M.D. student and one KVPY student during this period. She was appointed examiner for M.D. Physiology, by Tamilnadu Dr. M.G.R. Medical University in March 2010. She has worked as the chairman of inauguration committee of workshop cum seminar on Role of Yoga in prevention and management of hypertension held at JIPMER in March 2010.
BACKGROUND INFORMATION OF THE DEPARTMENT

Department of Plastic surgery in JIPMER started in late 1960 as a division of General surgery. Dr. I.N.Tiwari was the first plastic surgery faculty. Independent department of Plastic surgery was started in 1984, during the tenure of Dr. P A Vinod Kumar. Dr Karoon Agrawal became the Head of the department in 1987. Department is well known for high quality of cleft and craniofacial surgery and hypospadias surgery. During the year 2009 the institute became autonomous and there are improvements in infrastructure and simultaneously the microvascular surgery facilities, laser surgery and aesthetic surgery started with state of art equipments.

EDUCATIONAL COURSES

A. Undergraduate Courses

- The Department continues with its undergraduate teaching program. It holds regular classes for Undergraduate MBBS students. The 4th semester MBBS students are given lectures on Basic Principles of Plastic Surgery, Maxillofacial Injuries, Craniofacial Anomalies, etc.
- B. Sc (Nursing) 7th semester students were given bed side training in the plastic surgery ward for a period of one month.

B. Postgraduate Courses

- The faculties were involved in teaching and training of Junior Resident (Postgraduate) students of MS General Surgery, Orthopedic Surgery and ENT during their peripheral posting in the department of Plastic Surgery by giving didactic lectures, moderating seminars, journal clubs, etc. and clinical teaching during ward rounds.
- Master in Physiotherapy students from Mother Theresa Institute had given hands on training for the rehabilitation of patients with hand injury and burn wound contracture prevention.
CONTINUING MEDICAL EDUCATION PROGRAMS

On the sidelines of the NABICON-2010 main Conference one day CME Programme for nursing students was organized on 31st January 2010.

Dr. Karoon Agrawal

- As Ethicon Visiting Professor visited three Institutes of Plastic Surgery from 18th to 21st May 2009.
  i. Visited the Department of Burns and Plastic Surgery, Safdarjung Hospital, New Delhi, delivered three Lectures on Cleft Nose Correction, Management of Palate Fistula Techniques of Hypospadias Urethroplasty.
  ii. Demonstrated a case of Palatoplasty and Hypospadias Urethroplasty in a mid Penile Hypospadias.

- Visited Alok Cosmetic & Plastic Surgery Hospital, Kota and conducted two days Workshop-cum-Camp. Demonstrated Rhinoplasty, Management of Tempomo-mandibular joint Ankylosis and scar revisions.

- Addressed the Press Meet on the present scenario, Prevention and Management of Burns in India at Kota, Rajasthan.

- Attended the Cleft Lip Nose Deformity Symposium, New perspective, organized by the Department of Plastic Surgery, C.S.M. Medical University, Lucknow, on 4th July 2009.
  i. Demonstrated cleft Nose Correction in Unilateral Cleft Lip and Palate at Lucknow.
  iii. Interacted with Faculty and Residents of the Department of Plastic Surgery at Lucknow.

- Attended the 16th KPSA Instructional Course in Plastic Surgery held on 16 - 17th January 2010, as Faculty at Amrita Institute of Medical Sciences, Cochin and delivered key note lecture on :
  i. Speech assessment in VPI from surgeons’ perspective at KPSA Course, Cochin.
  ii. Surgical Management of VPI at KPSA Course, Cochin.

Dr. Friji. M.T

- Attended the 3rd short course in Good clinical Practice Guideline held in Tata Memorial Hospital Mumbai.

CONFERENCES

Dr. Karoon Agrawal

- Attended as an Invited Faculty for the 44th Annual Conference of the Association of Plastic Surgeons of India (APSICON-2009) on 5-9th August 2009 at Mahabalipuram, Chennai.

  Presented an Operative Video on “Snodgrass Technique of Hypospadias Urethroplasty” at APSICON-2009.
Attended as Faculty - CLEFT 2009, the 11th International Congress on Cleft Lip & Palate and Related Craniofacial Anomalies from 10-13th September 2009, at Fortaleza, Brazil.

Presented following free papers at Brazil on 10-13th September 2009:

i. Efficacy and Safety of flexible Laryngeal mask airway for cleft palate surgery in children.

ii. Difficult Cleft Palate Repair.

iii. Bilateral Congenital question mark cleft of the ear: Two cases.

Participated in the following Symposium

i. Comprehensive Nasal Correction with or without Lip revision to achieve Final Aesthetics in Cleft Lip.

ii. Columella lengthening in bilateral cleft lip using central lip flap.

iii. Revision Palatoplasty for the repair of the cleft palate fistula.

Attended as a faculty - HYPOCON 2009, an International Workshop on Hypospadias Surgery on 3-4th October 2009 at Pushpanjali Hospital, Agra.

Attended IPRAS 2009, The 15th World Congress of the International Confederation for Plastic, Reconstructive and Aesthetic Surgery held at New Delhi, from 29th November to 3rd December 2009.

Presented following free papers at IPRAS-2009

i. “Long Term Results of Hypospadias Urethroplasty”.

ii. “Technique of Alar Web Correction in Unilateral Cleft Lip Nose”.

Presented following E-Poster at IPRAS-2009

i. “Changing Trends in the time schedule of primary cleft lip and palate repair”

Attended the 16th KPSA Instructional Course in Plastic Surgery held on 16 - 17th January 2010, as a Faculty at Amrita Institute of Medical Sciences, Cochin.

Attended the 9th Annual Conference of the Tamil Nadu & Pondicherry Association of Plastic Surgeons Conference on 6th & 7th February 2010 at Pondicherry.

Dr. Karoon Agrawal was Moderator of following Sessions

i. Pediatric and Psychosocial and support group at Cleft – 2009, Brazil.

ii. Dr. C. Balakrishnan Oration at APSICON-2009.

iii. A session on “Craniofacial Deformities” at TANPAPSCON-2010.


Dr. K. N. Panda

- D. Hazmat (Hazardous material) Life Supporting Training (AHLS) for Doctors in India on 6-9th March 2009.
- The 9th Annual Conference of the Tamil Nadu & Pondicherry Association of Plastic Surgeons Conference on 6-7th February 2010, at Pondicherry was attended.

Dr. Friji M.T

- Attended 7th conference on Evidence Based Management of Cancer India Held in Tata Memorial Hospital Mumbai in February 2009.
- Attended the National Conference NABICON-2010, the 18th Annual Conference of National Academy of Burns-India from 29-31st January 2010 at JIPMER, Puducherry-6.

Dr. Devi Prasad Mohapatra

- Attended as a Delegate- 44th Annual Conference of the Association of Plastic Surgeons of India (APSICON 2009), at Mahabalipuram, Chennai, on 5-9th August 2009.

Presented free papers at APSICON 2009

  i. “Rigid Internal Fixation of Mandibule Fractures using Autologous Bone Grafts.”

Presented Poster at APSICON 2009

  i. “Use of R E D II System in Cleft Palate Patients.”

RESEARCH PROJECTS

The research projects in the Department are clinical projects. They are progressing well. Some of them have been published and some are on the way of publication. There are few projects, which are waiting for submission for publication and rest are on the way of data collection. The important projects underway are:

1. The surgical protocol for cleft lip and palate children in developing countries.
2. Raw area free closure of cleft palate.
3. Dimensions of palate shelves in cleft palate.
4. Assessment of combined technique in Hypospadias Urethroplasty.
5. Meshed skin graft in contracture release.
6. Use of stapler to fix the skin graft.
7. Chest wall contracture, etc.

Dr. Karoon Agrawal

Association in Dissertation

“Caudal verses penile block analgesia – Hypospadias Urethroplasty” by Dr. K. T. Yuvaraj, MD Anesthesiology. The guide is Dr. Pankaj Kundra.
PUBLICATIONS

A. Journals


B. Book Chapters


PATIENT CARE SERVICES

MONTH - WISE STATISTICS FOR OPERATIONS PERFORMED, DRESSINGS DONE AND OPD ATTENDANCE

<table>
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<tr>
<th>Month</th>
<th>In-patients</th>
<th>Out-patients</th>
<th>Dressings</th>
<th>OPD Attendance</th>
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<td>Mar – 2010</td>
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</tr>
</tbody>
</table>
Apart from the above 25 cases of Nasal endoscopy had performed during the year 2009-2010.

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr. Karoon Agrawal

1. Elected as the National President of “National Academy of Burns India – 2009-10.
2. Member of the Smile Train Medical Advisory Board in India. 2009.
3. Awarded “Ethicon Visiting Professorship in Plastic Surgery” by the Association of Plastic Surgeons of India.
4. Invited as International Faculty to International Congress of Cleft Lip and Palate Society at Brazil in September 2009.
6. Nominated for “Life Time Achievement Award” by the National Academy of Burns-India.

Dr. Devi Prasad Mohapatra

1. Selected for Fellowship for Training in Plastic Surgery in Two Centers in Tamil Nadu.
2. Converted into Member (Full Life) Associations of Plastic Surgeons of India.

Dr.Friji.M.T

1. Became Life Member of Associations of Plastic Surgeons of India.
2. Life Member of National Academy of Burns, India.

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNEMENTS

Dr. Karoon Agrawal

1. Administration of Two Departments; Plastic Surgery and Dentistry.
2. Management of routine and emergency out patients and inpatients.
3. Performing routine and emergency operations – More than 400 operations were performed during the year.
4. UG & PG Teaching, Research and Publication.

Membership in various committees

1. Dr. Karoon Agrawal was nominated as a Member to the Medical Advisory Board of The Smile Train Medical Advisory Board in India by the Chairman of Medical Advisory Board, The Smile Train, USA.

Dr. Karoon Agrawal had acted as Chairman of the following administrative committees:
i. Suture, disinfectant and Hospital Stores Article Committee.
ii. Transport Committee
iii. Auditorium Committee

Dr. Karoon Agrawal had acted as Member of the following Committees:

i. Library Committee
ii. Research Committee
iii. Many Organizing Committees’ Member of the Institute Functions.
iv. President of National Academy of Burns India 2009-10.
v. Reviewer for journals and judges for awards.
vi. Visited Kota (Rajasthan) as a Faculty and conducted Plastic Surgery camp on 13-14th May 2009.
vii. Research Committee of Mahatma Gandhi Post Graduate Institute of Dental Sciences, Government of Puducherry, Puducherry.

SIGNIFICANT EVENTS IN THE DEPARTMENT

Organized

1. National Conference NABICON-2010, the 18th Annual Conference of National Academy of Burns India from 29-31st January 2010 at JIPMER, Puducherry-6.

2. Functioning of Laser Unit: Intense Pulse Light, NDYAG and CO₂ LASER Services provided to patients.

Health Camp

1. Attended JIPMER Outreach Camp at Karaikal for management of plastic surgery patients.

Visiting Professor

1. Dr. Michele Mancaud Bayard, Aesthetic Surgeon from Toulouse, France visited the department on 24th August 2009. She participated in the academic and observed the surgeries performed in the department.

2. Professors of Polish Academy of Science Bilateral Exchange Programme visited the department on 2-4th September 2009. During their visit Prof. Waldemar Lech Olszewski gave a Guest Lecture on the following title: “Actual methods of surgical and conservative methods of treatment of advanced lymphedemia of lower limb”.

3. Dr. Ryuighi Murakani and Dr. Kazuo Kobayashi visited the Department of Plastic Surgery from 30th January to 3rd February 2010.
BACKGROUND INFORMATION OF THE DEPARTMENT

The Department of Preventive and Social Medicine has been training undergraduates from the inception of JIPMER and Postgraduates from 1979. Undergraduate training also includes paramedical disciplines like laboratory sciences, medical records and nursing. Several hundreds of quality research publications and over 50 postgraduate dissertations have been the research achievements. The faculty have international standing mentioned in publications of “Who's Who in the World”, “Dictionary of International Biography” and “Who's Who in Asia”. The department has also completed several internationally funded research projects of which the latest as on “Model Geriatric Care” funded by WHO. The department has well organized Urban and Rural Health Centres, visited by stalwarts like Professor John M Last. These centres have well established and documented family folder system of medical records which facilities family centered teaching, training and follow up health care service.

EDUCATIONAL COURSES

A. Undergraduate Courses

The department continues with its undergraduate teaching programs which includes MBBS including internship and BSc MLT. Concepts of Public Health, Preventive and Social Medicine is taught to the students with various committee based practical learning experiences and several hands-on experiences. The first two semesters (first year MBBS students) learn the basic concepts of Community Medicine like factors affecting health and disease, levels of prevention along with visit to CERTH India (a Rehabilitation Centre), Sociology, behavioural Science, Health Economics and Home economics. They visit Rural Health Centre to learn the importance of Primary Health Care. They are also trained to plan, prepare and presentation of health Education to the school students on various topics. In the third and fourth semester, students are taught on General epidemiology, Nutrition and demography, maternal and child health and biostatistics. In addition, during the third semester students are taken to visit places related to environmental health (VCRC, Water works, JIPMER & Ashram kitchen,

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Sewage treatment plant etc). In the same third semester students are given training for research methodology through Community Diagnosis posting. In fourth semester students are allotted a family from the field service area of JIPMER Urban Health Centre to follow up for one year to learn the socio-cultural determinants of health and disease (Family Health Advisory Program). They also visit various National Health Program offices to learn the organization structure and functioning of the national Health Programs and its practical difficulties directly from the Program implementation officer. In addition, concept of Primary Health Care is reinforced through 15 days posting on “Revitalizing Primary Health Care”. In fifth, sixth and seventh semester, Public Health Administration concepts are dealt in detail (Introduction to health management, Organization & functions of Health Care delivery in India – Infrastructure, Job descriptions & Responsibilities, Primary Health Care and Health for all, National health policy, National population policy, Health team approach. Health Economics. Also, topics on communicable diseases, non-communicable diseases, genetics and health are covered. During Community Diagnosis posting at seventh semester students are given hand on experience in conducting a research for a specific epidemiological topic. Practical learning exercises on epidemiology, total sanitation campaign, family welfare demonstration, disaster management, cost effectiveness analysis, nutrition demonstration, tribal health, geriatric health are also included in the seventh semester.

B. Postgraduate Courses

There are 8 Postgraduate residents. PG academic activities carried out in the department are seminars, Journal club, PG exercises in addition to completing a dissertation. Residents are directly involved in the teaching of undergraduates, both in the field and in practical classes. As a part of the PG training, Residents are visiting the health center every week to assess and evaluate the services provided by the Health Center. Two model exams are conducted for final year residents in mid November and mid January. Internal assessment system would be introduced shortly.

PGDPHM

One candidate for PGDPHM course was sponsored by Pondicherry State Government for the year 2009 – 10. For the year 2010-11, a total of 19 candidates (Kerala: 12; Tamilnadu:2; Pondicherry:1) are sponsored for PGDPHM course.

CONTINUING MEDICAL EDUCATION PROGRAMS

Prof. MB Soudarssanane

- Prof. MB Soudarssanane delivered lecture on “Prediction of future course of the pandemic using Mathematical Models” in the CME program on “Influenza A H1N1 2009” conducted by the department in co-ordination with department of Microbiology on 27 November 2009, at SSB auditorium.

- Prof. MB Soudarssanane delivered a guest lecture at Krishi Vighyan Kendra, on “Good Nutrition-Foundation for Healthy Life” on 03.09.09 organized by Food and Nutrition Board and Inaugurated by Hon’ble Shri S Kandasamy, Minister for Co-operative and Social Service, Govt of Pondicherry.

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• Prof. MB Soudarssanane delivered a guest lecture on 19.09.09 about “Research Areas in Primary Health Care” at Mankula Vinayakar Medical College, Ariyur, and Pondicherry (as a part of SIMCON09-Conference for Medical Undergraduates).

• Prof. MB Soudarssanane delivered lecture on “Nutrition of Under-five Children” at Training program for 800 Anganwadi Workers on 3.02.2010 conducted by ICDS in co-ordination with Department of Preventive and Social Medicine, JIPMER at JIPMER main auditorium.

• Prof. MB Soudarssanane was a resource person for orientation classes conducted by ICDS under KISHORI SHAKTI YOJNA for adolescent girls on 20th and 27th of the June and 1st August 2009.

Dr. Gautam Roy

• Dr. Gautam Roy delivered lecture on “Control of Diarrheal Diseases” at Training program for Anganwadi Workers about on 3.02.2010 conducted by ICDS in co-ordination with Department of Preventive and Social Medicine, JIPMER at JIPMER auditorium.

• Dr. Gautam Roy delivered lecture on “Nutrition & Health Care of Pregnancy and Lactating Women on Training Program for CDPO and welfare officers conducted by Food and Nutrition Board, Pondicherry in coordination with ICDS and Department of PSM, JIPMER on 16.02.2010.

Dr. Premarajan KC

• Dr. Premarajan KC delivered lecture on “Epidemiology of Influenza AH1N1” in the CME program on “Influenza A H1N1 2009” conducted by the department in co-ordination with department of Microbiology on 27 November 2009, at SSB auditorium.

• Dr. Premarajan KC delivered lecture on “Control of Respiratory Infections including AH1N1” at Training program for Anganwadi Workers about on 3.02.2010 conducted by ICDS in co-ordination with Department of Preventive and Social Medicine, JIPMER at JIPMER auditorium.

• Dr. Premarajan KC delivered lecture on “Nutritional Scenario in India – Consequences of Malnutrition” on Training Program for CDPO and welfare officers conducted by Food and Nutrition Board, Pondicherry in coordination with ICDS and Department of PSM, JIPMER on 16.02.2010.

• Dr. Premarajan KC was a resource persons for orientation classes conducted by ICDS under KISHORI SHAKTI YOJNA for adolescent girls on 20th and 27th of the June and 1st August 2009.

Dr. Sonali Sarkar

• Dr. Sonali Sarkar delivered lecture on “Pondicherry Scenario of Pandemic H1N1 2009” in the CME program on “Influenza A H1N1 2009” conducted by the department in co-ordination with department of Microbiology on 27 November 2009, at SSB auditorium.

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Dr. Sonali Sarkar delivered a lecture on “Nutritional Needs of Adolescents” at a Training Program for Anganwadi Workers on 3rd February 2010, conducted by ICDS in coordination with the Department of Preventive and Social Medicine, JIPMER at the JIPMER auditorium.

Dr. Sonali Sarkar was a resource person for orientation classes conducted by ICDS under KISHORI SHAKTI YOJNA for adolescent girls on 20th and 27th of June and 1st August 2009.

Dr. Sonali Sarkar delivered a lecture on “Nutritional Scenario in India – Consequences of Malnutrition” at a Training Program for CDPO and welfare officers conducted by the Food and Nutrition Board, Pondicherry in coordination with ICDS and the Department of PSM, JIPMER on 16th February 2010.

CONFERENCES

Dr. Swaroop Kumar Sahu attended the training course on Health and Human Rights, organized by NIHFW, New Delhi between 24th and 28th August 2009.

The 54th Annual National Conference of IPHA 2010 held on 22nd to 25th January at Vishakapatnam was attended by Dr. Jayalakshmy R, Dr. Subitha L, and Dr. Miss Lopamudra.

Dr. Jayalakshmy R (Senior resident) presented a paper titled “Acute diarrheal Diseases among Under-five Children in Urban Pondicherry” at the 54th Annual National Conference of IPHA 2010 held on 22nd to 25th January at Vishakapatnam.

Dr. Subitha L (Junior resident) presented a paper titled “Effect of Physical Activity on Blood Pressure- A Community Based Intervention Study” at the 54th Annual National Conference of IPHA 2010 held on 22nd to 25th January at Vishakapatnam.

Dr. Miss Lopamudra (Junior resident) presented a paper titled “Study of Food Behaviour of Adolescent Girls in an Urban Slum” at the 54th Annual National Conference of IPHA 2010 held on 22nd to 25th January at Vishakapatnam.

The 37th National Annual Conference of Indian Association of Preventive and Social Medicine (IAPSM) organized from 22nd to 24th February 2010 at Ranchi, was attended by Dr. Thiruselvakumar (Senior Resident), Dr. Sumanth MM (Senior Resident), Dr. Prasanna T (Junior Resident), Dr. Susila T (Junior Resident), Dr. Punithakumary P (Junior Resident), Dr. Ghorpade Arun Gangadhar (Junior Resident), Dr. Dhruv Kumar Pandey (Junior Resident) and Dr. Shanmugam (PGPHM candidate).

Dr. Susila T (II year PG Junior Resident) presented a paper titled “Overcoming Barriers for Gynecological Examination in Post-Menopausal Women” at the 37th National Annual Conference of Indian Association of Preventive and Social Medicine (IAPSM) organized from 22nd to 24th February 2010 at Ranchi.

Dr. Dhruv Kumar Pandey (I year PG Junior Resident) presented a project proposal for an epidemiological grant titled “Child Prophylaxis for Tuberculosis in Pondicherry” at the 37th National Annual Conference of Indian Association of Preventive and Social Medicine (IAPSM) organized from 22nd to 24th February 2010 at Ranchi.
Dr. S. Shanmugam, PGDPHM candidate presented a paper titled “status of Primary Health Centres of Pondicherry as per Indian Public Health Standards” at 37th National IAPSM annual conference, 22nd to 24th February 2010 at Ranchi.

RESEARCH PROJECTS

A. Funded Projects

Ongoing Research Projects, funding agency and Amount of sanction funded:

WHO funded Tele-Ophthalmology project at RHC, Ramanathapuram.

B. Departmental Projects

1. Effect of Physical Activity On Blood Pressure - A Community Based Intervention Study. Dr. Subitha L, Prof. Soudarssanane MB, Dr. Gautam Roy, Mr. Murugesan (Physical Educator).

2. Study of Food Behaviour of Adolescent Girls in Relation to Their Nutritional Status. Dr. Miss Lopamudra, Dr. KC Premarajan, Prof. Soudarssanane MB.

3. Addressing Air-borne Infection Control through Appropriate Disposal of Sputum in Home Conditions. Prof. Soudarssanane MB, Dr. Gautam Roy, Dr. Swaroop K Sahu, Dr. Sonali Sarkar, Dr. Subitha, M Lopamudra, Dr. Frasanna, Dr. Betsy Mathai, Dr. Sougoumarane. (Intramural project; Approved by JSAC).

4. Distribution of Blood Pressure among Children in Rural Area of Pondicherry. Prof. Soudarssanane MB.

5. Base-line survey of Lipid Profile among Adolescents and Young Adults in Rural Pondicherry. Prof. Soudarssanane MB.

6. Community Based Survey of Prevalence of HIV in Rural Pondicherry. Prof. Soudarssanane MB.

7. Draft Proposal of Additional Inputs in ICDS to Eliminate Malnutrition submitted to Planning Commission of India November 2009 by Prof. Soudarssanane MB.


9. Prevalence, perceptions and Impact of common Gynecological morbidities in Postmenopausal Women in rural Pondicherry by Dr. Susila, Dr. Gautam Roy, Prof Soudarssanane MB. (Intramural project).

10. Identifying Adolescent School Students with Mental Health Problems: Can Teachers Help! by Ms. Vidhya (Final Year MBBS), Dr. Gautam Roy (Intramural project; Approved by JSAC).

11. Effect of Anger Expression on Blood Pressure among Adolescents by Manjula (III yr MBBS), Prof. Soudarssanane MB, Dr. Shivanand K. (Intramural project; Approved by JSAC).

12. Magnitude and Determinants of Attempted Suicides in Pondicherry and TamilNadu by Dr. Punitha Kumary P, Dr. KCPremarajan, Dr. Swaroop Kumar Sahu (Intramural project).
13. Community Based Intervention for Depression among Elderly. Dr. Sonali Sarkar, Dr. Shivanand, Dr. KC Premarajan, Prof. Soudarssanane MB, Dr. Gautam Roy, Dr. Jayalakshmy R. (Intramural project; Approved by JSAC).

14. Health Seeking Behavior of Pulmonary tuberculosis Patients in Rural Area and Urban Areas and Urban slums of Pondicherry by Dr. Swaroop Kumar Sahu, Prof Soudarssanane MB, Dr. Gautam Roy, Dr. Sumanth MM, Dr. Subitha, Dr. M Lopamudra, Dr. Prasanna T, Dr. Susila. (Intramural project).

15. Controlling TB infection through safe disposal of sputum at home, Prof. M.B. Soudarssanane, Dr. Swaroop Kumar Sahu (Ongoing).

16. General Health Survey among school students of Pondicherry in classes 8 to 10 using Global School-Based Student Health Survey (GSHS) questionnaire, Suresh Thapaliya, Dr. Swaroop Kumar Sahu, Dr. Gautam Roy, Prof. M.B. Soudarssanane (Ongoing).

17. Status of Primary Health Centers at Pondicherry as per Indian Public Health Standards, Dr. S. Shanmugam, Dr. Gautam Roy, Dr. Swaroop Kumar Sahu (Completed).

18. Prevalence and determinants of mental disability using IDEAS in urban field practice area of JIPMER, Puducherry. Dr. Ganesh Kumar S, Prof Soudarssanane MB, Dr. Shivanand K, Dr. KC Premarajan, Dr. Sitanshu Sekhar Kar. (Intramural project; Approved by JSAC).

19. Prevalence and Annual Cost of Care for Hypertension In Urban Puducherry. Dr. Sithanshu Sekhar Kar, Prof Soudarssanane MB, Dr. KC Premarajan, Dr. Gautam Roy, Dr. Thiruselvakumar D, Dr. Prasanna T. (Intramural project; Approved by JSAC).

20. Incidence of Diabetes Mellitus in Rural Pondicherry. Dr. Ghorpade Arun Gangadhar, Prof. MB Soudarssanane, Prof. P.H. Ananthanarayanan.

21. Services Evaluation of 24-Hour and Day - Time primary Health Centres of Pondicherry and TamilNadu. Dr. Dhruv Kumar Pandey, Prof. MB Soudarssanane, Dr. Krishnaraj (Deputy Director, Health Services, Vilupuram), Dr. Naidu G S (Deputy Director, Health Services, Pondicherry).

22. Cost Analysis of Diabetes Care and Quality of Life among Diabetics in Pondicherry. Dr. T. Prasanna, Prof. MB Soudarssanane.

PUBLICATIONS

Journals


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# PATIENT CARE SERVICES

**Jawaharlal Institute Rural Health Centre, Ramanathapuram and Jawaharlal Institute Urban Health Centre, Kuruchikuppam Annual Report for April 2009 to March 2010**

<table>
<thead>
<tr>
<th>Sl No</th>
<th>Service</th>
<th>RHC</th>
<th>UHC</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>OPD Attendance</td>
<td>16,252</td>
<td>28,252</td>
<td>44,504</td>
</tr>
<tr>
<td></td>
<td>Average per month</td>
<td>1,354</td>
<td>2,354</td>
<td>3,708</td>
</tr>
<tr>
<td>2</td>
<td>Emergencies</td>
<td>3,536</td>
<td>-</td>
<td>3,536</td>
</tr>
<tr>
<td></td>
<td>Average per month</td>
<td>295</td>
<td></td>
<td>295</td>
</tr>
<tr>
<td>3</td>
<td>Chronic cases Detail</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>A. Total No of Service area</td>
<td>4</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>B. No availing Services of Chronic diseases</td>
<td>378</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>C. Total Chronic Illness Clinic conducted</td>
<td>54</td>
<td>47</td>
<td></td>
</tr>
<tr>
<td></td>
<td>D. Total patients treated</td>
<td>4,498</td>
<td>4042</td>
<td>8,540</td>
</tr>
<tr>
<td>4</td>
<td>TB Report</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>A. DOTS – Category 1</td>
<td>13</td>
<td>8</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>DOTS – Category 2</td>
<td>8</td>
<td>6</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>DOTS – Category 3</td>
<td>3</td>
<td>6</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>B. NON-DOTS</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>24</td>
<td>20</td>
<td>48</td>
</tr>
<tr>
<td>5</td>
<td>Antenatal Clinics Conducted</td>
<td>51</td>
<td>47</td>
<td></td>
</tr>
<tr>
<td></td>
<td>New ANC Registered</td>
<td></td>
<td>140</td>
<td>280</td>
</tr>
<tr>
<td></td>
<td>Service Area</td>
<td>123</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Non Service area</td>
<td>67</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Under-five clinics Conducted</td>
<td>49</td>
<td>47</td>
<td></td>
</tr>
<tr>
<td></td>
<td>New Under-five children registered</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Service Area</td>
<td>154</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Non Service area</td>
<td>70</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Immunization</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>A. Antenatal</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TT 1 dose</td>
<td>119</td>
<td>110</td>
<td>229</td>
</tr>
<tr>
<td></td>
<td>TT 2 dose</td>
<td>104</td>
<td>96</td>
<td>200</td>
</tr>
</tbody>
</table>
B. Children

- DPT +OPV 1 dose: 158
- DPT +OPV 2 dose: 154
- DPT +OPV 3 dose: 151
- DPT +OPV Booster: 145
- Hepatitis B 1 dose: 161
- Hepatitis B 2 dose: 170
- Hepatitis B 3 dose: 154
- Measles: 151
- MMR: 143

C. School Children

- DT at 5 yrs: 134
- TT at 10 yrs: 189
- TT at 16 yrs: 89

8 Laboratory Investigations

- Hemoglobin: 756
- TLC: 31
- DC: 31
- ESR: 09
- Peripheral Smear: 12
- Malarial Parasite: 105
- Bl Sugar (GMR)/FBS/PPBS: 507
- Blood Grouping+Rh typing: 14
- VDRL: 05
- Sputum for AFB: 127
- Urine Albumin: 633
- Urine Sugar: 523
- Urine deposits: 30
- Stool examination: 02
- Pregnancy tests: 43

GRAND TOTAL: 2828

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AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr. MB Soudarssanane

1. Professor and HOD Dr. MB Soudarssanane has been nominated as reviewer for Bulletin of the World Health Organization.

2. Prof. Soudarssanane MB was awarded the BK Mahajan award for the best research paper published in Indian Journal of Community Medicine for the year 2008, in IAPSMCON-2010, Ranchi, for the article "Tracking of blood pressure among adolescents and young adults in an urban slum of Puducherry" IJCM-2008:33: 107-12.

3. Prof. Soudarssanane MB was selected for the BK Mahajan award for best research paper published in Indian Journal of Community Medicine for the year 2009 (the announcement came in April 2010) for the article "Community-Based Randomized Controlled Trial of Non-pharmacological Interventions in Prevention and Control of Hypertension among Young Adults." IJCM-2009:34: 329-34.


5. Prof. Soudarssanane MB is the Chief Consultant cum Co-ordinator, Prof Gautam Roy and Dr KC Premarajan are the project consultants for the Evaluation of ICDS under NIPCCD.

6. Dr. Subitha (final year PG Junior resident) was awarded first prize for the essay “Role of Government in Public Health Issues” organized by the Youth Wing of IPHA at the 54th Annual National Conference of IPHA 2010 held on 22 to 25 Jan at Vishakapatnam.

7. Dr. Punithakumary P (I year PG Junior Resident) has been awarded the epidemiological grant assistance from Indian Association of Preventive and Social Medicine for the project titled “Pattern of Morbidity among Textile Workers in Pondicherry”.

8. Dr. Ghorpade Arun Gangadhar (I year PG Junior Resident) has been awarded the epidemiological grant assistance from Indian Association of Preventive and Social Medicine for the project titled “Epidemiological Profile of A H1N1 Pandemic in Pondicherry”.

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

New services started

1. Geriatric clinic is conducted at UHC, Kuruchikuppam and RHC, Ramanathapuram.

2. The Field Visit Program for residents has been re-initiated since 15 June 2009. In this program all residents visit RHC and UHC on every Monday and Thursday. They give technical support to the MO, staff and interns to improve service delivery in specified areas of public health interest like child health, maternal health, communicable and non-communicable diseases. While the centers are benefitted by the guidance from Senior Residents, the program also serves as training exercise for PG residents.

3. Internal arrangements in the department have been made by creating three units, i.e., Head Quarter unit, Urban Health Center unit and Rural Health Center unit for smooth administration.

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4. An autoclave was installed in JIRHC, Ramanathapuram on 28th of April for maintenance of asepsis and improvement of patient care in JIRHC.

**New Courses planned**

1. Modified proposal for JIPMER SCHOOL of PUBLIC HEALTH was submitted by Prof MB Soudarssanane to the President of the Institute for approval.

2. Proposals for starting Post Graduate Diploma in Public Health Management (PGDPHM) and Masters in Public Health (MPH) courses have been submitted to the Institute for approval by Academic Council.

**SIGNIFICANT EVENTS IN THE DEPARTMENT**

1. Health Camp on Geriatric Gynecology was conducted by the Department in collaboration with the Dept. of Obstetrics and Gynecology on 28.06.09 at Thondamanatham village. 157 ladies above 50 years underwent the gynecological examination and Pap smear. All the faculty and residents of the Department of PSM were present.

2. Similar Health Camp on Geriatric Gynecology was conducted by the Department in collaboration with the Dept. of Obstetrics and Gynecology on 17.09.09 at Thuthipet village. 71 ladies above 50 years underwent the gynecological examination and Pap smear. All the faculty and residents of the Department of PSM were present.

3. The Anti-Malaria month was observed in Urban Health Center on 19th June 2009. The function was presided by Dr MB Soudarssanane, Professor and HOD PSM and the Chief Guest was Dr. Jambulingam, Director, VCRC. Role play was presented by interns on awareness of vector borne diseases.

4. Four Health Camps were organized by the Department as a part of Community Diagnosis posting for MBBS students learning of organization and planning of health camp, on 09.07.09 at Keezhkuthapakkam village, on 24.07.09 at Semmangalam Village, on 07.08.09 at Kadaperikuppam village and on 03.09.09 at Pothurai village. In each camp nearly 500 patients were given consultation. Health education was given in the camps by the Undergraduates in all three camps. All the faculty and residents of the Department of PSM were present.

5. School health check up was done by the department in Semmangalam government high school and about 125 school children were examined. 23 students were referred to JIPMER for follow up.

6. Urban Health Centre in association with Food and Nutrition Board, Pondicherry, observed the breast feeding week on 4th August 2009.

7. Workshop was conducted on Iodine Deficiency Disorders (IDD) in collaboration with Food and Nutrition unit and Department of Women and Child Development, Puducherry on 27.10.2009.

8. Department has initiated a detailed Epidemiological Investigation of Influenza A H1N1 Epidemic in Pondicherry.

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9. Iodine Deficiency Disorders (IDD) week was observed at Anganwadi Centre at Urban Health Centre service area on 21.10.09 and UHC, Kuruchikuppam on 23.10.09.

10. A meeting was held on 05-11-2009 in the Dept. of Community Medicine under the chairmanship of Professor and Head Dr. MB Soudarssanane to draft State Nutrition Policy and recommend strategies to eliminate malnutrition in Pondicherry. All faculty and residents of the department and Program officer and welfare officers of ICDS Pondicherry took part in the discussion.

11. In continuation with the earlier Draft recommendations of the department on elimination of malnutrition submitted to the Govt. of Pondicherry on 09.09.09, Draft recommendations on ICDS with regard to the elimination of malnutrition in the whole country was submitted to Govt. of India and the Planning Commission on 12.11.09.

12. During the month of November 2009 a team of Faculty and residents of the department of PSM, Technical Assistance, Microbiologist and Medical Social worker carried out a detailed investigation of an outbreak of Anthrax in seven villages (Eppakam, Nolambar, Kuchikulathur, Naramangani, Saram, Melaka, Olakkur) Mangalum village, Tindivanam district in Tamil Nadu and necessary steps were initiated with the help of the local village leaders and health department.

13. Faculty and residents visited sixty Anganwadi centers and 4 ICDS project offices in connection with supervisory visits for evaluation of Integrated Child Development Service in Pondicherry in collaboration with National Institute Public Cooperation and Child Development.

14. The World Tuberculosis Day was observed in Urban Health Center on 20th March 2010 and in RHC on 23rd March 2010.
## 8.31 Psychiatry

**Chief Medical Officer (NFSG)* & Acting Head**  
M.K. Srivastava

**Assistant Professors**  
- Ranju Dutta  
- Shivanand Kattimani

*CHS

### BACKGROUND INFORMATION OF THE DEPARTMENT

The Department of Psychiatry of this Institute was started in 1962. Along with patient care, it is active in training, education and research. Professor N.C.Surya, the first Head of the Department, who was also instrumental in starting this department, has been credited for the first epidemiologic study in mental health in India. The Department has been the initiator and supporter for drafting model undergraduate curriculum for psychiatry in India. The Department has set a standard for its patient care and streamlining of specialty clinics is one of its hallmarks in this direction. Apart from the general hospital psychiatry unit it has moved towards Community mental healthcare also. The outreach patient care services are provided through rural and urban Health Centres of this Institute at Ramanathapuram and Kuruchikuppam in Pondicherry and also through regularly held health camps organized by the Institute as part of comprehensive health care to the community. This department is designated as one of the six regional centers for drug deaddiction in India. To cater to the mental health needs of children below the age of 12 years ‘Child guidance clinic’ run in collaboration with the department of Pediatrics is one of its kind in the country. This department has pioneered many research projects in the field of mental health related to acute psychosis, suicidality, dissociative disorders and substance use disorders.

