The Editorial Board

*Chief Editor*

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

*Members*

Dr. P.H. Ananthanarayanan, Professor & Head, Department of Biochemistry & Faculty (Admin.)

Dr. Santosh Kumar, Prof. & Head, Departments of Urology and Medical Education (Coordinator)

Dr. C. Adithan, Professor & Head, Department of Pharmacology

Dr. Ajit Sahai, Professor & Head, Department of Medical Biometrics & Informatics

Dr. A. Tumbanatham, Additional Medical Superintendent

Dr. G. K. Pal, Professor, Department of Physiology

Dr. D. M. Thappa, Professor & Head, Department of Dermatology & STD

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

Dr. D. Kadambari, Professor, Department of Surgery

Dr. Kadhiravan T, Asst. Professor, Department of Medicine

Mr. Z. Zayapragassarazan, Asst. Professor, Department of Medical Education (Jt. Coordinator)

Dr. Sitanshu Sekhar Kar, Asst. Professor, Department of P&SM

Dr. Jharna Mandal, Asst. Professor, Department of Microbiology

Dr. Laxmisha Chandrashekar, Asst. Professor, Department of Dermatology & STD

Dr. Venkatesh Shankar Madugiri, Asst. Professor, Department of Neurosurgery

Mr. A. Rajavelu, Officer In-Charge, Printing & Stationery
Jawaharlal Institute of Postgraduate Medical Education and Research (JIPMER)

Jawaharlal Institute of Postgraduate Medical Education and Research originated as École de Médicine 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 health 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 two postgraduate courses, eight super speciality courses and seven Ph.D. programmes and 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. A total of 1405 teachers have been trained from all over the country.

JIPMER has been undertaking research in various pre-clinical, para-clinical and clinical disciplines. The Institute Research Council (recently upgraded to Scientific Advisory Committee by incorporating external members) and Institute Ethics Committees (Human Studies and Animal Studies) closely monitor all the research activities.

There are thirty nine academic departments and five 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 5,315. Under the Rashtriya Arogya Nidhi (RAN) twenty one patients were benefited and Rs. 15,45,017 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 Centre in Karaikal region of Puducherry.
JIPMER

ORGANISATION

The Institute Body

The Governing Body

Standing Finance Committee
Standing Selection Committee
Standing Academic Committee
Standing Estate Committee
Standing Hospital Affairs Committee
## CONTENTS

1. Director’s Review ........................................................................................................... 1
2. The Institute Body and its Committees ................................................................. 4
3. General Administration ............................................................................................ 15
4. Developmental Projects .......................................................................................... 17
5. Academic Wing .......................................................................................................... 21
   5.1 Academic Section .................................................................................................. 21
   5.2 Examination Section ............................................................................................ 74
6. Research Wing .......................................................................................................... 78
   6.1 JIPMER Scientific Advisory Committee ............................................................... 78
   6.2 Institute Ethics Committee (Human Studies) ......................................................... 80
   6.3 Institute Ethics Committee (Animal Studies) ......................................................... 82
   6.4 Research Monitoring Committee ......................................................................... 83
7. Hospital Wing ........................................................................................................... 108
   7.1 JIPMER ................................................................................................................ 108
   7.2 Urban Health Centre (Kurusukuppam) ................................................................ 115
   7.3 Rural Health Centre (Ramanathapuram) ............................................................... 118
   7.4 Outreach Health Centre (Karaikal) ..................................................................... 121
8. Departments
   8.1 Anaesthesiology and Critical Care ........................................................................ 122
   8.2 Anatomy ................................................................................................................ 131
   8.3 Biochemistry ........................................................................................................ 138
   8.4 Cardiology ............................................................................................................. 159
   8.5 Cardiothoracic Surgery ....................................................................................... 176
   8.6 Dentistry ............................................................................................................... 181
   8.7 Dermatology & STD ........................................................................................... 183
   8.8 Endocrinology ...................................................................................................... 193
   8.9 ENT ....................................................................................................................... 196
   8.10 Forensic Medicine and Toxicology ................................................................. 201
   8.11 Medical Biometrics & Informatics (Biostatistics) .............................................. 204
   8.12 Medical Education ............................................................................................. 210
   8.13 Medical Gastroenterology .................................................................................. 219
   8.14 Medical Oncology ............................................................................................... 222
8.15  Medicine................................................................. 228
8.16  Microbiology.......................................................... 238
8.17  Nephrology............................................................. 251
8.18  Neurology.............................................................. 257
8.19  Neurosurgery......................................................... 263
8.20  Nuclear Medicine................................................... 268
8.21  Obstetrics and Gynaecology................................. 270
8.22  Ophthalmology....................................................... 278
8.23  Orthopaedic Surgery............................................. 287
8.24  Paediatrics ........................................................... 293
8.25  Paediatric Surgery................................................. 304
8.26  Pathology............................................................... 307
8.27  Pharmacology........................................................ 319
8.28  Physical Medicine and Rehabilitation................. 329
8.28.1 Physiotherapy .................................................... 329
8.28.2 Occupational Therapy Section ......................... 334
8.28.3 Orthotics Section ............................................... 338
8.28.4 Prosthetics Section ............................................. 340
8.29  Physiology............................................................. 343
8.30  Plastic Surgery........................................................ 354
8.31  Preventive and Social Medicine............................ 358
8.32  Psychiatry............................................................. 370
8.33  Pulmonary Medicine.............................................. 378
8.34  Radiodiagnosis....................................................... 381
8.35  Radiotherapy ........................................................ 386
8.36  Surgery................................................................. 397
8.37  Surgical Gastroenterology..................................... 405
8.38  Surgical Oncology.................................................. 410
8.39  Urology................................................................. 411
9  Divisions
9.1  Clinical Immunology............................................... 416
9.2  Clinical Pharmacology............................................. 421
9.3  Emergency Medical Services.................................. 424
9.4  Neonatology.......................................................... 426
9.5  Transfusion Medicine............................................. 433
10  College of Nursing………………………………………………………………… 436
11  Central Facilities
   11.1 The Advanced Centre for Yoga Therapy, Education and Research (ACYTER) ………………………………………………………………………………… 442
   11.2 Biomedical Waste Management……………………………………………… 447
   11.3 Canteen……………………………………………………………………………… 449
   11.4 Central Animal House…………………………………………………………… 451
   11.5 Central Library…………………………………………………………………… 452
   11.6 Central Stores……………………………………………………………………… 458
   11.7 Central Workshop……………………………………………………………….. 461
   11.8 Computer Facilities……………………………………………………………… 464
      11.8.1 Administrative Information System (AIS) ……………………………… 464
      11.8.2 Centre for Research and Academic Facilities and Training (CRAFT)….. 468
   11.8.3 Hospital Information System (HIS) ………………………………………….. 470
   11.9 Central Sterile Supplies Department (CSSD) ………………………………. 472
   11.10 Dietetics…………………………………………………………………………….. 474
   11.11 Hindi Cell and Official Language Implementation………………………… 479
   11.12 Horticulture………………………………………………………………………… 485
   11.13 Hostels……………………………………………………………………………… 488
   11.14 Linen and Laundry ……………………………………………………………….. 490
   11.15 Medical Illustration Division (MID) ………………………………………….. 493
   11.16 Medical Records Department (MRD) ………………………………………… 495
   11.17 Medico-Social Services………………………………………………………… 500
   11.18 Nursing Wing……………………………………………………………………… 504
   11.19 Pharmacy………………………………………………………………………… 507
   11.20 Printing and Stationery………………………………………………………… 516
   11.21 Sanitary Unit……………………………………………………………………….. 518
   11.22 Security…………………………………………………………………………….. 520
   11.23 Court Cases / Vigilance & Disciplinary Cell ……………………………….. 521
12.  Finance Division……………………………………………………………………… 523
    12.1 Balance Sheet……………………………………………………………………… 524
    12.2 Audit Report ……………………………………………………………………… 556
1. Director’s Review

I am happy to present the second Annual Report of the Institute along with the audited statements of accounts for the year 2010-2011.

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 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, as 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 Institute 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 those in the lower socioeconomic status who cannot afford expensive high tech healthcare 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 Institute 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 30,798 applications were received and 21,905 candidates appeared in the Entrance Examination for the first year MBBS Course, 2010-2011 session. Out of the 10,930 candidates who qualified in the Entrance Examination, 98 candidates were admitted based on their category merit rank. Eighteen candidates were nominated for the Academic Session 2010-2011 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 2010-2011 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 2010-2011, 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.

Post graduate courses (M.D. / M.S.) are conducted in 22 disciplines. A total of 88 seats are available for the 22 postgraduate courses and there is a proposal to add 34 more seats for the postgraduate courses. At present Super Speciality Programmes (D.M. / M.Ch.) are conducted in 8 disciplines. A total of 15 seats are available for these 8 Super Speciality Programmes.

Ph.D. programmes are conducted in 7 disciplines and a total of 16 seats are available for these 7 Ph.D. programmes. JIPMER has been conducting M.Sc. (Medical Biochemistry) course for the last 32 years. For the academic year 2010-2011, nine students were admitted on the basis of the Entrance Examination to this 3 year 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.

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 seventeen research projects and fifty two 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 2010-2011 was 5,315. Under the Rashtriya Arogya Nidhi (RAN) twenty one patients were benefited and Rs. 15,45,017/- was utilized during the year. In the year 2010-2011, a total of 15,94,214 outpatients were treated in JIPMER Hospital. In the year 2010-2011, a total of 67,265 admissions were made in the Hospital. A total of 25,33,442 investigations were carried out in the year 2010-2011. Total number of deliveries conducted were 15,645. Total number of operations performed were 33,853. The total attendance in Emergency Medical Service (Main Casualty) was 1,57,511 and the total attendance in OG Casualty was 21,041. 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 and Urban 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 developmental projects have been undertaken in JIPMER in recent years. Phase I projects including Trauma Care Centre, College of Nursing, upgradation of existing Regional Cancer Centre, Auditorium, New Guest House and Super Speciality Block have already been completed. Work is in progress for projects of phase II development which consist of Teaching Block, Women and Children Hospital Block, Hostel Complex and augmentation of existing departments. Teaching Block will include Departments of Anatomy, Physiology, Biochemistry and Medical Education and Academic Section, Examination Section, Dean’s Office and Examination Halls. Women and Children Hospital Block will include Departments of Obstetrics and Gynecology and Pediatrics with their outpatient and inpatient facilities, Hostel Complex will have facilities to accommodate 1100 students with facilities for canteen, dining, sports and gymnasium. Augmentation of existing Departments is being undertaken by utilizing the space vacated by Super Speciality Departments, Radiotherapy, Obstetrics and Gynecology, Pediatrics, Anatomy, Physiology, Biochemistry and Medical Education. Phase II development also includes augmentation of Regional Cancer Centre. In addition to construction works filling of various posts of faculty and other staff is also being undertaken. During the year 2010-2011, 19 Group A faculty, 109 Group B staff and 100 Group C staff have been recruited.

On the academic side the intake of MBBS students has been increased from 100 to 116. One each seat in M.Ch. CTVS and Urology and D.M. Cardiology and Neurology has been increased from 2010-2011. Optional Internship has been introduced for B.Sc. Nursing, Medical Laboratory Technology and Emergency Medical Technician courses. New courses started from the year 2010-2011 include B.Sc., Medical Radiation Technology (Intake of 4 students), B.Sc., Perfusion Technology (Intake of 4 students), B.Sc., Operation Theatre Technology (Intake of 4 students), B.Sc., Dialysis Technology (Intake of 4 students), M.Sc. MLT (Microbiology) (Intake of 4 students), M.D. Transfusion Medicine & Immunohaematology (Intake of 1 student), M.D. Forensic Medicine (Intake of 2 students), M.Ch. Neurosurgery (Intake of 1 student), Ph.D. Pediatrics (Intake of 1 student), Ph.D. Anatomy (Intake of 2 students) and Ph.D. Microbiology (Intake of 2 students).

The Second 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 9th April 2011 in which Dr. V. Shanta, Chairperson of Cancer Institute, Adyar, Chennai was the Chief Guest.