### Important milestones in the department

- **1962** – Inauguration of Mental Health Clinic.
- **1962** – Introduction of Electroconvulsive Therapy.
- **1971** – Opening of inpatient facilities.
- **1972** – Beginning of training for undergraduates.
- **1980** – Annual conference of Indian Psychiatric Society, South Zone.
- **1991** – Starting of postgraduate course in MD Psychiatry.
- **1991** – Establishment of Regional Deaddiction Centre.
1992 – Annual Conference of Indian Psychiatric Society, Tamil Nadu Chapter.
1993 – First orientation program in Substance use disorders for general medical officers.
2002-2006 – Part of Epidemiologic Catchment Area Study sponsored by the World Health Organisation (WHO).
2005 - Participation in Tsunami rehabilitation work

EDUCATIONAL COURSES

A. Undergraduate Courses

The undergraduate teaching in Psychiatry for MBBS students includes classroom didactic teaching on theoretical aspects and clinical training in the department where they are exposed to ward and outpatient department (OPD) functioning. They are taught skills in the assessment and management of psychiatric disorders which include ability to diagnose common psychiatric conditions, making differential diagnosis, managing psychiatric disorders and emergencies and common psychological tests and psychological interventions. MBBS students are encouraged to participate in psychiatric quiz competitions held at the psychiatric conferences of Indian Psychiatric Society. Regular quiz programme as a part of teaching activity started as a model for innovation in education. Feedback is regularly taken from the students. There is a Prize Medal psychiatric test for final MBBS students held every year. This year it was held in November 2009. The department also imparts teaching of Psychiatry to B.Sc (Nursing) students on one semester that includes clinical as well as theory classes. The department continues with the training on psychiatry terminology to trainees of Medical Record Officer courses at this Institute.

B. Postgraduate Courses

There is intake of one postgraduate for MD in Psychiatry in every academic year.

C. Other Courses

Seven students of M.Sc. (Applied Psychology), three from PSG College of Arts and Science, Coimbatore and four from Pondicherry University, Puducherry, underwent training in this department for 1 month.

One student from the Dept. of Social Work, Madras Christian College, Chennai underwent training in this department for one month and two students from Dept. of Social Work, Pondicherry University underwent field work training in this department for two months.

Twenty two post basic B.Sc (Nursing) students from Mother Theresa Postgraduate and Research Institute of Health Sciences, Puducherry underwent clinical training for one month.

One Psychotherapist from Switzerland attended the department as an observer for one week as a part of accreditation requirement for the membership of UK Council of Psychotherapy.

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CONTINUING MEDICAL EDUCATION PROGRAMS

Dr. M.K. Srivastava

- Delivered a guest lecture on ‘Stress management on higher education’ at Kanchi Mamunivar Centre of Postgraduate Studies, Puducherry on 13th October 2009.

- Chaired a session on ‘Transcultural aspect of Neuropsychiatry’ at National Conference on Tropical Neurology (TROPICON 2010) organized by Indian Academy of Neurology at JIPMER, held from 27-28 March 2010 at JIPMER, Puducherry, India.

- Attended CME on rTMS (repetitive transcranial magnetic stimulation) and ECT (electroconvulsive therapy) at NIMHANS, Bangalore held on 2 May 2009.

Dr. Shivanand Kattimani

- Delivered a lecture on “Substance use disorders and depression among adolescents” on 21st December 2009 at Kendriya Vidyalaya, Puducherry.

CONFERENCES

Dr. M.K. Srivastava

- Attended National Conference on Tropical Neurology (TROPICON 2010) organized by Indian Academy of Neurology, JIPMER held from 27-28th March 2010 at JIPMER, Puducherry, India.

Dr. RP Chakraborty

- Attended national conference of Indian Psychiatric Society- Eastern Zone (CEZIPS), Gangtok, Sikkim, 9-11th October, 2009.

- Attended 2nd World Congress of Asian Psychiatry, Taipei, Taiwan held on 7-10th November, 2009. He presented a scientific poster on “Impact of substance abuse on presentation and short term course of schizophrenia” at the conference.

- Attended World Psychiatry Association Regional Meeting 2010 and 5th International Conference on Psychiatry, Dhaka, Bangladesh held between 21-23rd January 2010. He presented a scientific poster on “Predictors of burnout in an Indian psychiatric nursing population” at the conference.

Dr. Shivanand Kattimani

- Attended the National Conference, T S Srinivasan Knowledge Conclave on 12th-13th February 2010 held at Chennai, India.

- Attended International Conference, 10th World Congress of World Association for Psychosocial Rehabilitation, held 12 - 15 November 2009 at Bangalore, India.

Dr. Ranju Dutta

- Attended the Annual National Conference of Indian Psychiatric Society from 17-20th Jan 2010 held at Jaipur.
Dr. Ravi Philip Rajkumar

- attended the Royal College of Psychiatrists’ Annual Meeting at Liverpool, June 2-5th, 2009. He has received International Bursary to attend the same.

RESEARCH PROJECTS

A. Departmental projects

Completed

1. M.D. Thesis entitled “A hospital based case-control study of total plasma homocysteine level estimation in Depression and schizophrenia” by Dr. Arul Varman, MD student, submitted on March 2010.

Ongoing

1. M.D. Thesis entitled “Comparative study of components of Metabolic Syndrome in drug-naïve persons with schizophrenia and their first-degree relatives”, under the co-guidance of Dr. Rajkumar RP.

2. “Predictors of suicide – comparison between Puducherry and Tamil Nadu and estimation of suicide prevalence” under the co-guidance of Dr. Kattimani S.

PUBLICATIONS

A. Journals


B. Book Chapters

2. Dutta R. Non Pharmacological intervention in schizophrenia. In: Child and adolescent mental health cross cultural reflections, by Prof. Indira Sharma in collaboration with Dr., K.N. Dwivedi, University of Leicester, U.K. (under publication process).


4. Sood M, Kattimani S. Unit ‘Schizophrenia and related psychotic disorders’ and Unit ‘Mood disorders’, Block: Mental Disorders. In: Course II - Mental Health and Disorders MSc (Counselling & Family Therapy), published by IGNOU, Delhi, 2009.

PATIENT CARE SERVICES

Highlights of patient care provided: The primary mandate of the department is to provide health care of highest standard in holistic manner. The department of psychiatry practices multi-disciplinary approach in evaluation and management of psychiatric illnesses. The clinical psychologists and psychiatric social workers and occupational therapist form part of the multidisciplinary team. Equal importance is given to both pharmacological and non-pharmacological interventions. Behaviour therapy, cognitive therapy, family therapy, occupational therapy and counseling are also offered along with pharmacotherapy as a part of total management, including access to yoga therapy as an additional modality of treatment with the collaboration of Advanced Center for Yoga Training Education and Research (ACYTER) at this Institute. Families with children suffering from chronic illnesses, alcoholics and families with an AIDS affected member are specially targeted for family therapy interventions. The department provides round the clock 24 hours psychiatry emergency services besides regular daytime clinical care to the patients.

Psychiatric services are made available for the urban population by integrating them with the general health care provided by the Urban Health Centre at Kuruchikuppam and to the rural population by organizing health camps in the nearby rural area of Pondicherry.

The department has been designated as a Regional De-addiction Centre in 1991 by the Ministry of Health and Family Welfare, Government of India. This centre has inpatient facilities for the management of substance abuse disorders. It offers extension services in rural areas through health camps. Orientation training programme for medical professionals is also organised. An elaborate database is maintained to facilitate research in this area.

Creation of awareness for mental health issues among the public is one of the priority area of this department. Frequent talks are given from the department in schools and through media. Psycho-education of patients and their relative is taken by the residents at individual level. Psychologist and social worker engage groups for the same. Patient education materials including pamphlets, audio-visuals are used for topics related to substance abuse in drug-Deaddiction clinic.

Out patient department services includes regular OPD days from Monday to Saturday (except Gazetted holidays). Apart from residents and consultants, OPD are supported by interns, social worker, psychologist, nursing staff and other support staff.
Special clinic in OPD is also run for follow up for the patients with specific disorders which includes Affective disorder Clinic, Schizophrenia, and Neuropsychiatric Clinic. Drug Deaddiction Clinic caters to people who are habituated to alcohol, smoking tobacco, chewing tobacco, cannabis or other drugs. Crisis Intervention Clinic is specially targeted for suicide prevention. Child Guidance Clinic is run in collaboration with Department of Pediatrics.

Special clinic Days

<table>
<thead>
<tr>
<th>Day</th>
<th>Clinic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuesday</td>
<td>Affective Disorder Clinic</td>
</tr>
<tr>
<td>Wednesday</td>
<td>Child Psychiatry forum</td>
</tr>
<tr>
<td>Thursday</td>
<td>Crisis Intervention Clinic</td>
</tr>
<tr>
<td></td>
<td>Child Guidance Clinic</td>
</tr>
<tr>
<td>Friday</td>
<td>Schizophrenia ( follow up) Clinic</td>
</tr>
<tr>
<td>Saturday</td>
<td>Neuropsychiatric Clinic</td>
</tr>
<tr>
<td></td>
<td>Drug Deaddiction Clinic</td>
</tr>
</tbody>
</table>

Inpatient services includes ward with bed strength of twenty-seven, with facility for occupational therapy, patient library, and facility for recreational activities. Special equipments available in the department are brief pulse Electro Convulsive Therapy machine with facility of modified ECT under general anesthesia, serum lithium analyzer for serum lithium estimation. Psychological test materials for complete psychological assessments and diagnostic psychometry are also available.

Total number of patients attended in OPD during the period of report (one year)

1. General clinics
   - New cases: 4533
   - Old cases: 54064
   - Total: 58547

2. Special clinics
   - Affective disorders clinic
     - New Cases: 2254
     - Old Cases: 15808
     - Total: 18062
   - Schizophrenia clinic
     - New Cases: 1361
     - Old Cases: 15610
     - Total: 16971
   - Drug de-addiction clinic
     - New Cases: 954
     - Old cases: 2055
     - Total: 3009
AWARDS, HONORS AND OTHER PERSONAL ACHIEVEMENTS

1. Dr. RP Chakraborty was selected for World Psychiatric Association Young Psychiatrist Travel Award in World Psychiatry Association Regional Meeting 2010, Dhaka, Bangladesh by World Psychiatric Association.

2. Dr. Kattimani S was part of the team that received GC Boral 1 award at annual Indian Association for Social Psychiatry Conference, held at Lucknow, November 2009 for paper presentation titled- Sood M, Sharan P, Kattimani S, Shymsunder A. Prospective longitudinal study on duration of untreated psychosis in patients with first episode psychosis.


ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. M.K. Srivastava, continued to be Chief Medical Officer (Officer on Special Duty) for Institute Administration, Vice-Chairman of JIPMER Official Language Implementation Committee, Officer Incharge of Hindi Cell of this Institute, Secretary Town Official Language Implementation Committee, Puducherry. He was also member of Administrative Information System Advisory Committee of this Institute.

SIGNIFICANT EVENTS IN THE DEPARTMENT

1. Visit made at “HOPE” an NGO, which looks after the welfare of children aged 11-15 yrs of fishermen at Puducherry. Children and adolescents were given awareness about problems of drug abuse. On screening those found having problematic drug use were counseled.

2. Education and awareness programme through media: Talk on drug abuse and deaddiction services for common public, through All India Radio, Puducherry station, on the occasion of International Day against Drug Abuse on June 26th 2009.

3. Adolescents education for their health problems lecture on Drug De-addiction for school children has been delivered at four high schools in Puducherry.

4. Talk on alcohol related problems was delivered to employees of Tamil Nadu Transport Corporation, Puducherry division, Puducherry.

5. Crisis Intervention Clinic (started from 17th September 2009).
BACKGROUND INFORMATION OF THE DEPARTMENT
Post-graduate Course (M.D. T.B. & R.D) was started in April 1994.

EDUCATIONAL COURSES

A. Undergraduate Courses
The department continues with its undergraduate UG teaching programmes which include M.B.B.S. (VI and VII semesters) and B.Sc. Nursing.

B. Postgraduate Courses
The department continues with its postgraduate (M.D. Pulmonary Medicine) PG teaching programmes.

CONFERENCES

Dr. S. Vinod Kumar

- Attended Zonal Task Force (South Zone) Workshop as a chairperson at Pondicherry University, Puducherry from 27/08/2009 to 28/08/2009.

Dr. Manoj Kumar Panigrahi

- Attended Puducherry Revised National Tuberculosis Programme (R.N.T.C.P.) STF (State Task Force) in the Conference Hall, Directorate of Health & FW Services on 12/03/2010.

RESEARCH PROJECTS

Collaborative Project

Ongoing

Dr. S. Vinod Kumar, Additional Professor, Co-investigator, Effect of Antituberculosis Therapy on polymorphic hepatic drug metabolizing enzyme CYP2C9 (March 2007 to August 2008). This is an ICMR project in collaboration with the department of Pharmacology.
PATIENT CARE SERVICES

A. Clinical

1. OPD
   New Cases: 3401
   Old Cases: 18649
   Total: 22050

2. Total Cases Referred to DOT Centres
   Pulmonary Tuberculosis: 177
   Extra Pulmonary: 138
   Total: 315

3. Special Clinic
   Respiratory Allergy and Immunotherapy Clinic (Friday 2 pm. to 4.30 pm.)
   New Cases : 952
   Old Cases: 3918
   Total: 4870

4. HIV / AIDS
   New Cases: 9
   Old Cases: 25
   Total: 34

5. Bronchoscopy
   Fiberoptic Flexible Bronchoscope Performed: 123

6. Respiratory Physiotherapy: 1625

B. Laboratory

   Pulmonary Function Test
     Spirometry Procedures : 315
     Diffusion Capacity Estimation : 67

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr. S. Vinod Kumar

1. Life member of Indian Chest Society (I.C.S.).
2. Member of Indian Association for Bronchology.
3. Member in R.N.T.C.P. (Revised National Tuberculosis Programme) Core-committee, JIPMER, Puducherry.

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Dr. Manoj Kumar Panigrahi

1. Life member of Indian Chest Society (I.C.S.).

SIGNIFICANT EVENTS IN THE DEPARTMENT

1. Dr. S. Vinod Kumar had been to Office of the NBE (National Board of Examinations), New Delhi for the evaluation of theory paper DNB in Respiratory Medicine from 06/04/2009 to 08/04/2009.

2. Dr. S. Vinod Kumar had been to Care Hospitals, Hyderabad as an Inspector of NBE, New Delhi for the accreditation of DNB course in Respiratory Medicine from 05/05/2009 to 06/05/2009.

3. Dr. S. Vinod Kumar had been to PGIMS, Rohtak, Haryana as Examiner for the DNB Respiratory Medicine Practical and Viva Examination from 21/05/2009 to 24/05/2009.

4. Dr. S. Vinod Kumar had been to Andhra Pradesh for MCI inspection of the Physical and the other teaching facilities available at MNR Medical College and Hospital, Sangareddy for starting of M.D. (T.B. & C.D.) and DTCD courses under Dr. NTR University of Health Sciences, Vijayawada U/S 10A of the IMC Act 1956 on 10/09/2009.
BACKGROUND INFORMATION OF THE DEPARTMENT

Computed Radiography was installed and inaugurated by the Director, JIPMER on 01-12-2009

EDUCATIONAL COURSES

Post Graduate Courses MD and DMRD. Two MD and one DMRD candidates were admitted this year.

Total Number of Junior Residents – 8.

CONTINUING MEDICAL EDUCATION PROGRAMS

Dr. S. Elangovan attended

- IInd International Head and neck Imaging course held in April 10 to 12, 2009 at Pune
- First CME in CT guided Interventional procedures 30 & 31st January 2010, at Sriperumpudur, Chennai
- Co Author in poster entitled efficiency of CT angiogram in management of Aneurysmal sub arachnoid hemorrhage presented in the monthly meeting of JIPMER Scientific Society, held on 30th October 2009.

Dr. Bhuvaneswari attended

- IInd International Head and neck Imaging course held in April 10 to 12, 2009 at Pune
- First CME in CT guided Interventional procedures 30 & 31st January 2010, at Sriperumpudur, Chennai.
CME on congenital fetal anomalies conducted by Obstetrical & Gynecological society Puducherry on 22-11-2009 at JIPMER, Puducherry. Dr.V.Bhuvaneswari gave a talk on Newer Imaging Modalities for diagnosing Congenital Fetal Anomalies.

CME on Non Hodgkins Lymphoma conducted by the Departments of Medicine and Medical Oncology, JIPMER at JIPMER on Dec 2009.

Dr. A.Ramesh attended

BRACE 2009 CME on Musculoskeletal Imaging from 10th July 2009 to 12th July 2009 at Chennai, organized by Barnard Institute of Radiology worldwide Alumni Association.

RESEARCH PROJECTS

A. Departmental Projects

Completed

1. Magnetic Resonance Urography as Diagnostic tool in Hydronephosis – Dr.Prakash Muthusami
   
   Guide : Dr. V.Bhuvaneswari
   
   Co-Guide : Dr. S.Elangovan  
   Dr. L.N.Dorairajan

2. Comparison of computed Tomography & Magnetic Resonance Imaging in staging rectal cancer – Dr.I.Mahesh
   
   Guide : Dr. Puran Singh
   
   Co-Guide : Dr. S.Elangovan  
   Dr. Srinivasaan  
   Dr. Jayanthi

Ongoing

1. Comparison of RGU Vs. MR urethrography in the evaluation of male Urethral strictures – Dr.Vijaya Karthikeyan
   
   Guide : Dr. Puran Singh
   
   Co-Guide : Dr. S.Elangovan  
   Dr. L.N.Dorairajan

2. Role of MR Mammography in evaluation of suspicious breast masses – Dr.Padhmini
   
   Guide : Dr. V.Bhuvaneswari
   
   Co-Guide : Dr. S.Elangovan  
   Dr. S.Kadambari
3. Role of diffusion and Contrast enhanced MRI in detecting recurrent or residual cholesteatoma in patients who have undergone tympanomastoid surgery. – Dr. K.C. Venugopal

   Guide : Dr. V. Bhuvaneswari
   Co-Guide : Dr. S. Elangovan
   Dr. Gopala Krishnan

4. Role of Transvaginal sonography and contrast enhanced Magnetic Resonance imaging in determining the depth of myometral invasion in endometrial Carcinoma. – Dr. Vijaya Kumar A.R

   Guide : Dr. V. Bhuvaneswari
   Co-Guide : Dr. S. Elangovan
   Dr. Syed Habeebullah
   Dr. Bhawana Ashok Badhae

**B. Collaborative Projects**

Dr. S. Elangovan is the co-guide for the following extradepartmental Research Projects.

1. Role of P-Glycoprotein Expression as a predictor of response to neo adjuvant chemotherapy in locally advanced Breast cancer. Dr. S. Vishnu Kumar, Department of Surgery.

2. Assessment of clinical radiological and histological response of bone tumours to Neo adjuvant chemotherapy – Dr. Amit, Department of Orthopedics.

3. Effect of positioning from supine & left Lateral to 15 degree lateral on maternal blood flow velocities and waveforms in full term pregnant women – Dr. Jaya, Department of Anesthesiology.

Dr. V. Bhuvaneswari is the co-guide for the following extradepartmental Research Project.

1. Role of Ultrasound in predicting the severity of acute pancreatitis. – Dr. Karthik K. Raichurkg, Department of Surgery

**PUBLICATIONS**


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**PATIENT CARE SERVICES**

We provide diagnostic services like Radiography, special radiological procedures/investigations, Ultrasound, Colour Doppler, CT, MRI, Mammography and Imaging guided diagnostic and therapeutic procedures to the out patients and inpatients of all Departments of this hospital including patients from EMS, Regional Cancer Centre, and super speciality block.

General X-rays, ultrasound and CT scan services are provided to the patients round the clock.
<table>
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<tr>
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</tbody>
</table>

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ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. S. Elangovan
1. Appointed as technical committee member of PMSSY scheme for the procurement of common medical equipments, Ministry of Health and Family welfare, Government of India.
2. Executive Member of IRIA
3. Co guide for various Departmental, and Extra departmental Post graduate Research Projects.
4. Examiner for PG examination in Madurai Medical College, Tanjore Medical College and Stanley Medical College.
5. Member of the expert selection committee for selection of Professors, Associate Professor, and Assistant Professor for PKMC & RI.

Dr. V. Bhuvaneswari
1. Member and fellow Royal College of Radiology.
2. Inspectership – Dr.V.Bhuvaneswari went as DNB inspector for KMCH – Coimbatore.
3. Appointed as examiner for dissertation evaluation, KLF University Belgaum Feb 2009.
4. Examiner for MD/DMRD Postgraduates, JIPMER.
5. Member Indian Radiology & Imaging association.

Dr. A. Ramesh
1. Member Indian Radiology & Imaging Association.

SIGNIFICANT EVENTS IN THE DEPARTMENT
1. Dr.G.Jayaraman superannuated on 31-12-2009
2. Dr.A.Ramesh joined as Assistant Professor on January 21, 2010.
3. Dr.Prakash Muthusamy and Dr.Mahesh.I appeared for M.D. and Dr.Savitha.S.J appeared for DMRD examination held in March 2010 with 100% pass result.
8.34 Radiotherapy

Director RCC, Professor & Head
K.S. Reddy

Professor
S. Vivekanandam

Assistant Professors
V. Parthasarthy
Shyama Sudha Prem
Gunaseelan. K
Ashutosh Mukherji

Lecturers in Radiology (Medical Physics)
N. Vijayaprabhu
Sharika Venugopal Menon
K. Saravananan
R. Seenisamy

BACKGROUND INFORMATION OF THE DEPARTMENT

Since the inception of JIPMER hospital in 1964, Puducherry; for almost 22 years Radiodiagnosis and Radiotherapy services were provided under single roof i.e Department of Radiology. But in consonance with the recommendations made by the Medical Council of India to recognize Post-Graduate programmes, the Department of Radiology was bifurcated into the Departments of Radio-Diagnosis and Radiotherapy in 1986. The department of radiotherapy has been functioning independently since then in JIPMER.

The department of Radiotherapy was also granted Regional Cancer Centre status by the Ministry in 2002 (vide its communication letter F.No.T.20015/38/01-R dated 02.01.2002). The department has been treating nearly 2500 cancer patients annually. Daily, more than 170-190 patients receive radiation and chemotherapy. Most of these patients are treated on an outpatient basis. In the year 2008, Upgradation of Regional Cancer Centre with a separate block having capacity of 82 inpatient beds (including 20 special ward beds), outpatient facilities, day care centre, minor operation theatre etc. has been done at an estimated cost of Rs. 12.874 Crores by MS. L&T an EPC Developer in consultation with HLL. Department of Medical Oncology also started functioning in new Regional cancer centre in collaboration with radiotherapy department to provide efficient services to cancer patients under one roof.

Government of India has given permission to start MD course in Radiotherapy since 2009 with annual intake of 6 students. However, starting of MD (Radiotherapy) is linked to development / providing adequate modern treatment equipment for Radiotherapy Department. For the same purpose, the Government has also accorded sanctions for additional manpower.

It has also been proposed to equip the Regional Cancer Centre with adequate hi-tech therapy equipments like High-energy Linear Accelerator with IMRT/IGRT Treatment facility, HDR Brachy Therapy, CT Simulator, Treatment Planning System etc. to accommodate the increase
in load of cancer patients treated and to impart quality training to PG students in Radiation therapy, Medical Physics and Technology with the latest technology available.

EDUCATIONAL COURSES

A. Undergraduate Courses

The department continues with its undergraduate teaching programmes which include MBBS and B. Sc. Nursing. For the MBBS students interactive lectures, clinical bed side case discussions, demonstration on treatment planning and execution on cancer patients are conducted. Lectures also covers basic Medical physics and its clinical applications.

For B. Sc. Nursing interactive lectures, patient care training programs, practical training in drug administration and palliative training in oncology practice is being provided.

Endowment prize has been instituted by Dr. K.S.V.K. Subba Rao, Director, JIPMER, for the best undergraduate student in Oncology in memory of his father late Sri K.S.V.Sivaram.

B. Postgraduate Courses

The first batch of two Postgraduate students for MD Radiotherapy has commenced since April 2009.

C. Other Courses

The Department imparts training for 20 obstetrics and gynecology DNB students from Sri Ramachandra medical college, Chennai for 2 weeks duration and 15 obstetrics and gynecology DNB students from Sri Indira Gandhi Government medical college, Pondicherry for 1 month duration, yearly featuring with interactive lectures, seminars and clinical bed side case discussions.

Short term certificate course for 10 B. Sc nursing students from Annai Theresa Nursing College, Pondicherry, was conducted for patient care training programs in oncology, practical training in drug administration and palliative training in oncology practice.

The department has also imparted short term training and guided in the Project works carried out by M. Sc. (Medical Physics) students from Annamalai University during March 2010, students from Bharathiyar and Bharathidhasan Universities.

CONTINUING MEDICAL EDUCATION

The Department conducted two CME.

- First CME on Colorectal cancer on 13th Sep 2009

Dr. K.S. Reddy

- attended ASTRO conference at Chicago, USA on October 2010.
- visited the Proton therapy Centre, Jacksonville, Florida university in October 2010 and there was a brief interactive session on Head & Neck cancer with faculties of Florida university.
• moderated a session for the topic “Chemo-Radiotherapy in Colorectal Cancer” at JIPMER CME Pondicherry on 13th Sep. 2009.

• moderated a session for the topic “Role of concurrent chemo-radiation in carcinoma cervix” at JIPMER CME on Gynecological Malignancies, Pondicherry, 2010.

• moderated a session for the topic “Role of radiation for primary and recurrent glioblastoma multiforma” at Chennai on 6th Feb. 2010.

Dr. S. Vivekanandam
• moderated a session for the topic “Chemotherapy in Colorectal Cancer” at JIPMER CME Pondicherry on 13th Sep. 2009.

• moderated a session for the topic “Advances in modern Radiotherapy” at JIPMER CME on Gynecological Malignancies, at Pondicherry, 2010.

• attended CANCER UPDATE 2009, CME held at ANUPURAM, CHENNAI on 19th April 2009.

Dr. Gunaseelan. K
• attended CANCER UPDATE 2009, CME held at ANUPURAM, CHENNAI on 19th April 2009.

• delivered an oral presentation on “Role of concurrent chemo-radiation in carcinoma cervix” at JIPMER CME on Gynecological Malignancies, Pondicherry, 2010.

Dr. Ashutosh Mukherji
• delivered an oral presentation on topic “A Study on Presentation and Behaviour of Colorectal Carcinoma in Young Indian Patients”; at Delhi Oncology Meet, 22nd August, 2009.

• an oral presentation on topic “Oncological Emergencies” in the CME for Nursing care in Oncology practice at JIPMER, Pondicherry on 4th April 2010.

Mr. Vijayaprabhu
• delivered a oral presentation on topic “Advances in modern Radiotherapy” at JIPMER CME on Gynecological Malignancies, Pondicherry, 2010.

• attended one day seminar on “Radiation Field Analyzer and its applications” at Apollo Chennai on 30th January.

Mr. Saravanan. K
• attended one day seminar on “Radiation Field Analyzer and its applications” at Apollo Chennai on 30th January.

• attended one day seminar on “Regulatory Requirements in Radiotherapy Facilities” at AERB, Niyamak Bhavan, Anushakthinagar, Mumbai.

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Mr. R. Seenisamy

- attended one day seminar on “Radiation Field Analyzer and its applications” at Apollo Chennai on 30th January.

CONFERENCES

Dr. K.S. Reddy


Dr. V Parthasarthy


Dr. Gunaseelan. K

- attended and displayed a Poster Presentation on topic “Breast conservation in locally advanced breast cancer after neoadjuvant chemotherapy: Regional Cancer Centre, JIPMER experience”31st annual national conference AROI CON 2009 at Hyderabad on November 26th - 29th 2009.

Dr. Shyama Prem

attended and displayed a poster presentation on topic “craniopharyngioma” in the ISO conference on September 2010.

Mr. N Vijayaprabhu

attended the XV annual conference of Association of Medical Physicists of India (AMPI) Tamilnadu and Puducherry chapter conducted by Billroth Hospitals Chennai on 19 & 20th September 2010.

Mr. Saravanan

attended and delivered an oral presentation on “TLD dose inter comparison JIPMER experience” the XV annual conference of Association of Medical Physicists of India (AMPI) Tamilnadu and Puducherry chapter conducted by Billroth Hospitals Chennai on 19 & 20th September 2010.

Mr. R. Seenisamy

attended the XV annual conference of Association of Medical Physicists of India (AMPI) Tamilnadu and Puducherry chapter conducted by Billroth Hospitals Chennai on 19 & 20th September 2010.
RESEARCH PROJECTS

Departmental Projects

Ongoing

1. Role of Breast Conservation Treatment for Locally Advanced Breast Tumor (T3) After Downstaging with Neoadjuvant Chemotherapy (With the Department of General Surgery and Pathology, JIPMER).
2. Intraluminal Brachytherapy in carcinoma esophagus: optimization in HDR dose scheduled (with the Department of General Surgery, JIPMER).
3. Role of Extra-Corporeal Irradiation for bone tumors (With the Department of Orthopaedics, JIPMER).
5. “To estimate DNA damage and repair, using comet assay, to various Radiation dose fractionation schedules in locally advanced Head and Neck cancer: Clinical and Radiobiological correlation” (with the Department of Anatomy, JIPMER).
6. “To measure degree of hearing loss in patients with squamous cell carcinomas of the head and neck region receiving cisplatin based chemotherapy” (with Department of ENT, Radio-diagnosis, JIPMER).
8. A study on advantages of using inflatable latex balloon in comparison with rectal retractors used in ring applicator during the Brachytherapy treatment of cancer Cervix.

PUBLICATIONS

A. Journals


12. Kanika S., Rathi AK, Ashutosh Mukherji, Vikash Kumar, Manoj Sharma, Singh K., Bahadur AK. Adenoid Cystic Carcinoma – A retrospective review accepted for publication in the Indian Journal of Cancer.


B. Book Chapters


PATIENT CARE SERVICES

Clinical

Out Patient Department

Department runs daily morning OPD for cancer patients. In addition, the department organizes special clinics in the afternoon for ENT, Surgery, Gynecology, pulmonary medicine and Orthopedics. There is a special palliative care clinic on Saturday forenoon.

Inpatient Care

Separate Male and Female wards for indoor care of critical case are available. The bed strength for Male ward - 12, Female ward -18, day care centre – 4, Isolation ward – 2, Intensive Care unit – 2, Single bed special ward – 12 and Double bed special ward – 10.

Cancer statistics for the year 2009 - 2010 is furnished below.

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<tr>
<th>Malignancy</th>
<th>Male</th>
<th>Female</th>
<th>Total</th>
<th>%</th>
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</thead>
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<tr>
<td>Head and Neck</td>
<td>542</td>
<td>290</td>
<td>832</td>
<td>31.99</td>
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<tr>
<td>Gynecologic</td>
<td>–</td>
<td>943</td>
<td>943</td>
<td>36.25</td>
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<tr>
<td>Breast</td>
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<td>1731</td>
<td>2601</td>
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Radiotherapy Treatment Statistics for the Year 2009 - 2010

1. High Energy Linear Accelerator (External Beam Radiation)
   Male 1998
   Female 16892
   Total 18890

2. Cobalt Theratron – 780 C (External Beam Radiation)
   Male 7909
   Female 6963
   Total 14872

3. High Dose Rate Brachytherapy (HDR) Ir.\textsuperscript{192}
   Male 34
   Female 1368
   Total 1402

Special equipments available for patient care are

1. Linear Accelerator  
   Model: CLINAC 600C (6 MV x-rays)  
   Make: Varian Medical Systems (USA)  
   Features: 6 MV Photon beam, Asymmetric jaws, Electronic Portal Vision, variable dose-rates, indexed patient couch, etc.

2. Telecobalt Unit  
   Model: Theratron 780C

3. Brachytherapy Unit  
   Model: MicroSelectron HDR

4. Simulato  
   Model: Acuity iX  
   Features: Amorphous Silicon Technology, X-ray, Flouroscopic modes, Carbon fibre table top.

5. TPS  
   ASHA 3D TPS

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr. K. S. Reddy was honored for delivering Dr. Rai Memorial oration on topic “New Technologies in Radiotherapy” at 24\textsuperscript{th} annual state conference of AROI-TN CON 2009 held at Chennai on Oct 3- 4, 2009.

Dr. Gunaseelan K received Dr. Padam Singh Memorial Award for best oral paper presentation for the topic “Extracorporeal irradiation in bone sarcomas- a pilot study” at 24\textsuperscript{th} annual state conference AROI-TN CON 2009 at Chennai on Oct 3rd. 4\textsuperscript{th} 2009.
SIGNIFICANT EVENTS IN THE DEPARTMENT

Dr. K. S. Reddy

1. DEAN of JIPMER and DIRECTOR of Regional Cancer Centre (RCC) JIPMER.
2. selected as a chairman of the following committees: the sub committee on Human ethics for Post-graduate Thesis / dissertation program; Animal ethics committee.
3. selected as vice-chairman for “Centre for Research and Academic Facilities and Training” (CRAFT) JIPMER, Pondicherry.
4. selected as a member of the following committees: Academic Counsel of Pondicherry University, Puducherry; Board of Studies of Pondicherry University, Puducherry; Board of Studies of NTR University and Health & Science, Andhra Pradesh; Academic Committee, JIPMER; Human Ethics Committee, JIPMER.
5. life member for American Society of Radiation Oncology (ASTRO), Association of Radiation Oncology Of India (AROI), Association of Medical Physicist of India (AMPI), Nuclear Medicine Association of India.
6. editor in chief for JIPMER cancer update (JCU) bulletin and have released two bulletins on colorectal cancer and gynecological malignancies and a comprehensive booklet on “Principles of Nursing Care in Oncology Practice”.
7. designated as guide for ongoing PG (MD) dissertations entitled.
   a. Study of radiation induced DNA damage in patients with oral cavity cancer on radiotherapy using comet assay on peripheral blood lymphocytes.
   b. Dosimetric comparison of tandem and ovoid versus tandem and ring applicator for HDR brachytherapy of carcinoma cervix.
8. designated as Co-guide for PG (MD) dissertations entitled.
   a. Randomized double blind placebo controlled study to evaluate the efficacy of probiotics in prevention of radiation induced diarrhoea.
   c. Influence of CYP2D6 genotype in the recurrence of breast cancer in patients receiving Tamoxifen as adjuvant therapy.

Dr. Vivekanandam. S

1. life member of Association of Radiation Oncology of India (AROI) and Association of Medical Physician of India (AMPI).
2. selected as a member of the Drug purchase committee and editorial board of JIPMER CANCER UPDATE (JCU) bulletin.
3. designated as chief Superintendent of examination, JIPMER 2010.
4. designated as Co-guide for PG (MD) dissertations entitled.
   a. Randomized study comparing Paclitaxel plus doxorubicin versus combination chemotherapy with Cyclophosphamide, doxorubicin & 5-fluorouracil as neoadjuvant treatment of patients with carcinoma breast.
   b. Dosimetric comparison of tandem and ovoid versus tandem and ring applicator for HDR brachytherapy of carcinoma cervix.

**Dr. V Parthasarthy**

1. life member of Association of Radiation Oncology of India (AROI).
2. member of editorial board for JIPMER CANCER UPDATE (JCU) bulletin.
3. designated as Co-guide for PG (MD) dissertations entitled Study of “radiation induced DNA damage in patients with oral cavity cancer on radiotherapy using comet assay on peripheral blood lymphocytes”.

**Dr. Gunaseelan.K**

1. life member of Association of Radiation Oncology of India (AROI), life member of North Zone Association of Radiation Oncology of India (NZ-AROI).
2. member of editorial board for JIPMER CANCER UPDATE (JCU) bulletin.
3. organizing secretary for the CME on Gynecological Malignancies & Nursing care in Oncology practice on 4th April 2010 held at JIPMER, Puducherry.

**Dr. Ashutosh Mukerji**

1. life member of Association of Radiation Oncology of India (AROI), life member of North Zone Association of Radiation Oncology of India (NZ-AROI).
2. member of editorial board for JIPMER CANCER UPDATE (JCU) bulletin.

**Mr. Vijayaprabhu. N**

1. life member of Association of Medical Physicist of India (AMPI).
2. member of editorial board for JIPMER CANCER UPDATE (JCU) bulletin.

**Mr. Saravanan. K**

1. life member of Association of Medical Physicist of India (AMPI).
2. member of editorial board for JIPMER CANCER UPDATE (JCU) bulletin.