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

## The Institute Body

<table>
<thead>
<tr>
<th>No.</th>
<th>Name and Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Prof. (Dr.) N.K. Ganguly</td>
</tr>
<tr>
<td></td>
<td>Former Director General of Indian Council of Medical Research, New Delhi.</td>
</tr>
</tbody>
</table>

### Ex-Officio Members

<table>
<thead>
<tr>
<th>No.</th>
<th>Name and Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.</td>
<td>Ms. Sujatha Rao</td>
</tr>
<tr>
<td></td>
<td>Secretary to the Government of India Ministry of Health and Family Welfare</td>
</tr>
<tr>
<td></td>
<td>Till 30.11.2010</td>
</tr>
<tr>
<td></td>
<td>Shri. K. Chandramouli</td>
</tr>
<tr>
<td></td>
<td>Secretary to the Government of India Ministry of Health and Family Welfare</td>
</tr>
<tr>
<td></td>
<td>From 1.12.2010</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. J.A.K Tareen</td>
</tr>
<tr>
<td></td>
<td>Vice-Chancellor</td>
</tr>
<tr>
<td></td>
<td>Pondicherry University.</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. Mayil Vahanan Natarajan</td>
</tr>
<tr>
<td></td>
<td>Vice-Chancellor</td>
</tr>
<tr>
<td></td>
<td>Tamil Nadu Dr. M.G.R Medical University Chennai.</td>
</tr>
<tr>
<td>5.</td>
<td>Dr. R.K Srivastava</td>
</tr>
<tr>
<td></td>
<td>Director General of Health Services</td>
</tr>
<tr>
<td></td>
<td>Government of India.</td>
</tr>
<tr>
<td>6.</td>
<td>Shri R. Chandramohan</td>
</tr>
<tr>
<td></td>
<td>Chief Secretary</td>
</tr>
<tr>
<td></td>
<td>Government of Puducherry.</td>
</tr>
<tr>
<td>7.</td>
<td>Shri. Naved Masood</td>
</tr>
<tr>
<td></td>
<td>Additional Secretary cum Financial Advisor</td>
</tr>
<tr>
<td></td>
<td>Ministry of Health and Family Welfare</td>
</tr>
<tr>
<td></td>
<td>Government of India.</td>
</tr>
<tr>
<td>8.</td>
<td>Secretary to the Govt. of India or his nominee</td>
</tr>
<tr>
<td></td>
<td>(not below the rank of Joint Secretary)</td>
</tr>
<tr>
<td></td>
<td>Department of Higher Education Ministry of Human Resource Development.</td>
</tr>
<tr>
<td>9.</td>
<td>Dr. K.S.V.K Subba Rao</td>
</tr>
<tr>
<td></td>
<td>Director, JIPMER.</td>
</tr>
</tbody>
</table>
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 Hygiene & Public Health), 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** Former Director/Vice Chancellor National Institute of Mental Health & Neuro Sciences, Bangalore.

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

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

2. Shri S.S. Ramasubbu
   Hon’ble Member of Parliament (Lok Sabha)

3. Dr. Sanjay Jaiswal
   Hon’ble Member of Parliament (Lok Sabha)

Special Invitee

Shri Debasish Panda
Joint Secretary
Ministry of Health and Family Welfare
The Governing Body

1. Professor (Dr.) N. K. Ganguly
   Former Director General of Indian Council of Medical Research, New Delhi.
   
2. Shri S. S. Ramasubbu
   Hon'ble Member of Parliament (Lok Sabha)

3. Ms. Sujatha Rao
   Secretary to the Government of India Ministry of Health and Family Welfare
   Shri. Chandramouli
   Secretary to the Government of India Ministry of Health and Family Welfare

4. Dr. R.K Srivastava
   Director – General of Health Services, Government of India.

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

6. Shri R. Chandramohan
   Chief Secretary Government of Puducherry.

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

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

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

10. Dr. S. Badrinath
    Professor of Microbiology & Project Coordinator, JIPMER.

JIPMER 2010-2011 / 7
11. **Dr. S. Srinivasan**  
   Professor & HOD Paediatrics, JIPMER.

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

13. **To be nominated by Government**

14. **To be nominated by Government**

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

**Special Invitee**

**Shri Debasish Panda**  
Joint Secretary Ministry of Health and Family Welfare
Standing Finance Committee

1. **Ms. Sujatha Rao,**
   Secretary to the Government of India,
   Ministry of Health and Family Welfare
   
   **Shri. K. Chandramouli**
   Secretary to the Government of India,
   Ministry of Health and Family Welfare
   
   **Chairman**
   Till 30.11.2010

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

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

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

5. **Shri R. Chandramohan**
   Chief Secretary, Government of Puducherry.
   
   **Member**

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

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

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

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

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

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

JIPMER 2010-2011 / 9
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 Hygiene & 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.

   **JIPMER 2010-2011 / 10**
Standing Academic Committee

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

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

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

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

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

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

7. **Prof. (Dr.) Suneeta Mittal**  
   Prof. & Head, Department of Obstetrics &  
   Gynaecology, All India Institute of Medical Sciences,  
   New Delhi.  
   Member

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

9. **Dr. V.I. Mathan**  
   (Former Director, CMC, Vellore)  
   Member

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

JIPMER 2010-2011 / 11
## 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 Ananthanarayanan**  
   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. **Dr. Sanjay Jaiswal**
   Hon'ble Member of Parliament (Lok Sabha)
   Member

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 Banerji**
   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
The Institute has three major administrative wings (as depicted in the administrative setup flowchart) namely, “General Administration & Finance”, “Academic, Teaching & Research” and “Hospital & Patient Cares”.

The General Administration consists of three Establishment Sections, RR cell, Disciplinary and court cell, Pension cell, General and Estate Section. 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.

The RR Cell deals with formulation of draft Recruitment Rules, their amendments & notifications.

The Disciplinary & Court Cases Cell deals with court matters, disciplinary proceedings and undertakes Inquiries and Vigilance cases.

The Pension Cell takes care of pension, family pension and gratuity of all superannuation and VRS employees.

JIPMER 2010-2011 / 15
The Estate Section undertakes responsibility of the estate of Institute including construction and maintenance (Civil & Electrical works) of all the buildings and roads.

The General Section is in charge of the arrangement of vehicles, calling for tenders for sanitation, and miscellaneous work.

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. Proposals for creation of 180 Administrative posts and 461 Nursing Personnel posts are pending in the Ministry of Health and Family Welfare, New Delhi.

### 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>252</td>
<td>184</td>
<td>68</td>
</tr>
<tr>
<td>2</td>
<td>Group ‘A’</td>
<td>129</td>
<td>89</td>
<td>40</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>1555</td>
<td>1153</td>
<td>402</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>2983</td>
<td>2330</td>
<td>653</td>
</tr>
</tbody>
</table>

### Resident 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>132</td>
<td>138</td>
</tr>
<tr>
<td>2</td>
<td>Junior Resident (PG)</td>
<td>239</td>
<td>224</td>
<td>15</td>
</tr>
<tr>
<td>3</td>
<td>Junior Resident (NPG)</td>
<td>71</td>
<td>29</td>
<td>42</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>580</td>
<td>385</td>
<td>195</td>
</tr>
</tbody>
</table>

### Major achievements:

18 Assistant Professors and 1 Lecturer were recruited during the year 2010-11. Various technical and ministerial staff numbering 206 was also recruited during the year 2010-11. 318 applications have been received for the post of X-ray Technician/Radiology Technician for 21 posts advertised apart from applications for various other posts. The selection is in process.

In accordance with the latest guidelines received from Government of India, a number of cases were considered for grant of MACP to the employees in various categories, besides conducting DPC meetings as per the schedule.
4. Developmental Projects

Professor & Project Co-ordinator
S. Badrinath

The Tenth Plan Vision Document proposed Up-gradation of Medicare Facilities-I at JIPMER, Puducherry and 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 EPC proposal was submitted to the Ministry of Health & Family Welfare, Government of India and same 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 turnkey 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 coordinating 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 medical 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 up-gradation 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 turnkey basis in a record time of 22 months.

JIPMER Phase II The project proposed consists of setting up of

Teaching Block, 400 bedded Women and Children Hospital, Hostel Complex and Doctors' Quarters. (position as on 15th Oct 2011)

For the phase II upgradation, HLL Life care Ltd. was appointed as in house consultant and the project was initiated as turnkey basis as it was done for phase I upgradation. The PMC constituted undertook the exercise for short listing and selecting the EPC developer following the established procedure and approval from competent authorities. As per the RFP document, it is to be completed in 24 months. All statutory approvals have been obtained and the present status of phase ii upgradation are as follows.
**Teaching Block:**

Scope of work:

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 wing, Dean’s Office, and Examination Halls. High tech state of art equipments for teaching and learning will be made available and a tele-medicine facility will be set up in the Medical Education Department.

Teaching block 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 one lecture hall with 180 capacity and Physiology Department and its allied facilities including Haematology and Amphibian Lab. Also with a lecture hall, a state of art e-learning centre and Biochemistry Department are located in the second floor. The examination wing, Office of the Controller of Examinations 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.

Present Status:

Roof slab has been concreted for the G+4 Structure. Brickwork, plastering and other finishing items are in progress in Ground, First and Second floors. It is proposed to complete all items of works and will be for Occupation by January 2012.

**Women and Children Hospital:**

Scope of work:

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 Pediatrics OPD and Gyn.OPD. The first floor houses developmental Paediatric OPD and Well-baby Clinic and Special Clinical OPD with laboratory facilities. The offices of Obst. & gyn. Department and Pediatric Department, library, museum are 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, Pediatric, Obst & Gyn. casualty and two emergency OTs are located. The first floor of IPD has Pediatric 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, and High end Color Doppler, C-Arm, Image Intensifier, PACS complete, 64 Slice CT, etc.

Present Status:

Basement work completed except flooring and Finishing items.

JIPMER 2010-2011 / 18
First floor slab Concerting for OPD (Basement+ G+2) in progress. Third floor slab concreting in IPD (Basement+G+4) are in progress. Structure is programmed to be completed by December 2011 and entire block including supply of medical Equipments will be completed by April 2012.

**Hostel Blocks:**

Scope of work:

The hostel complex consists of six 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 Doctor’s Hostel -1 is a six storey building of 4085 sqm. with 138 rooms and the Men Resident Doctor’s Hostel-2 (2760 sqm.) is also a six storey structure with 58 rooms. The Women Resident’s 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 hostel.

Present status:

1. Men Resident Doctors’ Hostel no.1: Roof slab concreting in progress. Brickwork, plastering and other finishing items are in progress.
2. Men Resident Doctors’ Hostel no 2. Roof slab concreting completed. Brickwork, plastering and other finishing items are in progress.
3. Women Resident Doctors’ Hostel: Roof slab concreting completed..Brickwork, plastering and other finishing items are in progress.
4. Senior Resident Doctors’ Quarters: Completed in all respects except few finishing items and will be ready for Occupation by November 2011.
5. U G Boys Hostel: Fifth floor slab concreting and Brickwork and other finishing items in Ground and First floor are in Progress.
6. U G Girls Hostel: Fifth floor slab concreting and Brickwork and other finishing items in Ground and First floor are in Progress.
7. Ladies Hostel: Completed in all respects and will be ready for occupation by October 2011
8. Common Facility: (G+1): Finishing items are in progress.
AUGMENTATION & ADDITIONAL WORKS:

1. Conversion of Ward 41 into medical ICU.
2. Conversion of Ward 33 into Anesthesiology Seminar hall.
3. Alteration works in Microbiology lab.
4. Alteration works in Pharmacology lab.
5. Alteration works in Bacteriology lab.
6. Alteration works in Pathology lab.

Supply of Medical Equipments under Phase II

Out of 125.25 Crores worth of Equipments to be supplied equipments costing 47 Crores have been supplied and getting installed. The balance is expected to be supplied before April 2012.

New works to be taken up:

The following new works to be undertaken are at various stages of approval.