**Mr. R. Seenisamy**

life member of Association of Medical Physicist of India (AMPI).
SIMULATOR TRAINING

Dr. Parthasarathy. V

Attended 5 days Training in Manipal Hospital, Bengaluru for Acuity simulator training on 20th to 25th April 2010

Mr. Vijayaprabhu. N

Attended 5 days Training in Manipal Hospital, Bengaluru for Acuity simulator training on 20th to 25th April 2010

Mr. Saravanan. K

Attended 5 days Training in Manipal Hospital, Bengaluru for Acuity simulator training on 20th to 25th April 2010.
BACKGROUND INFORMATION OF THE DEPARTMENT

The Department of Surgery is one of the core clinical departments of the hospital and has functioned since the inception of JIPMER. The department at present has 10 faculty, 16 senior residents and 24 postgraduates. The department has four Units which provide outpatient services, elective and emergency surgical services and diagnostic services.

Patient care services include General Surgical OPD on six days of the week and a cancer detection follow up clinic on every Monday. An average of 150 patients are seen per day in the OPD and about 20 admissions are made in the emergency hours. Annually about 2500 major and 6000 minor surgical procedures are performed. The range of surgical services provided by the department include cancer surgery, gastrointestinal surgery, breast and endocrine surgery, pediatric surgery and minimally invasive surgery, in addition to taking care of patients with chronic wounds. Trauma and non trauma emergencies are also managed by the department. The department has a dedicated Endoscopy program where diagnostic and therapeutic upper and lower GI endoscopies are performed on all working days.

The department lays ample stress on research and all residents work on projects under the guidance of the faculty. It has a number of publications in International and National medical journals and textbooks. More than 50 publications from the department have appeared in indexed journals over the last five years.

EDUCATIONAL COURSES

A. Undergraduate Courses

The department is involved in undergraduate teaching from the third to the ninth semesters. Teaching methodology involves lectures, bedside teaching, symposia and clerkship. The department is also involved in training students of the B Sc (Nursing stream).
For the last 15 years the department has been conducting first-aid training Programme for Undergraduates which is unique to this institution.

B. Postgraduate Courses

Eight postgraduates per year are admitted for the MS course. In addition to their work as Junior Residents in the department, PGs have a teaching programme consisting of PG seminars, clinical meetings and journal clubs.

C. Other Courses

The Department of Surgery conducts a 9 month course to train pre-hospital trauma technicians. The training programme includes lecture classes, demonstrations and on field work. This programme aims at enabling students who have passed out standard XII to be certified as trauma technicians, which is equivalent to emergency medical technicians.

CONTINUING MEDICAL EDUCATION PROGRAMS

Dr. S. Jagdish

Attended the CME programme on colorectal cancers organized by RCC, JIPMER and chaired a session. He also attended a CME on thyroid disorders organized by the department of endocrinology JIPMER and chaired a session. He was a judge for the award paper session for the Sundaram award at the Annual conference of Tamil Nadu and Pondicherry chapter of the Association of Surgeons of India held at Kanyakumari in August 2009. He conducted inspections of various institutions for the National Board of Examinations [NBE] and Medical Council of India [MCI]. He delivered a lecture on surgically correctable malformations in the newborns at the Pani memorial CME held by department of Obstetrics and Gynecology at JIPMER in November 2009. He chaired a session in the colorectal workshop organised by the Pondicherry branch of the International college of surgeons.

Dr. K Srinivasan

Attended the CME on colorectal cancers organized by RCC, JIPMER on September 13 2009 and chaired a lecture session.

Dr. Sarath Chandra Sistla

Delivered a lecture on Surgical management of Colorectal Cancers in the JIPMER Cancer update organised by the Regional Cancer Centre, JIPMER on “Colorectal Cancer” on September 13 2009.

Dr. Vikram Kate

Attended the CME -2010 organized under the auspices of Tamil Nadu & Pondicherry Chapter of A.S.I. & IMA Madurai Branch at the Madurai Medical College & Govt. Rajaji Hospital, Madurai from 5th to 7th February 2010. Dr Kate delivered a lecture on “Enterocutaneous Fistula” and participated in Case Discussions. Attended the JIPMER Cancer update organised by the Regional Cancer Centre, JIPMER on “Colorectal Cancer” on September 13 2009 and delivered a guest lecture on “Complications of colorectal cancer”. Attended a workshop as invited faculty on an overview of diagnostic and therapeutic endoscopy “G.I. SYSTEM- AN
ENDO VIEW” on 8th November 2009 organized by Department of Surgery, Medicine & Pediatrics, Aarudai Veedu Medical College & Hospital, Pondicherry and chaired a session on Therapeutic Endoscopy.

Dr. N R Vishnu Prasad

Completed 3 years of training in Gastrointestinal surgery and liver transplantation (G I surgery) from AIIMS, New Delhi, on Jan 14th 2010.

CONFERENCES

Dr. S Jagdish

- Annual conference of Tamilnadu and Pondicherry branch of Indian Association of Paediatric Surgeons held at Coimbatore in July 2009.
- Annual conference of Tamilnadu and Pondicherry chapter of association of surgeons of India Kanyakumari August 2009 Co author of a paper. “Role of pyloric exclusion in the management of giant perforated peptic ulcer”.

Dr. Vikram Kate

- Attended the International College of Surgeons conference on ano-rectal disorders held in Pondicherry on 18th and 19th July 15, 2009 as an invited faculty and chaired a guest lecture session.
- Attended the XIXth National Conference of the Indian Association of Surgical Gastroenterology held at Mumbai from 2nd to 4th October 2009 as invited faculty.
  a. Lecture on “Adhesive intestinal obstruction – what’s new in prevention and management”.
  b. participated as an expert on “Meet the Expert session” on “Upper G.I. disorders”.
  c. Presented the following papers as co author:
    i. Effect of antibiotic prophylaxis in prevention of rebleeding in patients with acute variceal hemorrhage following endoscopic therapy: a randomized controlled trial. (This was selected as the best paper of the conference in the ‘special mention – poster category” and was awarded a certificate and cash prize of Rs 2500).
    ii. Sequential therapy versus standard triple drug therapy for eradication of H pylori in patients with perforated duodenal ulcer following simple closure: a randomized controlled trial. This was presented in the award session.
    iii. Efficacy of hydrogastric sonography and spiral CT in staging of gastric carcinoma - a comparative study.
iv. Isolated full thickness jejunal necrosis following sulphuric acid cocktail ingestion.


vi. Chaired a free paper session on “Laparoscopy & Miscellaneous papers”.

- Participated in debate on “C.B.D. Stones – Endotherapy vs. Surgery” and spoke in favor of surgery. Also participated in a Panel discussion on “Gastroesophageal junction cancer” at the first annual conference of the Tamil Nadu Surgical Gastroenterology association at Chennai on 25th October 2009.

**Dr. N R Vishnu Prasad**

- Attended 19th annual conference of Indian association of surgical gastroenterology (IASG) at Mumbai from 1st Oct 2009 to 4th Oct 2009.

**Dr. Nanda Kishore Maroju**

- Attended the International College of Surgeons conference on ano-rectal disorders held in Pondicherry on 18th and 19th July 15, 2009 as invited faculty and delivered a lecture on anorectal sepsis.

**RESEARCH PROJECTS**

**Departmental Projects**

**Completed**

1. Management of vaginal hydrocele; a departmental audit. (Dr S Jagdish).

2. Effect of antibiotic prophylaxis in prevention of rebleeding in patients with acute variceal hemorrhage following endoscopic therapy: a randomized controlled trial. (Dr S Jagdish).

3. Study on the effect of topical heparin on burn wound healing. (Dr. K. Srinivasan).

4. Randomised controlled study to evaluate the efficacy of probiotics n prevention of radiation induced diarrhea.(Dr K Srinivasan).

5. Randomized study comparing paclitaxel plus adriamycin versus combination chemotherapy with cyclophosphamide,adriamycin and 5 fluoro uracil as neoadjuvant treatment of patients with carcinoma breast. (Dr Sarath Chandra S).

6. Postoperative analgesia following elective abdominal surgery- a prospective audit. (Dr Sarath Chandra S).

7. Sequential therapy versus standard triple drug therapy for eradication of H pylori in patients with perforated duodenal ulcer following simple closure: a randomized controlled trial.( Dr Vikram Kate).

8. Breast conservation surgery in locally advanced carcinoma breast following neoadjuvant chemotherapy (Dr Kadambari).

10. Results of treatment of oesophageal perforation at AIIMS. (Dr Vishnu Prasad N R).

**Ongoing**

1. Clinic-microbiological profile of septic diabetic foot with special reference to anerobic infections. (Dr. S Jagdish).

2. The role of fine needle aspiration microbiology in the management of raw areas. (Dr. S Jagdish).

3. Comparison of bone biopsy with aspiration wound swab in infected diabetic foot. (Dr. S Jagdish).

4. The role of ultrasound in predicting severity of acute pancreatitis (Dr. K Srinivasan).

5. Study of effect of Letrozole in postmenopausal estrogen receptor positive breast cancer. (Dr. K Srinivasan).

6. The role of imprint smear in H pylori detection in comparison with urease test. (Dr. Sarath Chandra S).

7. The effect of exercise on shoulder function post mastectomy (Dr. K Srinivasan).

8. Detection of Candida in perforation peritonitis and the effect of Flucanozole on its outcome. (Dr. K Srinivasan).

9. Impact of mRSA decolonization on SSI following elective general surgical operations (Dr. Sarath Chandra S).

10. Comparison between standard pressure and normal pressure pneumoperitoneum in laparoscopic cholecystectomy (Dr. Sarath Chandra S).

11. Comparison of efficacy of standard triple therapy versus quadruple therapy in the eradication of H pylori and ulcer recurrence in patients with perforated duodenal ulcer following simple closure – A randomized trial. (Dr. Vikram Kate).

12. The role of early enteral feeding in acute pancreatitis (Dr. Vikram Kate).

13. P-glycoprotein expression as a predictor of response to neoadjuvant chemotherapy in breast cancer – a prospective study. (Dr. D Kadambari).

14. Study of association between breast disease and hypothyroidism and the effect of eltroxin therapy on symptom relief. (Dr. Kadambari).

15. Study of the relationship between polymorphic variants of the CYP1A1 gene and efficacy of aromatase inhibitor letrozole advanced breast cancer. (Dr. D Kadambari).
PUBLICATIONS

Journals


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B. Book Chapters


AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr S. Jagdish

1. Dr. S. Jagdish conducted inspections on behalf of National Board of Examinations and MCI.

2. Dr. S. Jagdish was External Examiner for postgraduate examinations of NTR university and SRMC and Delhi University.

3. Dr. S. Jagdish professor and head was invited by the editorial Board of the Indian Journal of surgery for peer review of the articles submitted to the journal for publication.

4. Dr. S. Jagdish was invited by the Department of Surgery, Raja Sir Muthaih Medical College, Annamalai University, Chidambaram to conduct a prize exam for final year postgraduates followed by interaction with the students.

Dr. Vikram Kate

1. Dr. Vikram Kate is appointed to the Panel of Examiners for the Intercollegiate MRCS Examination by the Royal College of Surgeons of Edinburgh, UK.

2. Dr. Vikram Kate, Professor of Surgery was awarded the “Dr. N. Sethuraman Oration - 2009” by the Association of Surgeons of India, Madurai branch.
3. Dr. Vikram Kate was elected the Vice-President of the JIPMER Scientific Society for the year 2009-2010.


Dr. Vishnu Prasad N R

Dr. Vishnu Prasad N R received travel bursary award to attend the 19th National conference of IASG at Mumbai, in Oct 2009.

Best Paper Award for “Effect of antibiotic prophylaxis in prevention of rebleeding in patients with acute variceal hemorrhage following endoscopic therapy: a randomized controlled trial” by Agarwal A, Jagdish S, Vikram Kate, at the XIXth National Conference of the Indian Association of Surgical Gastroenterology held at Mumbai from 2nd to 4th October 2009.

Dr. C.S. Subramaniam, Professor and Head Dept of Surgery Raja Sir Muthiah Medical College Annamalai University Chidambaram, selected JIPMER as the Institution for carrying out the traveling visiting professorship allotted to him by the Tamil Nadu and Pondicherry branch of the Association of Surgeons of India. He spent one day in the dept taking teaching sessions for PGs.
# 8.36 Surgical Gastroenterology

<table>
<thead>
<tr>
<th>Additional Professor &amp; In-charge</th>
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<tr>
<td>Vikram Kate</td>
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<th>Additional Professor</th>
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<td>Vishnu Prasad</td>
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<th>Assistant Professor</th>
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<td>Ranjit Hari</td>
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## BACKGROUND INFORMATION OF THE DEPARTMENT

The department of Surgical Gastroenterology was started in March 2010, with joining of new assistant professors and with Professor Vikram Kate taking over as Head, Department of Surgical Gastroenterology. Dr Alwin Gunaraj and Dr Senthil.G joined as Senior Residents in the department of Surgical Gastroenterology.

## EDUCATIONAL COURSES

Planning to start MCh (Surgical Gastroenterology) course in next academic year.

## PATIENT CARE SERVICES

1. 10 elective cases operated.
2. 2 emergency cases operated.
3. 30 patients treated as in patients.
4. 30 Upper GI endoscopies done.
5. 8 colonoscopies done.

## AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Prof. Vikram Kate has published an article on Enterocutaneous fistula on the prestigious medical website of eMedicine of WebMD, Omaha U.S.A. as an invited author. Cited as Kate V. Enterocutaneous Fistula. eMedicine from WebMD. Updated June 1, 2010. Available at: [http://emedicine.medscape.com/article/1372132-overview](http://emedicine.medscape.com/article/1372132-overview).

## SIGNIFICANT EVENTS IN THE DEPARTMENT

Starting of OT, endoscopy, IP and OPD services.
BACKGROUND INFORMATION OF THE DEPARTMENT

The Department of Surgical Oncology currently functions in the Superspecialty Block of JIPMER. Assistant Professor of Surgical Oncology joined on 26.03.2010 and was running Surgical Oncology services while posted in Surgery IV unit. From 10.05.2010, the Department started functioning in the Superspecialty Block with a bed strength of six. The Department has one operating table every week since 13.05.2010, and 2 ICU beds to manage post op and critically ill patients.

CONTINUING MEDICAL EDUCATION PROGRAMS

Prof. K. Srinivasan

- Prof. K. Srinivasan, Professor of Surgery, faculty-in-charge, Department of Surgical Oncology chaired a session in the Colorectal Cancer CME organized by the Regional cancer Center, JIPMER on 12.09.2009.

- Dr.R.Aravind, Assistant Professor of Surgical Oncology participated in the Colorectal Cancer CME organized by the Regional Cancer Center, JIPMER on 13.09.2009 and delivered a talk on Screening, Diagnosis and Staging of Colorectal Cancer.

- Dr.R.Aravind, Assistant professor of Surgical Oncology participated in the Gynecological Cancer CME organized by the Regional Cancer Center, JIPMER on 04.04.2010 and delivered a talk on surgical management of epithelial ovarian cancer.

RESEARCH PROJECTS

Occurrence of Second Primary Tumors(SPT) in Oral/oropharyngeal cancer.

PATIENT CARE SERVICES

OPD functions in the Superspecialty block every Monday and Wednesday.

Surgical Oncology services are offered every week in the Tumor Clinics as follows

- Monday – Department of Surgery.
- Tuesday – Department of ENT.
- Wednesday – Department of Obstetrics and Gynaecology.

The Department has facilities to admit 3 male and 3 female patients and 2 beds in the ICU.
Between 26.03.2009 and 5.05.2010, Assistant professor of Surgical Oncology was posted in Surgery Unit 4 and performed 62 major operations.

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<thead>
<tr>
<th>Month</th>
<th>Major operations</th>
<th>Minor Operations</th>
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<tr>
<td>May 2010</td>
<td>3</td>
<td>1</td>
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<tr>
<td>June 2010</td>
<td>4</td>
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<td>July 2010</td>
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**SIGNIFICANT EVENTS IN THE DEPARTMENT**

An Electrosurgical Unit costing Rs. 4.68 lakhs was purchased and installed in May 2010.

Dr. M. Sivakumar and Dr. Neville were recruited as Senior Residents in Department of Surgical Oncology out of a total of 6 posts, since October 2010.
BACKGROUND INFORMATION OF THE DEPARTMENT

The Urology Department was started in 1979 and was the first Urology Department to be established in any institution covered under the Central Health Service. Subsequently a M.Ch. (Urology) Super Speciality Degree Course was started in 1987. This was the first Super Speciality Degree Course started at JIPMER, Pondicherry and the first Urology Super Speciality course to be established in any institution covered under the Central Health Service. Over the last 3 decades the department has slowly expanded its range of services by adding paediatric endoscopy, video urodynamics, ultrasound guided urological interventions, upper tract endourology including PCNL and ureteroscopy, extracorporeal shock wave lithotripsy for non-surgical renal stone treatment and urological laparoscopy. This is the only institution in Pondicherry with a state of the art urodynamics laboratory. In March 2009 the department was relocated in the ultra modern super speciality block with a capacity for 2 major and one uroendoscopy operation theatre every day.

EDUCATIONAL COURSES

A. Undergraduate Courses

- Lecture classes are taken for the students of M.B.B.S. course.
- Lecture classes are taken for the students of B.Sc. (nursing) course.
- Classes are taken for the students of B.M.R.Sc. course.

B. Postgraduate Courses

- Training is imparted for students of the M.S. (General Surgery) course.

C. Higher Speciality Courses

- M.Ch. (Urology) Course.
CONTINUING MEDICAL EDUCATION PROGRAMS

Dr. Santosh Kumar

- Resource person in IIIrd year PG Orientation Programme on Research Methodology, April 27, 28, 29 and 30, 2009, JIPMER, Puducherry.
- Resource person in the 59th National Course on Educational Science for Teachers of Health Professionals, September 9 to 19, 2009, JIPMER, Puducherry.
- Resource person in the 60th National Course on Educational Science for Teachers of Health Professionals, February 17 to 27, 2010, JIPMER, Puducherry.

Dr. L.N. Dorairajan

- Attended as invited faculty the “Manuscript Reviewing Workshop” conducted by the Indian Journal of Urology under the aegis of Urological Society of India at Christian Medical College Vellore between 23rd and 24th October 2009 and delivered a lecture on “How to assess the quality of a manuscript?” and conducted a session on “Report writing exercise”.

CONFERENCES

Dr. L.N. Dorairajan


Dr. R. Manikandan


RESEARCH PROJECTS

Departmental Projects

Ongoing

1. Randomised clinical trial comparing intracorpus spongiosum block versus topical anesthesia for performing internal urethrotomy in urethral strictures.

2. Comparison of the effect of tamsulosin versus combination of tamsulosin and oxybutynin in the medical management of patients with benign prostatic hyperplasia: A randomised double blind placebo controlled study.

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3. Comparison of the effect of pre-operatively administered finasteride and dutasteride on TURP complications: A placebo controlled randomized trial.

**PUBLICATIONS**

**Journals**


**PATIENT CARE SERVICES**

A. Clinical

1. OPD Services.

2. In patient urological care (both adult and paediatric).

3. Open operations.


5. Laparoscopic ablative and reconstructive procedures.


7. Outpatient urological surgery and endoscopy.

8. Image guided urological interventions.

B. Laboratory

1. Urodynamic studies.

**AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS**

1. Dr. Santosh Kumar was the Head of the Department of Medical Education, JIPMER.

2. Dr. Santosh Kumar was the Editor of NTTC Bulletin and the Editorial Board Member of JIPMER News.

3. Dr. L.N. Dorairajan was awarded the Chakroborty Fellowship for the year 2009 by the Indian American Urological Association (IAUA) and visited the Departments of Urology at the Wake Forest University School of Medicine, Winston-Salem, North Carolina, USA and the Stanford University School of Medicine, Palo Alto, California, USA for 6 weeks and one month respectively for training in Robotic and Minimally Invasive Urological Surgery.
4. Dr. L.N. Dorairajan continued to work as a Member of the Editorial Committee of the Indian Journal of Urology.

5. The poster “Minimal invasive management of grade 4 renal injury -is it a viable option.” (Authors: Jamal A, Dorairajan LN, Kumar S, Manikandan R, Srinivasrao P.) was awarded the “Vijayawada Best Poster” III prize at the Annual Conference of the Urological Society of India- USICON 2010 at Agra in February 2010.

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. Santosh Kumar
1. Member Secretary of JIPMER Scientific Advisory Committee.
2. Member of JIPMER Ethics Committee (Human Studies).
3. Member of Hospital Stores Articles Purchase Committee.
4. Member of Postgraduate Training Committee.
5. Member of OT Efficiency Monitoring Committee.

Dr. L.N. Dorairajan
1. Member of the Sutures and Disinfectant Monitoring Committee.
2. Member of the Core Committee for the implementation of RNTCP.
3. Vice President of JIPMER Officers Club.

SIGNIFICANT EVENTS IN THE DEPARTMENT
1. Super speciality block fully commissioned with independent exclusive OTs for Urology.
2. Extracorporeal Shock Wave Lithotripsy facility commissioned.
3. Operative laparoscopic reconstructive urological service started.
4. Prof. Pranjal Modi, Professor of Urology, Institute of Kidney Diseases and Research Centre, Ahmadabad, visited the Department as Visiting Professor from 29.03.2010 to 01.04.2010. He delivered a lecture in the JIPMER Scientific Society on "The Establishment of Renal Transplantation Programme". He interacted with faculty of Urology and Nephrology Departments. He demonstrated several laparoscopic ablative and reconstructive procedures during his visit.
BACKGROUND INFORMATION OF THE DEPARTMENT

It was in 1975, the Institute invited discussions in various apex forums for establishing the discipline of Biostatistics by creating an independent Department of Medical Biometrics. The 15th Institute Advisory Committee meeting held in March, 1975 had recommended pooling all the Statisticians in the institute and bringing them under one unit as an independent Department with Professor of Biometrics as the Head. The committee also recommended creating one post of Professor of Biometrics in lieu of the six vacant posts of Professors out of the 12 approved for the nonclinical Departments. Subsequently, in the year 1987, a faculty in the discipline had joined as Associate Professor of Biometrics and was temporarily placed in the Department of Preventive & Social Medicine till an independent Division of Biometrics became functional in the year 2001. Since the very inception in March 1987, the Division of Biometrics had been actively involved in teaching ‘Biostatistics & Demography’ to all the Undergraduates and ‘Biostatistics & Research Methodology’ to Post Graduate medical & paramedical students. Also, throughout the period, regular consultations and guidance were provided to the Postgraduate students, PhD scholars, Faculty and staff in various academic Departments of the Institute for designing their research protocols & projects, analyzing the data and interpreting the results. Recently the Division got further strength with joining of an additional faculty in Biostatistics & Demography.

EDUCATIONAL COURSES

Though the Department of Medical Biometrics is well recognized as a Resource Centre for Research Methodology and Biostatistics, structured courses in Biostatistics have yet to be started. The Standing Academic Committee (SAC) of institute in its first meeting held in July 2009, approved in principle to initiate Post Graduate courses in Medical Biometrics (Biostatistics) at the earliest after establishing a full fledged independent Department for Medical Biometrics & Informatics, equipped with adequate faculty strength, support staff, infrastructure and facilities including statistical packages. In view of the SAC’s approval, necessary actions have already been initiated by the institute to establish a full fledged Department during the year 2010 itself.

The faculty in the Department is undertaking entire teaching in Biostatistics and Demography for MBBS, Biostatistics for B.Sc (MLT) and Research Methodology and Biostatistics for Post Graduate Medical students. In addition to the routine teaching schedule, the Department is also providing lectures on Biostatistics to B.Sc Nursing students and the MRO/MRT trainees.
CONTINUING MEDICAL EDUCATION PROGRAMS

The Department is actively involved as core faculty through the Department of Medical Education in conduct of Orientation programmes/workshops on ‘Research, Ethics and Communication skills’ for 1st year medical postgraduates during the month of July for preparation of thesis protocols and workshop on ‘Research Methodology focused on data analysis and thesis writing’ for 3rd year Postgraduates during the month of April, every year.

In near future, soon after the establishment of the Department, it is proposed to conduct regular training programmes, seminars & workshops on ‘Research Methodology and Biostatistics’ for medical Postgraduates, PhD Scholars, Junior/senior Faculty of the Institute and also to hold periodic regional & national level workshops and seminars on topics of current interest.

CONFERENCES

Dr. Ajit Sahai

Have attended a number of national & international conferences/ workshops/ seminars and academic meetings and have chaired more than 75 sessions on topics of current research interests.

- Was invited to act as a resource person and to attend the 27th Annual National Conference of Indian Society for Medical Statistics (ISMS) held at Banaras Hindu University (BHU), Varanasi, during 26th to 29th November 2009. Also, attended the Executive Committee meeting being ex-officio member in the capacity as past President of ISMS. Had chaired a session on “Role of Probability Distributions in Medical Research” in the Pre-conference workshop.

- Was invited as a resource person and represented JIPMER in the ‘National Health Information Collaboration Workshop for Collaborating Partner Institutions’ organized by Indian Council of Medical Research and Word Health Organisation at National Institute of Health and Family Welfare (NIHFW), New Delhi on 17th December 2009.

- Was invited as a resource faculty to conduct “Seminar on Biostatistics” along with other eminent faculty in Biostatistics during “International Indian Statistical Association Joint Meeting” at Visakhapatnam, Andhra Pradesh, from 4th to 8th, January, 2010.

- Attended East Asia Regional Biometric Conference and X Biennial Conference of International Biometric Society, India Region (IBS-IR) conference held at Manipal University, Manipal during 11th to 13th February 2010 as a resource person and also being an executive committee member and chaired sessions on “Statistical Modeling and Applications” and “Bayesian Statistics & Data Mining Techniques”.

- Was invited as a resource person to chair a session in 37th National Conference of Indian Association of Social & Preventive medicine (IAPSM) held at Ranjendra Institute of Medical Sciences, Ranchi during 22nd to 24th February 2010 and also to attend the Governing Body meeting as its Executive member.
K.T.Harichandrakumar

- Attended the National Conference on Recent Trends in Statistics at Nehru Arts & Science College, Kanhangad, Kerala and presented a paper entitled as Methodology to Estimate the National Burden of Diseases using Disability Adjusted Life Years (DALY) during February 12-14, 2009.

RESEARCH PROJECTS

Dr. Ajit Sahai


2. Co-investigator in the Research Project entitled as “Effect of yoga therapy on autonomic function and biochemical profile of patients of essential hypertension”, (Ongoing-2009-2010, in collaboration with nodal Department of Physiology).

K.T.Harichandrakumar

1. Co-investigator in the Research Project entitled as “Assessment of Health Related Quality of Life in Patients with Lymphatic Filariasis and the impact of intervention measures using disease specific instrument (LF-QoL)” funded by Indian Council of Medical Research (ICMR), New Delhi, (Completed – 2009).

PUBLICATIONS

A. Journals


B. Book

1. Ajit Sahai co-authored the Booklet “The elements of research, writing and editing”. Department of Urology, JIPMER, Pondicherry, 1994.


AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr. Ajit Sahai

1. Had been privileged to have the honor of being the President of Indian Society for Medical Statistics (ISMS); and its Executive Committee member for the past 9 years (2002-2010); serving in various capacities including being President-Elect (2005-06).
2. Founder President of “Spirituality and Health Academy of India” (2001-10).

3. In recognition of national level outstanding contributions not only to own specialty of Medical Statistics but also to the disciplines of Epidemiology, Public Health and Preventive and Social Medicine, had been elected and honored as Fellow of IPHA, IAPSM and ISMS.

4. Founder President of the Pondicherry State (local) branch of Indian Public Health Association (IPHA) (2002-2007) and an ex-officio Executive Member of the National Central Council of IPHA 2002 onwards.

5. General-Secretary of the Pondicherry State branch of Indian Association of Preventive & Social Medicine (IAPSM)–2002-06 and an Executive Member of the National Governing Council of IAPSM – 2003-04, was re-elected - 2004-05; 2009-10; 2010-11.

6. Had the honor of being invited as the ‘Guest Faculty’ as well ‘Visiting Professor’ by a number of Institutions/Universities & National Academic Associations & Societies.

7. Had undertaken several research projects including research in Health Systems as the Principal Investigator to a W.H.O. funded research project on Community Health Centers (1992-98).

8. Also was the Chief Investigator for an important study on Impact evaluation of implementation of ICDS Programme, which was sponsored by the CTC-ICDS, Department of WCD, Ministry of HRD; Government of India (1994-99).

9. Had earned the fellowship award on “Programme Planning and Evaluation” at Australian Centre for International & Tropical Health and Nutrition (ACITHN); Brisbane, Australia (1996-97).


ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. Ajit Sahai

Had have always been taking keen interest in a number of additional administrative responsibilities assigned at frequent time-intervals. These assignments included confidential tasks like conducting entrance examinations; selections; maintaining liaisons with senior administrative officers; in depth involvement in severe & sensitive disciplinary decision making and related follow-up action tasks and reports.

1. Currently charged with additional responsibilities, such as;

   a. Faculty (Administration)

      Have been coordinating and overseeing entire administrative activities of the institute as Head of Office, especially dealing with the policy issues, recruitments, promotions, correspondence with the ministries and premier institutions and helping head of the institution in organization and smooth conduct of various institute level decision making meetings of apex Committees; such as; IB, GB, SFC, SSC, SAC etc.

   b. Faculty-in-charge ‘Administrative Information System’ since inception 1998;

   c. Vice-Chairman AIS Advisory Committee;

   d. Member CRAFT Advisory Committee and Telemedicine Committee.

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e. **Faculty-in-charge** of Central Library, w.e.f. 01-08-2004.

Had initiated a series of innovative measures in various sections of the Library and have been making all out efforts to modernize the Library infrastructure by introducing automation and enhancing the facilities like e-journals and Internet.

2. In recent past was frequently deputed to the Ministry of Health and Family Welfare, New Delhi, as Officer on Special Duty (OSD) for preparation of “Oversight Committee - Report” for the ‘Medical Group’ of Central Medical and Health Institutions dealing with enhancements in seats (to accommodate OBC students), in collaboration with Ministry of HRD and Planning Commission, involving huge budgetary allocations for various Medical, Dentistry and Nursing Colleges/courses and also helped AYUSH institutions in their endeavour.

3. In recent past, after JIPMER gained the status of an autonomous institution of national importance, was deputed along with a team of faculty & staff to take a lead in studying the academic & administrative setup of AIIMS; New Delhi. Continued with follow-up visits to academic and administrative wings/sections to have an update, till recently.

4. Have had organized national conference of Indian Society for Medical Statistics (ISMS) at JIPMER in January 2005 with participation of more than 300 national & international delegates. In addition to a series of Seminars and Symposia on special topics of current interest, four preconference workshops were conducted.

5. Have also been helping to other Departments in organization of national and international conferences and played a key role as a host during the visits of Central Ministers and other VIPs; Parliamentary Committees/ Academic teams on official visits and even led the committees for annual cultural programmes & events like “Spandan” or other institute level functions and mega events like institute ‘Convocation’ observing strict protocols.

6. Have had been an official member of various (25) national level decision making and research committees; to name a few, such as,


   c. Scientific Advisory Committee (SAC) of National Institute of Nutrition (NIN), ICMR, Hyderabad.

   d. Indian Council of Medical Research (ICMR), New Delhi, The Task Force Groups on; “Strategies for Cause Specific Mortality”, and on “multi-centric research - Clinical Trials on Hepatitis B & C”.

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7. Currently a member of;
   b. Scientific Advisory Committee (SAC) of JIPMER.
   c. Scientific Advisory Committee (SAC) of Council for Research in Sidha.
8. Had have been serving as Editorial Consultant and Reviewer for Bulletins of various academic societies such as; IJMR, ISMS, IJCM & IJPH etc.
9. Was on the Editorial Board, as professional advisor in the subject, to some of the Indian Journals published through JIPMER; such as,
   a. Indian journal of Urology (of USI);
   b. Indian Journal of Pharmacology (of IPS);
   c. Biomedicine – an International Journal of Biomedical Sciences (of IABMS);
   d. Indian journal of Dermatology, Venereology and Leprology (IJDVL);
10. Was Examiner for valuation of Theses & Defense-Viva-Voce for eleven (11) PhD candidates; current year – 2009-2010, listed hereunder;
   a. In Biostatistics: University College of Medical Sciences (UCMS), University of Delhi.
      (Thesis Title: Generalised Linear Modes for Correlated Ordinal Reponses Related to Paired Organs and Their Application to Ophthalmology Data).
   b. In Computer Sciences: Mother Teresa Women’s University, Kodaikkanal.
      (Thesis Title: Fussy Based Data Mining for Effective Decision Support in Bo-Medical Applications).
11. Was invited as Examiner to conduct practical and viva-voce for M.Sc. Biostatistics final year and II semester students, December 24-26, 2009, Lucknow University, Lucknow.
12. Was nominated in the panel of subject experts/invited for various selection committees for recruitment of faculty and research personnel at institutions of national repute.
13. Had been formally associated as Co-guide for more than Sixty (60) Theses, Dissertations and served the Faculty-Core-Group throughout, for lecture-series in Biostatistics and also for the Orientation Programmes on ‘Research, Ethics and Communication skills’ for 1st year and ‘Research Methodology’ for the 3rd year Medical Postgraduates.
14. Did entire planning and report writing for five rounds of UIP annual coverage, antenatal care, KAP levels of mothers and lameness surveys and led evaluation teams (1988-92), in Karaikal, Mahe, Yanam & Pondicherry regions.

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16. With background of serving an important National Programme for maternal and child health and nutrition – ‘Integrated Child Development Services (ICDS)’ for about six years, leading its Division of national level Programme monitoring, evaluation, research and training & continuing education through AIIMS, New Delhi (1981-87);

a. Had been helping coordination and conduction of several training and reorientation courses for Medical Officers and other Health & Social Welfare functionaries, organized periodically in this institute for certain national programmes of the Union Ministry of Health and Family Welfare like MCH – RCH – UIP - IPPI & ICDS, HIV & AIDS and IDSP.

b. Coordinated and Conducted a variety of workshops for the Post-graduates and the Faculty staff - on “research methodology”; “epidemiological & statistical methods”; “clinical-trials”; “designs-sampling & analysis”; “research writing & editing”, “critical review of Journal articles”, “Survival Analysis” and “Concepts and Skills in Teaching Epidemiology and Medical Biostatistics”.

c. Had have been invited to act as Guest Faculty and a resource person to coordinate teaching in ‘Biostatistics and Research Methodology’ and organize workshops on ‘critical review of Dental Journal articles’ for Postgraduates of MGPGIDS, U. T. Government of Pondicherry, (1999-2010).

K.T.Harichandrakumar

1. In addition to the routine teaching MBBS and B.Sc (MLT), taken lectures on Biostatistics for final year B.Sc Nursing students.

2. Member of the Core-Group for the Orientation Programme on ‘Research, Ethics and Communication skills’ for 1st year Postgraduate Residents.

3. Member of the Core-Group for the Orientation Programme on ‘Research Methodology’ for the 3rd year Postgraduate Residents.

4. Provided Statistical guidance for data analysis and interpretation of results to a number of final year postgraduate students in various Departments apart from giving advice an guidance to various research projects undertaken by faculties in pre, para and clinical departments of the Institute.

5. The brief professional interactions with first year Post Graduate students through the Orientation programme has attracted them to seek statistical guidance for writing their Protocols, estimating the Sample size and for the contents of the Methodology by 63 postgraduates; Dermatology(6), Medicine(3), Microbiology(3), Obstetrics & Gynaecology(7), Ophthalmology(4), Pharmacology(1), Pulmonary Medicine(1), Radio-diagnosis(1), Surgery(5), Radiotherapy(2), Physiology(3), Biochemistry(12), Anesthesiology(2), Pediatrics(4), Pathology(2), Anatomy(3) and Orthopedics(4).
BACKGROUND INFORMATION OF THE DEPARTMENT
The division of clinical immunology has been functioning since July 2004 at JIPMER. It is providing OPD/IPD/ diagnostic and research laboratory facilities in the field of clinical immunology. There is a huge demand for these services all over India as 10–20 % of our population suffers from Immunological diseases. Ours is the only centre in south India which provides such comprehensive patient care and research facilities. Many patients with these disorders are referred to the JIPMER not only from Puducherry, but also from neighboring states, for diagnosis and management. The division has well trained faculty and requisite diagnostic and therapeutic facilities to take care of a large patient load. In addition, the division has state of the art research facilities with substantial international (INSERM, France) and national extramural research funding exceeding Rs. 2.27 crore. From the current academic year (2009 – 10), two postdoctoral teaching and training programs, DM (Clinical Immunology) and PhD (Immunology) have been started in the speciality. We are now in the process of establishing facilities for stem cell transplantation (SCT) and immunotherapy for allergic, autoimmune and malignant disorders. With the establishment of these services, JIPMER will be the only centre in India to offer immunotherapy for autoimmune diseases and malignancies.