<table>
<thead>
<tr>
<th>Name of work</th>
<th>Estimated cost in Crores</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Multi disciplinary Advanced Research Centre</td>
<td>19.46</td>
</tr>
<tr>
<td>2. Learning Resources centre</td>
<td>16.22</td>
</tr>
<tr>
<td>3. Screening OPD and Geriatric Unit</td>
<td>48.31</td>
</tr>
<tr>
<td>4. Super specialty Block Annex</td>
<td>51.81</td>
</tr>
<tr>
<td>5. Modernization of Old Hospital block and Institute Block</td>
<td>62.77</td>
</tr>
<tr>
<td>6. International students’ Hostel</td>
<td>8.92</td>
</tr>
<tr>
<td>7. RCC phase III</td>
<td>23.94</td>
</tr>
<tr>
<td>8. Additional power supply to JIPMER campus</td>
<td></td>
</tr>
<tr>
<td>(110 KV substation)</td>
<td>60.00</td>
</tr>
</tbody>
</table>

EQUIPPING REGIONAL CANCER CENTRE

The Oncology centre which was upgraded with a separate cancer ward of 100 beds, 20 isolation rooms, administrative office, etc., was equipped with Linear Accelerator, CT stimulator, Brachy therapy unit. The Unit is functional for September 2011 onwards.
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 2010-11 session was conducted on 06.06.2010 in 11 centers, Ahmedabad, Bengaluru, Bhopal, Guwahati, Kolkata, Nagpur, Puducherry, New Delhi, Chennai, Hyderabad and Thiruvananthapuram. A total 30798 applications were received and 21905 candidates appeared in the Entrance Examination. Out of the 10930 candidates who qualified in the Entrance Examination, 98 candidates were admitted based on their category merit rank. 18 candidates were nominated by the Government of India for the Academic Session 2010-11. The number of candidates admitted under the various categories is as under:-

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Category</th>
<th>Period 2010-11</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Unreserved (UR)</td>
<td>23</td>
</tr>
<tr>
<td>2</td>
<td>Other Backward Classes (OBC) Non-Creamy Layer</td>
<td>23</td>
</tr>
<tr>
<td>3</td>
<td>Scheduled Caste (SC)</td>
<td>13</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>09</td>
</tr>
<tr>
<td>7</td>
<td>Puducherry Scheduled Caste (P-SC)</td>
<td>05</td>
</tr>
<tr>
<td>8</td>
<td>Government of India nominations</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>116</td>
</tr>
</tbody>
</table>

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>Total</td>
<td>18</td>
</tr>
</tbody>
</table>

JIPMER 2010-2011 / 22
### Eligible Applicants category wise Qualified (2010)

<table>
<thead>
<tr>
<th>Category</th>
<th>Male</th>
<th>Female</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>UR</td>
<td>2086</td>
<td>2704</td>
<td>4790</td>
</tr>
<tr>
<td>OBC</td>
<td>2174</td>
<td>1982</td>
<td>4156</td>
</tr>
<tr>
<td>SC</td>
<td>827</td>
<td>585</td>
<td>1412</td>
</tr>
<tr>
<td>ST</td>
<td>176</td>
<td>154</td>
<td>330</td>
</tr>
<tr>
<td>P-UR</td>
<td>23</td>
<td>29</td>
<td>52</td>
</tr>
<tr>
<td>P-OBC</td>
<td>68</td>
<td>100</td>
<td>168</td>
</tr>
<tr>
<td>P-SC</td>
<td>09</td>
<td>13</td>
<td>22</td>
</tr>
<tr>
<td>TOTAL</td>
<td>5363</td>
<td>5567</td>
<td>10930</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>177</td>
</tr>
<tr>
<td>2</td>
<td>Other Backward Classes (OBC)</td>
<td>160</td>
</tr>
<tr>
<td>3</td>
<td>Scheduled Caste (SC)</td>
<td>148</td>
</tr>
<tr>
<td>4</td>
<td>Scheduled Tribe (ST)</td>
<td>138</td>
</tr>
<tr>
<td>5</td>
<td>Puducherry Unreserved (P-UR)</td>
<td>149</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>141</td>
</tr>
<tr>
<td>8</td>
<td>OPH</td>
<td>137</td>
</tr>
</tbody>
</table>

The duration of the course is 4 years and 6 months followed by one year Compulsory Rotatory Residency Internship. During the period of internship, the intern is paid Rs.10,250/- 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) (Urban)</td>
<td>1 Month 1 Month</td>
</tr>
<tr>
<td>2</td>
<td>General Medicine Including Psychiatry</td>
<td>1 ½ Months 15 Days</td>
</tr>
<tr>
<td>3</td>
<td>General Surgery Including Anesthesiology</td>
<td>1 ½ Months 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, 2010-11 session, was conducted on 25.7.2010. 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 2010-11, 30 candidates were admitted to the course.

B.Sc. Allied Medical Science Course

Four B.Sc. Courses was started from the year 2010-11 in the following disciplines:-

1. B.Sc. Medical Radiation Technology – 4 students
2. B.Sc. Perfusion Technology – 4 students
3. B.Sc. Operation Theatre Technology – 4 Students
4. B.Sc. Dialysis Technology – 4 students

P.H.T.T. (Pre-Hospital Trauma Technician) CERTIFICATE COURSE - Renamed as Emergency Medical Technician Course w.e.f. 2010-11

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)

Modular teaching and projects on common clinical problems were carried out by the 6th and 7th semester MBBS students. Screening for cancer, Nutrition in Health and diseases, Family planning, First aid, Peptic Ulcer, Counseling and communication strategies in hospital were among the topics covered. The hands-on training for first aid and communication strategies were evaluated.

JIPMER 2010-2011 / 24
POST-GRADUATE COURSES

Admission to the Postgraduate (M.D. / M.S.), Super Specialty (D.M./M.Ch.), Fellowship courses, M.Sc. (Medical Biochemistry) & M.Sc. (MLT- Microbiology) and Ph.D. Programs are based on Entrance Examination. During the Academic year 2010-11, 88 candidates were admitted to the Postgraduate (MD/MS) courses, 15 candidates were admitted to the Super Specialty courses, 3 candidates were admitted to the fellowship courses, 15 candidates were admitted to the Ph.D., programs, 20 seats at the Postgraduate level (MD/MS.) are reserved for institute candidates. 13 candidates were admitted to the M.Sc. Courses. 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>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>Physiology</td>
<td>4</td>
</tr>
<tr>
<td>3</td>
<td>Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>Pathology</td>
<td>6</td>
</tr>
<tr>
<td>6</td>
<td>Pharmacology</td>
<td>5</td>
</tr>
<tr>
<td>7</td>
<td>Transfusion Medicine</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>Community Medicine</td>
<td>3</td>
</tr>
<tr>
<td>9</td>
<td>General Medicine</td>
<td>8</td>
</tr>
<tr>
<td>10</td>
<td>General Surgery</td>
<td>8</td>
</tr>
<tr>
<td>11</td>
<td>Obstetrics &amp; Gynaecology</td>
<td>8</td>
</tr>
<tr>
<td>12</td>
<td>Pediatrics</td>
<td>6</td>
</tr>
<tr>
<td>13</td>
<td>Anaesthesiology</td>
<td>6</td>
</tr>
<tr>
<td>14</td>
<td>Dermatology, Venereology &amp; Leprosy</td>
<td>5</td>
</tr>
<tr>
<td>15</td>
<td>Ophthalmology</td>
<td>5</td>
</tr>
<tr>
<td>16</td>
<td>Orthopedic Surgery</td>
<td>4</td>
</tr>
<tr>
<td>17</td>
<td>Radio-diagnosis</td>
<td>3</td>
</tr>
<tr>
<td>18</td>
<td>Radiotherapy</td>
<td>2</td>
</tr>
<tr>
<td>19</td>
<td>Oto-Rhino Laryngology (ENT)</td>
<td>2</td>
</tr>
<tr>
<td>20</td>
<td>Psychiatry</td>
<td>1</td>
</tr>
<tr>
<td>21</td>
<td>Pulmonary Medicine</td>
<td>1</td>
</tr>
<tr>
<td>22</td>
<td>Forensic Medicine</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>88</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>780</td>
</tr>
<tr>
<td>OBC</td>
<td>755</td>
</tr>
<tr>
<td>INSTITUTE</td>
<td>731</td>
</tr>
<tr>
<td>OPH</td>
<td>560</td>
</tr>
<tr>
<td>SC</td>
<td>643</td>
</tr>
<tr>
<td>ST</td>
<td>630</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>3</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>2</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>3</td>
</tr>
<tr>
<td>7</td>
<td>M.Ch. CTVS</td>
<td>3</td>
</tr>
<tr>
<td>8</td>
<td>M.Ch. Neuro Surgery</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>15</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>2</td>
</tr>
<tr>
<td>2</td>
<td>Ph.D., Physiology</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>Ph.D., Pharmacology</td>
<td>4</td>
</tr>
<tr>
<td>4</td>
<td>Ph.D., Clinical Immunology</td>
<td>2</td>
</tr>
<tr>
<td>5</td>
<td>Ph.D. Pediatrics</td>
<td>2</td>
</tr>
<tr>
<td>6</td>
<td>Ph.D. Anatomy</td>
<td>2</td>
</tr>
<tr>
<td>7</td>
<td>Ph.D. Microbiology</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>16</td>
</tr>
</tbody>
</table>

FELLOWSHIP COURSES

1. Fellowship Course – 3 seats
2. Fellowship course in Medical Oncology – 2 seats
3. Fellowship course in Pediatric Critical and Emergency Care – 2 seats

JIPMER 2010-2011 / 26
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 2010-11 was 9 students and admission was made on the basis of the Entrance Examination.

M.Sc. MLT (Microbiology)
The Masters Course in MLT Microbiology was started during the academic year 2010-11 with an annual intake of 4 students. The course duration is of 2 years. The selection is based on the entrance examination.

OPTIONAL INTERNSHIP
Optional Internship programe for B.Sc. (Ng), B.Sc. MLT & EMTC courses were approved by Standing Finance Committee and started from the year 2010 with 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.

APPROVAL FOR LECTURES BY DISTINGUISHED FACULTY/INVITED SPEAKERS
The following Visiting Professors in various disciplines were invited by the Academic Section.

1. **Dr. T. S. Sathianarayana Rao**  
   HOD of Psychiatry,  
   J.S.S. Medical College, Mysore.  
   – Psychiatry

2. **Dr. K. B. Kumar**  
   Dean & Head  
   Sweekar Academy of Rehabilitation Sciences, Secundrabad.  
   – Psychiatry

3. **Dr. Shyam Sundar**  
   Prof. of Medicine  
   BHU, Varanasi  
   – Medicine

4. **Dr. Arun Kumar Rathi**  
   Professor in Radiotherapy  
   Maulana Azad Medical College  
   Lok Nayak Hospital, New Delhi.  
   – Radiotherapy

5. **Dr. Brigadier Ved Chaturvedi**  
   Professor, Consult Cl. Immunology & Rheumatology  
   AFH, New Delhi  
   – Clinical Immunology
SHORT TERM AND LONG TERM TRAINING PROGRAMMES

Students from many colleges are imparted training for 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, Regional Cancer Centre 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 the 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 / SYMPOSIUM/ WORKSHOP

   Tamil Nadu State Branch

2. CME on Breast Cancer – Radiotherapy

3. Laser Workshop – Dermatology


5. Workshop on Good Clinical Practice (GCP) – Pharmacology

6. Second Congenital Heart Diseases Device Closure workshop – Cardiology

7. National Insulin Summit – Medicine

8. International Workshop on Neuro-Disability and Rehabilitation – Neurology

9. CME on adolescent & Pediatrics Endocrinology – Medicine

CONVOCATION

The Second Convocation of JIPMER was held on 9th April 2011. Dr. V. Shantha Cancer Institute (WIA), Chennai 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 and the awards. The names of the candidates who received their degrees in person and the degrees awarded are detailed below:-

A total of 224 Degrees and 63 Medals were awarded. (In person 141 In Absentia 83)

JIPMER 2010-2011/28
LIST OF CANDIDATES WHO WERE AWARDED DEGREES

*Magister Chirurgiae (M.Ch.) – Urology* 02
1. Tarique Naseem
2. Siddharth Tyagi

*Doctor of Medicine (D.M.) – Cardiology* 01
1. Karthikeyan B.

*Post Doctoral Fellowship – Diabetology* 01
1. Dheeraj Jain S
   Doctor Of Medicine (M.D.)

*Anaesthesiology* 06
1. Ira Balakrishnan M
2. Mohan V K
3. Mohan Kumar R M
4. Shanil Jose
5. Shirley Stephen
6. Vinoth Kumar N V

*Doctor of Medicine (M.D.) – Anatomy* 02
1. Jayaprakash T
2. Rijied Thompson Swer

*Doctor of Medicine (M.D.) – Biochemistry* 02
1. Nagadharshan. D
2. Sathish Babu M

*Doctor of Medicine (M.D.) – Community Medicine* 02
1. Miss Lopamudra
2. Subitha L

*Doctor of Medicine (M.D.) Dermatology, Venereology & Leprology* 02
1. Rajalakshmi R
2. Tukaram Sori

*Doctor of Medicine (M.D.) – General Medicine* 08
1. Abraham Tharakan P K
2. Girish P
3. Jiffy Rasak V A
4. Kiran Kumar M
5. Ngopelo Keviechu
6. Nigil Cletus
7. Praveen R G
8. Srikanth B N

JIPMER 2010-2011/29
Doctor of Medicine (M.D.) – Microbiology
1. Apurba Sankar Sastry
2. Sadia Khan

Doctor of Medicine (M.D.) – Paediatrics
1. Avinash A
2. Rehna T
3. Rojo Joy
4. Sarojini S
5. Soumya Rose Thomas

Doctor of Medicine (M.D.) – Pathology
1. Femela M
2. Prabhavati J

Doctor of Medicine (M.D.) – Pharmacology
1. Shahid Akhtar Md
2. Surendiran A

Doctor of Medicine (M.D.) – Physiology
1. Amudharaj D
2. Thenmozhi D

Doctor of Medicine (M.D.) – Psychiatry
1. Arul Varman P

Doctor of Medicine (M.D.) – Pulmonary Medicine
1. Vijay Kumar

Doctor of Medicine (M.D.) – Radio-Diagnosis
1. Mahesh I
2. Prakash Muthusami

Master of Surgery (M.S.) – General Surgery
1. Ajit Agarwal
2. Alwin Gunaraj D
3. Balasubramanian G
4. George J Valooran
5. Hemachandren M
6. Senthil G
7. Siva Sanker M
8. Sunny Hage

Master of Surgery (M.S.) – Obstetrics & Gynaecology
1. Anitha A M
2. Catherine Leela P
3. Elizabeth Joseph
4. Jayavani R L
5. Nithya J
6. Priyanka Singh

JIPMER 2010-2011 / 30
7. Rashmi S  
8. Sushma V Dev  
*Master of Surgery (M.S.) – Ophthalmology*  
1. Anjali A  
2. Muthukrishnan V  
3. Shivaprasad C  

*Master of Surgery (M.S.) – Orthopaedics*  
1. Santhamooorthy T  
2. Saseendar S  

*Master of Surgery (M.S.) – Otorhinolaryngology*  
1. Kiruba Shankar M  
2. Satvinder Singh Bakshi  

*Diploma – Dermatology, Venereology & Leprology*  
1. Mane Mandar Vishwas  

*Diploma – Orthopaedics*  
1. Krishnakumar T  

*Diploma – Paediatrics*  
1. Lola Paulose  

*Diploma – Radio-Diagnosis*  
1. Savitha S J  

*Master of Science (M.Sc.) – Medical Biochemistry*  
1. Ashwini S  
2. Balachandiran M  
3. Bhanu Chandra K  
4. Golla Venkateswarlu  
5. Veena K  
6. Venkatapathy K  

*Bachelor of Medicine And Bachelor Of Surgery (M.B.B.S.)*  
1. Ananthanarayanan K  
2. Anju Nagar  
3. Ankit Dadra  
4. Anupama G Patil  
5. Anushree Radhakrishnan  
6. Arya Suman Mishra  
7. Babul Bansal  
8. Balachandar S  
9. Banothu Kiran Kumar  
10. Banupriya B  
11. Barkha Narayan  
12. Bhavana B Rao  
13. Bhinya Ram
14. Chetana Sen
15. Deepasree J
16. Dhanalakshmi A
17. Fahaduzzaman P
18. Galidevara Indira
19. Greeshma Raghavan
20. Haritha Gothati
21. Hema S
22. Inayat Panda
23. John Robert A
24. Kannan P
25. Kaptan Singh
26. Kausalya V
27. Krishnarpan Chatterjee
28. Minu Jose Chiramel
29. Nadiya Mudin M E
30. Nitish Virmani
31. Parthasarathy R
32. Pasupathy P
33. Pratheesh George Mathen
34. Ramyavel T
35. Ruchi Bhutungru
36. Rudra Narayan Mukherjee
37. Rupak Dhakal
38. Sambuddha Dhar
39. Sandeep Mohanty
40. Saranya R
41. Saravana Kumar S
42. Senilo Magh
43. Shakti P
44. Sindhu P
45. Srihari Deepak
46. Srinivas B
47. Subash Chettri
48. Swapna Rathod J
49. Varinder Singh Attri
50. Varun Meena
51. Vishakhadatta M K
52. Anoosha Nosina
53. Mohamed Mamdhooh
54. Takhe Takung
55. Ahmed Azhad
56. Amit Anand
57. Anjani Nandan Vaddi
58. Aritra Maji
59. Aseem Mahajan
60. Dilip Kumar
61. John Davis Akkara
<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>62</td>
<td>Mahendhra Murali S</td>
</tr>
<tr>
<td>63</td>
<td>Manoj Joseph</td>
</tr>
<tr>
<td>64</td>
<td>Meenachi C T</td>
</tr>
<tr>
<td>65</td>
<td>Sunil Baroopal</td>
</tr>
</tbody>
</table>

**Bachelor Of Science – Nursing**

1. Abinayaa R
2. Amsaveni M
3. Anandhamathi L
4. Anbu M
5. Angeline Divya N
6. Anna Ninan
7. Annet Desily A
8. Anu Sirah Kuruvilla
9. Archana D
10. Bangaramma S
11. Bharathi V
12. Catherine K
13. Chitra S
14. Fathima Mary V
15. Gnanasundaram K
16. Gowdhami D
17. Guna S
18. Gunavathy E
19. Harithapriya M
20. Hemalatha G
21. Hemapiya @ Salini S
22. Ilavarasi V
23. Indumathi M
24. Irusammal P
25. Janifer Xavier Albertina J
26. Jayanthi K
27. Jayapriya T
28. Jenifer Mary V
29. Jenifer Shera J
30. Kalaiselvi A
31. Kalaiselvi S
32. Kaliamoorthi K
33. Lalitha M
34. Lavanya E
35. Nancy Rachel M
36. Nandhini M
37. Neeraj Mathew Joseph
38. Nisa Francis
39. Nisha N
40. Padmavathi N
41. Pavithra M
42. Phebe E
43. Ponni R
44. Pramila Paul J
45. Preethy V
46. Prishanthini Anto A
47. Ralph Raja D
48. Ramya A
49. Reshma Singh D
50. Sabarinathan P
51. Sakthypriya S
52. Saranya K
53. Saranya K
54. Saranya P
55. Saranya R
56. Senthamizh S
57. Shanmugapriya S
58. Sheik Jagabardeen A
59. Shobana S
60. Shyamaladevi M
61. Sirimathisakthi K
62. Sivarajan V
63. Sivasankari D
64. Sonam N
65. Sudha M
66. Tamilarasay K
67. Udayarajan R
68. Vallatharasi B
69. Varalakshmi R
70. Varalakshmi V

Bachelor Of Science – Medical Laboratory Technology

1. Anand Suleman Juel Suren A
2. Birendra Prasad Gupta
3. Daisy Mariya Samadanam I
4. Mohanraj K
5. Parthasarathy R
6. Perumal Murthy S
7. Pintoo Kumar
8. Punam Yadav
9. Ruby Nancy W
10. Sakthivel A
11. Saravanan P
12. Sivaraman K
13. Vinu Balan V

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:

JIPMER 2010-2011 / 34
<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Subject</th>
<th>Name Of Endowment Prize</th>
<th>Criteria For Selection</th>
<th>Selected Candidate</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Anatomy</td>
<td>Dr. S. C. Mitra and Mrs. Geetha Mitra Endowment Prize</td>
<td>Student who Secures highest mark in the Annual Examination in Anatomy Subject in MBBS Course</td>
<td>Diana Thomas</td>
</tr>
<tr>
<td>2</td>
<td>Physiology</td>
<td>Smt. Nishamani Parija Endowment Prize</td>
<td>Student who Secures highest mark in the Annual Examination in Physiology in MBBS Course</td>
<td>Aswin Chandran C</td>
</tr>
<tr>
<td>3</td>
<td>Biochemistry</td>
<td>Dr. M.K. Ramanathan Memorial prize</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>Santosh Swaminathan</td>
</tr>
<tr>
<td>4</td>
<td>Best Student of First year MBBS</td>
<td>Mr. Ajay J Mathews Memorial Prize</td>
<td>Student who secures the highest IA mark in all pre-clinical subjects viz. Anatomy, Physiology &amp; Biochemistry</td>
<td>Santosh Swaminathan</td>
</tr>
<tr>
<td>5</td>
<td>Microbiology</td>
<td>A) 21st Annual Conference of Association of Pathologists and Microbiologists prize.</td>
<td>Student who secures the highest mark in all the notified IA tests including send up in the subject of Microbiology.</td>
<td>Awallpreet Singh Chadha</td>
</tr>
<tr>
<td></td>
<td></td>
<td>B) Dr. Vijay Kumar Moorthy Endowment Prize and</td>
<td>The MBBS student who secures the highest mark in the Annual Examination in the subject of Microbiology.</td>
<td>Awallpreet Singh Chadha</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C) Tropical Parasitology Endowment Prize</td>
<td>Interns who secure highest marks based on single common examination on theory.</td>
<td>Pratheesh George Mathen</td>
</tr>
<tr>
<td>Sl.No.</td>
<td>Subject</td>
<td>Name Of Endowment Prize</td>
<td>Criteria For Selection</td>
<td>Selected Candidate</td>
</tr>
<tr>
<td>--------</td>
<td>---------</td>
<td>-------------------------</td>
<td>------------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>6.</td>
<td>Pathology</td>
<td>A) 21st Annual Conference of Association of Pathologists and Microbiologists prize. And B) Dr. Vijay Kumar Moorhy Endowment Prize</td>
<td>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.</td>
<td>Pradosh Kumar Sarangi</td>
</tr>
<tr>
<td>7</td>
<td>Pharmacology</td>
<td>Dr. B.N. Ghosh Memorial Prize</td>
<td>Student who secures the highest mark in all the notified IA tests including send up in the subject of Pharmacology.</td>
<td>Shri Varthan, R.</td>
</tr>
<tr>
<td>8</td>
<td>Forensic Medicine</td>
<td>Instituted by BATCH OF 1981 Alumini</td>
<td>Based on the Highest Marks in Annual Examination.</td>
<td>Pradosh Kumar Sarangi</td>
</tr>
<tr>
<td>9</td>
<td>Best student of second MBBS</td>
<td>Sri Sudhir Chandra Bhattacharya Memorial Endowment Prize</td>
<td>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.</td>
<td>Shri Varthan, R</td>
</tr>
<tr>
<td>10</td>
<td>Ophthalmology</td>
<td>M/S South Arcot District Cooperative Supply and Marketing Society Ltd, Prize</td>
<td>Student who secures the highest mark in all the notified IA tests including send up in the subject of Ophthalmology.</td>
<td>1. A Nishanthi 2. P. Nirosha</td>
</tr>
<tr>
<td>Sl.No.</td>
<td>Subject</td>
<td>Name Of Endowment Prize</td>
<td>Criteria For Selection</td>
<td>Selected Candidate</td>
</tr>
<tr>
<td>-------</td>
<td>--------------------------------</td>
<td>----------------------------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>--------------------</td>
</tr>
<tr>
<td>11</td>
<td>P&amp;SM</td>
<td>A. Sri.N. Selvaradjalou Chettiar Memorial Prize and B.Sri.V. Manicassamy Endowment Prize</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>Nishanthi A</td>
</tr>
<tr>
<td>12</td>
<td>ENT</td>
<td>Dr. Sudha Balan Memorial Endowment Prize</td>
<td>Based on the Highest Marks in Annual examination</td>
<td>1. Mamatha Munaf</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2. Venkata Ganesh</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3. Vijai. W</td>
</tr>
<tr>
<td>13</td>
<td>Best student of Pre-final year MBBS</td>
<td>Dr. S. Lakshmanan Memorial Endowment Prize</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>Nishanthi A</td>
</tr>
<tr>
<td>14</td>
<td>Medicine</td>
<td>A) Dr. V. Murali Memorial Endowment Prize and B) Dr. V. Udayaraj Gold Medal,</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 MBBS The prize is awarded to First Rank holder in Medicine in annual Exam among Final MBBS students.</td>
<td>Ishita Laroiya</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Sakthivel H.</td>
</tr>
<tr>
<td>Sl.No.</td>
<td>Subject</td>
<td>Name Of Endowment Prize</td>
<td>Criteria For Selection</td>
<td>Selected Candidate</td>
</tr>
<tr>
<td>-------</td>
<td>--------------------------</td>
<td>-------------------------</td>
<td>---------------------------------------------------------------------------------------</td>
<td>--------------------</td>
</tr>
<tr>
<td>15.</td>
<td>Surgery</td>
<td>a) Mrs. S. Santoshwati</td>
<td>Student who secures the highest mark in all the notified IA tests including send up in the subject of Surgery.</td>
<td>Ishita Laroiya</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Memorial Prize and</td>
<td>Student who Secures highest mark in the annual Examination in Surgery in MBBS Course</td>
<td>Rathnaprathheep R</td>
</tr>
<tr>
<td></td>
<td></td>
<td>b) Smt.Nishamani Parija</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Endowment Prize</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16.</td>
<td>Obstetrics and Gynecology</td>
<td>A) Dr. (Mrs). S. N.</td>
<td>Student who secures highest mark in all the notified IA tests including send up in the subject of Obstetrics and Gynaecology.</td>
<td>Sherin Jacob</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mukherjee Gold Medal</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>and</td>
<td></td>
<td>Kishlay Kishore</td>
</tr>
<tr>
<td></td>
<td></td>
<td>B) Dr.Uvathy</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Memorial Endowment Prize</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17.</td>
<td>Pediatrics</td>
<td>Mrs. Susheela Selvaradjoulou Memorial Prize</td>
<td>Student who secures the highest mark in all the notified IA tests including send up in the subject of Pediatrics.</td>
<td>Vasantham. T</td>
</tr>
<tr>
<td>18.</td>
<td>Psychiatry</td>
<td>Indian Psychiatric</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>Ms. B. Dasabharathy @ Yuvashree</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Society(South Zone)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Endowment Prize</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19.</td>
<td>Dermatology and STD</td>
<td>Indian Association of</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>Mr. Vaitheeswaran L.G.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dermatologist, Venereologist and Leprologist Medal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sl.No.</td>
<td>Subject</td>
<td>Name Of Endowment Prize</td>
<td>Criteria For Selection</td>
<td>Selected Candidate</td>
</tr>
<tr>
<td>-------</td>
<td>------------------</td>
<td>--------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------------------</td>
<td>------------------------------</td>
</tr>
<tr>
<td>20.</td>
<td>Anesthesiology</td>
<td>A) ISA and B) Dr. Chakravarthy Memorial prize</td>
<td>Single notified prize exam, (theory only)</td>
<td>Pratheesh George Mathen</td>
</tr>
<tr>
<td>21.</td>
<td>Orthopedics</td>
<td>Dr. Vijay Kumar Moorthy Endowment Prize</td>
<td>MBBS Student who secures the highest mark in internal assessment in the subject of Orthopedics.</td>
<td>Kislay Kishore</td>
</tr>
<tr>
<td>22.</td>
<td>Cardiology</td>
<td>MOH Hassan Kuthoose Marikar Endowment Prize</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>Pratheesh George Mathen</td>
</tr>
<tr>
<td>23.</td>
<td>Neurology</td>
<td>Dr. K.G.S. Nanda Endowment prize</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>Anantha-narayanan. K</td>
</tr>
<tr>
<td>24.</td>
<td>Radiotherapy (ONCOLOGY)</td>
<td>Mrs.Subhadra Devi &amp; Dr.K.V.K.Rao</td>
<td>Best UG student in ONCOLOGY(based on a test involving Medical, Surgical &amp; Radiation oncology)</td>
<td>Pratheesh George Mathen</td>
</tr>
<tr>
<td>25.</td>
<td>Best Student of final MBBS</td>
<td>Brigadiar A. Nilakantan Memorial Prize</td>
<td>Best Student of final MBBS based on the cumulative total marks of all four subjects of final MBBS in the annual Examinations</td>
<td>1. Ishita Laroiya 2. Kislay Kishore</td>
</tr>
<tr>
<td>Sl.No.</td>
<td>Subject</td>
<td>Name Of Endowment Prize</td>
<td>Criteria For Selection</td>
<td>Selected Candidate</td>
</tr>
<tr>
<td>-------</td>
<td>----------------------------------------------</td>
<td>--------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>--------------------</td>
</tr>
</tbody>
</table>
2) Belong to the Regular Batch  
3) Should have joined Internship at least on 1st January and completed on 31st December                                                                                                                                 | P. Pasupathy       |
| 27.   | Best all rounder among outgoing MBBS Students | Dr. K.S. Sridhar Memorial JIPMER Alumni Association Prize and Sri. M.C. Rama Varma Valia Raja Memorial Gold Medal | Criteria Circulated Separately.                                                                                                                                                                                                                                                  | John Robert        |
| 28.   | Best outgoing MBBS graduate of the Year      | Dr. Vikrant Gupta Memorial Medal                             | The Prize is awarded based on the aggregate in total of all the annual Exam Marks from first to final year MBBS exams passed without any failure.                                                                                                                                   | Minu Jose Chiramel |
## POST GRADUATES