EDUCATIONAL COURSES
A. Higher Speciality Courses
• DM (Clinical Immunology) since academic year 2009. Intake one student per year (JIPMER is one of the only two institutions in India which offer DM in this advanced branch of Medicine).

B. Research Courses
• PhD (Immunology) since academic year 2009. Intake two students per year.

C. Other Courses
• To promote interdisciplinary research and integrate basic biological sciences with medical sciences, the division offers 3 months to 6 months training in the field of Immunology and Molecular Biology to students pursuing M Sc / M Tech courses.

CONTINUING MEDICAL EDUCATION PROGRAMS
Guest lectures
• Talk on “Early therapy in Rheumatoid Arthritis” at the annual CHANRE Clinical Immunology Symposium 22nd August, 2009, Bangalore.

CONFERENCE

Dr. V S Negi

  a. Delivered a guest lecture on, “Stem cell transplantation in autoimmune disorders”.
  b. Chaired a scientific session on “Biological Therapies in Rheumatoid Arthritis”.
  c. Presented research paper titled, “The inducible nitric oxide synthase (NOS2) gene promoter polymorphism in Rheumatoid Arthritis patients in Tamil Nadu, South India” in the form of a Poster.
  e. Presented research paper titled, “Lack of association of Tumour Necrosis Factor – Alpha (TNF-α) promoter polymorphism in Systemic Lupus Erythematosus patients of South Indian Tamil ethnic population” in the form of a Poster.

Dr. Prasanta Padhan


RESEARCH PROJECTS

A. Funded Projects

Completed

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of the Project</th>
<th>Funding agency</th>
<th>Amount Sanctioned (in lacs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>I.</td>
<td>Funding From National Agencies</td>
<td>DST</td>
<td>45.00</td>
</tr>
<tr>
<td>1</td>
<td>Establishment of Clinical Immunology Research Laboratory</td>
<td>DST</td>
<td>45.00</td>
</tr>
<tr>
<td>II.</td>
<td>International Collaboration (Indo – French)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>Studies on T-cell receptor VB repertoire in autoimmune rheumatic disorders;</td>
<td>ICMR– INSERM</td>
<td>23.53</td>
</tr>
<tr>
<td></td>
<td>correlation with HLA profile</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Immuno-genetic studies in autoimmune diseases</td>
<td>CPSTIO (DST)</td>
<td>4.79</td>
</tr>
<tr>
<td></td>
<td>TOTAL</td>
<td></td>
<td>73.32</td>
</tr>
</tbody>
</table>

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**Ongoing**

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of the Project</th>
<th>Funding agency</th>
<th>Amount Sanctioned (in lacs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>I.</td>
<td>International Collaboration (Indo – French)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>NK cell response diversity and cytokine/ transcription factor profiles in SLE and RA South Indian Patients</td>
<td>ICMR-INSERM</td>
<td>57.72</td>
</tr>
<tr>
<td>II.</td>
<td>Funding From National Agencies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>Lupus Nephritis: Studies on immunogenetic profile of patients from South India</td>
<td>DST</td>
<td>33.00</td>
</tr>
<tr>
<td>2.</td>
<td>Immunological studies in Rheumatoid Arthritis treated with Homeopathic drugs</td>
<td>CCRH</td>
<td>28.00</td>
</tr>
<tr>
<td>3.</td>
<td>Immunological studies on Pollen Allergy</td>
<td>UGC</td>
<td>12.00</td>
</tr>
<tr>
<td>4.</td>
<td>Modulation of cytokine profile by homeopathic drugs in RA: in-vitro studies</td>
<td>CCRH</td>
<td>23.00</td>
</tr>
</tbody>
</table>

**TOTAL** = 153.72

Total Research Grants generated by the division till March 2010: Rs. 227.04 lacs

PhD Scholar enrolled: 2

Research personnel employed under the research projects: 6

1. Senior Research Fellow (SRF): 3
2. Laboratory technician: 2
3. Laboratory attendant: 1

**B. Departmental Projects**

1. Completed: 1
2. Ongoing: 2

**C. Collaborative Projects**

1. Completed: 2
2. Ongoing: 3

**PUBLICATIONS**

**Journals**


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PATIENT CARE SERVICES

A. Clinical

At present, the ‘Division of Clinical Immunology’ and its ‘Clinical Immunology Laboratory’ offer a large number of patient care services. The immunodiagnostic services include advance immunological (Immunoflorescence, ELISA, RIA, Nephelometry, Immunoblotting) and molecular (PCR- HLA B27, DR-DQ) tests for early and specific diagnosis of autoimmune diseases and Skin Prick Test (SPT) for allergic respiratory disorders. The treatment facilities offered include latest therapeutic modalities like immunomodulator / immunosuppressive and biological response modifier therapy for autoimmune disorders, joint and soft tissue injections for inflammatory arthritis and soft tissue rheumatism and allergen specific immunotherapy in the form of sublingual immunotherapy (SLIT) for bronchial asthma and allergic rhinitis. The facility created is utilized by all the general and super specialty departments of the Institute. We are now in the process of establishing stem cell therapy as a part of regenerative medicine and tumor immunotherapy facilities at JIPMER and hope to offer these services to the needy patients soon.

B. Laboratory

We perform a large number of immunological and molecular tests related to patient diagnostics and research activities. In addition, we perform therapeutic procedures for patient management. The number of the tests and procedures performed (diagnostic + therapeutic + research) has increased exponentially in a short span of three years. The total number of diagnostic tests and therapeutic procedures performed in the year 2009 – 2010 was 11,037. In addition, 6,559 research investigations were also performed which are likely to be helpful in establishing newer patient care facilities in near future.

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of the Test / Procedure</th>
<th>Numbers performed 2009-2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>I.</td>
<td>Diagnostic Services</td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>ELISA</td>
<td>2,133</td>
</tr>
<tr>
<td>2.</td>
<td>Indirect Immunoflorescence (IIF)</td>
<td>1,105</td>
</tr>
<tr>
<td>3.</td>
<td>Nephelometry</td>
<td>3,530</td>
</tr>
<tr>
<td>4.</td>
<td>Immunoblot</td>
<td>2,730</td>
</tr>
<tr>
<td>5.</td>
<td>HLA typing by PCR (HLA B27, HLA DR, HLA DQ)</td>
<td>366</td>
</tr>
<tr>
<td>6.</td>
<td>Allergy test (SPT)</td>
<td>155</td>
</tr>
<tr>
<td>7.</td>
<td>Joint aspirations</td>
<td>207</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>10,226</td>
</tr>
</tbody>
</table>

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II. Therapeutic procedures

1. Immunotherapy (SLIT) 15
2. Intra-articular injections 796
   Total 811
3. Total I + II 11,037

Research investigations

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of the Test / Procedure</th>
<th>Numbers performed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>2009-2010</td>
</tr>
<tr>
<td>I.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>Cytokine estimation</td>
<td>1,145</td>
</tr>
<tr>
<td>2.</td>
<td>Genotyping</td>
<td>5,295</td>
</tr>
<tr>
<td>3.</td>
<td>Spectra-typing</td>
<td>114</td>
</tr>
<tr>
<td>4.</td>
<td>Stem cell culture</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>6,559</td>
</tr>
</tbody>
</table>

Total patient care and research investigations/procedures (A + B) 17,596

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

1. Dr. D Panneer, PhD scholar received the BEST PAPER AWARD for the research paper titled “Association of DNAse I Gene +2373 A’!G mutation in SLE and lupus nephritis among south Indian Tamil population” at the annual conference of the Indian Rheumatology Association (IRACON), November 27-29, 2009 at Jaipur.

2. Ms. M Christina Mary, PhD scholar received the BEST POSTER AWARD for the research paper titled “The inducible nitric oxide synthase (NOS2) gene promoter polymorphism in rheumatoid arthritis patients in Tamil Nadu, south India” at the Annual Conference of the Indian Rheumatology Association (IRACON), November 27-29, 2009 at Jaipur.

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. VS Negi

1. MCI inspector for DM (Rheumatology) course.
2. Technical expert for selecting medical equipment for Ministry of Health and Family Welfare under PMSSY scheme of the Govt. of India.
3. Pondicherry University nominee for selection of Faculty for the Indira Gandhi Govt. Medical College, Puducherry.
4. Head of the division of Clinical Immunology. Responsible for establishment of dedicated patient care services, research facilities and DM and PhD teaching / training programs in the speciality.
5. Member, Institute Core Committee on Renal Transplantation.
6. Member, Advisory committee for establishing Multidisciplinary Advanced Research Center (MARC).
7. Member, research projects monitoring committee.
8. Member, PhD program implementation and monitoring committee.

SIGNIFICANT EVENTS IN THE DEPARTMENT

A. Upgradation of Educational Facilities:
   1. Commencement of DM (Clinical Immunology) program.
   2. Commencement of PhD (Clinical Immunology) program.

B. Establishment of New Patient Care Facilities:
   Diagnostic: Establishment of HLA typing facilities.
   Therapeutic: Establishment of sublingual immunotherapy for patients with allergic respiratory disorders.

C. Establishment of New Research Facilities: Establishment of stem cell culture facilities (for use in stem cell transplantation program).

D. Visiting Professors:

I. Visit of Foreign Faculty
   1. DST - CPSTIO collaborative research program between Govt. of India and France:
      Dr. Srini V Kaveri, Director, INSERM - U 872 Centre de Recherche des Cordeliers, 15, Rue de l’Ecole de Médecine 75006 PARIS, France visited the division of Clinical Immunology from July 6-Aug 4, 2009. He helped to establish basic immunological diagnostic and research facilities for immunological disorders.

   2. ICMR-INSERM collaborative research program between Govt. of India and France:
      a. Dr. Ryad Tamouza, AP HP and Director of Research, INSERM U396 (U 662) Centre Hayem, Institut d’Hématologie, Hôpital Saint Louis, 1 Av. Claude Vellefaux, PARIS, FRANCE.
      b. Helene Moins Teope AP HP INSERM, PARIS, FRANCE.
      c. Dr. Krishnamoorthy Rajagopalan DR1, INSERM, PARIS, FRANCE.
      They visited the division of clinical immunology from 4th March 2010 to 18th March 2010. They helped to establish HLA typing facilities at JIPMER.

II. Visits of Indian Faculty
   1. Dr. Amita Agarwal, Additional Professor and Head, Department of Clinical Immunology, SGPGIMS, Lucknow visited the division of clinical immunology between 20th to 22nd March 2010.

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BACKGROUND INFORMATION OF THE DEPARTMENT

JIPMER is emerging as one of the leading super specialty institutes in India. Among the various super specialty courses, DM clinical pharmacology plays an important role in providing training in the fields of patient service and research. Clinical pharmacologists play a vital role in clinical trials and drug discovery process apart from acting synergistically with the treating physicians to optimise drug therapy. In the present scenario, India is becoming the hub of clinical research and there are only a very few clinical pharmacologists to fulfil the growing demands in both academia as well as industry. Hence to satisfy the need of the country and add to the armamentarium of JIPMER super specialty services, the Department of Pharmacology has started DM Clinical Pharmacology course. The Clinical Pharmacology unit functions in close coordination with the main clinical departments namely medicine, surgery, cardiology, neurology etc. It works in hand with the treating physicians to optimise drug therapy, foresee and prevent adverse drug reactions. It also plays a leading role in pharmacovigilance and drug information service.

The Clinical Pharmacology unit has 6 beds shared with the departments of medicine, neurology and radiotherapy. Patients involved in clinical trials are admitted in these beds. The division also has facilities / access to

- Ambulatory BP monitor.
- Automated ECG monitor.
- NIBP monitor.
- HPLC.
- Pulse plethysmometer.
- Pulmonary function testing unit.
- Psychomotor testing unit.
- RT-PCR.
- Spirometry.
EDUCATIONAL COURSES

The DM Clinical Pharmacology super specialty course was started on 1st October 2009 with an intake of one candidate per year. The selection of DM was made against the post of senior resident. The candidate was selected based on the performance in the entrance exam and interview put together.

The major aim of this course is to train medical doctors in Clinical Pharmacology after they have obtained requisite post graduate qualifications. The course has been designed to impart an all round training in scientific evaluation of drugs in man. The training provided would enable the students to

- clinically evaluate drugs in a scientific manner.
- impart continuing education to physicians in rational drug use.
- teach scientific methodology of evaluation and assessment of drug treatment to undergraduate medical students.
- establish centres for monitoring.
- advice drug control organisations regarding introduction of new drugs and review the performance of established drugs.
- function in clinical departments of pharmaceutical companies and advise on protocol design and multi centric trials of newer drugs.
- advise clinical specialists in medical colleges and institutes in the designing of protocols for phase III and phase IV clinical trials.
- set up centres of drug assay / drug information.

After successful completion of the course the Clinical Pharmacologists will be able to contribute in four main areas including academics, regulatory affairs, pharmaceutical industry and patient care.

CONTINUING MEDICAL EDUCATION PROGRAMS

Dr. Melvin George, Senior Resident, Division of Clinical Pharmacology, attended the following conferences and workshops.

- ISCR 3rd Annual conference conducted by Indian Society of Clinical Research in Bangalore during Jan 2010.
- DBT sponsored workshop on clinical research organised by the Dept of Clinical Pharmacology, KEM Hospital, Mumbai on March 8-12, 2010.

CONFERENCES

Dr. C. Adithan, Professor & Head Dept of Pharmacology, delivered the following guest lectures during 2009-10.

- “Pharmacogenomics in Psychiatry” at the Indian Psychiatric Society, 14th South Zone Annual PG Training Programme organized by the Dept. of Psychiatry, S.V.Medical College, Tirupathi on 13.06.09.

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“Personalized Medicine: Promises and problems in India” at the Annual Conference of the Southern Regional Indian Pharmacological Society 2009 (SRIPS 2009) that was held at PSG Institute of Medical Sciences and Research, Coimbatore during 12th - 14th November 2009.

“Personalized Medicine: When the benefits will reach Indian patients?” at the Indo-French Workshop on Pharmacogenomics, JIPMER, November 30 - December 2, 2009.

“Pharmacogenomics in Anticancer Drugs” at the International Conference on Integrative and Personalized Medicine and 42nd Annual conference of Indian Pharmacological society (IPSCON 2009) held at Kolkata on 10th - 12th December 2009. He also chaired the U.K.Seth Prize session on Clinical Pharmacology and also served as a judge for the award of Gufic prize.


RESEARCH PROJECTS

A. Funded Projects

a. Extramurally Funded.

Ongoing

1. Phase I clinical trial of thrombinase is under progress.

2. Effect of eNOS Glu298Asp polymorphisms on endothelial dependent vasodilation in healthy individuals.

B. Departmental projects

Completed

1. Effects of second generation antihistamines on cognitive and psychomotor function in healthy subjects: A double blind, cross over, placebo controlled trial.

PATIENT CARE SERVICES

a. Therapeutic drug monitoring:

1. Therapeutic drug monitoring is done routinely for the following anti epileptic drugs: phenytoin, carbamazepine and phenobarbitalone. Urinary VMA and cortisol levels are also investigated on routine basis.

2. Assay of LH, FSH, ACTH, Prolactin and GH were done in the department as part of patient care service till August 2009. The following table gives the statistics of laboratory services provided by the department during April 2009 to March 2010.
Statistics of Laboratory Services 2009-10

Investigation | Apr | May | Jun | July | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Total
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---

**Therapeutic Drug Monitoring**
- Phenobarbitone: 2 4 2 2 2 6 5 2 11 4 40
- Phenytoin: 4 2 4 10 8 9 16 8 1 4 15 7 88
- Carbamazepine: 3 2 2 10 10 3 13 6 1 3 4 3 60

**Hormonal Studies**
- Urinary VMA: 7 12 6 1 3 4 12 7 14 66
- Cortisol: 17 19 32 24 9 2 1 101
- FSH: 41 52 41 70 49 253
- LH: 42 32 27 80 49 230
- Testosterone: 21 26 28 37 16 128
- Estradiol: 23 23 24 36 22 128
- Progesterone: 16 20 16 39 33 124
- Prolactin: 38 45 22 70 49 224

b. Pharmacovigilance centre:
The Pharmacovigilance centre in JIPMER is functioning under the Dept of Pharmacology. It collects and analyses reports of all suspected adverse drug reactions (ADR) reported from JIPMER. During April 2009 - March 2010 around 60 ADRS were reported in the pharmacovigilance centre.

c. Drug information centre:
The drug information centre functioning under Pharmacology department provides information to the clinicians and residents regarding drug related queries like
1. safety issues
2. drug interactions
3. details of new drugs

**ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS**
Dr. C. Adithan visited Roxaane clinical research laboratory, Chennai as a regulatory inspector appointed by CDSCO (Central Drugs Standard Control Organisation) New Delhi.

**SIGNIFICANT EVENTS IN THE DEPARTMENT**

2. Dr. K. K. Sharma, Professor & Head, Department of Pharmacology, U.C.M.S. & G.T.B. Hospital, New Delhi gave a guest lecture on “Preclinical Animal Toxicity and Safety Studies In Drug Discovery and Development Process: How to find First Human trial dose?” on November 10, 2009.
FUTURE PLANS

1. There is a plan to upgrade the Clinical Pharmacology division into a separate super specialty department for conducting clinical trials and clinical research. It will comprise of a 30 bedded Clinical Pharmacology ward with 2 ICU beds, bioanalytical lab, clinical pharmacodynamic lab and other essential facilities. This would help in streamlining the department towards phase I trials, bioequivalence studies, pharmacokinetic studies in special population and clinical pharmacodynamic experiments.

2. The department will be acquiring the following instruments in the next few months
   i. LCMS-MS
   ii. Tread Mill
   iii. ELISA reader

3. To start a new Masters course in Clinical Research.
BACKGROUND INFORMATION

Emergency Medical Services Department caters to very large population from very wide area bordering Vellore, Cuddalore, Villupuram & Thiruvannamalai districts. Most of the cases referred to EMS are mainly related to road traffic accidents, assault injuries, suicidal poisoning, poisonous snake bites and other medical and surgical emergencies.

Casualty Medical team consisting of 4 Casualty Medical Officers, 6 Assistant Casualty Medical Officers, Nurses assisted by Pre-trauma Technicians, Student Nurses, Dressers, Nursing Attendants, Safaiwala and other ancillary hospital staffs.

We cater to the emergency referral services. EMSD is provided with 2 ambulances equipped with life supporting equipments. The referral patients from the CMO are taken care of by various teams of medical specialty like ortho, medicine, surgery, Neurosurgery, CTVS etc., to complete the patient treatment.

For the diagnostic purpose, we are equipped with X-ray machines, CT scan, Ultrasound, ECG and biochemical laboratory investigations. Partially equipped Minor OT cum dressing room is functioning round the clock for fulfilling the needs of the patients.

Short stay patients are admitted in first floor in EMSD for continuation of treatment which has a bed strength of forty beds separately for male and female. A specially allotted burns room for burns is functioning with additional paramedical workers for burns affected patients.

SERVICES PROVIDED

The total attendance of the patients in EMS for the year 2009-2010 is 1,20442 at an average of 330 patients per day. Emergency OT is situated in the 2nd floor of EMSD, maintained in a very hygienic environment along with Post Operative Ward & CCCU. Emergency OT is equipped with 3 OT tables and an average of 400 patients are being operated nearly round the clock per month. It also has separate ID OT for gas gangrene cases.

A Biochemical Laboratory is functioning with Lab Technicians round the clock for various investigations like blood urea, blood sugar, serum amylase, serum creatinine, ionized calcium, ionized magnesium electrolyte sodium, electrolyte potassium, creatinine kynase direct, creatinine kynase total, bilirubin total, bilirubin direct, SGOT, SGPT, troponin – I card test, hemoglobin estimation, packed cell volume serum ALP, total protein. The biochemical investigations carried out monthwise is shown below:

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<table>
<thead>
<tr>
<th>Month &amp; Year</th>
<th>Total samples received</th>
<th>Total Investigations conducted</th>
</tr>
</thead>
<tbody>
<tr>
<td>April, 2009</td>
<td>488</td>
<td>4925</td>
</tr>
<tr>
<td>May, 2009</td>
<td>522</td>
<td>8050</td>
</tr>
<tr>
<td>June, 2009</td>
<td>2392</td>
<td>8356</td>
</tr>
<tr>
<td>July, 2009</td>
<td>2713</td>
<td>9725</td>
</tr>
<tr>
<td>August, 2009</td>
<td>2921</td>
<td>8869</td>
</tr>
<tr>
<td>September, 2009</td>
<td>2459</td>
<td>9383</td>
</tr>
<tr>
<td>October, 2009</td>
<td>3649</td>
<td>11902</td>
</tr>
<tr>
<td>November, 2009</td>
<td>2928</td>
<td>15173</td>
</tr>
<tr>
<td>December, 2009</td>
<td>3673</td>
<td>19422</td>
</tr>
<tr>
<td>January, 2010</td>
<td>3673</td>
<td>19422</td>
</tr>
<tr>
<td>February, 2010</td>
<td>3385</td>
<td>20636</td>
</tr>
<tr>
<td>March, 2010</td>
<td>3356</td>
<td>22027</td>
</tr>
</tbody>
</table>

The administrative head of EMSD is a Chief Medical Officer, monitoring the patient services rendered at EMSD. He is arranging for equipments, consumables & non consumables required for EMSD and maintaining proper functioning of the equipments.

**FUTURE PLANS**

To expand the 4th floor for Trauma Care with Trauma OT and also the 5th floor to establish a fully equipped burns unit which is going to be one of the best in India.
BACKGROUND INFORMATION OF THE DEPARTMENT

The division of Neonatology was started in August 2009 with the following faculty:

1. Dr. Vishnu Bhat. B (Professor).
2. Dr. Sriram. P (Assistant Professor).

DM neonatology course was commenced on August 2009 with an intake of one student per year. In addition to routine academic teaching, the Neonatology Division also conducts regular Neonatal resuscitation training for doctors and workshops for Nurses on Essential Newborn Care. Every year, one Pediatric Postgraduate is allotted a dissertation topic in Neonatology. Clinical Research in basic neonatal care is another key task undertaken by the division.

EDUCATIONAL COURSES

A. Undergraduate Courses

The undergraduate teaching of the department comprises of M.B.B.S. course (2 batches). The number of students in each batch is 116.

B. Postgraduate Courses

M.D (Pediatrics)- 6 students per academic year.

C. Research Courses

D.M (Neonatology)-1 student per academic year.

D. Other Courses

Collaborating with Department of Anatomy for Ph.D in Anatomy.

CONTINUING MEDICAL EDUCATION PROGRAMS

Essential Newborn care for Nurses (Feb 2010).

Neonatal resuscitation program (NRP) for medical students and nurses.

CONFERENCES

Dr. B. Vishnu Bhat

- Faculty for NTTC National Course at JIPMER – February and September for 10 days.

• Essential Newborn care Workshop for Nurses at JIPMER on 15th to 18th July, 2009.

• Recent Concepts in management of perinatal asphyxia – talk delivered at SRMC, Chennai during Newborn Week Celebration on 20.11.2009.

• ‘Recognition of Congenital Malformations’- talk delivered at CME organized by FOGSI, Pondicherry Chapter on 22nd November 2009.


• Essential Newborn Care Workshop for Nurses – 5th – 7th February 2010.


• State level ‘TOT’ in Homeopathy for Maternal and Child Health- 23.3.2010 to 27.3.2010-delivered talk on:
  a. ‘Essential Newborn Care’.
  b. ‘Birth injuries and birth defects’.

Dr. P. Sriram

• Participated in International CME in Pediatric Nephrology (17/1/2010), JIPMER, Pondicherry.

• Underwent Trainer’s Course in Neonatal Resuscitation Program (NRP) on 27th March 2010- St Johns Medical College Hospital, Bangalore.

RESEARCH PROJECTS

Departmental Projects

**Completed**

- Study of Newborns requiring assisted ventilation.
- DNA Damage in Down Syndrome.

**Ongoing**

1. Outcome of late preterm babies.
2. DNA damage in Perinatal Asphyxia.
3. Therapeutic Hypothermia for Term Neonates with Hypoxic Ischemic Encephalopathy.
5. Non Protein Nitrogenous substances in cord blood and urine of asphyxiated babies.
6. Oxidative stress in Down Syndrome.
7. Immunological Abnormalities in Down Syndrome.

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PUBLICATIONS

A. Journals

B. Book Chapters


PATIENT CARE SERVICES

A. Clinical

1. Average daily deliveries:
   - Total : 40
   - Instrumental : 15
   - Caesarian Sections : 11

2. Average daily admissions to NICU : 8

3. Ventilation : 5 beds
   - Total Bed strength : 25
   - Average daily bed occupancy rate : 125%

B. Laboratory

Department side laboratory caters to all basic investigations including routine hemograms and urine examination of all inpatients. (Common to Pediatrics).

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Conduct of Workshops and Conferences

1. Essential Newborn care workshops for Nurses (Feb 2010).


Dr. B. Vishnu Bhat

1. Editor Current Pediatric Research.

2. Associate Editor – Indian Journal of Paediatrics.
ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. B. Vishnu Bhat
1. Faculty NTTC, JIPMER.
2. Secretary JIPMER Alumni Association.
3. Staff Adviser, JIPMER Students Association.
4. Secretary, NTTC Alumni Association.

Teaching facilities

<table>
<thead>
<tr>
<th>Number</th>
<th>Seating capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seminar Rooms(common to Pediatrics)</td>
<td>1</td>
</tr>
</tbody>
</table>

Audiovisual Aids

Adequate (Computer with internet and LCD projector – 1 no. Overhead projector – 1 no. Writing board – 2 no.).

Departmental Library

1. Total no. of Books: 200
2. Purchase of latest editions in last 3 years: 50
3. Access to most International and National journals catering to Pediatrics and Neonatology through JIPMER intranet available.

SIGNIFICANT EVENTS IN THE DEPARTMENT

The Faculty delivered lectures pertaining to common pediatric problems for Homeopathic doctors of Pondicherry under the auspices of AYUSH at VCRC, Pondicherry in March 2010.
BACKGROUND INFORMATION OF THE DEPARTMENT

JIPMER Blood Bank started functioning in the year 1966 in the new hospital Block under Department of Pathology to cater to the needs of JIPMER hospital. In the initial period only whole blood was available and annual turnover was 600 units.

Blood component separation was started in the year 1988 with separation of 500 units of blood per annum. HIV testing and HCV testing of blood donors was started in the year 1988 and 2000 respectively. Plateletpheresis and plasma exchange programme using cell separator is made available from the year 2002.

Division of Transfusion Medicine was created in February'2009 and blood bank started functioning under this division. Post Graduate Course in Transfusion Medicine and Immunohaematology is offered from the Academic year 2009-2010 with an intake of one student per annum and two students are studying MD Course.

Blood storage centre was inaugurated in SS Block on 1st Oct'2009 to cater to the needs of super specialty branches. JIPMER Blood Bank has been recognized as regional Blood Transfusion centre and Model Blood bank by NACO. More than 50 voluntary blood donation camps are conducted and nearly 80% of the total collection is from voluntary blood donors. Present annual turnover is about 10,000 units of blood and 80% of total collection is separated into blood components such as PRBC, FFP, Platelets and Cryo. Advanced procedures such as plasma exchange, Plateletpheresis, Leuopheresis etc are being carried out in good numbers.

EDUCATIONAL COURSES

- Undergraduate Courses – Training of M.B.B.S, B.Sc M.L.T, B.Sc Nursing and BMRT students.
- Postgraduate Course – MD Transfusion Medicine and Immunohaematology.

CONTINUING MEDICAL EDUCATION PROGRAMS

Dr. SP. Subbiah gave a talk on Blood donation in Surya FM Radio. He also delivered guest lecture on Rational Blood Transfusion practices at Meenatchi Mission Hospital, Madurai.

CME Program was conducted on Blood Banking for Medical Officers and Technicians in March'2009. About 40 staff members from various blood banks in Puducherry participated.
PATIENT CARE SERVICES

A. Clinical

1. Plasma exchange
2. Supply of PRBC, FFP and random donor platelets
3. Single donor platelets
4. Leucopheresis

B. Laboratory

1. Grouping, Rh typing and compatibility testing
2. Direct antiglobulin Test and Indirect antiglobulin Test
3. Irregular anti-body identification
4. Investigation of auto immuoheamolytic anemia

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

50 Voluntary Blood Donation Camps were organized with the help of voluntary agencies. More than 80% of blood is collected from voluntary blood donors.

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. SP. Subbiah carried out inspection of all blood banks in the Union Territory of Puducherry, on behalf of NACO. He is Technical expert for Blood Bank equipments for HLL, Noida under PMSSY scheme and member of state Blood Transfusion council. He is also one of the technical experts for inspection of blood banks for the states of Tamilnadu and Puducherry.

SIGNIFICANT EVENTS IN THE DEPARTMENT

Semi automated gel technology was introduced for blood grouping and compatibility testing. Dr. Rajendra Chudhary, Professor and Head, Department of Transfusion Medicine, SGPGI, Lucknow visited on 19th and 20th March’2010. Peripheral blood stem cell program for transplant will be started in the near future.
10. College of Nursing

Principal
S. Revathi

Vice Principal
Kumari, M.J.

Lecturers
R.S. Ramesh
R. Lakshmi
D. Vetriselvi
Manju Dhandapani
Padmavathi Nagarajan

BACKGROUND INFORMATION

College of Nursing, JIPMER started in August 2006 and is located in an exclusive three level building with all infrastructure required to learn the full spectrum of nursing care. The College offers four years undergraduate degree course (B.Sc., Nursing). The College aims to prepare nursing graduates to assume responsibilities as professionally competent Nurse and Midwife in providing holistic care. Students are provided with class room learning, simulation learning, clinical learning and field learning with all modern teaching aids. Students are given hands on training in different areas like Medical Surgical Nursing, Child Health Nursing, Maternity, Community Health Nursing, Psychiatric Nursing, Nutrition, Nursing Education and Administration and Basic Medical Sciences etc. The course has been designed according to the regulations of Indian Nursing Council.

JIPMER Hospital is a multi specialty hospital spread over 195 acres with 1600 bed strength. Students are posted in the clinical areas as per the requirements. Students have access to library facilities from Central Library and College of Nursing where students have free access to rich collection of books and journals. Further College of Nursing is equipped with Computer Lab with 25 internet connections. Residential facilities are provided to male and female students. Facilities in the Hostel are excellent for ideal development of students. After completion of 4 years degree course, JIPMER offers one year optional internship programme which is equivalent to one year clinical experience.

EDUCATIONAL COURSES

Undergraduate Courses

College of Nursing has started B.Sc., Nursing course in August 2006 with an intake of 75 students per year. The first batch with 59 students has successfully passed (100%) and will be completing the course on 31st August 2010. The VI, VII, & VIII semester students have attained 100% successful results.
CONFERENCES

- Dr. Mrs. S. Revathi, Principal, Mrs. M. J. Kumari, Vice Principal and Mrs. Padmavathi N, Lecturer, College of Nursing, have attended GFATM workshop (TOT) at West Bengal College of Nursing, Calcutta from 22-3-2010 to 26-3-2010.

RESEARCH PROJECTS

1. “A study to assess the stress and coping among primary infertility women and evaluate the effectiveness of counseling and relaxation therapy among the primary infertility couples having idiopathic infertility attending infertility clinic in JIPMER, Puducherry”— Mrs. D. Vetriselvi.


3. “A study to evaluate the effectiveness of nursing strategies on the knowledge and psychosocial impacts on quality of life among patients with psoriasis” — Mrs. Padmavathi Nagarajan.

4. “A prospective study to assess the effectiveness of nurse led motivational enhancement therapy (MET) on alcohol relapse prevention in hazardous drinkers attending de-addiction unit, JIPMER, Puducherry” — Mrs. D. Veni.


6. “A study to assess the cognitive and behavioural changes in patients with intracranial tumours” — Mrs. Manju D.

7. “Study to describe feeding practices in critical ill patients in view to develop nutritional algorithm in critical care units of JIPMER, Puducherry” — Mrs. Lakshmi R.

SIGNIFICANT EVENTS

1. The Global Funding Agency, New Delhi on the recommendation of Indian Nursing Council selected JIPMER, Puducherry as one of the sub-centers for conducting series of workshop for training of staff nurses working in Govt Hospitals in Pondicherry and nearby few districts of Tamil Nadu to provide care to the patients suffering from AIDS/TB/Malaria. The first workshop was conducted from 3-8-2009 to 7-8-2009.

2. Rotary Club, Puducherry and Mother Theresa Postgraduate Institute of Health Sciences had jointly organized a quiz competition on Renal System on 11-3-2010 in which our II semester students viz Ms. Blessy Mathews, Ms. Nishya Merry Jose and Mr. Terry Mize participated and won the second prize.
11. Central Facilities

11.1 Biomedical Waste Management

Medical Superintendent & Senior Professor
A. K. Das

Deputy Medical Superintendent
A. Tummanatham

BACKGROUND INFORMATION

Biomedical waste may be defined as any waste generated during the diagnosis, treatment and research involving human beings. Indiscriminate disposal of such potentially hazardous and infectious wastes poses a definite health risk to the human population.

Recognizing the importance of disposal of medical waste in an environmentally sound manner, the Hospital Biomedical Waste Management Wing was started in 1998 at JIPMER Hospital under Dr. D. Basu, Professor of Pathology.

SERVICES PROVIDED

1. Segregation of the wastes is done under the headings of infectious biological wastes, waste sharps and general noninfectious wastes and are transported in yellow, blue and black coloured bags respectively for disposal.

2. The infectious biological wastes are taken for incineration. Two incinerators are fully operational with the capacity of burning 120 kgs. of waste material per hour. The second stand by incinerator has the capacity to burn 100 kgs. of waste materials per hour with even up to 85% dampness.

3. 200 electrical needle syringe destroyers have been acquired by the hospital of which 155 have been issued to all the wards where they are in regular use. Other waste scraps are disinfected, shredded and disposed in landfills along with general waste.

4. Microbiological wastes are disposed by autoclaving.

STATISTICS OF THE YEAR

The quantum of biomedical waste generated in JIPMER Hospital between 2009-10 was 13,75,000 Kgs. The quantum of biomedical waste treated in the hospital itself between 2009-10 was 1,30,000 Kgs. The remaining noninfectious waste was sent to the dumping yard within the JIPMER Campus itself.
SIGNIFICANT EVENTS

Recently a new Microwave disinfection device (MEDISTER 160) with accessories has been purchased and is expected to be functional from the month of August, 2010. This equipment operating with high frequency technology will be used for disinfection of infectious moist wastes and liquids, blood bags, drainage and dialysis gear etc.

FUTURE PLANS

1. Orientation programmes for all the staff concerned with the segregation, transportation and disposal of biomedical waste.

2. Initiatives to be taken to minimize the generation of waste in the hospital and safe disposal of the waste at the segregation site itself as far as possible.
11.2 Canteen

Additional Professor & Chairman
R. Raveendran

Chief Social Scientist & Secretary
P. Rajendran

BACKGROUND

The JIPMER canteen was started in 1970 by the JIPMER Staff Co-operative Credit Society (Regn No. P231) and later in 1976 it became the JIPMER Staff Co-operative Canteen (Regn no. P354). In 1991 the canteen was renamed as JIPMER Staff Canteen and was annexed as a section of JIPMER following the take over of the same by the central government. After JIPMER was declared an Institute of National Importance, the canteen was renamed “JIPMER Departmental Canteen” in 2008.

ADMINISTRATIVE HIERARCHY

The canteen is managed by the Canteen Management Committee consisting of the Director, JIPMER as its Patron, Chairman, Secretary, Jt. Secretary and members nominated from different sections of employees of JIPMER. Currently the Canteen Management Committee consists of the following members:

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. KSVK Subba Rao, Director</td>
<td>Patron</td>
</tr>
<tr>
<td>Dr. R. Raveendran, Professor of Pharmacology</td>
<td>Chairman</td>
</tr>
<tr>
<td>Shri. P. Rajendran, Chief Social Scientist</td>
<td>Secretary</td>
</tr>
<tr>
<td>Shri M. Krishna Rao, Supt. cum Manager</td>
<td>Jt. Secretary</td>
</tr>
<tr>
<td>Shri M. Balasubramanian, Lab attendant</td>
<td>Member</td>
</tr>
<tr>
<td>Dr. Gopal K Pal, Additional Professor of Physiology</td>
<td>Member</td>
</tr>
<tr>
<td>Shri S. Gandhirajan, Wardboy</td>
<td>Member</td>
</tr>
<tr>
<td>Shri S. Kandasamy, Scientist II</td>
<td>Member</td>
</tr>
<tr>
<td>Shri L. Outchadevan, Manager, Canteen</td>
<td>Member</td>
</tr>
<tr>
<td>Shri M. Paneerselvam, Nursing attendant</td>
<td>Member</td>
</tr>
<tr>
<td>Shri A. Prabakaran, Peon</td>
<td>Member</td>
</tr>
<tr>
<td>Smt. Revathy, Sr. Dietician</td>
<td>Member</td>
</tr>
<tr>
<td>Shri N. Viswanathan, Medical Records Clerk</td>
<td>Member</td>
</tr>
</tbody>
</table>
SERVICES PROVIDED

The canteen is run on “No loss, No Profit” basis. Currently the canteen is functioning at three places. The main section is located in the administrative block where the production of eatables is carried out. In the super specialty block, an AC canteen is functioning to serve snacks and soft and hot drinks. A bunk located near the main gate also caters the needs of the employees. The services provided at different locations are given below:

<table>
<thead>
<tr>
<th>Location</th>
<th>Sales timing and Services</th>
</tr>
</thead>
<tbody>
<tr>
<td>Admin Block Canteen</td>
<td>8:30 AM to 1:30 PM and 2:30 to 4:00 PM Breakfast, lunch, hot and cold drinks, snacks, ice creams</td>
</tr>
<tr>
<td>SS Block Canteen</td>
<td>9 AM to 12 Noon and 2:30 to 4:00 PM Hot and cold drinks, snacks, ice creams</td>
</tr>
<tr>
<td>Bunk</td>
<td>7 AM to 5:30 PM Packed breakfast and lunch, hot and cold drinks, snacks, ice creams</td>
</tr>
</tbody>
</table>

Canteens at Admin block and SS block offer dine-in and take-away facilities.

STATISTICS

The canteen services are utilized by about 4000 – 5000 customers consisting of officers, employees, students and others employed in the campus. The canteens are visited by about 2000 customers a day.

FUTURE PLANS

Plans are afoot to expand the canteen in view of new buildings, departments and courses started in the campus. A building for a new canteen with AC dining halls has been proposed. A separate production unit is being planned.
11.3 Central Animal House

Professor & Officer-in-charge
S.C. Parija

Various Activities of the facility are categorized as follows:
The following small animals have been maintained throughout the year:
1. Rats (Wistar)
2. Mice (Swiss)
3. Rabbits (New Zealand)
4. Guinea Pigs
The opening stock as on 01.07.2009 was
- Mice 280
- Rats 184
- Guinea Pig 10
- Rabbits 75
The closing stock as on 30.06.2010
- Mice 350
- Rats 168
- Guinea Pig 29
- Rabbits 80
A total of 579 small animals (rats, mice, rabbits and guinea pigs) were supplied to various departments of the institution. The following is the details:-

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Animals</th>
<th>No issued for Teaching</th>
<th>No. issued for Research purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Rats</td>
<td>141</td>
<td>220</td>
</tr>
<tr>
<td>2.</td>
<td>Mice</td>
<td>194</td>
<td>–</td>
</tr>
<tr>
<td>3.</td>
<td>Rabbits</td>
<td>9</td>
<td>–</td>
</tr>
<tr>
<td>4.</td>
<td>Guinea Pig</td>
<td>15</td>
<td>–</td>
</tr>
</tbody>
</table>

The facility housed 4 sheep for purpose of preparation of culture media (sheep blood agar) by the department of microbiology.

Details of registration
Animal House Registration no. : 128/1999 CPCSEA
Date of renewal of registration : 10.5.2009
Valid upto : 09.5.2012

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11.4 Central Library

Director-Professor of Biometrics & Faculty-in-charge
Ajit Sahai

Library and Information Assistant
Kalyani Sathiyakumar

BACKGROUND
The Library at the Medical College, Pondicherry was established in the year 1957 at the erstwhile Medical College Buildings at Pondicherry. It was shifted to the Banting Hall, JIPMER in the year 1964. The Central Library was finally shifted to the present centrally air-conditioned building and continued functioning from January 12, 1973.

The Central Library was initially named after the Father of Indian Library Movement, DR. S. R. Ranganathan and hence was called as Dr. S.R. Ranganathan Memorial Library. However, currently it is popularly known as Central Library, JIPMER.

WORKING PATTERN – TIMINGS, HOLIDAYS
The Working Hours of the Central Library is from 9 AM to 10 PM and it is open round the year except national holidays and other seven festival holidays in a year.

LIBRARY COMMITTEE
The functioning of the Library is guided by the advisory body i.e Library Committee which makes all policy decisions pertaining to Library matters. The Dean of the Institute is the Chairman with nine Senior Faculty staff & Purchase as well as Accounts Officer as members of the Committee. The Faculty-in-charge Library is an ex-officio Member Secretary of the Library Committee.

USERS
The eligible users of the library are:

1. Faculty, students of JIPMER and other medical and para medical staff, retired faculty members, Students undertaking Project work in JIPMER upon collection of Refundable Caution Deposit.

Short time permission to outsiders for few days at the discretion of the Faculty-in-charge is also considered.

On an average around 500 readers visit the library every day.

LAYOUT
Library has the following sections:

I. **Ground floor:** Reception counter, book counter, main reading hall, reference section, issue section, photocopy facility.
II. **First Floor:** Current journal section, library office, theses section, seminar hall cum computer lab with Internet facility in the first floor.


I. **BOOK SECTIONS**

**GROUND FLOOR**

A. **Reception counter and waiting lounge**

At the entrance of the library there is a reception counter and a waiting lounge. There is a staff throughout present at the reception counter to monitor the entry of users inside the library. Identity card system is being followed for entering inside the library. The waiting hall is used by the readers for reading their personal books.

*Identity card system for entry inside the library*

Every user is expected to show his/her identity card every time to the janitor on duty at the reception counter. At the time of entering inside the library, the user should enter his/her name and address / designation in the Register kept at the entrance.

B. **Main reading hall and book counter**

There is a main reading hall with a reading capacity of 175 readers. As soon as one enters inside the main reading hall on the right side there is a circulation counter where issue/return and renewal of books work is done by the concerned staff posted at the book counter. Books from issue section are issued on membership cards between 9.00 AM and 4.30 PM on all working days of the library except Sundays and other closed holidays. The loan period is 10 days for UG & PG students and other para-medical staff and 15 days for faculty members.

The total collection of books breakup details given below:

1. Total collection of books as on date — 37,773
2. Book Bank Book — 5,515
3. Hindi Books — 1,500
4. French Books — 1,620

Hindi Books numbering around 1,500 received from the Hindi Implementation Wing of the JIPMER Administration are also displayed on open shelves in the Issue Section. There are 1,620 French Medical Books procured / received in the early days of the Library.

**Reference Section Books**

In reference section there are 2,467 books in medicine and allied subjects arranged in 23 shelves in the order of basic subjects like Anatomy, biochemistry etc., followed by clinical subjects like Medicine & surgical specialities on the left side of the hall. Super speciality subjects are arranged right side of the reference hall. In the last shelf on the right side general books are arranged. The recently received pamphlets, booklets are displayed periodically in a revolving shelf in the main reading hall of the library near the stair care to the first floor.
There is a notice board where important notices regarding conferences and catalogue of new books are displayed. The books published during the last 5 years from the year 2004 to 2010 are displayed in the reference section. The books are procured for the library through book exhibition which is conducted during the month of August/September every year inviting reputed book sellers from all parts of India.

New Additions
The library added 1,250 books for the year 2009-2010 for Central Library, Departmental Library and Book Bank for the total value of Rs. 47 Lakhs.

ISSUE SECTION
The Books available for issue to the members are displayed on open shelves at the rear end of the Referencing Hall. There are 3,119 books are available in the issue section displayed in 27 shelves from the year 1991 to 2003.

OLD BOOKS
About 6,343 old obsolete books have been classified chronologically and arranged in separate section in two batches i.e one covering the period 1960 – 1980 and another from 1981-1990 for scrutiny by the HODs for condemnation and disposal through the sub-committee formulated during the year 2006.

BOOK BANK
There is a separate Book Bank from which books are issued to the SC/ST students on long term basis through an additional membership card provided to them. About 50 students are currently availing this facility.

PHOTOCOPYING FACILITY
There are 2 machines to meet the demand of the users. Canon 6060 and IR 6000. IR 6000 is a high speed duplex digital copier with scanning facility, memory option, printout option and Fax. During the year 1,50,000 pages are photo copied.

1. There is a private Photocopying facility available at the corner of the Issue/Return Counter inside the main reading hall adjacent to the Librarian’s room.

2. Only pages from the Books and Journals are allowed for Photocopying.

3. Full Books or Journals are not permitted. Personal materials are not permitted to be brought in the Library for Photocopying.

4. Any Photocopied materials should be shown to the Janitor on duty before taken out of the Library.

II. CURRENT JOURNALS AND PERIODICAL SECTION (first floor of Library)
A. Current Journals (Print Copy)
Two hundred Ninety Six journals (296 nos.) from Indian and International Publishers subscribed for the year 2010 are displayed in the journal racks subject wise in alphabetical order. The library spent about 1.47 crores for the subscription of 296 journals for the year 2010.
Theses Section (First floor near computer lab)

There are about 1800 theses/dissertations received from the PGs and Research Scholars of JIPMER are displayed in Accession number-wise order. Adjacent to it, the World Health Organization Publications are displayed on shelves.

B. Online Journals

The library subscribes to online journal databases namely EBSCO, MD Consult in addition to print subscription of journals.

NML – ERMED e-Journal Consortium

JIPMER is one of the member institution in the NML-ERMED e-journal consortium. Through NML-ERMED, EBSCO databases, the library provides online access to 2,400 journals which covers about 5 major medical publishers in the field of medicine. Recently, library staff were sent for a training programme on NML-ERMED e-journal consortium to enhance the journal searching skill through their website.

EBSCO provides online access to 1,415 journals which are available through Biomedical reference collection, Dynamed & Smart image databases.

The MD Consult is a comprehensive database providing access to number of journals and e-books published by ELSEVIER science publishers.

Year Books, Advances and Important popular e-books and many of the clinics of North America are available through MD consult online package. So the library is providing a comprehensive “online-print” current awareness service.

List of journals Subscribed online for the year 2010 along with full text are made available through JIPMER Intranet Computers (EBSCO, NML-ERMED, MD Consult) for the benefit of the students and Faculty.

COMPUTER LAB & INTERNET FACILITY

There is a seminar hall cum computer lab with the direct entry from the main entrance through a stair case at the right side. Important meetings, workshops/training sessions are conducted in this hall. There are 30 computers installed in the computer lab with Internet browsing facility provided free of cost to the faculty, students and residents of JIPMER for academic Research and Patient Care related purpose.

CD BASED SERVICE

The library has a collection of 200-300 book CDs and journal CDs which is supplied by the vendors supplied along with the book.

LIBRARY OFFICE

There is a library office to the left side of the stair case leading to the first floor at the rear side of the journal section. Here there are separate Books management and Journal management, computer maintenance sections looked after by the staff posted for the purpose. There are 6 computers installed and allotted to library staff to carry out the day to day routine functioning pertaining to the different sections of the library.
III. BOUND VOLUME SECTIONS (BASEMENT)

Presently, the bound volume collection of the Journal Section is 33300.

Bound volumes of Journals are displayed in the Basement according to the titles alphabetically.

1. BOUND VOLUME SECTION MAIN – Main section has bound volume of journals from 1971 to 2005.

2. BOUND VOLUME SECTION ANNEX I – The Annex I section has bound volume of journals from 1930 to 1970. The Library has many bound volumes dating back to 1930s which is not available in other medical colleges. Because of the journal archives available for several decades, this library is considered as one of the best referral libraries in South India. Many students from other medical colleges avail this service for reference collection for their dissertation and project works.

3. ANNEX II SECTION has journals from 2006 onwards.

IMPORTANT EVENT

The Library has arranged for the condemnation of about 15,000 old obsolete Books during the year 2009-2010 through formulation of a condemnation Committee and disposed them off through auction procedure and fetched revenue for the Institute for a sum of Rs. 1,64,684/-. Considering the interest shown by the students and faculty to buy old obsolete books about 326 books were sold to them at a very nominal rate of Rs. 50/- per book and fetched a revenue for a sum of Rs. 16,300/- to the Institute.

The condemnation of old obsolete books is an important event in the history of JIPMER Library, because it is for the first time during the past thirty five years that initiative was taken to dispose off the old obsolete books through official procedure.

SALIENT FEATURES

Library Budget

Every year the Library spends about two Crores for the purchase of books and journals every year and has a good collection of books, journals.

Journal Archives

The library has very old bound volumes of journals available from 1930 onwards. Some of these journals are not available in other medical colleges in and outside puducherry. Because of its good learning resources it is considered as one of the best referral Library in the whole of South India.
FUTURE PLANS

PROPOSAL FOR MODERNIZATION AND AUGMENTATION LIBRARY FACILITIES
AND LIBRARY AUTOMATION

1. Two proposals were submitted during the year for the modernization and augmentation of library facilities which will be implemented shortly.

2. The Library has submitted a proposal of one crore for Library Automation through Library automation subcommittee which is under process. The security System and Learning resource Centre and procurement of additional hardware and Software are covered under this Library Automation Proposal.

RESTRUCTURING OF STAFF PATTERN

As part of the expansion activities of the Library in future, it is proposed to restructure the existing staff pattern on par with AIIMS, New Delhi so that the services to be provided to the users can be improved. The proposal for the restructuring of staff pattern is under active consideration and will be implemented shortly. So that JIPMER library also enjoys the status of excellence on par with AIIMS, New Delhi and PGI, Chandigarh in terms of staff position, collection of books and journals and service to users.
The Central Stores procures and issues most materials required for the hospital and institute other than medicines. The Central Stores has the following units:

**FURNITURE STORES**
Procures and supplies most types of furniture for use in the hospital, institute, hostels and various offices. Procurement is done through annual tender. The process of procurement is elaborate, with calling for samples, evaluation of the samples, orders to the firms providing approved samples, inspection of supplied materials and acceptance/rejection of supplies. A committee of high-ranking officers as well as experts carries out the inspection of samples and supplies. Only those samples/supplies that conform to our specifications are accepted. Occasionally, when furniture are required urgently procurement is done through Kendriya Bhandar or governmental agencies and supplied to departments after inspection.

**INSTRUMENT STORES**
Procures and supplies various instruments, surgical sutures and common medical devices (intravenous cannulae, catheters, suture needles, intercostal drainage sets, suction drainage sets, urine drainage bags, sterilizing/disinfecting solutions, jars, bins, trays, containers etc. to all the user departments. Procurement is done through annual tenders. The process of procurement is elaborate, with calling of samples, evaluation of the samples by the user-departments with adequate documentation of any rejection and orders to the firms providing approved samples. Any supplied material found to be not conforming to the samples or lacking in quality in any way, as reported by the user-departments, is rejected and asked to be taken back by the firms. The procurement and supply are carried out under the supervision of a committee of experts. Occasionally, when items are required urgently or new items are to be procured, procurement is done by calling for limited quotations.

**CONTINGENT AND SANITARY STORES**
Procures and supplies miscellaneous items such as detergents, sanitary items, implements, pesticides, security shoes/kits, uniform footwear, battery cells, chemicals for fumigation, plastic buckets etc. Procures and supplies disposable polythene bags for hospital waste management. Procurement is by limited quotations for most of the items except polythene bags, which are procured through open tender. The procurement procedure is supervised by a committee of officers and experts.
CONDEMNATION STORES

Unserviceable items of all types such as instruments, furniture, equipment, etc. are received here after they are certified as condemned. The items are sorted and disposed off by public auctions. The revenue thus earned is deposited in the government account. A committee of officers supervises the condemnation and disposal process.

PERFORMANCE

Contingent & Sanitary stores

<table>
<thead>
<tr>
<th>Total funds allocated</th>
<th>Rs. 52,00,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total expenditure booked</td>
<td>Rs. 42,80,180</td>
</tr>
</tbody>
</table>

The shortfall in expenditure was due to the campus sanitary services being outsourced and the consequent decline in the requirement of sanitary items.

Furniture Stores

<table>
<thead>
<tr>
<th>Total funds allocated</th>
<th>Rs. 45,00,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total expenditure booked</td>
<td>Rs. 57,72,430</td>
</tr>
</tbody>
</table>

Condemnation Stores

| Total revenues received by disposal of condemned items | Rs. 7,85,381 |

Instrument Stores

<table>
<thead>
<tr>
<th>Total funds allocated</th>
<th>Rs. 1,50,00,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total expenditure booked</td>
<td>Rs. 2,24,78,494</td>
</tr>
</tbody>
</table>

As can be seen, the Central Stores has been functioning above par. The department maintains a close contact with the Purchase Section and helps in utilizing funds that might otherwise be surrendered for the benefit of the Institute and the Hospital.

AUGMENTATION PLANS

1. Centralization of the purchase and issue of numerous instruments, chemicals, glassware and miscellaneous items that are currently being procured by various departments.

2. A modern, optimally constructed Stores Block for safe and efficient storage and issue of materials.

3. Augmentation of staff for initiating the newer services.

4. Procurement of motorized trolleys for transport of materials to and from the wards.

5. Procurement of motorized moving equipment for stacking and moving stores items.

6. Establishment of satellite stores in the Super-specialty Block and the upcoming Maternity and Child Health Blocks.
BACKGROUND INFORMATION

The Central Workshop of JIPMER is as old as the Institute. With the inception of JIPMER, central workshop started with the primary objective of maintenance and repair of electrical, mechanical, carpentry and civil works of various departments. Workshop is catering the needs of various investigation and research laboratories of JIPMER.

SERVICES PROVIDED

The Central Workshop of JIPMER has been performing mainly the repair and maintenance of equipments / instruments used for medical education, scientific research, hospital and patient care services. In addition to the repair and maintenance, the fabrication works and procurement of new equipments/ instruments are also carried out in the Central Workshop.

Repair and Maintenance

The repairing of refrigerators, water coolers, deep freezer, cold room, ice machine, cold storages, trolleys, sterilizers, geysers, wooden items, recanning, etc. are being done in the workshop. Apart from the above, maintaining the AC plant, emergency power supply, buildings are also carried out from time by time.

Fabrication Works

Assembling water coolers, cold storages, air conditioners, sterilizers, geysers, centrifuges, trolleys, etc are being done in the Central Workshop.

Store

Machinery and equipments like lathe machine, grinding machine, drilling machine, arc & gas welding machine, sandling machine, saw machine, etc. were kept available for day to day works of Central Workshop. The consumable and non consumables items for repairing and fabrication works are being purchased through annual open tender and maintained in a store room for day to day issue. The items like telephone instruments, geysers, water coolers, refrigerators, etc. are also being procured and issued through Central Workshop based on the requirements received from various departments of JIPMER.

STATISTICS OF THE YEAR

About 9500 repairing works were done in the year 2009 – 2010 in the central workshop of JIPMER. Workshop has procured and distributed about 200 extension boards, 50 water heaters (geisures), 25 water coolers, 100 telephones and 50 refrigerators to various departments.
ACHIEVEMENTS
Workshop has attended and performed all the repair and maintenance works as requested by various department to their satisfaction.

FUTURE PLANS
The Central Workshop is in the process of up-gradation into the Department of Engineering. Therefore, two Assistant Engineers and five Junior Engineers have been recruited recently to look after the maintenance works of JIPMER. They have been posted to Central Workshop to improve the work output of the Workshop so that slowly the Workshop is upgraded to the Engineering Department in a near future.
11.7 Computer Facilities

11.7.1 Administrative Information System

Director-Professor of Biometrics & Faculty-in-Charge
Ajit Sahai

Sub-System-in-Charges

<table>
<thead>
<tr>
<th>Establishment &amp; Estate</th>
<th>Finance &amp; Accounts</th>
<th>Academics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sudha V. (DDA)</td>
<td>Viswanathan R. (F&amp;CAO)</td>
<td>James T.S. (Registrar)</td>
</tr>
</tbody>
</table>

Systems Co-ordination
Unnikrishnan C.B. (Admn. Officer)

BACKGROUND INFORMATION

A humble beginning of computerization of administrative activities was initiated during the year 1987 by inducting two personal computers (P.Cs) in order to develop a suitable Management Information System (MIS) at JIPMER. In the year 1994 in collaboration with National Informatics Centre (NIC) and its Regional Office at Hyderabad, the computer oriented Management Information System (MIS) for hospital was launched. Adequate infrastructure of Hardware, Peripherals and appropriate Software was provided to that computer station which included a pair of “486-server” along with 64 terminals located in Wards, Labs and Medical Record Department. All the dumb terminals at various locations were connected by the line-driver and RS-232 serial cable technology. A systems analysis for developing appropriate software for Hospital Information as well as for Administrative Information was carried out by the regional office of NIC, Hyderabad, by interacting with the concerned faculty and staff of JIPMER who in turn have been visiting NIC office, Hyderabad till the beginning of 1994. Subsequently a number of programme modules were developed for computerized registration of outpatients and inpatients; patient enquiry system at Reception; RICU events summary; OT lists; discharge summary reports; patients referral letters; Histopathology, Biochemical, Pathological and Microbiological Lab. Reports; entire activities of Blood Bank operation; data entry and processing of some other hospital units etc.

It was based on the experience of five years, that during the year 1998-99 project JICMIS (Jipmer Integrated Computerized Management Information System) was organized and initiated with an objective to integrate management information through Hospital Information System (HIS) Unit and Administrative Information System(AIS) Unit and their affiliated subsystems. The entire gamut of activities in the hospital area i.e. outpatients registration through MRD & inpatient care by Wards, OTs & Casualty, Pharmacy, Diagnostic & Lab services and the hospital administration including nursing care, CSSD, central stores and other allied services etc. were linked with HIS Unit. Whereas the important activities at the Institute level in Administration, Establishment, Accounts, Education and Research areas were to be coordinated by AIS Unit.

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Later in November 1999 the JICMIS organizational structure was further fine tuned to match physical infrastructure of the available facilities and as a result of that a separate Centre for Research and Academic Facilities and Training (CRAFT) was established in library building with objectives to promote CD-ROM, Internet, E-mail, Fax, Biometrical and research information services to extend computer facilities to all the academic departments; to facilitate computerization of library, literature search through computerized coding and indexing; and to provide computer training and orientation to the staff members.

**ORGANISATIONAL SETUP**

The performance of AIS, HIS & CRAFT is reviewed periodically by respective Advisory Committees lead by Vice-Chairmen viz., Director-Professor of Biometrics, Medical Superintendent & Dean. A combined annual review meeting takes place under the Chairmanship of Director, who is also the chairman of all the three committees, with the focus on functional status and performance of each unit. The administrative approvals of newer projects along with the decisions with regard to fund allocations to respective units for their developmental activities are taken care with a collective approach and in co-ordination with all the members. The flow-chart depicting the functional linkages for sharing information between AIS, HIS and CRAFT is outlined here under:-

**FLOW CHART**

*Administrative Information System*
EXISTING INFRASTRUCTURE

In its course of existence of around ten years AISU has acquired a set of five Servers, around 150 P.Cs (Standalone terminals or with network connectivity), 100 Printers including line matrix printer, heavy duty printers & laser printers and essential support peripherals like UPS, Networking switches, Photocopy machine. In recent past modular furnishing along with networking and telephone facilities for each terminal was achieved for the Bills Section (19 Nodes), Accounts & Budget Sections (15 Nodes) and Purchase Section (13 Nodes). In near future, it is proposed to extend the facilities of modular furnishing to all the Establishment and Estate sections along with further strengthening of Finance and Bill passing wing and also the up-gradation of official work space earmarked for supervisory staff and senior officials.

SERVICES PROVIDED

Administrative Information System Unit (AISU) has successfully been supporting computerization of various activities in Administration, Establishment, Finance & Accounts and Education Sections. The important tasks undertaken and established so far include the following:

- Computerized pay bills for all employees, GPF loan (withdrawal/advance), application process, issue of sanction order and preparation of bills, organisation of nominal rolls as a part of preparation of Budget documents – RE & BE wef 1999, Pay Commission and other arrears settlement.

- Service matters of the employees, various information and reports on the existing staff position, seniority lists, incumbency position, updating of various periodic reports and quarterly report transmission to the Ministry of Health and Family Welfare, Recruitment Rules and computerization of court cases.

- Bulk data entry and processing of undergraduate and postgraduate admission applications, conduct of entrance examinations & software implemented for preparation of Mark-sheet statement, Provisional Certificates, Degree Certificates, Attendance and periodic/semester examinations results for students.

- Bilingual data entry regarding Hindi implementation.

SOFTWARE MODULES DEVELOPED

**Recruitment:** Software has been developed and implemented for application process for recruitment of all Group A, B & C posts.

**Pay Roll:** The Pay Roll programming modules of pay bills, schedule of recoveries, pay slip, acquittance, bank statements, income tax calculations, tallying of non-government recoveries have been prepared by the National Informatics Centre (NIC).

**GPF module:** This includes data entry of details of application for GPF Advance/Withdrawal and reports on the requirement such as consolidated sanction order, individual sanction order, Note Sheet to be presented to the Director for approval and consolidated and individual bill for making payment.

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**Income Tax:** Issue of income tax certificate in Form No.16 and annual return in Form No.24, etc., to all the staff members.

**Personnel Information System:** Personal Information System software modules developed & implemented in Visual Basic with Access. This includes service matters of all employees various information viz., Existing employees details, Personal details, Service details, Recruitment Rules and reports on the Existing staff position, Relieved details, Appointment details etc.

**Cheque forwarding:** Software has also been developed and implemented for cheque forwarding to various firms and outside departments.

**STAFF**

Till date the institution has not been successful in getting I.T. specific posts created. All the three units namely AIS, HIS & CRAFT are being managed through computer oriented faculty and staff. In recent past the linkages between JIPMER and NIC, Puducherry for their support and co-ordination has been disrupted, and therefore, the situation warranted immediate outsourcing of skilled I.T. professionals for maintenance support of routine computerized functioning as well systems software development. It is proposed to hire adequate number of I.T. professionals on contract basis for all the three units till essential staff positions are created. Creation proposals for a few positions of I.T. professional like System Analyst, Programmers & Data Processing Assistants are pending for sanction of the Ministry.

**FUTURE PLAN**

At the beginning of the current financial year a critical review of computerized functioning of various sections in “Finance & Accounts Division”, “Establishment & Estate Sections” and “Academic wing” has revealed that there is an urgent need of creating independent “sub-systems” for the three wings of activities. Accordingly, under the purview of AIS two subsystems namely one for ‘Establishment & Estate’ and another for ‘Finance & Accounts’ were created. It is expected that in near future both the sub-systems will be established and would become functional to strengthen and expand the existing systems of computerized processing and information. It was also decided to separate the “Academic sub-system” from AIS setup, considering the fact that the Academic wing is directly supervised by Dean’s Office with support of Registrar. It is proposed to provide additional computers with modular furniture and networking facilities to all the units in the administrative wing along with the strengthening of Finance wing. Also, it is proposed to procure appropriate software for both the sub-systems to make them function independently.
**11.7.2 Centre for Research and Academic Facilities and Training (CRAFT)**

Additional Professor & Officer-in-Charge

R. Raveendran

**BACKGROUND INFORMATION**

The Centre for Research & Academic Facilities & Training (CRAFT) was formed in the year 1999 to cater the information technology (IT) needs of faculty members for carrying out research and other academic work.

**ADMINISTRATIVE HIERARCHY**

CRAFT is managed by Chairman, Vice-Chairman, Secretary/Officer-in-charge and members. Currently the CRAFT committee is formed by the following members:

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. KSVK Subha Rao Director</td>
<td>Chairman</td>
</tr>
<tr>
<td>Dr. KS Reddy Dean</td>
<td>Vice-chairman</td>
</tr>
<tr>
<td>Dr. Ajit Sahai Dir-Prof. Biometrics</td>
<td>Member</td>
</tr>
<tr>
<td>Dr. C. Adithan Prof. of Pharmacology</td>
<td>Member</td>
</tr>
<tr>
<td>Dr. S. Mahadevan Prof. of Pediatrics</td>
<td>Member</td>
</tr>
<tr>
<td>Dr. D. BasuAddl Prof. of Pathology</td>
<td>Member</td>
</tr>
<tr>
<td>Dr. R. Raveendran Addl. Prof. of Pharmacology</td>
<td>Member-Secretary cum Officer i/c</td>
</tr>
</tbody>
</table>

**SERVICES PROVIDED**

1. Providing IT equipment such as computers, printers and accessories to academic departments, faculty members and establishing common facilities/centres to provide academic services.

2. Providing Internet facility to academic departments, administrative sections. Hospital sections of JIPMER, Central Library, Nursing College and residential quarters in the JIPMER campus.


4. Announcing the course application details, entrance examination schedules, hall ticket information and results and also purchase-tender information on the website.

5. Conducting training programmes on statistics, research methodology, biomedical communication for faculty and resident doctors of JIPMER.

6. Institutional access to literature database services such as Ebsco and MDConsult is being provided through the academic computer network.

7. Providing Audio-Visual equipment to the academic departments.

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INFRASTRUCTURE

Hardware:
Wired network consisting of servers, PCs, laptops, network switches, routers, wireless equipment consisting of access points and bridges, cables and accessories.

Cables have been laid across the administrative building, Institute building, Hospital building, Casualty. A fibreoptic backbone runs across these buildings and about 1000 mt of CAT 5/6 cables have been laid to serve the departments and sections.

Software:
All servers are running under Linux and other open source software.

Data centre:
CRAFT has set up a ‘Data Centre’ in the super specialty block to manage the academic network and Internet and email services.

Currently about 10 servers are pressed into service for internet, email, bandwidth management, firewalling and website.

Website:
The JIPMER website server is located in the data centre. Website provides information about JIPMER and its services.

Wireless network:
Wireless network is established between the SS Block and the Nursing College. Campus-wide wireless network is in the process of being established. The wireless access points and bridges are installed all over the campus.

Bandwidth:
Currently a total of 31 Mbps Internet bandwidth is utilized. Out of this, 24 Mbps is provided by the BSNL and the remaining by the STPI.

STATISTICS FOR THE YEAR 2009-2010

New laptops have been purchased and distributed to addl professors and associate professors.

High-end desktop PCs were purchased and each dept was provided with 1-2 PCs depending on the needs of the department.

Each academic department was provided a laser printer.

Internet bandwidth was increased from 12 Mbps to 31 Mbps.

Two workshops on ‘Statistics’ and one on ‘PowerPoint Presentation’ were conducted for faculty and resident doctors of JIPMER.

A separate Data Centre was set up in the SS Block.
Wireless link to the Nursing College was successfully established to provide Internet facility to the entire nursing college premises.

New servers and wireless equipment were purchased and put in use.

ACHIEVEMENTS

Free, uninterrupted, high-speed Internet connection is provided to about 200 computers. In the past 7 years, EACH academic department has been provided with 3-4 desktops PCs, 2-3 printers, 1 laptop, 1 LCD projector, 1 photocopier.

So far 130 laptops have been purchased and each faculty member up to the level of associate professor was given a laptop and accessories.

All lecture theatres (numbering 6) were equipped with ceiling mounted LCD projectors and new audio sets consisting of wireless mikes and speakers.

The results of all entrance examinations and marks were announced promptly on the website for the last five years.

FUTURE PLANS

1. All assistant professors will be given a laptop each.
2. Campus-wide wireless network with mobility exchange will be established soon.
3. Use of SMS for mass communication is being planned and will be in place soon.
4. The Internet bandwidth will be doubled in the next two years.
11.7.3 Hospital Information System (HIS)

Chief Medical Officer & Officer-in-charge
Rajan Swain*

Computer Data Processor
T. Mahalingam

*CHS

The Hospital Information Services Unit (HISU) was formed to computerize the record-keeping of hospital and patients' information and manage a network linking all the hospital wards, OPDs, OTs, departments, ancillary services and the Office of the Medical Superintendent. Currently, the HISU has networked the important patient entry and service areas such as Medical Records Department, Admission Room, Emergency Medical Services Department, laboratories and ancillary services departments.

The HISU network functions using a hospital management information system (HMIS) software package that has been tailored to suit our hospital needs. The package is partially deployed and is expected to facilitate the medical record-keeping of the hospital vastly once it is fully deployed.

PERFORMANCE

During the past year, nearly ninety desktop computers have been procured and issued to various user areas. The majority of them are networked through the HIS network.

The HIS network has been extended to the departments of Pathology and Microbiology. It is being extended to other departments such as Biochemistry and Radio-diagnosis.

AUGMENTATION PLANS

- Setting up of a hospital-wide state of the art local area network for computerizing and interlinking of all the wards, OTs, OPDs, laboratories and departments.
- Procurement and commissioning of high-end servers, workstations and storage servers for the HISU with adequate back-up and redundancy so that hardware downtime is ZERO.
- Procurement and installation of client desktop computers in all the patient-care areas where they are required.
- Recruitment / outsourcing the services of information technology professionals like system administrator, network managers, hardware engineers & software engineers and data entry operators for keeping the HISU network running smoothly 24 x 7 x 365, with zero downtime.
The Central Sterile Supplies Department caters to the need for sterile materials for patient care, laboratory use and research in the entire hospital, the health centers and non-clinical departments. The main supply includes syringes, needles, IV sets, gloves, caps, masks, disposable aprons, dressing materials and treatment trays. Treatment trays and dressing materials are prepared, packed and sterilized in the CSSD before being supplied to various user areas. In addition, prepared and packed items like linen, instruments, syringes, solutions etc. from operation theatres and wards are also received and sterilized.

The CSSD has a floor area of 12,000 sq. feet and is located on the ground floor of the Pharmacy Block at the rear of the Hospital complex. The working hours of the CSSD are from 7-30 AM to 9-00 PM. The major work is done by the staff between 7-30 AM and 5-00 PM. A couple of staff are posted for supply of emergency needs of the wards after office hours upto 9-00 PM.

**EQUIPMENT**

Steam sterilizers: There are five steam sterilizers in the CSSD with a total capacity of about 120 cubic feet. The total volume of materials sterilized is about 500 - 600 cubic feet per day.

Ethylene oxide sterilizer: There is one ethylene oxide sterilizer with a capacity of about 10 cubic feet. The total volume sterilized is about 10 cubic feet a day.

Plasma sterilizer: The CSSD has recently procured a low temperature hydrogen peroxide plasma sterilizer as a replacement for the ethylene oxide sterilizer. It has the advantages of easy operation, rapid sterilization (about an hour, compared to 10 + 10 hours for ethylene oxide sterilization and aeration) and safety.

**AVERAGE DAILY TURNOVER OF SOME IMPORTANT MATERIALS**

<table>
<thead>
<tr>
<th>Material</th>
<th>Daily Turnover</th>
</tr>
</thead>
<tbody>
<tr>
<td>Syringes</td>
<td></td>
</tr>
<tr>
<td>Disposable (2, 5, 10, 20 and 50 ml)</td>
<td>5000</td>
</tr>
<tr>
<td>Reusable (assorted)</td>
<td>300</td>
</tr>
<tr>
<td>Gloves</td>
<td></td>
</tr>
<tr>
<td>Sterile disposable surgical</td>
<td>1000 pairs</td>
</tr>
<tr>
<td>Sterile disposable examination</td>
<td>2000</td>
</tr>
<tr>
<td>Unsterile disposable</td>
<td>2000</td>
</tr>
<tr>
<td>IV sets (disposable)</td>
<td>600</td>
</tr>
<tr>
<td>Dressing materials</td>
<td></td>
</tr>
<tr>
<td>Dressing bins (contain cotton, gauze and pads)</td>
<td>150</td>
</tr>
<tr>
<td>OT and ward packs</td>
<td>250</td>
</tr>
<tr>
<td>Treatment trays (20 varieties)</td>
<td>250</td>
</tr>
</tbody>
</table>
BUDGETARY PERFORMANCE
Total funds allocated for surgical items Rs. 4,50,00,000 
(for all items including cotton, gauze, bandages etc., mostly procured by the Pharmacy) 
Total expenditure booked by the CSSD Rs. 1,66,42,000 
Plasma sterilizer & accessories Rs. 53,00,000

SIGNIFICANT EVENTS
The Central Sterile Supplies Department conducted three workshops / seminars on sterilisation during the past year for the benefit of medical, nursing and technical staff.

AUGMENTATION PLANS
- Construction of a water pre-treatment plant to supply soft water to the sterilisers.
- Procurement and commissioning of instrument washing machines.
- Filling up of vacant posts and creation of new posts for expansion to the newly-built blocks.
- Procurement and commissioning of a cartridge-fed ethylene oxide sterilizer.
- Setting-up of satellite units of the CSSD in the new blocks of the hospital.
BACKGROUND INFORMATION

Establishment of the department
The dietetics department in the JIPMER was established in the year 1966 along with the hospital. The main aim of the department was to supply nutritious healthy food for the in – patient. The dietetics department supplies both therapeutics and normal diet to the patients.

Location
The dietetics department is located in the eastern side of the campus between pharmacy and the central store room. It is well connected with all the departments in the hospital, so it helps in easy distribution of diet to all wards.