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Subject</th>
<th>Name Of Endowment Prize</th>
<th>Criteria For Selection</th>
<th>Selected Candidate</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Medicine</td>
<td>Thaiyal Nayaki Gold Medal</td>
<td>The prize is awarded to best PG Thesis in MD (General Medicine)</td>
<td>Praveen R.G.</td>
</tr>
<tr>
<td>2</td>
<td>MD General Medicine</td>
<td>Dr. S. C. Mitra and Mrs. Geetha Mitra</td>
<td>Scoring highest mark in the annual Examination in MD General Medicine</td>
<td>Praveen R.G.</td>
</tr>
<tr>
<td>3</td>
<td>MD Paediatrics</td>
<td>Dr. Balakrishnan Prize</td>
<td>Scoring highest mark in the annual Examination in MD Paediatrics</td>
<td>Rojo Joy</td>
</tr>
<tr>
<td>4</td>
<td>Obstetrics and Gynaecology</td>
<td>Dr. A.V. Umachigui Memorial Gold Medal</td>
<td>The student who secures First rank in IA, plus a pass in MD in first attempt in the subject of Obst. &amp; Gynaecology</td>
<td>Catherine Leela. P.</td>
</tr>
<tr>
<td>5</td>
<td>Anesthesiology</td>
<td>Dr. Sunitha Shorey Memorial Gold Medal</td>
<td>The award is based on a Single notified prize exam, clinical and theory in the subject of Anesthesiology</td>
<td>Ira Balakrishnan</td>
</tr>
<tr>
<td>6</td>
<td>Dermatology and STD</td>
<td>Indian Association of Dermatology and Venereology Medal</td>
<td>PG student who secures First rank in Final MD.</td>
<td>Rajalakshmi R</td>
</tr>
<tr>
<td>7</td>
<td>Biochemistry</td>
<td>K. Chudiwala endowment prize</td>
<td>The student who secures highest mark in all the notified IA tests in the subject of Biochemistry.</td>
<td>None</td>
</tr>
<tr>
<td>8</td>
<td>MS General Surgery</td>
<td>a) Dr. S. C. Mitra and Mrs. Geetha Mitra</td>
<td>I. Scoring highest mark in the annual Examination in MS General Surgery</td>
<td>II. Senthil G. Shiva Sankar</td>
</tr>
<tr>
<td></td>
<td></td>
<td>b) Prof. B.N. Balakrishna Rao</td>
<td>Scoring highest marks in internal assessment marks.</td>
<td></td>
</tr>
<tr>
<td>Sl.No.</td>
<td>Subject</td>
<td>Name Of Endowment Prize</td>
<td>Criteria For Selection</td>
<td>Selected Candidate</td>
</tr>
<tr>
<td>-------</td>
<td>------------</td>
<td>-------------------------</td>
<td>------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>9.</td>
<td>Orthopedics</td>
<td>Dr. Vijay Kumar</td>
<td>The Post graduate student who secures the highest marks or the first rank in the subject of Orthopedics in the annual Examination among Jipmer Students.</td>
<td>Sasseendar S.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Endowment Prize</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Ophthalmology</td>
<td>a) XVIII Madras Ophthalmologic Conference Medal And Mr. K.S.V. Sivaram</td>
<td>PG student who secures First Rank in the annual examination. Best PG student in Ophthalmology (to be judged by conducting an examination by the department)</td>
<td>Muthukrishnan</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>V. Aarthi V</td>
</tr>
<tr>
<td>11</td>
<td>CTVS</td>
<td>Dr. PS Narayanan Memorial Prize</td>
<td>The award is based in the performance in annual examination, not awarded every year unless a standard is reached and recommended by the examiners</td>
<td>None</td>
</tr>
<tr>
<td>12</td>
<td>Neurology</td>
<td>Dr. S. Chandrasekar Endowment Prize</td>
<td>Based on a single common Exam. Theory final year PG Residents in the Dept. of Medicine, Paediatrics, Psychology, Surgery and Anaesthesiology.</td>
<td>Sreejith. V</td>
</tr>
</tbody>
</table>
## Undergraduate

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Subject</th>
<th>Name Of Endowment Prize</th>
<th>Criteria For Selection</th>
<th>Selected Candidate</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Pediatrics</td>
<td>Best performance in University Exams</td>
<td>Su Kannan Endowment Prize</td>
<td>Suvasini L</td>
</tr>
<tr>
<td>2</td>
<td>Surgery</td>
<td>Best Undergraduate in Surgery</td>
<td>JIPMER Alumni Association Dr. Chaudhary Memorial Prize</td>
<td>Rathna Pratheep</td>
</tr>
</tbody>
</table>

## Postgraduate

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Subject</th>
<th>Name Of Endowment Prize</th>
<th>Criteria For Selection</th>
<th>Selected Candidate</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Surgery</td>
<td>Best Post Graduate in Surgery</td>
<td>JIPMER Alumni Association Dr. S.B. Sen Memorial Prize</td>
<td>Senthil G</td>
</tr>
<tr>
<td>2</td>
<td>Pathology</td>
<td>Best Post Graduate in Pathology</td>
<td>JIPMER Alumni Association Dr. D.J. Reddy Memorial Prize</td>
<td>Femela M</td>
</tr>
</tbody>
</table>

## Para Medical Courses

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Subject</th>
<th>Name Of Endowment Prize</th>
<th>Criteria For Selection</th>
<th>Selected Candidate</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>M.Sc. Medical Biochemistry</td>
<td>Satya Bhama Murali Endowment Prize</td>
<td>M.Sc student who secures highest mark in all notified test for IA in the subject of M.Sc. Medical Biochemistry.</td>
<td>Veena K</td>
</tr>
<tr>
<td>2</td>
<td>Best outgoing B.Sc (MLT) student</td>
<td>Institute</td>
<td>Based on the aggregate of total in all the annual Exam marks from first to final semester without any failure</td>
<td>Birendra Prasad Gupta</td>
</tr>
</tbody>
</table>
## ENDOWMENT PRIZE INSTITUTED FROM THE YEAR 2010
### UNDERGRADUATE

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Subject</th>
<th>Criteria For Selection</th>
<th>Name Of Endowment Prize</th>
<th>Selected Candidate</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Pharmacology</td>
<td>Student who score highest marks in second MBBS examination - Pharmacology</td>
<td>Prof. C.H. Sashindran Gold Medal</td>
<td>Pradash Kumar Sarangi</td>
</tr>
<tr>
<td>2</td>
<td>Best outgoing lady MBBS student</td>
<td>The prize is awarded based on the aggregate in total of all the annual Exam Marks from first to final MBBS exams passed without any failure.</td>
<td>A.N. Thyagarajan Memorial Medal</td>
<td>Minu Jose Chiramel</td>
</tr>
</tbody>
</table>

### POSTGRADUATE

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Subject</th>
<th>Criteria For Selection</th>
<th>Name Of Endowment Prize</th>
<th>Selected Candidate</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Pharmacology</td>
<td>Outstanding performance in MD Pharmacology Course</td>
<td>Prof. M.N. Ghosh Gold Medal</td>
<td>From Next Year</td>
</tr>
<tr>
<td>2</td>
<td>Cardiology</td>
<td>For the subject of Cardiology conducted by the department of medicine.</td>
<td>Dr. D.B. Bisht Endowment Prize - Prize in cardiology for PG’s in MD Medicine</td>
<td>Chandramohan R</td>
</tr>
<tr>
<td>3</td>
<td>Microbiology</td>
<td>PG student who secures first rank in annual examination in MD Microbiology</td>
<td>Dr. Srirangam Sitharam Shreeram Memorial Fund</td>
<td>Sadia Khan</td>
</tr>
<tr>
<td>4</td>
<td>Biochemistry</td>
<td>PG student who secures first rank in university examination in MD Biochemistry</td>
<td>Dr. Srirangam Sitharam Shreeram Memorial Fund</td>
<td>None</td>
</tr>
</tbody>
</table>
RESEARCH

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Subject</th>
<th>Criteria For Selection</th>
<th>Name Of Endowment Prize</th>
<th>Selected Candidate</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Three annual Institute awards for Research</td>
<td>JIPMER SCIENTIFIC SOCIETY Best paper in Scientific Society for Resident Category</td>
<td>Dr. D.B. Bisht Endowment Prize</td>
<td>Dr. Ajit Agarwal</td>
</tr>
</tbody>
</table>

PARAMEDICAL

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Subject</th>
<th>Criteria For Selection</th>
<th>Name Of Endowment Prize</th>
<th>Selected Candidate</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Best Outgoing B.Sc. Nursing Student</td>
<td>The Prize is awarded based on the aggregate in total of all the annual Exam. Marks from first to final exams passed without any failure.</td>
<td>Dr. D.B. Bisht Endowment Prize</td>
<td>Dr. Ajit Agarwal</td>
</tr>
</tbody>
</table>

THESIS TOPICS

Ph.D.,


5. Influence of some polymorphic Genes on Phenytoin plasma levels, Toxicity, Dose requirement and clinical response in Epileptic Patients. - Kesavan R (Pharmacology).

6. Medical Bacteriology (Medical Microbiology) Leptospirosis; Serological and Molecular Diagnosis. - Shekatkar Smita Benjamin (Microbiology).