List of equipments
The kitchen is equipped with the state of art cooking equipments. Equipment available in the department were:

- Steam operated cooking ranges containing 12 numbers of boiling vessels
- Gas operated cooking ranges
- Exhausts for ventilation
- Fresh air machine
- Walk in cold storage - 2
- Vegetable cutter – 2
- Steam idly cooker – 2
- Grinder (wet)
- Electrical milk heater
- Eggs boiler -1000 eggs can be boiled at a time
- Vegetable peeler – 2
- Whipping machine -1
- Tray washing machine

Future plans for installation of new types of equipments to minimize the workload are in process. Firewood for emergency purpose is also available in case of non-availability of electricity and gas.
**Menu**

**BREAK FAST:** whole wheat bread / Pongal/ Rava kitchedi/ wheat uppuma, Milk / coffee, butter/ jam & boiled egg.

**10 A.M:** Fruits, milk, sago payasam, veg.soup, chicken soup, sour lime, mixed cereal porridge, raw egg and biscuits.

**LUNCH:** Raw rice/ boiled rice, Vegetable sambhar, Vegetable poriyal, Green leafy vegetable curry (therapeutic & special diet), Curd rice. Egg / dhal / chicken for high protein.

**3 P.M:** Milk for children, tea and wheat payasam for therapeutic and special diet.

**DINNER:** Raw rice/ boiled rice/ wheat rice/ idlli, Sambhar, Poriyal, Extra poriyal (only for the therapeutic & special diet), Sundal.

**8 P.M:** Milk for children, therapeutic and special diet.

- Cereals and pulse mixed laddu for children are given thrice in a week.
- Chicken is given twice a week.
- Idly once in a week.
- Wheat rice for diabetic patients.

**SERVICES PROVIDED (2009-2010)**

1. Supply of nutrition health food for the indoor patients of the hospital according to the daily need of all patient given indent from wards, blood bank, animal house etc.,

   \[
   \text{Total number of indoor patient} = 1064 \\
   \text{Super specialty block} = 383 \\
   \{ 1447 \}
   \]

**Types of diets prepared normally in hospital**

a) Normal Diet  
b) Full Liquid Diet  
c) Soft Diet  
d) Bland Diet  
e) Salt Restricted Diet  
f) High CHO Diet  
g) High Protein Diet  
h) High CHO, Low Protein Diet  
i) High CHO, Low Fat Diet  
j) High Fiber Diet  
k) Diabetic Diet  
l) Diet for Burns Patients  
m) Special Diet  
n) Uremic Diet (Low Protein Diet)  
o) Low Residue Diet.

(Approved by DGHS)
1. **Academic Services Provided**

Conducting regular nutrition classes for the nursing I year students with practical classes (weekly 2 classes) No. of nursing students trained were 75 in 2009-2010.

2. Internship training for post graduate students for a month is given for each academic year. No. of students (24), from Pondicherry University and Barathidasan women’s college.

3. Conducted classes for MRT training (No. of trainees 9).

4. **Diet Counseling For The Patients**

   i. Tuesday – diabetic clinic in OPD SSblock.

   ii. Diet advice to needed patients as directed by the doctor (both indoor and out door).

   iii. Awareness program for well baby clinic (week days).

   iv. Regular ward rounds & diet counseling every day to indoor patients.

**STATISTICS OF THE YEAR 2009-2010**

- Total No. of indoor patient to whom diet is supplied for the year 2009-2010 is 414,820.
- Budget utilised/allocated for the year 2009-2010 is Rs. 1,60,00,000/-.

**Total No. of diet supplied to wards (month wise)**

<table>
<thead>
<tr>
<th>SL.No</th>
<th>MONTH</th>
<th>YEAR</th>
<th>DIETS</th>
<th>EXPENDITURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>April</td>
<td>2009</td>
<td>32,097</td>
<td>9,38,917</td>
</tr>
<tr>
<td>2</td>
<td>May</td>
<td>2009</td>
<td>33,703</td>
<td>11,06,912</td>
</tr>
<tr>
<td>3</td>
<td>June</td>
<td>2009</td>
<td>33,643</td>
<td>10,82,308</td>
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<tr>
<td>4</td>
<td>July</td>
<td>2009</td>
<td>35,592</td>
<td>11,64,271</td>
</tr>
<tr>
<td>5</td>
<td>August</td>
<td>2009</td>
<td>36,160</td>
<td>11,07,508</td>
</tr>
<tr>
<td>6</td>
<td>September</td>
<td>2009</td>
<td>34,770</td>
<td>11,75,060</td>
</tr>
<tr>
<td>7</td>
<td>October</td>
<td>2009</td>
<td>35,714</td>
<td>12,78,632</td>
</tr>
<tr>
<td>8</td>
<td>November</td>
<td>2009</td>
<td>35,423</td>
<td>11,69,261</td>
</tr>
<tr>
<td>9</td>
<td>December</td>
<td>2009</td>
<td>36,093</td>
<td>13,76,628</td>
</tr>
<tr>
<td>10</td>
<td>January</td>
<td>2010</td>
<td>34,621</td>
<td>12,69,818</td>
</tr>
<tr>
<td>11</td>
<td>February</td>
<td>2010</td>
<td>31,375</td>
<td>10,98,949</td>
</tr>
<tr>
<td>12</td>
<td>March</td>
<td>2010</td>
<td>35,629</td>
<td>12,16,703</td>
</tr>
<tr>
<td></td>
<td><strong>Annual total</strong></td>
<td></td>
<td>414,820</td>
<td>1,39,84,967</td>
</tr>
</tbody>
</table>

JIPMER 2009-2010 / 409
Table detailing the diet served per day (1218 diets / day)

| Diet                      | Amount (
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal</td>
<td>119</td>
</tr>
<tr>
<td>Milk &amp; bread</td>
<td>32</td>
</tr>
<tr>
<td>Fluid diet</td>
<td>132</td>
</tr>
<tr>
<td>High protein diet</td>
<td>835</td>
</tr>
<tr>
<td>Therapeutic diet</td>
<td>100</td>
</tr>
</tbody>
</table>

Therapeutic Diets
1. Diabetic diet
2. Uremic diet
3. Bland diet
4. High carbohydrate diet
5. Low fat diet
6. Elemental diet (burns)
7. High fiber diet
8. Low residue diet

Expenses for other heads
AMC & Maintenance
i. Tray washing service : 58,000/- per anm
ii. Solutions for tray washing : 1,00,000/- per anm
iii. Boiler service 2 Nos : 31,000/- per anm
iv. Light diesel oil : 1,50,000/- per anm
v. Gas range service : 6,000/- per anm
vi. Steam cooking range : 10,000/- per anm

(Without AMC)

SIGNIFICANT EVENTS
1. Modular teaching was conducted for MBBS students on “Health and Diseases” on 19, 20 and 21 of April, 2009.
2. Acted as a refreshment committee for hospital day celebrated on December 12, 2009 and provided refreshment to 650 participants.

FUTURE PLANS
1. Required budget provision for the new expansion programme such as child and maternity hospital with provision of 400 beds may be made, since the concerned new building are likely to function during the next financial year.
2. Planning to start short term training course in food service and management. (hospital diet oriented).
3. Planning to conduct a research works.
This Institute has a dedicated set up for the Rajbhasha (Official Language) Implementation in accordance to the official language act and rule.

**Hindi cell with the posts of Hindi officer and Hindi Translator** in this Institute is functioning with the objective of coordination and assisting administration in promoting progressive use and implementation of Official Language Hindi. This section undertakes all works related to translation which is required as per Official Language act and assists in preparing all relevant documents in bilingual form. It also coordinates in preparing database for the reports in the form of regular quarterly, half yearly & annual reports indicating progressive use of Hindi in this institute and its compilation and transmitting to the authorities concerned in Ministry & regional implementation offices.

There is **Official Language Implementation Committee** of this Institute. As per the schedule of official language rule, this committee holds meeting regularly at quarterly interval. It reviews the progress and proposes steps to be taken for further improvement in the implementation work in the Institute. To meet the requirement of **Annual Programme** of Official Language of Government of India all computers in the Institute are having facility of Hindi software and facility to work in bilingual form.

**Hindi library:** This institute has a rich collection of Hindi books. More than two thousand books in Hindi on the various subjects including technical, administrative matters and also on fiction are available in the Central Library. Every year new collection of Hindi books is also received from the Central Hindi Directorate, New Delhi. In addition a number of magazines of official language received from other organizations make the library rich in all the aspects for creating interest for learning Hindi.

An in house Hindi *Magazine* **ANUBHUTI** is being published from this Institute. This Institute continued to function as **secretariat of Town official language Implementation committee (TOLIC)** of Pondicherry and the Director of the Institute is designated Chairman of this committee. In accordance to official language rules this committee was constituted in 1986 for official language implementation in all offices of Central Government, Public sector/ undertakings, Banks and Insurances in Pondicherry. It has its Regional Implementation Office (South-West), at Cochin, Kerala, under Department official language, Ministry of Home Affairs, Government of India. Apart from holding regular biannual meeting to review and monitor the implementation work this committee has several achievements and awards at its credit towards its contribution in the promoting progressive use of official language in its member offices. It has honour of receiving the award of Rajbhasha shield in the year 1986-87 and again in 1994-95 from Ministry of Home affairs, Department of Official language, Government of India for the commendable work in promoting official language. It has set a high standard in its functioning and implemented several incentive schemes for promoting use of Hindi in all offices in Pondicherry. Under its auspices in the mark of Hindi day, every...
year a Hindi Fortnight is celebrated at this institute in month of September. This is most popular annual event in connection with activities related to official language. Several programmes and competitions in Hindi are organized and conducted during this occasion. Students of all schools, colleges and university of Pondicherry are also invited for participation. This innovative approach has made tremendous success in for propagating and promoting Hindi.

**Hindi Teaching Scheme**

This institute is designated as centre for Hindi teaching under the Ministry of Home Affairs Department of Official Language Government of India with its regional office of Hindi Teaching Scheme at Chennai. This caters the need of hindi teaching for all employees of Central Govt. Offices, Public Sector & autonomous bodies, Banks & insurance of Pondicherry. This centre has a lecture theatre for Hindi class room with the modern facility of audiovisual aids for Hindi teaching. Apart from regular Hindi classes, contact programme for correspondence courses are also conducted here.

In addition to these set ups regular workshops, and training programmes in official language work, translations, Hindi typewriting, etc are regularly organized at this Institute. During the period under report some of the important achievements and significant activities are as follows.

**CONFERENCES**

**Regional Conference on Official Language & Award distribution**

Under auspices of Department of Official Language Ministry of Home affairs Government of India & Regional Implementation Office (South west) Cochin, one day Regional official language conference and Rajbhasha award distribution was organized on 09-Oct. 2009 at JIPMER Auditorium Pondicherry. The Honorable Minister of state of Home Affairs, Sri Ajay Maken, The Chief Guest, inaugurated the conference and presented Rajbhasha awards to Heads of Government offices, Undertakings & Banks & Town Official Language Implementation Committees of this regions on this occasion. Around 400 delegates from Andhra Pradesh, Karnataka, Tamilnadu, Kerela, Puducherry and Lakshadeep participated in this conference.

**AWARDS**

1. Town Official Language Implementation Committee(TOLIC), Pondicherry has been adjudged third among the TOLIC of southern west region in promoting Official Language Implementation work in Pondichery.

2. Dr. K.S.V.K. Subba Rao, Director JIPMER & Chairman TOLIC Pondicherry, received the honour of Rajbhasha Shield award on the occasion of Regional official language conference & award presenting ceremony on 9-Oct. 2009 held at JIPMER.

3. Dr. MK. Srivastava, CMO, JIPMER & Secretary TOLIC was awarded commendation certificate on the occasion of Regional official language conference & award presenting ceremony on 9-Oct. 2009 held at JIPMER towards his contribution for promoting official language in the year 2008-09.
WORKSHOPS

1. One day Workshop on “working on computer in Hindi” was organised for the member offices of TOLIC, Pondicherry on 17.02.2009 at the Board Room, of JIPMER, Puducherry. A hands on training for working with Hindi Software was given to all participants on the occasion.

2. One day workshop on “Official Language rules and reports and working on computer in Unicode” was organized at JIPMER Auditorium on 04.03.2010 for the officers & employees of member offices of TOLIC, Puducherry. Detailed training on Official Language acts & rules, implementation work, role of language in functioning Govt. policy & working on computer in ‘Unicode’ mode was provided on this occasion.

TEACHING/TRAINING

During the period under report 64 Staffs of JIPMER enrolled for the Hindi training conducted by Central Hindi Directorate, Ministry of Home affairs, Hindi Teaching Scheme, New Delhi in correspondence courses.

LECTURES DELIVERED

1. Dr. K.S.V.K. Subba Rao, Director JIPMER & Chairman TOLIC delivered special address as special guest on the occasion of Regional Official Language Conference 9-Oct. 2009.

2. Dr. M.K. Srivastava, CMO & Secretary TOLIC delivered lecture on “Bhasha Sanskriti Samaj Aur Swasthya ek Vaigyanik Drishtikon” (Language, culture society and health; a scientific perspective) in one day Regional Official Language Conference held on 9 Oct.2009 at JIPMER Auditorium Pondicherry.


HINDI DAY/ HINDI FORTNIGHT CELEBRATION

On 14 Sept. 2009, Hindi day was observed as usual for every year. During the month of September, from 1st to – 15th, 2009 Hindi fortnight is function was organized at the Institutes. Various programmes & competitions in Hindi were organized on this occasion. Along with officers and staffs of member offices of TOLIC, students from all the schools, colleges & universities of Puducherry are also invited for participation. Around 350 participants took part in these competitions. Winners of these events was awarded with prizes & participation certificates to all participants was given on the occasion of the valedictory function held on 08.10.2009.

PUBLICATIONS

Magazine

ANUBHUTI (Hindi Magazine) continued publication, fourth issue released.

Journal

INTRODUCTION

In JIPMER geographical area is nearly 197 acres, the whole area being covered with Buildings, Garden and few grooves forest. Each building has its own landscape for beautification and pleasant atmosphere. The all greeneries will give peaceful mind to the patients who are taking treatment in our hospital.

We maintain gardens in the following places:

1. Opposite Admin. block.
2. Vesalius square.
3. Opposite M.S Office
4. Library
5. Saraswathy statue
6. Dhanvantari statue (Nursery)
7. Main entrance.
8. Median.
9. Opposite to super specialty block and inside SSB.
10. Block well
11. Directors bungalow
12. Regional cancer centre
13. Nursing college and Hostel
14. Gandhi park
15. Guest house I and II
16. Community Hall
17. Auditorium
18. Reception, Dhinker statue and Phase 3.
SERVICES PROVIDED

2. Maintenance of established garden.
3. Development and maintenance of Water Fountain in our campus.
5. Adopting micro irrigation system for conserving water. (Sprinkler system).
6. Development of Topiary garden.
7. Development and maintenance of park.
8. A forestation.
9. Training and pruning of all tree species in our campus.
10. Nursery development and maintenance.
11. Interior flower decoration.
13. Cultivation of cut flower (Gladiolus, Chrysanthemum) and other Annuals.

STATISTICS OF THE YEAR

1. Flower vase arrangement 3500 to 3600 Nos.
2. Bouquets 110 to 120 Nos.
3. Interior stage decoration 10 to 12 Times
4. Wreath arrangements 15 to 20 nos.

ACHIEVEMENTS/SIGNIFICANT EVENTS

1. Advance Tools and Equipments.
   i. Petrol chain saw – for training and pruning of trees.
   ii. Petrol Hedge trimmer – for edge cutting.
   iii. Electrical Hedge trimmer – for edge cutting.
   iv. Petrol Lawn mower – for Mowing Lawn.
   v. Battery operated sprayer – for spraying pesticides and fungicides.
   vi. Power tiller with truck – for transporting flower pots and manure.
   vii. Telescopic tree prunner – for cutting tree branches from the ground.
   viii. Sprinkler double nozzle – for sprinkler system of irrigation.
2. Water fountain
   i. Opposite M.S office.
   ii. Dhanvantari statue.
   iii. Auditorium.
3. Sprinkler System
   i. Opposite to MRD Garden.
   ii. Nursing college.
   iii. Mobile sprinkler Different variety.

FUTURE PLANS
1. Purchase of More number of playing equipments for Gandhi Park.
2. Purchase of Ride on Lawn mower for cutting grass.
3. Purchase of Tractor with Truck for Transport purposes.
4. Purchase of chipper cum shredder for grinding the plants waste to make organic compost.
5. Purchase of petrol operated Telescopic tree prunner.
6. Planting of tree sapling at least 2000 nos. by involving jipmer staff and students through each one planting One tree sapling an occasion of their Birthday.
7. Developing garden around the new guest house.
8. Installation of sprinkler system of irrigation to Auditorium garden.
11.12 Hostels

**Aschoff House Hostel**

Warden : C. Adithan, (Prof. & Head Department of Pharmacology)

Deputy Warden : K.C. Premarajan, (Addl. Prof. Department of Preventive and Social Medicine)

**Blackwell House Hostel**

Warden : Renuka Srinivasan, (Prof. of Ophthalmology)

Deputy Warden : Latha Chaturvedula, (Addl. Prof. of Obstetrics and Gynaecology)

**Curie House Hostel**

Warden : Renuka Srinivasan, (Prof. of Ophthalmology)

Deputy Warden : Latha Chaturvedula, (Addl. Prof. of Obstetrics and Gynaecology)

**Lister House Hostel**

Warden : C. Adithan, (Prof. & Head Department of Pharmacology)

Deputy Warden : K.C. Premarajan, (Addl. Professor Department of Preventive and Social Medicine)

**Osler House Hostel**

Warden : C. Adithan, (Prof. & Head Department of Pharmacology)

Deputy Warden : K.C. Premarajan, (Addl. Prof. Department of Preventive and Social Medicine)

**Harvey House Hostel**

Warden : Syed Habeebullah, (Prof. of Obstetrics and Gynaecology)

Deputy Warden : Deb Dutta basu (Addl. Prof. Department of Pathology)

**Nursing College Hostel**

Warden : S. Revathi, Principal, College of Nursing.

The Hostels are situated in the campus of the Institute. There are several halls for residents with capacity of 76 triple rooms, 207 double rooms and 529 single rooms.

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GENERAL FACILITIES

1. Hostel facilities are provided to MBBS, MD/MS, B.Sc., (MLT), M.R.T, M.R.O. and B.Sc., (Nursing) students. Hostel facilities are also provided to Senior Residents and Junior Residents (Non-Postgraduate).

2. The Hostel Rooms are spacious and well ventilated. The Hostels have recreation facilities, Sanitary facilities and 24 hours supply of good drinking water.

3. Security Personnel’s are provided to each hostel.

4. Medical facilities are provided free of cost by JIPMER.

5. Sports facilities for outdoor game such as Volleyball, Badminton, and Tennis are available. Adequate facilities are available for indoor games such as Table Tennis, Chess and Carom.

6. The Mess are run by students on dividing system basis and the Mess Committee oversees the functioning of the mess. The Committee members are selected by the way of election.

7. The hostels are maintained by the Central Public Work Department.

FUTURE PLANS

A new hostel complex with 7 blocks with a capacity of to accommodate 1079 inmates including Resident Doctors, Senior Residents, Nursing Students with common facilities such as Kitchen, Dining Room, indoor sports facilities is under construction at an estimated cost of Rs.55.50 crores.
A. LINEN

ACTIVITIES

Purchasing and distribution of linen materials to hospital and institute. Maintaining stock for stitched items i.e. Bed Sheet, Dhothi, Patient saree etc., and issuing them to laundry as replacement following condemnation or to wards to increase stock and as new stock. Maintaining stock for unstitched items and those items to be stitched from tailoring unit as part of the Linen Section and maintain account of linen issued to the tailors. Linen items (OT Gown, OT Vest, OT Pyjama, Patient Gown, Adult Shirt etc.) are issued to tailors for stitching as per schedule. After stitching by the tailors, entry is made in stock register.

Purchasing and distribution of linen materials for uniform to all class ‘D’ personnel (Nursing Attendant, Saffaiwala, Security Guard etc.) and coats for all doctors and aprons for technicians etc. Stitching in the tailor unit is done only for staff aprons. The uniforms of group ‘D’ personnel are stitched outside the institute and payment will be borne by the Linen Section.

In addition to hospital needs we also supply special stitched linen materials as and when needed for various academic, research and hospital activities.

We also supply linen materials on loan basis for official functions in the institute.

STATISTICS

Issued to hospital the year 2009-2010

Stitched items – 6,600 nos
(Bed sheet, Dhothi & Pt. Saree)

Unstitched items – 32,261 meters
(Popline, Casement, Kada etc.)

Uniform items – Male – 385 nos Female – 137 nos
(Wt.TC pant, Shirt, Wt.Saree etc.)

FUTURE PLANS

1. New sewing machines to be procured for the tailor unit.
2. Computerization of linen stocks.
3. Increasing tailor strength and working area for tailors.
B. LAUNDRY

LAUNDRY ACTIVITIES

1. Collecting soiled & wet linen materials from various wards located in old & new hospital.(Super speciality block).
2. collecting soiled & wet linen from OT'S.
3. Washing the received soiled linen with help of hot steam by adding washing soda, bleaching powder, and soap chips.
4. All the washed linen are completely squeezed with the help of Hydro extractor.
5. The squeezed linen are shifted to drying yard for drying in the open sunlight.
6. The dried linen are shifted to folding area for folding. While folding the torn linen will be separated from the good one for stitching.
7. After folding the linen will be packed and distributed to various ward & O.T's at their door steps.
8. Linen condemnation is being done monthly twice.
9. Laundry also receives soiled linen from various departments, labs for washing. The same will be washed and returned to them.

STATISTICS

1. Right now, we are supplying linen to 58 wards including 17 I.C.U's (i.e. daily issue wards). The supply is made on alternative days to the rest of wards.
2. We are issuing linen to 15 OT tables.
3. For wards, we are issuing more than 2500 pcs per day. For O.T's we are supplying 1500 pcs per day (weekly average) with monthly turnover of around 1, 10,000 pcs.
4. Equipments available:-

<table>
<thead>
<tr>
<th>Name of the equip., available</th>
<th>Capacity</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Washing machine</td>
<td>100 kgs</td>
<td>03 nos</td>
</tr>
<tr>
<td>b. Washing machine</td>
<td>50 kgs</td>
<td>01 no</td>
</tr>
<tr>
<td>c. Washing machine</td>
<td>15 kgs</td>
<td>01 no</td>
</tr>
<tr>
<td>d. Hydro extractor</td>
<td>50 kgs</td>
<td>02 nos</td>
</tr>
<tr>
<td>e. Boiler</td>
<td>0.5 ton</td>
<td>02 nos</td>
</tr>
<tr>
<td>f. Drying tumblers</td>
<td></td>
<td>03 nos</td>
</tr>
<tr>
<td>g. drying chamber (During rainy season only)</td>
<td>160 bed sheet/hr</td>
<td>01 no</td>
</tr>
<tr>
<td>h. Dryer</td>
<td>50 kgs</td>
<td>02 nos</td>
</tr>
<tr>
<td>i. Sewing machine</td>
<td></td>
<td>01 no</td>
</tr>
</tbody>
</table>
FUTURE PLANS

1. To establish a linen bank in Jipmer. It will work on under “Give & Take” policy.
2. Procurement of new equipments to meet out the forth coming workload.
3. Computerization of the linen accounts.
5. Arranging a systematic testing of washed linen materials to ensure the proper washing.
6. Provision of air extraction system in the folding and washing area of laundry block to ensure a pollution free working environment.
7. We propose to set up a water recycling plant in laundry to cut down the water Consumption.
8. We propose to install a solar power plant in laundry to save the power.
11.14 Medical Illustration Division (MID)

Professor & In-charge
Santosh Kumar

Assistant Professor of Educational Technology
Z. Zayapragassarazan

Technical Supervisor
Bharathi Balakumar

BACKGROUND INFORMATION

Medical Illustration Division was started in the year 1956. This is a centralized unit providing service to all the departments of the Institute and hospital. The administrative execution is under the Department of Medical Education. This division has two sections viz. Photography Section and Artist Section.

SERVICES PROVIDED

Photography Section
- Clinical photography for teaching and research.
- Photography of specimens.
- Recopying of presentation materials.
- Photography for inauguration of new services, farewell functions, seminars and conferences.
- Maintenance of albums, negatives etc. for future references.

Artist Section
- Clinical drawings.
- Illustrations.
- Posters and sign boards.
- Display arrangement for Medical Exhibition & Entrance Examinations.

STATISTICS OF THE YEAR

Photography Section
1. Institute functions : 91 Nos
2. Scientific society : 23 Nos
3. Passport photos : 65 Nos
4. Clinical & research photographs : 14 Nos
5. Issue of photography print : 520 Nos

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Artist section
1. Medical diagrams and drawings : 36 Nos
2. Posters : 280 Nos
3. Illustrations : 84 Nos
4. Sign boards : 40 Nos
5. Display arrangement : 400 Nos
6. Banner writing : 12 Nos
7. Medical exhibition display : 120 Nos

SIGNIFICANT EVENTS
Conversion to digital photography.

FUTURE PLANS
- Extension of digital photography.
- Establishment of digital studio and videography.
- Establishment of digital artist unit.
INTRODUCTION

In JIPMER Hospital Medical Records Department has been introduced since the inception i.e. on April 1966. This Medical Records Department is a Centralized System for preserving the Medical Records of Out-patient as well as In-Patient. By using the Unit Numbering System a single number is assigned to a new patient which is called Hospital Number. This number is common to all the department of the Hospital irrespective of whether the patient is out-patient or in-patient. There will be one series for both Male and Female out-patient section. The patient is provided only with a Hospital Number Card or Identity Card which should be retained by the patient. The same number is used by the patients for their subsequent visits.

SERVICES PROVIDED

A. Statistics

Periodical Monthly Statistical Report has been collected from various departments, the same has to be compiled and analyzed for preparation of Hospital Statistical Bulletin, which will be discussed in the Medical Care Review Meeting.

ANNUAL PERFORMANCE FOR THE YEAR 2009 - 2010

<table>
<thead>
<tr>
<th>Category</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total No. of New Cases</td>
<td>4,51,191</td>
</tr>
<tr>
<td>Total No. of Old Cases</td>
<td>9,53,198</td>
</tr>
<tr>
<td>Total No. of Old &amp; New Cases</td>
<td>14,04,389</td>
</tr>
<tr>
<td>Total No. of Admissions</td>
<td>64,331</td>
</tr>
<tr>
<td>Total No. of discharges</td>
<td>62,340</td>
</tr>
<tr>
<td>Daily Average no. of O.P. Attendance</td>
<td>4,760</td>
</tr>
<tr>
<td>Daily Average no. of I.P. Attendance</td>
<td>1,294</td>
</tr>
<tr>
<td>Daily Average Bed Occupancy Rate</td>
<td>117.2</td>
</tr>
<tr>
<td>Total No. of Operations</td>
<td>35,195</td>
</tr>
<tr>
<td>Total No. of Investigations</td>
<td>19,48,543</td>
</tr>
</tbody>
</table>
Total No. of Deliveries : 16,363
Total No. of Death below 48 hrs. : 742
Total No. of Death above 48 hrs. : 1,002
Gross Death Rate : 2.99 %
Net Death Rate : 1.70 %

B. Central Admission Office

Central admitting office will be functioning round the clock. The Staff members are posted to work in shift basis. This Office is manned by the Medical Record Technician, Medical Record Clerk and Messengers.

C. Reception (E.M.S. & Hospital)

The Reception is functioning round the clock at Emergency Medical Services Block (i.e., Casualty) as well as Ward Block on shift duties which is controlled by the Medical Record Department. In Reception all the emergency cases are registered and issued the respective case records to the patients.

D. Out-Patient Division

There are about 4,700 patients visiting to JIPMER every day to nearly 20 specialties and more than 25 special clinics which are introduced in the afternoon as per the schedule. The average admission per day is 170 and Bed strength 1550.

The patients who are all coming for treatment at first visit they can be categorized as New and Old. In new case registration counter the Medical Record Personnel’s are obtaining the particulars from the patient’s sociological data’s, nature of illness. The same Is fed into the Computer, the printed Short Term Card / Comprehensive Case Record (C.C.R.) with Identity Card are issued to the patient which has the patients’ details. Short Term Card is for acute conditions or five spells of attendance and it is valid for one year only.

The patients who are having complaints of Obst. & Gynecology and long term treatment like Tuberculosis, Cancer etc., they are issued a C.C.R. directly which is valid for 5 years. If the patient is admitted the same will be valid for 10 years.

In case, the patients lose their ID cards, the sociological data are collected from the patient, the Hospital Number will be traced out from the Alpha Index Card Cabinet / Computer, they will be issued a duplicate ID card for their further treatment by issuing old case record of the patient and directed for concerned services.

For the subsequent visits, the patient can get their record from the respective out-patient (counters) by submitting their ID Card to the patient guides. The patient guide enter the Hospital number in Patient Guide Register, date and service, unit in the tracer card and provide the respective record to the concerned patient. After completion of OPD services/treatment/consultations, all the records are collected by the Medical Record Messengers and sorted into Male and Female. The same records are arranged in a numerical order and filed in the permanent rack by the Medical Record Clerks. So when the patient comes to Casualty
(Emergency Medical Services) or OPD, the M.R.D. Staff can issue the respective records immediately without any delay.

All the Laboratory Reports, ECG Reports etc., are received from the various departments and mounted in the respective OP records by the Medical Record Clerks. The similar procedure is followed for mounting the laboratory reports daily.

E. In-Patient

Patient get admitted to the ward, as in-patient, their out-patient records along with the admission order are sent to the Admission Room. Under the control of M.R.D., the Admission Room is functioning round the clock. In the admission room every patient will be assigned in-patient / M.R.D. number for maintaining the in-patient records, the sociological data’s are verified and entered in the preliminary form and the same information is fed into the Computer. The printout has been taken in a set of forms such as Admission Record, Case Summary and Discharge Record, History & Physical Examination record, Laboratory Master, Admission and Discharge Order and the patient is directed to concerned ward.

Every day discharged records are collected by the Medical Record Technician / Census Clerk along with the previous day ward Census report which is prepared by the ward in-charge sisters. The In-patient records are sorted into OP & IP. The Xerox Copy of the Case summary is attached in the in-patient record. The original is retained in the out-patient record for future referral purposes.

The in-patient records are assembled in a standard chronological order and deficiencies are listed in the deficiency check slip and kept for completion of records in the Doctor’s Conference Room. The In-patient records are analyzed in the discharge analysis desk for statistical purposes such as Total admissions, total discharges, consultation, total deaths (under 48 hrs, over 48hrs) death percentage, total post mortem, average hospital stay, turn over interval, bed occupancy rate, infectious disease analysis and results etc.,

The same report will be submitted for monthly bulletin, the whole hospital statistics will be prepared by the Medical Record Personnel which is submitted for Medical Care Review meeting. All the in-patient records are sorted into service, unit wise and kept in the respective cub-boards at the Doctors’ Conference Room for completion of the records. Every discharged records are completed by the treating doctor before sending to the coding desk.

After completion, the records are coded as per the ICD (WHO) and indexed, which will enable us to retrieve the required information easily and quickly. All the records are sent to Complete Record Control Desk for verification whether the records are completed or not. If completed the same records are arranged into numerical Order and filed in the permanent rack. The records are supplied for readmission purpose, study, thesis, publication, research purpose etc. The Medical Record Officer in-charge/Medical Record Officer is the Member Secretary of the Committee.

The Statistics and care records are supplied to the doctors for attending Seminars/Conferences and their research works, theses purposes etc., necessary information are provided to the Administration as and when required for planning and other activities. Communicable and Preventable disease details and monthly return are sent to the Public Health Agencies for community intervention to take preventive and promotive measures.
All the records are systematically classified and categorized for easy retrieval. All in-patient records including M.L.C. & Expired are preserved by the Medical Records Department.

F. Medico Legal Cases

1. Total No. of MLC Cases
   a. With M.L.R. : 3699
   b. Without M.L.R. : 3557

2. Total No. of Autopsies : 680

3. Total No. of Medical Certificate Issued : 1636

4. Court Cases Attended by Dr. & M.R.T. : 81

A. Medical Care Review Meetings

Twelve Medical Care Review Meetings were conducted by every month during 2009-2010.

B. The Staff Members Were Undergone The Following Training Courses

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Name Of The Course</th>
<th>Conducted By</th>
<th>2009-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Medical Record Officer</td>
<td>C.B.H.I., D.G.H.S.</td>
<td>1</td>
</tr>
<tr>
<td>3.</td>
<td>Health Information Management</td>
<td>C.B.H.I., D.G.H.S.</td>
<td>3</td>
</tr>
<tr>
<td>4.</td>
<td>The Orientation on M.C.C.D.</td>
<td>Govt. of Pondichery</td>
<td>8</td>
</tr>
<tr>
<td>5.</td>
<td>Archive of Records</td>
<td>National Archive</td>
<td>1</td>
</tr>
</tbody>
</table>

C. Court Attendance

A total of 81 summons were attended by the Medical Record Personnel and Doctors in Pondicherry and Tamil Nadu.

ACHIEVEMENTS / SIGNIFICANT EVENTS

A. Digitization of Medical Records

During the first phase, the year 2009 In-Patient Medical Records are Digitized and in the second phase, previous years records will be digitized in due course of time.

B. Computerisation

Registration of new cases, admissions, census report and indices has been done through computer.

C. Establishment of Computer Laboratory

Establishment of Computer Laboratory is in progress for conducting the M.R.O. & M.R.T. Training programme.

D. The Staff members were participated the Workshop / National level Medical Record Conferences / Half Yearly Review Meeting and presented the papers on medical records.

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E. The Orientation will be given to the 21 Medical Record Technology Trainees from Karnataka states and 75 Nos of Interns (M.B.B.S.) of this institute about the departmental functions and outcome.

F. Orientation Programme on ICF:

A Orientation Programme has been conducted on 25<sup>th</sup> September 2009 at SS Block on ICF & FIC to the Medical Record Technician, Medical Record Officer, Statistical Assistant of the following Medical colleges / Hospital:

1. Indira Gandhi Government Hospital and Post-Graduate Institute
2. Government Maternity Hospital
3. Mahatma Gandhi Medical College & Hospital
4. Aarupadai Veedu Medical College & Hospital
5. Sri Venkateswara Medical College & Hospital

G. Education & Training Programme:

a. Apart from the patient and physician services this department is conducting the training courses like One year duration of Medical Record Officer Course and Six month duration of Medical Record Technician Course. The Certificates and Diploma for the above courses are issued by the CBHI, DGHS under the Ministry of Health and Family Welfare, Govt. of India, New Delhi.

Another B.M.R.Sc., Degree Course of one year duration was also conducted and Degree certificate issued by the Pondicherry University.

The Selection of Candidates for the training courses is done by the CBHI, New Delhi. The candidates are admitting to these courses on deputation basis. Other than JIPMER institute candidates are sanctioned the TA/DA and Rs. 125/- honorarium /day, the in-service candidates are not eligible. And the following numbers of candidates were successfully completed:

<table>
<thead>
<tr>
<th>Medical Record Officer No. of Candidate</th>
<th>Medical Record Technician No.of Candidates</th>
<th>B.M.R.Sc., No.of Candidates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan-June</td>
<td>July-December</td>
<td></td>
</tr>
<tr>
<td>64</td>
<td>158</td>
<td>152</td>
</tr>
</tbody>
</table>

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b. Half-yearly Review Meeting:

10th Half-yearly Review meeting was conducted at our institute by our Department. In this meeting the following Directors / Officers were participated.

1. Director, CBHI.
2. Joint Director of CBHI.
3. Deputy Director of CBHI.
4. Asst. Director of CBHI.
5. Sr. Regional Directors of Field Survey Units, of our Country.
6. Joint & Deputy Directors of Field Survey Units of our Country.
7. Sr. Regional Director of RHSTC, Mohali.
8. Section Officer, CBHI.
10. C.M.O & M.R.O. of Safdarjung Hospital, New Delhi.

FUTURE PLAN

A. Complete Computerisation

In the second phase, the hospital statistics will be generated through computer and entire department will be computerized and also gradually this department will function as a paperless department.

B. Digitization and Archiving

Digitization and Archiving of In-patient records of 2005 & 2006 are to be done
11.16 Medico-Social Services

Medical Superintendent & Senior Professor
Ashok Kumar Das

Deputy Medical Superintendent
A.Tumbanatham

Social Service Officer
K. Veeramani

BACKGROUND INFORMATION

JIPMER is well known for its service to the poor patients. JIPMER is a well equipped hospital with different departments in different specialties. There are 11 Medical Social Workers with Post Graduate Qualifications at JIPMER. The Medical Social Workers are acting as Liaison between Doctors and patients. Health education, Motivation and Counseling play a vital role for the patients having difficulty in following Doctor's instructions in order to get the best results out of treatment.

For the purpose of optimum utilization of the services of all the Medical Social Workers, they have been centralized with effect from 18 the March, 2009 and brought under the direct control of Medical Superintendent, JIPMER and supervised by Social Service Officer. This nodule point is known as Medico Social Services Wing (MSSW) and presently functioning in OPD block where all the services are immediately available, and the wing has been provided with Intercom telephone.

SERVICES PROVIDED

Through their scientific knowledge and skills the following essential services are rendered to all the patients of JIPMER Hospital:

1. Guidance and Help.
2. Counseling to Out patients.
3. Health Education and Motivation.
4. Bedside counseling to Inpatients.
5. Family intervention and Rehabilitation for inpatients.
6. Poor Patient’s Chest Fund for the procurement of life saving drugs and travelling expenses.
8. Networking with State, Central Government organization, NGOs and Private Donors.

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STATISTICS OF THE YEAR

1. Patients and their attenders are guided and helped in the OPD floors through the Help Desk of Medical Social Workers at all the floors of Out Patient department and in the Super Specialty Block.

2. An average of 1500/month Out patients were given Counseling in various departments.

3. An average of 600 Inpatient/month was given bedside Counseling and Health Education.

4. To promote the healthy living among the diabetic patients two Medico Social Workers are posted to work in the Diabetic clinic on all Tuesdays for the purpose of Health Education and Small Group approach. 100 to 120 / monthly new diabetic cases are given Health education, motivation and counseling. Psychosocial intervention and counseling for Neurology and Urology patients rendered during respective clinics (330 patients / month).

5. An average of 500 railway/bus concession certificates/month issued for eligible patients to travel back home after treatment. Bedside counseling, health education and issue of Railway Concession certificates are done daily in the Regional Cancer Centre in the afternoons.

6. Details of the Family Welfare Compensation:
   a. Amount received from National Rural Health Mission, Puducherry : Rs. 8, 49,900.
   b. Amount disbursed : Rs. 8, 40,700.
   c. Total Numbers of Beneficiaries received compensation : 1070
   d. Compensation claimed for Failure Sterilization : 5 cases

7. In the Department of Pulmonary Medicine 90 new T.B patients/month and 2 new HIV infected cases/month were given health education, motivation and counseling in the OPD, Wards and GHCD. Asthma patients were taught about life style modification and usage of Rotahaler.

8. About 238 STD and 26 HIV/AIDS patients/year were given health education, motivation and counseling.

ACHIEVEMENTS AND SIGNIFICANT EVENTS

1. A sum of Rs.67648 was utilized under Poor Patient Chest Fund for purchase of life saving drugs, appliances, investigations etc., by which about 59 patients were benefited.

2. Rashtriya Arokya Nidhi (RAN) arranged for Ortho Patients : 6 cases.
   Amout claimed : Rs. 1,97,000.

3. 8 abandoned babies were sent to the orphanages through the Social Welfare Department, Puducherry. Breast feeding Week was celebrated in August in the OPD and wards to emphasize the importance of the breast milk to the Mothers. Special home visits were made to the homes of the Mentally retarded children and educated the family members about the importance of special education and rehabilitation.
4. Conducted orientation sessions to the MSW students of Pondicherry University in September 2009. Classes conducted to MRT/MRO trainees of JIPMER. As part of Management and learning process 25 MBA students of Sri Ramachandra University, Chennai were permitted to visit JIPMER in January 2010. Shri.V.Janakiraman had taken them to various departments and explained their services in detail.

5. All the MSWs attended International conference on Autism in the Pondicherry University. Shri. P. Stalin Sundararaj and Shri.V.Janakiraman MSWs attended the National Conference on the theme “Professional Social Work in India – contribution to Welfare Dept” in Feb 2010 in Bharathidasan University, Tiruchirapalli.

6. The following items were arranged from the GOTHI Charitable Trust Puducherry with the co-ordination of MSSW, as Donation:
   a. 21" color Televisions of 4 numbers; two each for Pediatric Surgery and Neurosurgery, and General Surgery Wards.
   b. 11 numbers of cable T.V. connections; Surgery 3 Nos. Pediatric Surgery 2, Neurosurgery2, Pediatric 21 and Obs&Gyn, Orthopedics and CTVS each one.
   c. Tricycle for one Bilateral lower limb amputee.

FUTURE PLANS

1. Starting up of well-equipped IEC (Information Education and Communication) centre in the JIPMER hospital for the benefit of the patients;

2. Starting up of Family intervention centre;

3. Starting up of Orientation sessions on services of Medico-Social Services Wing to all the MBBS/Nursing students;

4. Training of different types of Paramedical personnel in the field of community health;

5. Centralized and computerized issue of travel (Bus/Train) concession certificates;

6. Fixing of few more Poor Patient Chest boxes in the prominent places (wards/OPDs) to raise the fund position for extension of monitory assistance to poor patients;

7. Priority for senior citizens/aged for consultation and treatment in OPD/Wards;

8. Lobbying with State Government of Puducherry for issue of Government Order to the Transport Department for Bus concession for deserving patients;

9. Formation of separate Cell to identify and locate the unknown patients/abandoned babies with the help of press and police;

10. Observing and celebrating the Days of importance of Health (ex: World AIDS day, World TB day etc.);

11. Creation of additional post of Medical Social Workers to meet the increasing demand of services;

12. Identifying the Philanthropists to help the poor and needy patients.
INTRODUCTION
The Nursing Services started with the establishment of “Ecole de Medicine de Pondicherry” by the French Government in the year 1823. In the year 1956 with the de facto transfer of Pondicherry, the Medical College was taken over by the Indian Government. The Medical College was upgraded to a Regional Centre with the name of JIPMER on 13th July 1964. The staff pattern of the Nursing Section includes 34 Assistant Nursing Superintendents, 2 Sister Tutors, 177 Nursing Sisters, and 507 Staff Nurses.

SERVICES PROVIDED
The nursing services are provided to all clinical departments and divisions, all wards in hospital and super-speciality blocks, all OPDs in hospital and super-speciality blocks, all OTs in hospital and super-speciality blocks, Trauma Care Centre, Regional Cancer Centre and related services and outreach camps in Karaikal.

The Nursing Wing also conducts Continuing Nursing Education Programmes for in-service nurses. The nurses are also deputed for workshops, CME Programmes and quiz programmes to other institutes.

STATISTICS OF THE YEAR
Training has been provided to institute nurses on Cath Lab and Dialysis.

Special Training classes have been arranged for Medical Record Officers. Nursing and Medical students.

We depute nurses for higher education courses like B.Sc. & M.Sc. nursing.

ACHIEVEMENTS.
We celebrate Nightingale day on May 12th with our JIPMER officials.

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Hospital Day was celebrated on 14th December 2009 and the best ward awards were given to the ICUs, wards and OPD’s.

Nightingale Award was given to our Nursing Staff by our President of India during the year 2009 on Nightingale day.

Staff Nurses from Paediatrics department attended quiz programme at Vellore and won the second prize.

**FUTURE PLAN**

We have a plan to modify our nursing section with modern facilities.

We are planning to conduct CME Programmes to update our knowledge in Nursing services in Hospital.
11.18 Pharmacy

Professor & Officer-in-charge
B. Gitanjali

Head Pharmacist
B. Kanagarajan

BACKGROUND INFORMATION

Department of Pharmacy is one of the important ancillary services, earlier called Dispensary traces its origin in 1823 in the Medical School called “Ecole de Medicine de Pondicherry” established by the French Government. In 1956, the Govt. of India took over the medical school and was called Dhanvandhry Medical College. Then the medical college was renamed as JIPMER. At present, The Department of Pharmacy is situated at the first floor of Pharmacy block with Pharmacy Office, Tablets Store, Injection Stores, I.V. Fluids & Medical Gas Store, Chemicals stores, Surgical & Disinfectant Stores.

The Out Patients Dept. Pharmacy is situated on the ground floor of the main OPD block equipped with six dispensing counters. The Staff and Students Pharmacy is situated on the opposite side with one dispensing counter. The Preparation and Analysis wing of the Pharmacy is situated on the opposite side of the OPD Pharmacy. The Super Speciality Pharmacy is situated on the ground floor of the Super Speciality block with six dispensing counters and a sub store for issue of IV fluids and surgical dressings.

Different committees

Drug Purchase Monitoring & Utilisation Committee (DPUMC)

This committee decides the list of drugs to be purchased, to whom to be distributed and rationing of drug quantity to be used, monitors drug utilization and supplier appraisal.

The committee consists of the following members.

Chairman : Medical Superintendent
Vice-Chairman : Prof & Head, Dept. of Pharmacology
Member : Prof & Head, Dept. of Pediatrics
Member : Prof & Head, Dept. of Cardiology
Member : Prof & Head, Dept of Anesthesiology
Member : Prof, Dept of Radiotherapy
Member : Prof, Dept of Medicine
Special Invitee : Purchase Officer
Member Secretary : Officer-in-charge of Pharmacy
Local Drug Purchase Committee (LDPC)

The life saving drugs made available for in-patients which are not stocked normally. This consist of following members

Chairman : Medical Superintendent/ Addl. Med. Superintendent.

Member : Prof & Head, Dept, of Medicine

Member : Prof & Head, Dept. of Surgery

Member : Prof & Head, Dept. of Obst. & Gynecology

Member Secretary : Officer-in-charge of Pharmacy

ACTIVITIES OF PHARMACY

Procurement of Drugs

Pharmacy Master Procurement list consists of 732 drugs. This includes tablets, Injections, I.V.fluids, surgical and dressing items, disinfectant fluids, chemicals, and medical Gases. Every year, the quantification of drugs is being done by the consumption method along with the requirement of the individual Departments. The Master Procurement List is compiled based on the WHO Essential drug List and JIPMER Essential Drug list and it will be submitted to the Drug Purchase Monitoring and Utilization committee (DPMUC) for approval, after which, the procurement will be made. The Procurement process constitutes the National competitive bidding, Request for tender quotation(double bid) Receipt of tender quotation, Preparation of comparative statements, Evaluation of specification, Evaluation of price bids, and Preparation of selection list which will be submitted to the Drug Purchase Monitoring & Utilization committee for approval. Preparation of purchase proposals, generation of supply orders to the selected contractors/firms, etc., will be done thereafter by pharmacy.

The budget allotted to the pharmacy department is Rupees 9.7 crores. This includes Plan, Non-plan and DGS&D rate contract.

a) Selection of Pharmaceuticals

The Essential Drug List using Generic or International Non-Proprietary names (INN) should be used as the basis for procurement. The DPMUC will decide the formulary list and approve purchase of non - formulary drugs. Selection of formulary drugs is carefully done to ensure safety & efficacy. This includes choosing appropriate dosage forms, preparation with exact specification, packing, ordering quantities based on the reliable estimates of actual needs like monthly consumption. Pharmaceutical usage review programme is developed to ensure the maximum patient benefits at the most economical basis.

b) Supplier selection and Quality Assurance

Prospective suppliers should be pre–qualified, and selected suppliers are monitored through a process, which considers product quality, service reliability, delivery time and financial viability. Procuring only registered products from reliable, licensed suppliers and manufacturers those comply with WHO - GMP and have good records of performance, market standing for at least three years, ensure that medicines procured, meet the required standard
of quality. The qualification of suppliers are checked by networking with other procurement agencies like ESI corporation, TNMSC, Chennai and Drug Control Authorities of the concerned states, obtaining all certificates and laboratory testing of drugs received.

c) Supply of Medicines

The onus is on the supplier or distributor to ensure that all legal requirements are met, when medicines or scheduled items are supplied. Suppliers and distributors should ensure that accounts are opened or agreements entered only for the purposes of sale of medicines and scheduled substances in the name of the legal entity (company, corporation partnership or sole proprietor) the contracts are specified with penalties for delayed supplies or default. Medicines are accepted with necessary documents like, certificate of analysis by the manufacturer (batch no, expiry date etc.) Detailed product specification, including quality standards (B.P, I.P, U.S.P), labeling, nomenclature and packaging, for imported medicines WHO certificate, an original import licenses should be enclosed.

SERVICES PROVIDED

Pharmacy Office

The Dept office will be responsible for the general administration of the entire department. The Head Pharmacist will be the overall in-charge. The generation of the purchase order, Monitoring of purchase activities, issue of reminder, receipt of bills and passing of bills, leave management, receipt of samples, vendor management, Documentation of records will be done here.

Tablet stores

In Tablet stores, there are 271 drugs stocked. This includes eye and ear drops and ointments. Two pharmacists are posted along with 2 helpers. The average indent issues per week are 130. The issues of drugs to the sub units and wards will be flooring wise, that is for 1st floor wards and OPD’s it will be on Monday, for 2nd floor wards it will be on Tuesdays and subsequently. The purchase proposal will be prepared by the pharmacists based on the monthly requirement and reorder levels, and It will be sent to the pharmacy office, for preparation of supply orders. Issue of Non availability certificates to the staff and students is done for the non stocked drugs. Inventory control management of drugs, Receipt of drugs as per the supply orders, quality and quantity issues if found, will be brought to the notice of the Officer-in-charge. The top five drugs procured in 2009-10, are Tab. Capecitabine Rs. 6,107,00/- Tab. Imatinib Rs.5,22,000/- Cap. Cyclosporine Rs. 432000/- Tab. Geftinib Rs. 2,32,000/- and Rotahaler for Salbutamol Rotacaps.Rs.2,18000/-. 

Injection Stores

There are 307 injections stocked in the stores. Three Pharmacists are posted in the injections stores. The average indents issued per week is 207. The issue of injection to the wards, Operation Theatres, Emergency medical department, and injection room are done floor wise and day wise. The purchase proposal is generated as per the monthly consumption basis and submitted to the pharmacy office for the generation of supply orders, and it will be sent to the purchase department. Non availability certificates will be issued to the SSHC beneficiaries. Receipt of drugs is done as per the specifications of the supply orders. In case of quality and
quantity issues noticed that will be brought to the notice of the Officer-in-charge of pharmacy time to time. The top ten costlier injections stocked as per the ABC/VEN analysis.

The top six drugs procured in the year of 2009 -10, was Inj. Human Mixtard Insulin Rs.2,86,902/-, Inj. Factor VIII Rs.2,24,280/- Inj. Meropenem Rs.3,69,824/- Inj. Filgrastim Rs.1,11,898/- Inj. Human Albumin Rs. 1,50,000/- Inj. IV. Immunoglobulin Rs. 4, 22,500/-. The Narcotic drugs around five numbers are stocked in the injection stores. These drugs will be issued only against the special dangerous drug indent, duly signed by the Head of the Dept / Consultant and the Officer-in-charge of Pharmacy or the Head Pharmacist/ Senior Pharmacist. Then, the signatures are verified with the specimen signatures. The narcotic drugs are purchased from the authorized firms after obtaining special permission from the concerned excise department. The top drug procured was Tablet. Morphine Rs. 1,08,000/- per year. Every month, narcotic drugs utilization accounts are sent to Assistant Commissioner, Food & Drugs Administration. Govt. of Puducherry.

**Surgical Stores**

In the surgical stores, there are 16 items stocked. One pharmacist is posted in the stores to look after weekly issues. The issue will be done once in a week (ie) on Wednesday. The average indents issued per week is 62. On an average, Rs. 80 lakhs was used for surgical dressing.

**Disinfectant and Chemical Stores**

There are 15 Disinfectant solutions and 30 chemicals stocked in the store. One Pharmacist is posted to look after the weekly issues of the disinfectants. In general every Friday is earmarked to issue disinfectants. On an average, 175 indents are issued per week. The annual budget for disinfectant fluids was Rs.40 lakhs.

**Local purchase**

The Department of Pharmacy has made an arrangement for emergency purchases of life saving drugs by entering into the rate contract with local chemists through local tenders, who offer maximum discounts on maximum retail price (MRP) subject to availability. The selection of firms will be approved by the Local Drug Purchase Committee. Any life saving drug or essential drug, whether not stocked in hospital pharmacy / not quoted in the tender or not listed in the tender is procured through the local purchase. The drugs will be purchased only after obtained the financial sanction from the Medical superintendent/Director. Total expenditure of Rs.16,73,996/- is utilized for local purchase of drugs. The Senior Pharmacist posted in the Pharmacy office will be in charge of local purchase. The costlier drugs purchased through local purchase in 2009-10, was Inj. Human IV Gamma Globulin is Rs. 7,88,000/-, L-Asparaginase is Rs 52,000/-, Inj.Surfactant Rs 138720/-, Inj. Meropenem Rs.37800/-Inj. Acyclovir is Rs 20,000/-, Inj. Oxaliplatin is for Rs.13,520/-. The IV Fluids and Medical Gas store are attached with the Injection Stores. One Pharmacist looks after the stores. On an average, 10 IV. Fluids are stocked in the stores along with 60 numbers of Nitrous Oxide and Oxygen A & B Type cylinders. There are 60 IV. Fluids indents.
and 17 medical Gas indents issued per week. The costlier items purchased was Inj. Sodium Chloride Rs. 2,67,456/-, Inj. Ringer lactate Rs.,1,65,100/-, and Inj. Dextrose 5 % Rs. 52,000/- per year.

Out Patients Departments

**OPD Pharmacy**

In the OPD Pharmacy, there are 120 drugs are stocked at an average of 3638 patients visit pharmacy daily. There are six dispensing counters for male, female, psychiatry, Pediatrics, TB & Chest diseases. Besides regular drugs, we are issuing 50 numbers of Ointments, Lotions, Liniment, Ear drops, Mixtures, Syrups, and Solution, which are prepared by our hospital pharmacy division. As per our Hospital policy, we are issuing 4 days drugs to all patients attended the OPD’s and 7 days drugs for all who have attended the weekly follow up clinics. 30 days drugs are issued for pediatric-psychiatry & neurology and all Tuberculosis and leprosy patients. Regular drug counseling is given to the needy patients. Every month the list of available drugs is being circulated to all OPD’s. The list of Not-available drugs is submitted to the Director/ Medical superintendent.

**Staff and Students Pharmacy**

There is a separate pharmacy for the JIPMER Staff their dependants, JIPMER students, Staff of CPWD and Central school. The staff & students Pharmacy is running beside the OPD Pharmacy. The average attendance per day is 230, There are 200 drugs stocked in the staff pharmacy. In the staff pharmacy drugs will be issued for 14 days for follow-up clinic patients and 5 days for the OPD patients. The SSHC beneficiaries are entitled for the reimbursement of drugs, which are not available or not stocked in JIPMER pharmacy.

**Preparation and Analysis wing**

This unit is situated near the OPD Pharmacy. There are 50 drugs are prepared in this section out of which, Most of the drugs are not available in the open market. Sometimes special drugs are also prepared based on the request of the consultants in the hospital. The annual budget for this section is approximately 5 lakhs per year. Some of the special drugs which are prepared in this section are Lugol's Iodine, Schol's solution, Jules's solution, Eusol, Glycerin tannic acid, Magsulph glycerin, etc.

**Super Speciality Pharmacy (SSP)**

The super speciality Pharmacy is situated in the ground floor of the super speciality block. Six dispensing counters are functioning every day. There are 115 drugs are stocked in the section. The average patient attendance is 1120 per day. Neurology, Neurosurgery, Plastic surgery, Neonatology, Urology, Clinical Immunology, Cardiology, Cardiothoracic and Vascular surgery, Medical Gastroenterology and Surgical Gastroenterology clinic patients are visiting the Super Speciality Pharmacy. At present, 4 pharmacists are posted along with 5 daily rated pharmacists. Besides the dispensing drugs, counseling is also being given to the needy patients. There is a sub store is running within the super speciality pharmacy for issue of dressing items and IV fluids for the wards of the super speciality block. The top10 drugs consumed in 09-10, was Hydroxychloroquine, Sulphasalasine Pyridostigmine, Cisplatin, Filgrastim, Cyclophosphamide, 5-lurouracil, Doxarubicil, Gemcitabine.

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STATISTICS OF THE YEAR 2009-10

Patients attended for OPD Pharmacy : 821708
Average attendance per day : 3638
Total Number of drugs Procured : 658
Annual budget allotted : Rs. 9.7 crores
(Including Plan, Non-Plan and DGS&D Rate contract)
Drugs purchased through Local Purchase : Rs. 16,72,996/-

ACHIEVEMENTS/ SIGNIFICANT EVENTS

Supply of Drugs

All the drugs issued to the patients are totally free of cost (except paying wards).

Insulin Issues

Every week 1200 vial of insulin is being issued to the patients attending the Diabetic Clinic. The Annual consumption of insulin is 57,600 vials. The financial sanction for insulin is rupees 30,00,000/-. 

Drug counselling

In the OPD and the Super Speciality Pharmacy Patient counselling is being given to the patients. The doubts regarding dosage, administration, drug interaction, drug and food interaction, Usage of Inhalers and Rotahalers are cleared in the counselling sessions. At least 20 patients are benefited in this session per day.

Monitoring drug quality

Quality of the drug is affected by the manufacturing process, packaging, transportation, storage conditions and other factors. Upon arrival, checking of the laboratory testing report of batch samples is undertaken and the following quality indicators are also being checked. Labels – missing, incomplete or unreadable labels, Non uniformity in packing, Level of liquid preparation in bottle packing, Discoloration, Cloudiness, Sedimentation, Dampness or moisture in the packing, Missing pills, Crumbled pills, Liquids not becoming suspension after shaking, etc. are monitored. If any quality problems found, it will be brought to the notice of the Officer-in-charge and this issue will be uploaded in our website. www.jipmer.edu/pharmacy. This project is supported by the WHO – SEARO India country office.

Walk-in-Cooler services.

In the Pharmacy Stores Block 2 walk in coolers are being installed for the cold storage management of the drugs. Day to day temperature is monitored for the best storage. There are 50 drugs stored in the walk in cooler. Insulins, Anti cancer drugs, Vaccines and sera, Anti thrombolytic agents are presently stored. The pharmacy stores are under process of Air conditioning.

JIPMER 2009-2010 / 440
Special Awards

The department of Pharmacy bagged The Best Ancillary Services Award during the Hospital Day Celebration held in the year 2009.

E-Tender

From 1st January 2010, we are accepting drug tenders through online to enhance transparency and speed.

FUTURE PLANS

1. To construct a separate pharmacy block consists of Pharmacy stores, Office, OPD’S and other pharmacy related services under one roof.
2. To establish a Drug testing laboratory as per the WHO standards.
3. To conduct Pharmacists state wise Orientation programme for pharmacists of Puducherry and Tamil nadu in Collaboration with WHO.
4. To start a community pharmacy to make drugs available at reasonably lower rates.
SPANDAN 2009 was organized from 5.10.2009 to 9.10.2009. In this various games like Badminton, Basketball, Chess, Volleyball for Both Men and Women, Football, Hockey, Table Tennis for Men and Throw ball for Women Tournaments were organized at JIPMER. More than Forty Medical and Non Medical Colleges from Various Parts of India had participated in both Sports and Culturals. Our JIPMER Teams Volleyball (Men) obtained First time winners, Badminton (Women) obtained First time Winners and Basketball (Men) obtained Runners, Chess team obtained Runners, and Throw ball (Women) obtained first time Runners in the All India Tournament.

In the Pondicherry University's Inter-Collegiate Tournament for the year 2009, our JIPMER Basketball (Men) Team obtained Winners in the Tournament. They received Rolling Trophy and Certificates on 12.9.2009. This is second time we received the Rolling Trophy consecutively in the History of Pondicherry University Basketball Tournament.

Mr. Dhayaguruvasan II year MBBS had participated in the South Zone Inter-University Table Tennis Tournament for (Men) which was organized by Dr. N.T.R. University, Vijay Wada, Andhra Pradesh for the year 2009-2010.

New Volleyball and Badminton Playgrounds have been made for nursing students at Nursing College for the year 2009-2010.

Mr. R. Murugesan, Physical Instructor had participated as one of the organizing committee member in the South West Zone Inter University Football Tournament (Women) which was organized by the Department of Physical Education and Sports, Pondicherry University for the year 2009. He presented papers on “Yoga as Lifestyle for Women and Children Health” in the First National Conference on Yoga for Children and Women Health and Value Education organized by Kadambini Women’s College of Education, Purba Medinapur, West Bengal on 15.10.2009 and 16.10.2009. He also presented a paper on “Yoga Enhances Athletic Performance” in the international conference on “Application of Science, Engineering and Technology in Sports”, organized by M.A.M. Engineering College, Trichirappalli, Tamilnadu on 7th and 8th December 2009.
11.20 Printing and Stationery

Private Secretary & In-charge
A. Rajavelu

ADMINISTRATIVE HIERARCHY

The productivity shop-floor and the stationery wing is coordinated and controlled by the Manager - Press. Due to the absence of Manager the department was functioning under the Officer-in-charge Shri A. Rajavelu, Private Secretary to Medical Superintendent since July 2008.

BACKGROUND INFORMATION

The department of Printing and Stationery was started in the year 1967 with 3 staff. Now this division has a strength of 14 staff and a Manager.

SERVICES PROVIDED

The Main task of this productivity unit is to print and supply of various forms for smooth run of Institute and Hospital in connection with the patient care services. All registers which are the prime needs of this institute is also supplied by the binding unit of this department.

In addition to that this department plays a major role in releasing of JIPMER NEWS once in every 2 months and Institute Calendar every year in multi colour. This division is also coordinating in supplying forms and stationeries to the Academic wing especially Examination wing.

Apart from all these activities utmost care is taken in supplying of Rubber Stamps in Hindi & English and displaying Vinyl Board to the whole Institute and Hospital.

Stationery division procures and supplies various stationeries items which are required for the day today function of the institute and hospital.

STATISTICS OF THE YEAR

About 30 lacs of Patient Care forms in 75 different kinds are supplied to Medical Records Department, other Clinical services and administrative sections.

ACHIEVEMENTS/SIGNIFICANT EVENTS

Previously most of the printing works were carried at Government of India Press, Coimbatore and Calcutta. From the recent years 90% of our need is fulfilled by this unit. The orthodox method is shortly vanishing and new trends/process is entering step by step.
The Printing House is equipped with Heavy Duty Platen Machine, Sheet-fed Offset Machine, Automatic Paper Cutting Machine, Digital Copy printer and so on.

**FUTURE PLANS**

The latest machinery and manpower has to be added to this department for the better service of this department. The need of this institute will be very high in the forthcoming years due to the development of this institute. Hence the staff of this department has to be streamlined so as to enable this department to be the best Ancillary Service of this institute.
11.21 Sanitary Unit

Sanitary Superintendent
Malla Krishna Rao

HISTORY
The Sanitary units of JIPMER Hospital was established with Three Sanitary Inspectors with limited Staff Pattern to cater for a limited area. Later, due to extensive and specialized services rendered, the beneficiaries became enormously more. To cop up with the growing population of patients and area, the Sanitary Unit is also extended as mentioned above.

OBJECTIVE
The main aim and objective of the Sanitary Unit of JIPMER Hospital is to keep the general Sanitation of the Hospital, Hostels, Residential Quarters and Institute area up to the mark.

DISPOSAL
Hospital Waste Materials are collected, stored, transported and disposed off hygienically as per the guidelines of bio medical waste management programme in tricolor bags which is implemented successfully under the chairmanship of the Medical Superintendent. To ensure this the staff concerned are trained at regular intervals.

New hygienic way of transporting the Hospital waste materials in wheeled fiber glass trolleys is introduced in place of old method.

An incinerator with the capacity to burn 120 kg of waste materials in an hour with the temperature of 850\(^\circ\)C to 1150\(^\circ\)C is functioning for safe disposal of Hospital infective waste materials. A chimney with the height of 100 feet is attached to the incinerator to see that the atmosphere around the area doesn’t get spoiled due to the emission from the chimney. It is under the surveillance and guidance of the State and Central Pollution Control Board.

SEWAGE AND WATER TREATMENT
To provide potable water 35,00,000 liters of water is being treated with chlorine in a day. Safe and protected water is being supplied to the inmates of Campus, Hospital and the Hostel. A full-fledged effluent treatment plant is functioning within the Campus to treat 25,00,000 liters of liquid and solid waste before it is sent out of Campus.

STERILIZATION PROCEDURE
Preplanned and scheduled fumigation process in OT’s, MOT’s, Dressing Rooms and Isolation Rooms etc, are being carried out using quick and short time chemicals in an hour in place of age old fumigation procedure with formalin which needs at least 24 hours to complete the procedure.

JIPMER 2009-2010 / 445
OUTSOURCING

As per the policy of the Central Government cleaning and Sanitation of the Campus and the area round Hospital premises is outsourced. It is under the effective Supervision of the Sanitary Inspector, Campus Sanitary Unit.

STUDENT'S TRAINING

Training is being imparted to the students of M.B.B.S., B.Sc., Nursing and B.Sc., M.L.T., of JIPMER and other institutes from Government of Pondicherry as well by the Senior Sanitary Staff regarding Sanitation and bio medical waste Management Programme.

RURAL HEALTH

One Sanitary Inspector is posted exclusively for rural Health Centre. He concentrates on preventive and promotive health services to poor village mass. Age wise immunization like TAB, ANTI-CHOLERA and TT for School going children is taken care of by him. He is involved him Medical Student’s Training in community medicine.

COMMUNITY HEALTH

Mobile rural Health Camps are arranged through PSM Department in which the male Health Supervisor place a major role. He imparts training to the Medical Students of the PSM Department in the field of Health and Sanitation.

FUTURE PLAN

There is a proposal to mechanize all the cleaning activities, fumigation and chlorination process, replacing the age old methods practiced now. The Sanitary Inspectors are to be given exposure in latest technologies of Sanitary activities by observing different Private and Government Institutions in India and abroad as well, to improve the Sanitary Units of JIPMER Technically.
BACKGROUND INFORMATION

JIPMER security section is overall in charge of the security of the JIPMER hospital and campus. The security section started functioning from the inception of the Hospital in the year 1957. It has started with the strength of 42 security guards in 1957 and it was increased to 105 which included 82 regular and 30 temporary security guards in 1995. At present, with regular superannuation of the staff and without replacement due to ban on recruitment of group ‘D’ posts the number of security staff has come down to 41. In order to augment the dwindled strength outsourcing of security personnel has been started for certain areas of the hospital.

SERVICES PROVIDED

Round the clock watch and ward of the hospital and the campus.

Checking the incoming and outgoing articles and Equipment.

Checking the all newborn going out of the hospital to ascertain mother and child are as per the records and having matching wrist bands’ this is done to prevent baby thefts.

Bringing the unattended and destitute patients lying in the hospital premises to the casualty.

Informing the police and casualty medical officer about any unidentified body found inside the hospital premise.

Crowd control in the event of mass casualty.

FUTURE PLANS

1. With the growth and expansion of the JIPMER hospital there is acute need to revamp the security setup hence steps have been taken to install continuous close circuit TV monitoring system inside hospital and the campus.

2. Introduction of Radio frequency wrist bands to mother and child to prevent baby thefts from the labor room.

3. Procuring walk through metal detector and hand held metal detectors to be used at the main entrances of the hospital to enhance the security setup.
The Vigilance cell has been active in investigating the complaints received on alleged employees of JIPMER by Vigilance Officer. The Vigilance Officer has investigated by adopting various procedures in collecting evidence relevant to the complaint. After the thorough investigation the Vigilance Officer has submitted his reports to the Director, JIPMER for necessary action. The cases referred to by Central Vigilance Commission (CVC) have been sent to CVC, New Delhi.

**VIGILANCE AWARENESS WEEK**

The Vigilance awareness week was observed in this Institute and Hospital. (from 3.11.2009 to 7.11.2009) as desired by Central Vigilance Commission, New Delhi. As far as this institute was concerned the following measures were taken in connection with the above programme:

1. A Circular was issued to all departments and ancillary units of this institute incorporating the various suggestions as recommended by the Central Vigilance Commission.
2. Banners on the observance of the “Vigilance Awareness Week” in this Institute and Hospital were displayed in the prime locations.
3. The general public, patients and visitors were informed about the complaint mechanisms available in case they were insisted on paying bribe or adopting corrupt practices.
4. The contact telephone number, e-mail address of Vigilance Officer were displayed at prominent places in the premises and also at the JIPMER website for easy access.
5. Employees of the institute and hospital took pledge on this week and a report was sent to the DGHS (A & V section), New Delhi.

As a strategy to fight corruption it was an imaginative way of packing the message adopted by providing freedom and access to information. The Vigilance Awareness Week was, therefore, a successful programme in fighting corruption.
12. FINANCE DIVISION

Faculty-in-charge
C. Adithan

Finance & Chief Accounts Officer
R. Viswanathan

Accounts Officer
K. Kannaiyan

The Institute gets grants under the Heads ‘Plan’ and ‘Non-Plan’ from the Government of India, Ministry of Health and Family Welfare. In addition, Plan grants are received for Drug De-Addiction, Central Bureau of Health Intelligence (CBHI), New Delhi. 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 grants received from the Government of India are further allocated to Super-Specialties Centers/Departments/Research Projects as per their projections/requirements.

Finance Wing 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, payment of personal claims, to Faculty and Staff in respect of the employees of the Institute. At the time of effecting the payments, all checks which have been prescribed by the Government of India are being exercised by the respective DDO, AAO’s.