JIPMER 2010-2011 / 45
10. Isolation of Cleistanthin A and B from Cleistanthus collinus Roxb., levels and evaluation of Pharmacological and toxicological profile of cleistanthin A and B in animal models. - Parasuraman S (Pharmacology)

11. Pharmacogenomics – Oral Anticoagulants. - Krishna Kumar D (Pharmacology)

12. Pharmacogenomics. - A S Arun Kumar (Pharmacology)

13. Pharmacogenomics. - Umamaheswaran G (Pharmacology)

14. DNA Damage studies in Perinatal Asphyxia. - Manoj (Anatomy)

15. Molecular Characterization of Extended Spectrum â- Lactamase (ESBL) in clinical isolates of Enterobacteriaceae from Pondicherry. -Mohamudha Parveen R (Medical Microbiology)

16. Molecular basis of post menopausal effect on Insulin resistance and Cardiovascular diseases - Smitha Mariam Koshy (Medical Biochemistry)

17. Effect of yoga therapy on cardiac autonomic function and oxidative stress in prehypertensive subjects a randomized controlled study. -Ramkumar T (Medical Physiology)

18. Development and Evaluation of Recombinant Antigen(s) in Diagnosis of Neurocysticercosis. - Gireesh A R (Microbiology)

19. Pharmacogenomics. - Kayathiri D (Pharmacology)

20. Pharmacogenomics. - Anichavezhi D (Pharmacology)

21. Molecular basis of insulin resistance and its complications in high fat fed ovariectomized Wister Rats : Effect of Treatment. - Sankar P (Medical Biochemistry)

22. Immunology, Immunogenetics. - Christina Mary M (Clinical Immunology)

23. Immunology, Immunogenetics. - Panneer D (Clinical Immunology)

24. Molecular basis of the effects of Garcinia cambogia extracts on obesity and insulin sensitivity in Diet induced obese and insulin resistant animal models. -Sripradha R (Medical Biochemistry)

25. Endocrinology. - Ashwini S (Medical Biochemistry)

26. Pharmacogenomics. - Aarthi M (Pharmacology)

27. Clinical Immunogenetics. -Indhumathi S (Medical Biochemistry)

28. Diabetes Mellitus. - Rupa Devi M (Pharmacology)

29. Perinatal Asphyxia. - Bahubali D Gane (Paediatrics)

30. Immunology. -Saravanan R (Clinical Immunology)

31. Pharmacogenomics. - Indumathi C (Pharmacology)

32. Population pharmacokinetics & Pharmacogenomics of Imatinib in CML Patients. - Jose Francis (Pharmacology)
33. Molecular Immunology. - Niveditha M (Clinical Immunology)
34. Resigned & Relived. - Rajitha V (Medical Anatomy)
35. Bacteriology. - Radha S (Medical Microbiology)
36. Parasitology. - Dhanalakshmi S (Medical Microbiology)
37. Effects of Gender on Autonomic Disfunctions in Hypothyroidism: Correlation with Blood pressure, BMI, Oxidative Stress, Lipid profile & Inflammatory Marker. - Naga Symsundara Kiran (Medical Physiology).
38. Cardiovascular System. - Bandi. Hari Krishna (Medical Physiology)
41. Hypertension Research. - Dr. G.K. Pal (part time Internal) (Physiology).
43. Medical Physics – Radiotherapy. - Mr. Saravanan K (Part time – Internal) (Medical Physics).
44. Molecular basis of the Effect of Curcumin on insulin Resistance and its Associated Complications in Diabetes and obesity. - Ms. Maithili Karpaga Selvi (Biochemistry).

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

DEPARTMENT OF ANATOMY

<table>
<thead>
<tr>
<th></th>
<th>Dr. Aravinthan S</th>
<th>Assessment of DNA damage by Comet Assay in babies with neural Tube defects and its association with the level of plasma folic acid and Homocysteine.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Dr. Anitha Nancy T</td>
<td>Assessment of DNA damage by comet Assay for neonatal jaundice in Pre &amp; Post Phototherapy.</td>
</tr>
<tr>
<td>3</td>
<td>Dr. Hariharan D.R</td>
<td>Evaluation of DNA damage in Type I Diabetic patients by Sister Chromatid Exchange.</td>
</tr>
</tbody>
</table>

DEPARTMENT OF E.N.T.

<table>
<thead>
<tr>
<th></th>
<th>Dr. Amjad Farook Z A</th>
<th>Efficacy of Triamcinolone nasal pack in Endoscopic sinus surgery – a randomized placebo controlled study.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Dr. Kalaiarasi R</td>
<td>A randomized controlled study comparing the hearing outcomes of diode laser Stapedotomy with conventional Stapedotomy in Otosclerosis.</td>
</tr>
</tbody>
</table>
### DEPARTMENT OF OPHTHALMOLOGY

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr. Amit Kumar Deb</td>
<td>Association of Glaucoma with Systemic Hypertension – an Observational Study.</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Ganne Pratyusha</td>
<td>The Retinal changes in patients on long term Chloroquine or Hydroxy Chloroquine therapy using optical coherence tomography (OCT)</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. Lavanya A</td>
<td>Preoperative Subpterygeal injection and Intraoperative Topical Mitomycin C for Pterygium Removal: Comparison of Recurrence rate and Complications.</td>
</tr>
<tr>
<td>5.</td>
<td>Dr. A.P. Vignesh</td>
<td>Ocular Manifestations of Rheumatoid Arthritis</td>
</tr>
</tbody>
</table>

### DEPARTMENT OF ORTHOPEDICS

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr. K. Varun Krishna</td>
<td>Epidemiological study for evaluation of Etiology and Risk Factors in patients with low back pain</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Nandish Kumar K.C</td>
<td>Evaluation of effectiveness of limited Access dressing in the management of Type IIIA and Type IIIB open fractures with extensive soft tissue loss.</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Gipson Samuel T</td>
<td>Role of Platelet rich plasma (PRP) in accelerating fracture union in patients with impaired fracture healing.</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. Rahematullah Abdul Qaiyyum</td>
<td>Evaluation of Epidemiological and Genetic Risk Factors Associated with Idiopathic Congenital Talipes Equinovarus in an Indian Population.</td>
</tr>
</tbody>
</table>

### DEPARTMENT OF DERMATOLOGY, VENE. & LEPROSY

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr. Priya Bishnoi (2009 batch)</td>
<td>Clinical and Laboratory study of skin and soft tissue infections caused by Staphylococcus Aureus and its susceptibility to antibiotics with particular reference to Mupirocin and Fusidic acid.</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Nishant B. Ghodake</td>
<td>Dermoscopic study of hair shaft disorders and Alopecias from a tertiary care centre in south India.</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Laxman Besra</td>
<td>A descriptive study of Periorbital Dermatoses</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. Divya Gupta</td>
<td>Mongolian Spots in Newborns: A Prospective Study.</td>
</tr>
<tr>
<td>5.</td>
<td>Dr. B. Pradeep</td>
<td>A comparative study to Evaluate the Efficacy of Intralesional MMR (Mumps, Measles and Rubella) Vaccine Versus Intralesional Candida Albicans antigen in the treatment of Cutaneous warts.</td>
</tr>
</tbody>
</table>
### DEPARTMENT OF PREVENTIVE AND SOCIAL MEDICINE

1. Dr. Suguna E  
   Prevalence and determinants of hearing impairment among 5-14 years school children.

2. Dr. Sahana C.M.  
   Prevalence of Cardiovascular Morbidity and risk factors among > 30 years in rural Pondicherry.

3. Dr. Hemalatha K  
   Parental Stress, Coping, Social support and Nutritional status among mentally retarded children.

### DEPARTMENT OF PHARMACOLOGY

1. Dr. Ravindra B.K  
   Effect of doubling the dose of Clopidogrel in non-responders with 75 mg once daily dose and it's relation to CYP2C19 genetic polymorphism in South Indian Population

2. Dr. Mani Prabhu Kumar. M  
   Effect of ABCB1 and ABCC1 polymorphisms on the lipid lowering response and adverse effect profiles of Atorvastatin in Hypercholesterolemic patients.

3. Dr. R.P. Priyadharsini  
   Evaluation of the antihypertensive activity of Cleistanthin A and B in Sprague Dawley Rats.

4. Dr. Rajani Anil Kanaiyalal  
   Influence of DPYD*2A (Dihydropyrimidine Dehydrogenase gene) mutation on 5-fluourouracil/ capecitabine induced toxicity.

### DEPARTMENT OF MICROBIOLOGY

1. Dr. Nandita Shashindran  
   Panton-Valentine Leukocidin As a Marker of Community-Associated Methicillin Resistant Staphylococcus Aureus (CA-MRSA) From Skin and Soft Tissue Infections

2. Dr. Dinoop. K.P.  
   Evaluation of real-time PCR in diagnosis of Amebiasis

3. Dr. Maanasa Bhaskar. M  
   Carbapenemase Producing Isolates of Klebsiella species, Escherichia coli and Enterobacter species From Blood.

4. Dr. Sangeetha. A.V.  
   Clinico-Microbiological profile of shigellosis in children.

5. Dr. Ashwini. M.A.  
   Evaluation of NS1 antigen detection as an alternative to RT-PCR for the early diagnosis of Dengue.

### DEPARTMENT OF TUBERCULOSIS & C.D.

1. Dr. Venugopal. J  
   Role of Intrapleural Streptokinase for Empyema and complicated Parapneumonic effusions-A randomized controlled trial.

---

JIPMER 2010-2011 / 49
### DEPARTMENT OF PATHOLOGY

<table>
<thead>
<tr>
<th></th>
<th>Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dr. Shilpa Rao</td>
<td>Role of fine needle aspiration cytology in necrotizing lesions.</td>
</tr>
<tr>
<td>2</td>
<td>Dr. Asma Bibi</td>
<td>Correlation of Pulmonary Hemodynamic Parameters with Histologic grading of Lung Biopsy in congenital heart disease patients</td>
</tr>
<tr>
<td>3</td>
<td>Dr. Kalaivani @ Selvi. S</td>
<td>P16, CK17, p63 in distinguishing cervical Squamous intraepithelial lesions from its mimics.</td>
</tr>
<tr>
<td>4</td>
<td>Dr. M. Elancheran</td>
<td>Histopathological study of vessel wall in patients with arterial occlusive disease</td>
</tr>
<tr>
<td>5</td>
<td>Dr. Niraimathi. M</td>
<td>Fine needle aspiration cytology of salivary gland Neoplasms and their Histopathologic correlation</td>
</tr>
<tr>
<td>6</td>
<td>Dr. Sarah Grace Priyadarshini</td>
<td>Immunohistochemical profile and bone marrow angiogenesis in multiple Myeloma with reference to its clinical significance.</td>
</tr>
</tbody>
</table>

### DEPARTMENT OF PHYSIOLOGY

<table>
<thead>
<tr>
<th></th>
<th>Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dr. Gopinath. M</td>
<td>Heart rate variability and classical cardiovascular autonomic function tests in children: correlation with anthropometric parameters.</td>
</tr>
<tr>
<td>2</td>
<td>Dr. Lalitha. V</td>
<td>Gender difference in adiposity and immunological parameters in Ventromedial hypothalamus and Posterodorsal amygdale Lesioned albino Wistar rats.</td>
</tr>
<tr>
<td>3</td>
<td>Dr. Grrishma. B</td>
<td>Effect of yoga training on autonomic functions and reaction time in young healthy females during different phases of menstrual cycle.</td>
</tr>
<tr>
<td>4</td>
<td>Dr. Dinesh. T</td>
<td>Effects of slow and fast Pranayams on Pulmonary function, handgrip strength and endurance in young healthy volunteers-A randomized controlled trial.</td>
</tr>
</tbody>
</table>

### DEPARTMENT OF PSYCHIATRY

<table>
<thead>
<tr>
<th></th>
<th>Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dr. Sugaparaneetharan. A</td>
<td>Control study of impulsivity in children of persons with alcohol dependence.</td>
</tr>
<tr>
<td>1.</td>
<td>Dr. Ajayan. P</td>
<td>Clinical profile and predictive risk factors for major infections in nephritic syndrome.</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Nandhini. L.P.</td>
<td>Probiotics therapy for prevention of necrotizing Entero colitis in preterm infants – A randomized controlled trial.</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Sunita Namdev</td>
<td>Oxidative stress and antioxidant status in neonates born to pre Eclamptic mothers and their effect on early neonatal outcome.</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. Bharathi. B</td>
<td>Inflammatory Mediators as Markers of Infection and Predictors of Outcome in Perinatal Asphyxia.</td>
</tr>
<tr>
<td>5.</td>
<td>Dr. Hari Krishnan. K.N.</td>
<td>Clinical profile and risk factors in children diagnosed with specific learning disability</td>
</tr>
<tr>
<td>1.</td>
<td>Dr. Ponraj. M</td>
<td>Clinical, Neuroelectrophysiological and outcome study of intermediate syndrome in acute organophosphate poisoning.</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. N.S. Ramasubramanian</td>
<td>Prospective randomized control trial of ultrasound guided Percutaneous needle aspiration plus Metronidazole versus Metronidazole alone in the management of uncomplicated amoebic liver abscess.</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Aishwarya Krishnamurthy</td>
<td>Study of Clinical Profile, Co-Morbidities and Evaluation of HbA1c and Diabetes in Pregnancy Study Group India (DIPSI) Criteria in Diagnosis of Gestational Diabetes Mellitus.</td>
</tr>
<tr>
<td>6.</td>
<td>Dr. B. Karthikeyan</td>
<td>A prospective study of the clinical profile in hospital outcomes and 90-days survival of medically ill patients receiving mechanical ventilation.</td>
</tr>
<tr>
<td>7.</td>
<td>Dr. Susmitha. CH</td>
<td>A study of renal tubular function abnormalities in patients with spontaneous symptomatic Hypokalemia.</td>
</tr>
</tbody>
</table>
### DEPARTMENT OF OBSTETRICS & GYNAECOLOGY