All the above works are executed by the Finance and Chief Accounts Officer (F&CAO)/Accounts Officer under the overall control of Faculty-in-Charge (Finance & Accounts).
### BALANCE SHEET AS AT 31st March 2010

**CORPUS/CAPITAL FUND AND LIABILITIES**

<table>
<thead>
<tr>
<th>Schedule No.</th>
<th>Current year 2009-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4606788645.91</td>
</tr>
<tr>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>54677878.00</td>
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<tr>
<td>4</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
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<td>6</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>357846154.01</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td>5019312647.92</td>
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</table>

**ASSETS**

1) **FIXED ASSETS**

<table>
<thead>
<tr>
<th>Schedule No.</th>
<th>Value</th>
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<tbody>
<tr>
<td>8</td>
<td>4170090547.00</td>
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<tr>
<td>9</td>
<td>310072250.29</td>
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<tr>
<td>10</td>
<td>3860018296.71</td>
</tr>
<tr>
<td>11</td>
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<td><strong>TOTAL</strong></td>
<td>5019312647.91</td>
</tr>
</tbody>
</table>

Significant account policies and notes on accounts

<table>
<thead>
<tr>
<th>K. Kannaiyan</th>
<th>R. Viswanathan</th>
<th>Dr. K.S.V.K. Subba Rao</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounts Officer</td>
<td>Finance &amp; Chief Accounts Officer</td>
<td>Director</td>
</tr>
<tr>
<td>JIPMER, Puducherry</td>
<td>JIPMER, Puducherry</td>
<td>JIPMER, Puducherry</td>
</tr>
</tbody>
</table>
## INCOME AND EXPENDITURE ACCOUNT

FOR THE YEAR ENDED 31st MARCH 2010

<table>
<thead>
<tr>
<th>INCOME DETAILS</th>
<th>Schedule</th>
<th>PLAN NO.</th>
<th>NON PLAN</th>
<th>Current year 2009-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Income from Sales &amp; Services</td>
<td>12</td>
<td></td>
<td>0.00</td>
<td>20,392,268.00</td>
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<tr>
<td>Grants / Subsidies</td>
<td>13</td>
<td></td>
<td>1,150,000,000.00</td>
<td>1,600,000,000.00</td>
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<tr>
<td>Income from Fees/Subscriptions</td>
<td>14</td>
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<tr>
<td>i) Misc Receipts</td>
<td></td>
<td></td>
<td>30,091,402.00</td>
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<tr>
<td>ii) Hospital Receipts</td>
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<td>7,099,603.00</td>
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<tr>
<td>iii) Guest House Receipts</td>
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<td>172,434.00</td>
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<tr>
<td>iv) Receipt through Bank</td>
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<td>20,392,268.00</td>
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<tr>
<td>CBHI</td>
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<td>Drug - De – Addiction</td>
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<td>Recovery Account</td>
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<td>37328639</td>
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</tr>
<tr>
<td>a) Academic Fund SB A/C No.30586618233</td>
<td></td>
<td></td>
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<td>16,472,286.00</td>
</tr>
<tr>
<td>b) Academic Fund SB A/C No.30506194792</td>
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<td>TOTAL (SCHEME - 14)</td>
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<td>969843646.00</td>
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<tr>
<td>Income from Investments</td>
<td>15</td>
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<tr>
<td>Income from Royalty / Publications etc.</td>
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<tr>
<td>Interest Earned</td>
<td>17</td>
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<td>a) Academic Fund SB A/C No.30586618233</td>
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<tr>
<td>b) Academic Fund SB A/C No.30506194792</td>
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<td>103482</td>
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<tr>
<td>Total Interest Earned</td>
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<td></td>
<td>634450</td>
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<tr>
<td>Other Incomes</td>
<td>18</td>
<td></td>
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<td>0.00</td>
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<tr>
<td>Increase (decrease) in stock(Medicine)</td>
<td>19</td>
<td></td>
<td>0.00</td>
<td>0.00</td>
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<tr>
<td>TOTAL INCOME (A)</td>
<td></td>
<td></td>
<td>1,246,984,306.00</td>
<td>1,623,359,372.00</td>
</tr>
<tr>
<td>DETAILED HEAD</td>
<td>Schedule</td>
<td>PLAN NO.</td>
<td>NON PLAN NO.</td>
<td>Current year 2009-10</td>
</tr>
<tr>
<td>--------------------------------------</td>
<td>----------</td>
<td>-----------</td>
<td>--------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>Establishment Expenses</td>
<td>20</td>
<td>281,022,149.00</td>
<td>911,906,184.00</td>
<td>1,192,928,333.00</td>
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<tr>
<td>Others Administrative Expenses</td>
<td>21</td>
<td>634,743,532.00</td>
<td>350,635,688.00</td>
<td>985,379,220.00</td>
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<tr>
<td>Exp.Grants/Subsidies etc</td>
<td>22</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>INTEREST.</td>
<td>23</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Depreciation (Net corresponding to Schedule 8)</td>
<td></td>
<td>0.00</td>
<td>310072250.29</td>
<td>310072250.29</td>
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<tr>
<td>TOTAL EXPENDITURE (B)</td>
<td></td>
<td>915,765,681.00</td>
<td>1,572,614,122.29</td>
<td>2,488,379,803.29</td>
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<tr>
<td>Balance being Surplus carried to corpus/ Capital Fund (A-B)</td>
<td></td>
<td>331218665.00</td>
<td>50745249.71</td>
<td>381963914.71</td>
</tr>
<tr>
<td>Significant Accounting Policies and Notes on Account</td>
<td>24</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

K. Kannaiyan
Accounts Officer
JIPMER, Puducherry

R. Viswanathan
Finance & Chief Accounts Officer
JIPMER, Puducherry

Dr. K.S.V.K. Subba Rao
Director
JIPMER, Puducherry
<table>
<thead>
<tr>
<th>SCHEDULE 1:</th>
<th>(Amt-Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CORPUS/CAPITAL FUND:</td>
<td>Current year 2009-10</td>
</tr>
<tr>
<td>Balance at the Beginning of the year 01-04-2009</td>
<td></td>
</tr>
<tr>
<td>A. Opening Bank Balances as on 01.04.2009</td>
<td>14578177.00</td>
</tr>
<tr>
<td>B. Value of Fixed Assets as on 01-04-2009 (Net)</td>
<td>3593149058.00</td>
</tr>
<tr>
<td>Total Opening Balance</td>
<td>3607727235.00</td>
</tr>
<tr>
<td>Add Contribution towards corpus / Capital Fund</td>
<td></td>
</tr>
<tr>
<td>1. Fixed Asset added during 2009-10</td>
<td>576941489</td>
</tr>
<tr>
<td>2. Loans and advances</td>
<td>3655933.00</td>
</tr>
<tr>
<td>3. Inventories as on 31.03.2009</td>
<td>30252204.00</td>
</tr>
<tr>
<td>4. Sundry Debtors</td>
<td>6232920.00</td>
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<tr>
<td>5. Frankling Machine Balance</td>
<td>14950.20</td>
</tr>
<tr>
<td>Total (1 To 5)</td>
<td>617097496.20</td>
</tr>
<tr>
<td>Add/(Deduct): Balance of net income transferred from the</td>
<td></td>
</tr>
<tr>
<td>Income &amp; Expenditure Account</td>
<td>381963914.71</td>
</tr>
<tr>
<td></td>
<td>381963914.71</td>
</tr>
<tr>
<td>Balance at the year end 31.03.2009</td>
<td>4606788645.91</td>
</tr>
<tr>
<td>DETAILS</td>
<td>Current year 2009-10</td>
</tr>
<tr>
<td>--------------------</td>
<td>----------------------</td>
</tr>
<tr>
<td>1. Capital Reserve:</td>
<td></td>
</tr>
<tr>
<td>As per last Account</td>
<td>0.00</td>
</tr>
<tr>
<td>Addition during the year</td>
<td>0.00</td>
</tr>
<tr>
<td>Less: Deductions during the year</td>
<td>0.00</td>
</tr>
<tr>
<td>2. Revaluation Reserve:</td>
<td></td>
</tr>
<tr>
<td>As per last Account</td>
<td>0.00</td>
</tr>
<tr>
<td>Addition during the year</td>
<td>0.00</td>
</tr>
<tr>
<td>Less: Deductions during the year</td>
<td>0.00</td>
</tr>
<tr>
<td>3. Special Reserve:</td>
<td></td>
</tr>
<tr>
<td>As per last Account</td>
<td>0.00</td>
</tr>
<tr>
<td>Addition during the year</td>
<td>0.00</td>
</tr>
<tr>
<td>Less: Deductions during the year</td>
<td>0.00</td>
</tr>
<tr>
<td>4. General Reserve:</td>
<td></td>
</tr>
<tr>
<td>As per last Account</td>
<td>0.00</td>
</tr>
<tr>
<td>Addition during the year</td>
<td>0.00</td>
</tr>
<tr>
<td>Less: Deductions during the year</td>
<td>0.00</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>0.00</strong></td>
</tr>
</tbody>
</table>
### Schedules Forming Part of Balance Sheet for the Year Ended 31-03-2010

#### Schedule 3: Earmarked/Endowment Funds

<table>
<thead>
<tr>
<th>DETAILS</th>
<th>(Amt-Rs)</th>
<th>Current year 2009-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Opening balance of the funds:</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>1. Specific Fund</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Opening Balance</td>
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<tr>
<td>SBI A/C No.10100030209</td>
<td>4151879</td>
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<tr>
<td>BOB A/C No.98340200000001</td>
<td>4440343</td>
<td></td>
</tr>
<tr>
<td>SBI A/C No.30832711903</td>
<td>0</td>
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<tr>
<td>Opening Balance Total</td>
<td>8592222</td>
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<td>Receipts</td>
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<tr>
<td>SBI A/C No.10100030209</td>
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<td>BOB A/C No.98340200000001</td>
<td>4984192</td>
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<tr>
<td>SBI A/C No.30832711903</td>
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<td>Receipts Total</td>
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<tr>
<td>Expenditure</td>
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<td></td>
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<td>SBI A/C No.10100030209</td>
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<td>BOB A/C No.98340200000001</td>
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<tr>
<td>SBI A/C No.30832711903</td>
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<td>Expenditure Total</td>
<td>22281952</td>
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<td>Closing Balance</td>
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<td>SBI A/C No.10100030209</td>
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<td>SBI A/C No.30832711903</td>
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<tr>
<td>Closing Balance Total</td>
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</tr>
<tr>
<td>i. Donations/Grants</td>
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<tr>
<td>ii. Income from investments made on account of funds</td>
<td>0.00</td>
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</tr>
<tr>
<td>iii. Other addition (Specify nature)</td>
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</tr>
<tr>
<td>c) Utilisation/Expenditure towards objective of funds</td>
<td></td>
<td></td>
</tr>
<tr>
<td>i) Capital Expenditure</td>
<td>Fixed Assets</td>
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<tr>
<td>– Others</td>
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<tr>
<td>– Total</td>
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## SCHEDULE 3: EARMARKED/ENDOWMENT FUNDS

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<th>Current year 2009-10</th>
</tr>
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<tbody>
<tr>
<td>ii. Revenue Expenditure</td>
<td></td>
</tr>
<tr>
<td>Salaries, Wages and allowances etc.</td>
<td>0.00</td>
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<tr>
<td>– Rent</td>
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<tr>
<td>– Other Administrative expenses</td>
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<td>– Total</td>
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<td>TOTAL (c)</td>
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<tr>
<td>NET BALANCE AS AT THE YEAR-END (a+b-c)</td>
<td>54677848.00</td>
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**Notes**

1) Disclosures shall be made under relevant heads based on conditions attaching to the grants.

2) Plan Funds received from the Central/State Governments are to be shown as separate Funds and not to be mixed up with any other Funds.
<table>
<thead>
<tr>
<th>DETAILS</th>
<th>Current year 2009-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Central Government</td>
<td>0.00</td>
</tr>
<tr>
<td>2 State Government (Specify)</td>
<td>0.00</td>
</tr>
<tr>
<td>3 Financial Institutions</td>
<td>0.00</td>
</tr>
<tr>
<td>a) Term Loans</td>
<td>0.00</td>
</tr>
<tr>
<td>b) Interest accrued and due</td>
<td>0.00</td>
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<tr>
<td>4 Banks:</td>
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</tr>
<tr>
<td>a) Term Loans</td>
<td></td>
</tr>
<tr>
<td>– Interest accrued and due</td>
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</tr>
<tr>
<td>b) Other Loans (specify)</td>
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<tr>
<td>– Interest accrued and the</td>
<td>0.00</td>
</tr>
<tr>
<td>– Other Loans (specify)</td>
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</tr>
<tr>
<td>5 Other Institutions and Agencies</td>
<td>0.00</td>
</tr>
<tr>
<td>6 Debentures and Bonds</td>
<td>0.00</td>
</tr>
<tr>
<td>7 Others (Specify)</td>
<td>0.00</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
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</table>

Note: Amounts due within one year
### SCHEDULE 5: UNSECURED LOANS AND BORROWINGS

<table>
<thead>
<tr>
<th>DETAILS</th>
<th>Current year 2009-10</th>
</tr>
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<tbody>
<tr>
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<tr>
<td>2 State Government (Specify)</td>
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</tr>
<tr>
<td>3 Financial Institutions</td>
<td>0.00</td>
</tr>
<tr>
<td>4 Banks:</td>
<td></td>
</tr>
<tr>
<td>a) Term Loans</td>
<td>0.00</td>
</tr>
<tr>
<td>b) Other Loans (specify)</td>
<td>0.00</td>
</tr>
<tr>
<td>5 Other Institutions and Agencies</td>
<td>0.00</td>
</tr>
<tr>
<td>6 Debentures and Bonds</td>
<td>0.00</td>
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<tr>
<td>7 Fixed Deposits</td>
<td>0.00</td>
</tr>
<tr>
<td>8 Others (Specify)</td>
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</tr>
<tr>
<td><strong>TOTAL</strong></td>
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Note: Amounts due within one year

### SCHEDULE 6: DEFERRED CREDIT LIABILITIES:

<table>
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<tr>
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<th>Current year 2009-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) Acceptances secured by hypothecation of capital equipment and other assets</td>
<td>0.00</td>
</tr>
<tr>
<td>(b) Others</td>
<td>0.00</td>
</tr>
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<td><strong>TOTAL</strong></td>
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Note: Amount due within one year
<table>
<thead>
<tr>
<th>DETAILS</th>
<th>Current year 2009-10</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A. CURRENT LIABILITIES</strong></td>
<td></td>
</tr>
<tr>
<td>1 Acceptances</td>
<td>0.00</td>
</tr>
<tr>
<td>2 Sundry Creditors:</td>
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</tr>
<tr>
<td>3 Advances Received</td>
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</tr>
<tr>
<td>4 Interest accrued but not due on:</td>
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</tr>
<tr>
<td>(a) Secured Loans/borrowings</td>
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</tr>
<tr>
<td>(b) Unsecured Loans/borrowings</td>
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<td>5 Statutory Liabilities:</td>
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<tr>
<td>6 Other current Liabilities</td>
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<tr>
<td>(a) Income &amp; Expenditure Adjustment including outstanding payments</td>
<td>16947811.01</td>
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<tr>
<td>(b) GPF &amp; Other Deposits</td>
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<tr>
<td>i) Group ‘D’</td>
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<tr>
<td>ii) Other than Group ‘D’</td>
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</tr>
<tr>
<td>324369672</td>
<td></td>
</tr>
<tr>
<td>(c) Education Deposit</td>
<td>5641376</td>
</tr>
<tr>
<td>(d) Security Deposit / EMD</td>
<td>9968188</td>
</tr>
<tr>
<td>(e) Time Barred Cheques</td>
<td>419107</td>
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<tr>
<td><strong>TOTAL (A)</strong></td>
<td>357346154.01</td>
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<tr>
<td><strong>B. PROVISIONS</strong></td>
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<td>1 For Taxation</td>
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<tr>
<td>2 Gratuity</td>
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<tr>
<td>3 Superannuation/Pension</td>
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<tr>
<td>4 Accumulated Leave Encashment</td>
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<tr>
<td>5 Trade Warranties/Claims</td>
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<tr>
<td>6 Others (Specify)</td>
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<td><strong>TOTAL (B)</strong></td>
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<tr>
<td><strong>TOTAL (A+B)</strong></td>
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<tr>
<td>SL. No.</td>
<td>TYPE OF ASSETS</td>
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<td>------------------------</td>
</tr>
<tr>
<td>1</td>
<td>Land</td>
</tr>
<tr>
<td>2</td>
<td>Building Non-Residential</td>
</tr>
<tr>
<td>3</td>
<td>Building Residential</td>
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<tr>
<td>4</td>
<td>Machinery &amp; Equipments</td>
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<tr>
<td>5</td>
<td>Printing &amp; Stationery (M&amp;E)</td>
</tr>
<tr>
<td>6</td>
<td>Motor Vehicles</td>
</tr>
<tr>
<td>7</td>
<td>COMPUTER</td>
</tr>
<tr>
<td>1)</td>
<td>AIS Unit</td>
</tr>
<tr>
<td>2)</td>
<td>HIS Unit</td>
</tr>
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<td>3)</td>
<td>Furniture</td>
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<td>8</td>
<td>Central Library Books</td>
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<tr>
<td>9</td>
<td>Electrical Installations</td>
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<td>10</td>
<td>Office Furniture</td>
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<tr>
<td>11</td>
<td>Work in Progress</td>
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<td>TOTAL</td>
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### SCHEDULE 9: INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS (Amount in Rs.)

<table>
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<th>Sl. No.</th>
<th>DETAILS</th>
<th>Current year 2009-10</th>
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<tbody>
<tr>
<td>1</td>
<td>In Government Securities</td>
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<tr>
<td>2</td>
<td>Other approved Securities</td>
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<tr>
<td>3</td>
<td>Shares</td>
<td>0.00</td>
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<tr>
<td>4</td>
<td>Debentures and Bonds</td>
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<tr>
<td>5</td>
<td>Subsidiaries and Joint Ventures</td>
<td>0.00</td>
</tr>
<tr>
<td>6</td>
<td>Others (to be specified)</td>
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<tr>
<td><strong>TOTAL</strong></td>
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### SCHEDULE 10: INVESTMENTS – OTHERS (Amount in Rs.)

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<th>DETAILS</th>
<th>Current year 2009-10</th>
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<tbody>
<tr>
<td>1</td>
<td>In Government Securities</td>
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</tr>
<tr>
<td>2</td>
<td>Other approved Securities</td>
<td>0.00</td>
</tr>
<tr>
<td>3</td>
<td>Shares</td>
<td>0.00</td>
</tr>
<tr>
<td>4</td>
<td>Debentures and Bonds</td>
<td>0.00</td>
</tr>
<tr>
<td>5</td>
<td>Subsidiaries and Joint Ventures</td>
<td>0.00</td>
</tr>
<tr>
<td>6</td>
<td>Others (to be specified)</td>
<td>0.00</td>
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<td><strong>TOTAL</strong></td>
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## SCHEDULE 11: CURRENT ASSETS, LOANS, ADVANCES ETC.

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<td><strong>Amount in Rs.</strong></td>
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<td>Disinfectant Store</td>
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<td>Surgical dressing Store</td>
<td>4810809.00</td>
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<td>Chemical Store</td>
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<td>Tablet Store</td>
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<tr>
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<td>Injection Store</td>
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<td>1) On Current Accounts</td>
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<td>(i) Grant-in-Aid  SBI Account 30714702008</td>
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<td>(ii) Transfer from Rec Account to G I A</td>
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<td>(i) JIPMER Receipts SBI A/C 30749579504</td>
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<td>(ii) CBHI</td>
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<td>(iii) Drug De-addiction</td>
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<td>(iv) Recovery Account</td>
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<td>2) On Savings Accounts</td>
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<td>(i) Academic Fund SBI Ac.No.30586618233</td>
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<td>(ii) Academic Fund SBI Ac.No.30506194792</td>
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<td>3) NPS out standing</td>
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<td>Post Office-Savings Accounts</td>
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<td>2) Specific Fund BOB AC 9834020000001</td>
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<td>3) Specific Fund SBI AC 10100030209</td>
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<td><strong>Frankling Machine Balance</strong></td>
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<td><strong>Time Barred Cheques Credit</strong></td>
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<td><strong>TOTAL (A) CURRENT ASSETS (1 TO 4)</strong></td>
<td>732205199.20</td>
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<td>Sl. No.</td>
<td>DETAILS</td>
<td>Current year 2009-10</td>
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<tr>
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<td>---------------------------</td>
</tr>
<tr>
<td></td>
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</tr>
<tr>
<td>1</td>
<td>LOANS &amp; ADVANCES</td>
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<tr>
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<td>a  HBA</td>
<td>1823513</td>
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<tr>
<td></td>
<td>b  MCA</td>
<td>43280</td>
</tr>
<tr>
<td></td>
<td>c  OMCA</td>
<td>1781822</td>
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<tr>
<td></td>
<td>d  OTHER ADVANCE</td>
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<td>Total A+B+C+D</td>
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<td>GPF &amp; Deposits</td>
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<tr>
<td></td>
<td>a  GROUP ‘D’</td>
<td>27253305</td>
</tr>
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<td></td>
<td>b  OTHER THAN GROUP ‘D’</td>
<td>297116367</td>
</tr>
<tr>
<td></td>
<td>c  EDUCATION DEPOSIT</td>
<td>5641376</td>
</tr>
<tr>
<td></td>
<td>d  SECURITY DEPOSIT</td>
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</tr>
<tr>
<td></td>
<td>Total A+B+C+D</td>
<td>324369672</td>
</tr>
<tr>
<td>3</td>
<td>Income Accrued</td>
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<td>4</td>
<td>Claims Receivable</td>
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<td>5</td>
<td>Books and Journals</td>
<td>14597009</td>
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<tr>
<td>6</td>
<td>Research Activities Advance Payment</td>
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<td>Letter of Credit Provision (M&amp;E)</td>
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<td>B. LOANS, ADVANCES AND OTHER ASSETS</td>
<td>427089152.00</td>
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<td>GRAND TOTAL (A+B)</td>
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<td>DETAILS</td>
<td>PLAN</td>
<td>NONPLAN</td>
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<td><strong>SCHEDULE 12</strong></td>
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<tr>
<td>Income From Sale of Prospectus</td>
<td>0.00</td>
<td>0.00</td>
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<tr>
<td><strong>SCHEDULE 13</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GRANTS / SUBSIDIES (Irrevocable Grants &amp; Subsidies Received)</td>
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<tr>
<td>Grant-In-Aid Received from Central Government</td>
<td>1,150,000,000.00</td>
<td>1,600,000,000.00</td>
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<td><strong>SCHEDULE 14</strong></td>
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</tr>
<tr>
<td>FEES / SUBSCRIPTIONS</td>
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<tr>
<td>(i) Misc Receipts</td>
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<tr>
<td>(ii) Hospital Receipts</td>
<td>7,099,603.00</td>
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</tr>
<tr>
<td>(iii) Guest House Receipts</td>
<td>172,434.00</td>
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</tr>
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<td>(iv) Receipt through Bank</td>
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<tr>
<td>CBHI</td>
<td>1,000,000.00</td>
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<tr>
<td>Drug – De – Addiction</td>
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<tr>
<td>Recovery Account</td>
<td>37,328,639.00</td>
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<tr>
<td>(a) Academic Fund SB A/C No.30586618233</td>
<td>16,472,286.00</td>
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</tr>
<tr>
<td>(b) Academic Fund SB A/C No.30506194792</td>
<td>6,252,636.00</td>
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<tr>
<td><strong>TOTAL (SCHEDULE - 14)</strong></td>
<td>119,709,268.00</td>
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<tr>
<td><strong>SCHEDULE 15</strong></td>
<td></td>
<td></td>
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<tr>
<td>INCOME FROM INVESTMENTS (Income on Invest. From Earmarked / Endowment Funds transferred to Funds)</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td><strong>SCHEDULE 16</strong></td>
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<tr>
<td>INCOME FROM ROYALTY, PUBLICATION ETC.</td>
<td>0.00</td>
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## Schedules Forming Part of Income & Expenditure for the Year Ended 31-03-2010

### Schedule 17

<table>
<thead>
<tr>
<th>Details</th>
<th>Plan</th>
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<th>Current Year 2009-10</th>
</tr>
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<tbody>
<tr>
<td><strong>Interest Earned</strong></td>
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<tr>
<td>On Term Deposits:</td>
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<tr>
<td>On Savings Accounts - Scheduled Banks</td>
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<tr>
<td>SBI Ac.No.30586618233 Academic fund</td>
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<td><strong>Total (Schedule - 17)</strong></td>
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<td>634,450.00</td>
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### Schedule 18

<table>
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<tbody>
<tr>
<td><strong>Other Income</strong></td>
<td>0.00</td>
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### Schedule 19

<table>
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<td><strong>Increase/ Decrease in stock (Medicine)</strong></td>
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<td>---------------</td>
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<tr>
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<td>115,562,576.00</td>
<td></td>
</tr>
<tr>
<td>Non Practicing Allowances</td>
<td>3,197,615.00</td>
<td>46,910,265.00</td>
<td></td>
</tr>
<tr>
<td>Personal Pay</td>
<td>867,160.00</td>
<td>10,726,040.00</td>
<td></td>
</tr>
<tr>
<td>Pay</td>
<td>36,281,544.00</td>
<td>151,048,047.00</td>
<td></td>
</tr>
<tr>
<td>Grade Pay</td>
<td>22,087,479.00</td>
<td>76,881,508.00</td>
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</tr>
<tr>
<td>Non Practicing Allowances</td>
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<td>35,341,865.00</td>
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<tr>
<td>Personal Pay</td>
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<td></td>
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<tr>
<td>Grade Pay</td>
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<tr>
<td>Non Practicing Allowances</td>
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<td>Grade Pay</td>
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<td>Personal Pay</td>
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<td></td>
</tr>
<tr>
<td>Pay</td>
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<td>--2,260.00</td>
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<tr>
<td>Grade Pay</td>
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<tr>
<td>Non Practicing Allowances</td>
<td>--386,273.00</td>
<td>--386,273.00</td>
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<tr>
<td>Personal Pay</td>
<td>--386,273.00</td>
<td>--386,273.00</td>
<td></td>
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<tr>
<td>Pay</td>
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SCHEDULE 20

Establishment Expenses

<table>
<thead>
<tr>
<th>DETAILS</th>
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<th>CURRENT YEAR</th>
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<tr>
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<td>30,000.00</td>
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<tr>
<td>Grade Pay</td>
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<tr>
<td>Non Practicing Allowances</td>
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<td>1,695,908.00</td>
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<td>Personal Pay</td>
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</tr>
<tr>
<td>Pay</td>
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<td>--2,260.00</td>
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<tr>
<td>Grade Pay</td>
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<td>--1,946,988.00</td>
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<tr>
<td>Non Practicing Allowances</td>
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<td>--386,273.00</td>
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<tr>
<td>Pay</td>
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SCHEDULE FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2010

<table>
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<th>DETAILS</th>
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<tbody>
<tr>
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<td>405,934,488.00</td>
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<tr>
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<td>867,160.00</td>
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<td>Pay</td>
<td>36,281,544.00</td>
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<tr>
<td>Grade Pay</td>
<td>22,087,479.00</td>
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<td>35,341,865.00</td>
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<tr>
<td>Personal Pay</td>
<td>2,459,199.00</td>
<td>8,266,841.00</td>
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<tr>
<td>Pay</td>
<td>2,849.00</td>
<td>30,000.00</td>
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<td>Grade Pay</td>
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<td>2,291,483.00</td>
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<td>Non Practicing Allowances</td>
<td>470,042.00</td>
<td>1,695,908.00</td>
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<tr>
<td>Personal Pay</td>
<td>48,012,927.00</td>
<td>285,375,461.00</td>
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<tr>
<td>Pay</td>
<td>0.00</td>
<td>0.00</td>
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</tr>
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<td>Grade Pay</td>
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<td></td>
</tr>
<tr>
<td>Pay</td>
<td>--2,260.00</td>
<td>--2,260.00</td>
<td></td>
</tr>
<tr>
<td>Grade Pay</td>
<td>--711,660.00</td>
<td>--1,946,988.00</td>
<td></td>
</tr>
<tr>
<td>Non Practicing Allowances</td>
<td>--386,273.00</td>
<td>--386,273.00</td>
<td></td>
</tr>
<tr>
<td>Personal Pay</td>
<td>--386,273.00</td>
<td>--386,273.00</td>
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<tr>
<td>Pay</td>
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<td>1,192,928,333.00</td>
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JIPMER 2009-2010 / 466
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<tr>
<th>SCHEDULE 21</th>
<th>PLAN</th>
<th>NONPLAN</th>
<th>CURRENT YEAR 2009-10</th>
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<tr>
<td>Others Administrative Expenses</td>
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<tr>
<td>Wages</td>
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<td>4,132,483.00</td>
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<td>68,226,874.00</td>
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<td>161,315,714.00</td>
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<td>Others Charges</td>
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<td>G-I-AID &amp; Other Administrative Expenses (Total - A)</td>
<td>588,498,868.00</td>
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<td>1. Add Drug - De - Addiction</td>
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<td>2. CBHI</td>
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<td>3. Recovery Account 30749579231</td>
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<td>5. Bank charges GIA, 30714702008</td>
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<td>6. Academic Fund SBI AC 30586618233</td>
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## SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2010

### SCHEDULE 22
**EXPENDITURE ON GRANTS,SUBSIDIES ETC.**

<table>
<thead>
<tr>
<th>Details Head</th>
<th>Plan</th>
<th>Nonplan</th>
<th>Current Year 2009-10</th>
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</thead>
<tbody>
<tr>
<td>A) Grants given to institute/Organisations</td>
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<td>0.00</td>
<td>0.00</td>
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<tr>
<td>B) Subsidies given to Institutions/Organisations</td>
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<td>0.00</td>
<td>0.00</td>
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<tr>
<td>Total Expenditure on Grants/Subsidies etc</td>
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### SCHEDULE 23
**INTEREST.**

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<tr>
<td>A) On Fixed Loans</td>
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<tr>
<td>B) On others Loans (Including Bank Charges)</td>
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</tr>
<tr>
<td>C) Others (Specify)</td>
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<tr>
<td>Total Interest (D)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

---

K. Kannaiyan  
Accounts Officer  
JIPMER, Puducherry

R. Viswanathan  
Finance & Chief Accounts Officer  
JIPMER, Puducherry

Dr. K.S.V.K. Subba Rao  
Director  
JIPMER, Puducherry
FINANCIAL STATEMENTS

JAWAHARLAL INSTITUTE OF POSTGRADUATE MEDICAL EDUCATION AND RESEARCH, PUDUCHERRY-6

SCHEDULES FORMING PART OF THE ACCOUNTS FOR THE PERIOD ENDED 31.03.2010

SCHEDULES 24 – SIGNIFICANT ACCOUNTING POLICIES (Illustrative)

1. ACCOUNTING CONVENTION

1.1. JIPMER hitherto sub-ordinate body of Director General of Health Services under Ministry of Health and Family Welfare has been converted as on Autonomous body. An institute of NATIONAL IMPORTANCE on 14th July 2008 by an ACT OF Parliament. The first of the four installments of Grant-in-Aid was received during April 2009. The Accounting functions of JIPMER as an autonomous body commenced from the 1st April 2009.

1.2. The Financial statements are prepared as per the guidelines contained in the Manual of Instruction for Audit of Autonomous Bodies (NON-PROFIT ORGANISATIONS) Volume –II issued by Comptroller and Auditor General of India in July-2007. The Accounts have been prepared on the accrual method of accounting.

2. INVENTORY VALUATION

Physical Verification and de novo Valuation of the Assets is in progress.

3. INVESTMENTS

The Grant-In-Aid received in four installments during the year 2009-10 was sufficient to meet the regular expenditure of the Institute. Hence no long term/short term Investments could be made.

4. FIXED ASSETS

4.1. Fixed Asset are stated at cost of acquisition inclusive of inward freight, duties and Taxes and incidental and direct expenses related to acquisition.

4.2. Physical verification of Fixed Assets is under progress

5. DEPRECIATION

5.1. Depreciation is provided on Written Down Method as per rates specified in the Income- tax Act, 1961. However Depreciation Fund has not been Created.

5.2. In respect of additions to / deductions from fixed assets during the year, full depreciation has been provided.

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5.3. In respect of Assets (Furniture) costing Rs 5,000 or less full depreciation has been provided.

5.4. Depreciation for the current year has been claimed with reference to the date of installation / purchase.

6. ACCOUNTING FOR SALES
Sales include sale of application forms/ prospectus

7. GOVERNMENT GRANTS/ SUBSIDIES
The Opening Balance of Capital Fund as on 1-04-2009 is Zero. The First release of fund of Rs.25.50 crores under Plan and 19.81 crores under NON PLAN were received during April 2009.

8. FOREIGN CURRENCY TRANSACTIONS
Transactions denominated in foreign currency are accounted at the exchange rate prevailing at the date of the transaction.

9. LEASE
9.1. There is no case of 99 years leasehold.

9.2. Land measuring 4.5 hectares at Kandamangalam, Tamilnadu was received from Customs Department. Land measuring 2 acres and 87 cents at Ramanathapuram, Puducherry was received from Govt. of Puducherry. Both the land were received free of cost are yet to be valued. Hence their value could not be exhibited on the Assets side of the Balance sheet.

10. RETIREMENT BENEFITS
Pensionary benefits of Retiring employees are continued to be settled by Pay and Account office, JIPMER Under M.H &F.W from consolidated fund of India.

11. INCOME TAX
As per section 10 (23-C) (iii ab) of Income-Tax Act, JIPMER is exempted from payment of Income-Tax.
## RECEIPTS & PAYMENTS ACCOUNT FOR THE YEAR 2009 - 2010

<table>
<thead>
<tr>
<th>ITEMS</th>
<th>PLAN</th>
<th>Non-PLAN 2009-2010</th>
<th>ITEMS</th>
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JAWAHARLAL INSTITUTE OF POSTGRADUATE MEDICAL EDUCATION AND RESEARCH, PUDUCHERRY-6
## RECEIPTS & PAYMENTS ACCOUNT FOR THE YEAR 2009 - 2010

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<tr>
<th>ITEMS</th>
<th>PLAN</th>
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## RECEIPTS & PAYMENTS ACCOUNT FOR THE YEAR 2009 - 2010

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</tbody>
</table>

K. Kannaiyan  
Accounts Officer  
JIPMER, Puducherry  

R. Viswanathan  
Finance & Chief Accounts Officer  
JIPMER, Puducherry  

Dr. K.S.V.K. Subba Rao  
Director  
JIPMER, Puducherry
Separate Audit Report of the Comptroller & Auditor General of India on
the Accounts of Jawaharlal Institute of Postgraduate Medical Education
and Research, Puducherry for the year ended 31 March 2010

We have audited the attached Balance Sheet of Jawaharlal Institute of Postgraduate Medical Education and Research, (JIPMER) Puducherry as at 31 March 2010 and the Income & Expenditure Account/Receipt and Payment Account for the year ended on that date under Section 19(2) of the Comptroller & Auditor General's (Duties, Powers & Conditions of Service) Act, 1971 read with Section 18(4) of the JIPMER, Puducherry Act 2008. These financial statements are the responsibility of the institute’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 & Auditor General of India (CAG) on the accounting treatment only with regard to classification, conformity with the best accounting practices, accounting standards and disclosure norms, etc. Audit observations on financial transactions with regard to compliance with the Law, Rules & Regulations (Propriety and Regularity) and efficiency – cum – performance aspects, etc., if any are reported through Inspection Reports/CAG's Audit Reports separately.

3. We have conducted our audit in accordance with auditing standards generally accepted in India. These standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatements. An audit includes examining, on a test basis, evidences supporting the amounts and disclosure in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of financial statements. We believe that our audit provides a reasonable basis for our opinion.

4. Based on our audit, we report that:
   i. We have obtained all the information and explanation, 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 been drawn up in the format approved by the Ministry of Finance.
   iii. In our opinion, proper books of accounts and other relevant records have been maintained by JIPMER as required under section 18(1) of JIPMER, Puducherry Act 2008 in so far as it appears from our examination of such books.
   iv. We further report that:
A. **Revision of Accounts**

JIPMER revised the annual accounts at the instance of audit. The effect of revision was that: Assets increased by Rs. 426.24 lakh, liabilities increased by Rs. 108.87 lakh, expenditure decreased by Rs. 99.51 lakh.

B. **Grants-in-aid**

ut of the grants in aid of Rs. 275 crores (Non Plan Rs. 160 crore, Plan Rs. 115 crore) received during the year, and also from internal sources (Rs. 5.78 crore), the organization could utilize a sum of Rs. 213.20 crore leaving a balance of Rs. 67.58 crore.

5. Subject to our observations in the preceding paragraphs, we report that the Balance Sheet and Income & Expenditure Account/Receipt & Payment Account dealt with by this report are in agreement with the books of accounts.

6. In our opinion and to the best of our information and according to the explanation given to us, the said financial statements read together with the Accounting Policies and Notes on Accounts and subject to the significant matters stated above and other matters mentioned in the 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 JIPMER as at 31 March 2010; and

b. In so far as it relates to Income and Expenditure Account of the surplus for the year ended on that date.

For and on behalf of C & AG of India

**Principal Accountant General (Civil Audit)**

Place: Puducherry

Date: 07.01.2011
Annexure to Audit Report

1. **Internal Audit System**
   There was no Internal Audit System available with JIPMER. Though, there are nearly 50 departments available no action was initiated to evolve any internal audit mechanism.

2. **Internal Control System**
   JIPMER had not prepared an Accounting Manual. However, General Financial Rules followed by Government of India, in respect of Plans/Projects are put into use.

3. **Physical verification of Fixed Assets**
   (i) No physical verification of assets was done during the year.
   (ii) Register pertaining to immovable properties were not made available to Audit.

4. **Regularity in Payment of Statutory dues**
   JIPMER remits Value Added Tax and other statutory dues regularly.

Sr. Deputy Accountant General (P)
AUDIT CERTIFICATE

To

The Director,

JIPMER,

Thanvandhir Nagar,

Puducherry

Sir,


I have audited the annual accounts of the JIPMER for the year 2009-10 and have issued the Audit Report thereon vide letter dated 7.1.2011. During the course of audit, it was noticed that the value of fixed assets were brought to account at cost of acquisition, and the value of depreciation for the earlier period, i.e., for the year of purchase to the accounting year 2009-10 was not deducted from the cost of assets to arrive at the book value and exhibit a true and fair value of the assets as on 01 April 2009. This is being brought to your notice for corrective action.

Yours faithfully,

Principal Accountant General (CA)
JIPMER 2009-2010

12.3 Para-wise Replies to CAG Audit Report

Replies/comments to the Separate Audit Report of the Comptroller & Auditor General of India on the Accounts of Jawaharlal Institute of Postgraduate Medical Education and Research, Puducherry for the year ended 31 March 2010

A. Revision of Accounts

JIPMER revised the annual accounts at the instance of audit. The effect of revision was that: Assets increased by Rs. 426.24 lakh, liabilities increased by Rs. 108.87 lakh, expenditure decreased by Rs. 99.51 lakh.

Factual statement.

B. Grants-in-aid

Out of the grants in aid of Rs. 275 crores (Non Plan Rs. 160 crore, Plan Rs. 115 crore) received during the year, and also from internal sources (Rs. 5.78 crore), the organization could utilize a sum of Rs. 213.20 crore leaving a balance of Rs. 67.58 crore.

Factual statement.

(Dr. K.S.V.K. SUBBA RAO)
DIRECTOR, JIPMER
Para-wise Reply to Annexure to Audit Report

1. **Internal Audit System**

There was no Internal Audit System available with JIPMER. Though, there are nearly 50 departments available no action was initiated to evolve any internal audit mechanism.

JIPMER was a subordinate office of DGHS under MOH&FW and Internal Audit is being done by MOH&FW. However Jipmer was converted into a Statuatory Body by Act of Parliament in July 2008. The first Grants in Aid was received in 2009 and first CAG Audit was done for 2009-10.

Action is now being initiated to evolve internal audit mechanism in JIPMER.

2. **Internal Control System**

JIPMER had not prepared an Accounting Manual. However, General Financial Rules followed by Government of India, in respect of Plans/Projects are put into use.

Factual statement.

3. **Physical verification of Fixed Assets**

(i) No physical verification of assets was done during the year.

Action being taken to undertake physical verification of assets.

(ii) Register pertaining to immovable properties were not made available to Audit.

Suitable instructions issued to avoid such lapse in future.

4. **Regularity in Payment of Statutory dues**

JIPMER remits Value Added Tax and other statutory dues regularly.

Factual statement.

(Dr. K.S.V.K. SUBBA RAO)
DIRECTOR, JIPMER