<table>
<thead>
<tr>
<th>No.</th>
<th>Author</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr. Vijay Krishnan. V</td>
<td>Comparison of efficacy of combination of Isosorbide Mononitrate and Misoprostol with Misoprostol alone for induction of labour: A randomized controlled trial.</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Galidevara Chandana</td>
<td>Comparison of oral vaginal and sublingual Misoprostol for induction of labour in Prelabour rupture of membranes at or after 34 weeks of gestation: A randomized clinical trial.</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Anusha. M.S.R.</td>
<td>Clinical Profile of Stillbirths.</td>
</tr>
<tr>
<td>5.</td>
<td>Dr. Jyoti Sharma</td>
<td>Study of placental and cord abnormalities in clinically unexplained late stillbirths.</td>
</tr>
<tr>
<td>6.</td>
<td>Dr. Kalaranjani. S</td>
<td>Randomized controlled trial of administration of single dose Ceftriaxone for elective cesarean section before skin incision and after cord clamping.</td>
</tr>
<tr>
<td>8.</td>
<td>Dr. Anirban Dasgupta</td>
<td>Pregnancy outcome in Obesity</td>
</tr>
</tbody>
</table>

### DEPARTMENT OF BIOCHEMISTRY

<table>
<thead>
<tr>
<th>No.</th>
<th>Author</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr. K. Srilatha</td>
<td>Atherothrombotic risk factors among first degree relatives of ischemic stroke patients.</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Nithin Kumar. U</td>
<td>Role of a composite panel of serum Tumour markers in the diagnosis of endometrial carcinoma.</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Arul Vijaya Vani. S</td>
<td>A study on the effects of Vitamin D and Calcium supplementation on side effects profile in patients of breast cancer treated with Letrozole.</td>
</tr>
</tbody>
</table>

**LIST OF DISSERTATION TITLES SUBMITTED BY SECOND YEAR M.Sc. (Medical Biochemistry) STUDENTS**

<table>
<thead>
<tr>
<th>No.</th>
<th>Author</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.</td>
<td>Aswathi Anand P.A.</td>
<td>Relationship between hormonal fluctuations and maternal depression during postpartum.</td>
</tr>
<tr>
<td>3.</td>
<td>R. Kalai Selvi</td>
<td>Total Sialic acid, Lipid associated Sialic acid in patients with Ischemic and Non Ischemic heart Failure.</td>
</tr>
<tr>
<td>4.</td>
<td>Tandrapad Priyanka</td>
<td>Comparison of serum Cystatin-C and Creatinine with Tc\textsuperscript{99m} DTPA as indices of renal Glomerular function in south Indian Population.</td>
</tr>
<tr>
<td>9.</td>
<td>Aiswarya. S</td>
<td>Evaluation of blood levels of Homocysteine, Brian Derived Neurotrophic factor (BDNF) and Serotonin during Postpartum maternal depression.</td>
</tr>
</tbody>
</table>

**DEPARTMENT OF SURGERY**

| 1. | Dr. P. Sridhar | Effect of Perioperative systemic Lignocaine on postoperative pain and Ileus in patients undergoing elective open abdominal surgeries – A double blinded randomized control trial. |
| 2. | Dr. Chakarvati Kapil Ramesh | Role of Pre-Operative abdominal drains in patients with peritonitis unfit for early surgery. |
| 3. | Dr. Vinothan. J.S. | Molecular Subtyping of breast cancer and its correlation to clinical stage and response to Neoadjuvant chemotherapy or hormone therapy. |
| 4. | Dr. Vijay Ganapathy. S | Acute Upper Gastro Intestinal Bleeding at JIPMER – A Prospective study. |
| 5. | Dr. Harin Asokan | Effect of Zoledronic Acid on disseminated tumor cells in women with locally advanced breast cancer – a randomized controlled trial. |
| 6. | Dr. Phanikumar. N | Spectrum of small bowel perforation in a tertiary care hospital of South India: Predictors of morbidity and mortality. |
| 7. | Dr. Deepak B | |
### DEPARTMENT OF ANAESTHESIOLOGY

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr. Shriram Vaidya</td>
<td>Vocal cord function following the use of cuffed &amp; Cuffless Supraglottic airway devices.</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Sai Saran. P.V.</td>
<td>Comparison of I-Gel versus Proseal LMA in Paediatric Population under General Anaesthesia.</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Santhalakshmi. A</td>
<td>The comparison of stroke volume variation with standard Hemodynamic measurements in predicting fluid responsiveness in septic patients with acute circulatory failure.</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. Savitri. V</td>
<td>Role of oral Ketamine and Dexmedetomidine in adult burns dressing. A randomized double blind cross over study.</td>
</tr>
<tr>
<td>5.</td>
<td>Dr. Ranjan Raj Pandey</td>
<td>Evaluation of Ropivacaine (H) versus Bupivacaine (H) for spinal anesthesia.</td>
</tr>
<tr>
<td>6.</td>
<td>Dr. Raghava. A</td>
<td>A comparison of 3% Hypertonic Saline and Mannitol 20% for Brain Relaxation during elective Supratentorial Brian Tumor Surgery.</td>
</tr>
</tbody>
</table>

### DEPARTMENT OF RADIO – DIAGNOSIS

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr. Sandeep B.S</td>
<td>“Characterisation of focal liver lesions with contrast enhanced sonography: in comparison to CECT”</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Pallavi B</td>
<td>The Role of MR- Virtual Cystoscopy in the Diagnosis of Urinary Bladder Cancer.</td>
</tr>
</tbody>
</table>

### DEPARTMENT OF RADIOTHERAPY

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr. Sudhakar. K</td>
<td>Effect of source strength of the High dose Rate Iridium – 192 Radioisotope on local control and late normal tissue toxicity (bladder and rectum) in the treatment of Carcinoma cervix.</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Vinin. N.V.</td>
<td>Early cardiac changes due to doxorubicin based chemotherapy and radiotherapy in early stage and locally advanced carcinoma breast patients: A Descriptive study.</td>
</tr>
</tbody>
</table>
DEPARTMENT OF TRANSFUSION MEDICINE

<table>
<thead>
<tr>
<th></th>
<th>Name</th>
<th>Project/Research Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dr. Mohandoss. M</td>
<td>Blood Transfusion practice in Obstetrics in our Hospital</td>
</tr>
<tr>
<td>2</td>
<td>Dr. Sabari Priya. E</td>
<td>Prevalence of RH and irregular antibodies among pregnant women and its implications.</td>
</tr>
</tbody>
</table>

P.G.STUDENTS ADMITTED FOR THE YEAR 2009-10

1. Dr. S. Amutha Valli  
   (Obst., & Gynae.)  
   Effect of immediate post partum curettage on the recovery of severe Pre Eclampsia and Eclampsia.

2. Dr. Karthikeyan. M  
   (Orthopedics)  
   Serum Procalcitonin measurement in the early diagnosis of acute Osteomyelitis and septic arthritis – a prospective trial.

3. Dr. Vishnu. R  
   (General Surgery)  
   Study on association of Hypothyroidism with benign Breast Disorders and effect of L-Thyroxine therapy on clinical outcome.

4. Dr. Srinivasan. K  
   (General Medicine)  
   Comparison of Slow Low Efficiency Dialysis (SLED) and intermittent hemodialysis (IHD) for acute renal failure (ARF).

DEPARTMENT OF RADIO-DIAGNOSIS

1. Dr. Sandeep B.S  
   “Characterisation of focal liver lesions with contrast enhanced sonography: in comparison to CECT”

2. Dr. Pallavi B  
   The Role of MR- Virtual Cystoscopy in the Diagnosis of Urinary Bladder Cancer.

3. Dr. Santhosh P  

P.G.STUDENTS ADMITTED FOR THE YEAR 2009-10

1. Dr. Srinivasan. K  
   (General Medicine)  
   Comparison of Slow Low Efficiency Dialysis (SLED) and intermittent hemodialysis (IHD) for acute renal failure (ARF).
### DEPARTMENT OF COMMUNITY MEDICINE (PGDPHM)

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr. S. Kumar</td>
<td>Iron Folic Acid intake among pregnant women in PHC Anumanthai of Villupuram, Tamilnadu</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Ganesh S.R</td>
<td>Formation and decision making process in village water and sanitation committee</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. A. Anbarasi</td>
<td>Profile of HIV Positive mothers and their children in a rural area in Villupuram District of Tamilnadu</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. A. Aarthi Thirumaran</td>
<td>Prevalence of cataract among adults above fifty years and plan for cataract backlog clearance in a rural community of Villupuram.</td>
</tr>
<tr>
<td>5.</td>
<td>Dr. (Major) K. Sivagananam</td>
<td>Socio cultural factors affecting acceptability of non scalpel vasectomy</td>
</tr>
<tr>
<td>6.</td>
<td>Dr. Thamizharasi A</td>
<td>Reasons for default in tuberculosis treatment in Puducherry</td>
</tr>
<tr>
<td>7.</td>
<td>Dr. Anil Das R</td>
<td>Morbidity and functional limitations among geriatric population in Vellarada area of Trivandrum, Kerala</td>
</tr>
<tr>
<td>8.</td>
<td>Dr. Vinod V</td>
<td>Perceptions of doctors regarding their working conditions in primary Health Centres in Malappuram (Dt.) Kerala</td>
</tr>
<tr>
<td>9.</td>
<td>Dr. Jinu Annie Jose</td>
<td>Utilization of Maternal Health Care Services by tribal women in Wayanad, Kerala.</td>
</tr>
<tr>
<td>10.</td>
<td>Dr. Mini T</td>
<td>A study on prevalence of Dental caries among rural school children in Kottayam Dt., Kerala</td>
</tr>
<tr>
<td>11.</td>
<td>Dr. Mridulai A</td>
<td>Performance Assessment of Junior Public Health Nurses on Maternal and Child Health Services in Rural Sub-Centres, Kerala.</td>
</tr>
<tr>
<td>12.</td>
<td>Dr. Deepa V K</td>
<td>Use and pattern of Personal Protection Measures against Mosquitoes at Anappara (Rural) and Kulathoor (Urban) wards in Trivandrum Dt., of Kerala.</td>
</tr>
</tbody>
</table>

### DEPARTMENT OF E.N.T

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr. Amjad Farook Z A</td>
<td>Efficacy of Triamcinolone nasal pack in Endoscopic sinus Surgery-a randomized placebo controlled study.</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Kalaiarasi R</td>
<td>A randomized controlled study comparing the hearing outcomes of Diode laser stapedotomy with conventional stapedotomy in otosclerosis.</td>
</tr>
</tbody>
</table>
### DEPARTMENT OF OPHTHALMOLOGY

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Study Title and Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr. Amit Kumar Deb</td>
<td>Association of Glaucoma with systemic Hypertension – an observational study</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Ganne Pratyusha</td>
<td>The Retinal changes in patients on long term Chloroquine or Hydroxy Chloroquine therapy using Optical coherence tomography (OCT)</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. Lavanya A</td>
<td>Preoperative Subpterygeal injection and Intraoperative Topical Mitomycin C for Pterygium Removal: Comparison of Recurrence rate and Complications.</td>
</tr>
<tr>
<td>5.</td>
<td>Dr. A.P. Vignesh</td>
<td>Ocular Manifestations of Rheumatoid Arthritis</td>
</tr>
</tbody>
</table>

### DEPARTMENT OF OBSTETRICS & GYNAECOLOGY

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Study Title and Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr. Vijay Krishnan. V</td>
<td>Comparison of efficacy of combination of Isosorbide Mononitrate and Misoprostol with Misoprostol alone for induction of labour: A randomized controlled trial.</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Galidevara Chandana</td>
<td>Comparison of oral, vaginal and sublingual Misoprostol for induction of labour in Pre-labour rupture of membranes at or after 34 weeks of gestation: A randomized clinical trial.</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Anusha. M.S.R.</td>
<td>Clinical Profile of Stillbirths.</td>
</tr>
<tr>
<td>5.</td>
<td>Dr. Jyoti Sharma</td>
<td>Study of placental and cord abnormalities in clinically unexplained late stillbirths.</td>
</tr>
<tr>
<td>6.</td>
<td>Dr. Kalaranjani. S</td>
<td>Randomized controlled trial of administration of single dose Ceftriaxone for elective cesarean section before skin incision and after cord clamping.</td>
</tr>
<tr>
<td>8.</td>
<td>Dr. Anirban Dasgupta</td>
<td>Pregnancy outcome in Obesity</td>
</tr>
<tr>
<td>9.</td>
<td>Dr. S. Amutha Valli</td>
<td>Effect of immediate post partum curettage on the recovery of severe Pre Eclampsia and Eclampsia. (Obst., &amp; Gynae.)</td>
</tr>
</tbody>
</table>

JIPMER 2010-2011 / 57
**DEPARTMENT OF ORTHOPEDICS**

1. Dr. K. Varun Krishna  
   Epidemiological study for evaluation of Etiology and Risk Factors in patients with low back pain

2. Dr. Nandish Kumar K.C  
   Evaluation of effectiveness of limited Access dressing in the management of Type IIIA and Type IIIB open fractures with extensive soft tissue loss.

3. Dr. Gipson Samuel T  
   Role of Platelet rich plasma (PRP) in accelerating fracture union in patients with impaired fracture healing.

4. Dr. Rahematullah Abdul Qaiyyum  
   Evaluation of Epidemiological and Genetic Risk Factors Associated with Idiopathic Congenital Talipes Equinovarus in an Indian Population.

5. Dr. Karthikeyan. M (Orthopedics)  
   Serum Pro-calcitonin measurement in the early diagnosis of acute Osteomyelitis and septic arthritis – a prospective trial.

**DEPARTMENT OF SURGERY**

1. Dr. P. Sridhar  
   Effect of Perioperative systemic Lignocaine on postoperative pain and Ileus in patients undergoing elective open abdominal surgeries – A double blinded randomized control trial.

2. Dr. Chakarvati Kapil Ramesh  
   Role of pre-operative abdominal drains in patients with peritonitis unfit for early surgery.

3. Dr. Vinothan. J.S.  
   Molecular Subtyping of breast cancer and its correlation to clinical stage and response to Neoadjuvant chemotherapy or hormone therapy.

4. Dr. Vijay Ganapathy. S  
   Acute Upper Gastro Intestinal Bleeding at JIPMER – A Prospective study.

5. Dr. Harin Asokan  
   Effect of Zoledronic Acid on disseminated tumor cells in women with locally advanced breast cancer – a randomized controlled trial.

6. Dr. Phanikumar. N  
   Spectrum of small bowel perforation in a tertiary care hospital of South India: Predictors of morbidity and mortality.

7. Dr. Deepak B  
   Clinico-microbiological profile in patients with perforated peptic ulcer with special reference to anaerobic organisms.

8. Dr. Vishnu. R  
   Study on association of Hypothyroidism with benign Breast Disorders and effect of L-Thyroxine therapy on clinical outcome.
**DEPARTMENT OF ANAESTHESIOLOGY**

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Project Title</th>
<th>Amount Sanctioned</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr. Shriram Vaidya</td>
<td>Vocal cord functions following the use of cuffed &amp; Cuffless Supraglottic airway devices.</td>
<td>Rs. 50,000/- yr for 2 years.</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Sai Saran. P.V.</td>
<td>Comparison of I-Gel versus Proseal LMA in Paediatric Population under General Anaesthesia.</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Santhalakshmi. A</td>
<td>The comparison of stroke volume variation with standard Hemodynamic measurements in predicting fluid responsiveness in septic patients with acute circulatory failure.</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Dr. Savitri. V</td>
<td>Role of oral Ketamine and Dexmedetomidine in adult burns dressing. A randomized double blind cross over study.</td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Dr. Ranjan Raj Pandey</td>
<td>Evaluation of Ropivacaine (H) versus Bupivacaine (H) for spinal anesthesia.</td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>Dr. Raghava. A</td>
<td>A comparison of 3% Hypertonic Saline and Mannitol 20% for Brain Relaxation during elective Supratentorial Brian Tumor Surgery.</td>
<td></td>
</tr>
</tbody>
</table>

**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 2010-11 are as under:-

Sanction for Intramural Research Fund

**PROJECTS FOR PG WITH FACULTY AS GUIDE**

<table>
<thead>
<tr>
<th>SL. NO.</th>
<th>NAME</th>
<th>PROJECT TITLE</th>
<th>AMOUNT SANCTIONED</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dr. K. Ramachandra Rao HOD</td>
<td><strong>ANATOMY</strong> Association between genetic polymorphism and phenotypic variability in case with Trisomy 21-A molecular approach.</td>
<td>Rs. 50,000/- yr for 2 years.</td>
<td>–</td>
</tr>
<tr>
<td>SL. NO.</td>
<td>NAME</td>
<td>PROJECT TITLE</td>
<td>AMOUNT SANCTIONED</td>
<td>REMARKS</td>
</tr>
<tr>
<td>--------</td>
<td>------</td>
<td>---------------</td>
<td>-------------------</td>
<td>---------</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Medha. R, Asst. Professor</td>
<td>Pro-Coagulant state and Platelet Aggregability in Patients of Rheumatic Mitral Stenosis with left Atrial Thrombus.</td>
<td>Rs.25,000/- for 1 year</td>
<td>–</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Medha. R, Asst. Professor</td>
<td>Inflammatory Response and Oxidative stress in patients of Rheumatic Mitral Stenosis with left Atrial Thrombus.</td>
<td>Rs.25,000/- for 1 year</td>
<td>–</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. M.G. Sridhar, Professor</td>
<td>Comparison of serum Cystatin-c and Creatinine with Tc\textsuperscript{99m} DTPA as indices of renal glomerular function in South Indian population.</td>
<td>Rs.25,000/- for 1 year</td>
<td>–</td>
</tr>
<tr>
<td>5.</td>
<td>Dr. P.H. Ananthanarayanan, Professor and Head</td>
<td>Total Sialic acid, Lipid Associated Sialic acid in patients with Ischemic and Non Ischemic Heart Failure.</td>
<td>Rs.25,000/- for 1 year</td>
<td>–</td>
</tr>
<tr>
<td>6.</td>
<td>Dr. M.G. Sridhar, Professor</td>
<td>Effects of turmeric extracts and Vitamin A on heat induced lipid peroxidation of edible oils.</td>
<td>Rs.25,000/- for 1 year</td>
<td>–</td>
</tr>
<tr>
<td>7.</td>
<td>Dr. M.G. Sridhar, Professor</td>
<td>Role of a composite panel of serum tumour markers in the diagnosis of Endometrial carcinoma.</td>
<td>Rs.35,000/- for 1\textsuperscript{st} year &amp; Rs50,000 for 2\textsuperscript{nd} year</td>
<td>–</td>
</tr>
<tr>
<td>8.</td>
<td>Dr. R. Soundravally, Asst. Professor</td>
<td>Evaluation of blood levels of Vitamin B6, Brain Derived Neurotrophic factor (BDNF) and Serotonin during Postpartum maternal depression.</td>
<td>Rs.25,000 for 1 year</td>
<td>kITS</td>
</tr>
<tr>
<td>9.</td>
<td>Dr. R. Soundravally, Asst. Professor</td>
<td>Relationship between hormonal fluctuations and maternal depression during postpartum.</td>
<td>Rs.25,000 for 1 year</td>
<td>–</td>
</tr>
<tr>
<td>SL. NO.</td>
<td>NAME</td>
<td>PROJECT TITLE</td>
<td>AMOUNT SANCTIONED</td>
<td>REMARKS</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>10.</td>
<td>Dr. M.G.Sridhar, Professor</td>
<td>Molecular effects of curcumin on Insulin Resistance and its associated complications in Type 2 Diabetes and Obesity.</td>
<td>Rs.50,000/yr for 2 years</td>
<td>–</td>
</tr>
<tr>
<td>11.</td>
<td>Dr. Zechariah Bobby, Asst. Professor</td>
<td>Atherothrombotic risk factors among first degree relatives of ischemic stroke patients.</td>
<td>Rs.50,000/yr for 2 years</td>
<td>–</td>
</tr>
<tr>
<td>12.</td>
<td>Dr. V.S. Negi, Professor &amp; Head</td>
<td>CLINICAL IMMUNOLOGY Study of genetic factors influencing susceptibility to infections in Systemic Lupus Erythematosus (SLE).</td>
<td>Rs.50,000/yr for 2 years</td>
<td>–</td>
</tr>
<tr>
<td>13.</td>
<td>Dr. Laxmisha Chandrashekar, Asst. Professor</td>
<td>DERMATOLOGY Dermoscopy study of Hair Shaft disorders and Alopecias in a Tertiary Care centre in South India.</td>
<td>Rs.50,000/yr for 2 years</td>
<td>–</td>
</tr>
<tr>
<td>14.</td>
<td>Dr. A.K. Das, Director-Professor &amp; Medical Superintendent</td>
<td>MEDICINE Clinical Profile of patients with diabetic nephropathy and diabetic retinopathy and its correlation to novel inflammatory biomarkers</td>
<td>Rs.50,000/yr for 2 years</td>
<td>–</td>
</tr>
<tr>
<td>SL. No.</td>
<td>Name</td>
<td>Project Title</td>
<td>Amount Sanctioned</td>
<td>Remarks</td>
</tr>
<tr>
<td>--------</td>
<td>-----------------------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>-----------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>15</td>
<td>Dr. B.N. Harish, Professor</td>
<td>Mechanisms of resistance in Enterobacteriaceae with special reference to arøpënems</td>
<td>Rs.50,000/yr for 2 years</td>
<td>–</td>
</tr>
<tr>
<td>16</td>
<td>Dr. S.C. Parija, Professor &amp; Head</td>
<td>Evaluation of real-time PCR in diagnosis of amebiasis.</td>
<td>Rs.50,000/yr for 2 years</td>
<td>–</td>
</tr>
<tr>
<td>17</td>
<td>Dr. S. Badrinath, Professor</td>
<td>Evaluation of NSI antigen detection as an alternative to RT-PCR for the early diagnosis of Dengue.</td>
<td>Rs.50,000/yr for 2 years</td>
<td>–</td>
</tr>
<tr>
<td>18</td>
<td>Dr. S.C. Parija, Professor</td>
<td>&quot;Molecular detection and characterization of toxigenic Vibrio Cholerae.&quot;</td>
<td>Rs.50,000/yr for 2 years</td>
<td>–</td>
</tr>
<tr>
<td>19</td>
<td>Dr. S.C. Parija, Professor</td>
<td>&quot;Clinico-Microbiological profile of shigellosis in children&quot;</td>
<td>Rs.50,000/yr for 2 years</td>
<td>–</td>
</tr>
<tr>
<td>20</td>
<td>Dr. B.N. Harish, Professor</td>
<td>Carbapenemase Producing Isolates of Klebsiella species, Escherichia coli and Enterobacter species From Blood.</td>
<td>Rs.50,000/yr for 2 years</td>
<td>–</td>
</tr>
<tr>
<td>21</td>
<td>Dr. S. Sujatha, Professor</td>
<td>Evaluation of immunological and molecular methods for the rapid diagnosis of herpes simplex type 1 encephalitis.</td>
<td>Rs.50,000/yr for 2 years</td>
<td>–</td>
</tr>
<tr>
<td>22</td>
<td>Dr. S. Sujatha, Professor</td>
<td>Panton-Valentine Leukocidin as a marker of Community-Associated Methicillin Resistant Staphylococcus aureus (CA-MRSA) From Skin and Soft Tissue Infections.</td>
<td>Rs.50,000/yr for 2 years</td>
<td>–</td>
</tr>
<tr>
<td>23</td>
<td>Dr. Jharna Mandal, Asst. Professor</td>
<td>Isolation of Campylobacter from stool specimens by culture.</td>
<td>Rs.25,000 for 1 year</td>
<td>–</td>
</tr>
<tr>
<td>24</td>
<td>Dr. Rakhi Biswas, Asst. Professor</td>
<td>Determination of drug susceptibility pattern of Mycobacterium tuberculosis isolates from a Tertiary Health Care Centre in South India.</td>
<td>Rs.25,000 for 1 year</td>
<td>–</td>
</tr>
<tr>
<td>25</td>
<td>Dr. Rahul Dhadapkar, Asst. Professor</td>
<td>Serologic and molecular diagnosis of Hepatitis B infection</td>
<td>Rs.25,000 for 1 year</td>
<td>–</td>
</tr>
<tr>
<td>SL. NO.</td>
<td>NAME</td>
<td>PROJECT TITLE</td>
<td>AMOUNT SANCTIONED</td>
<td>REMARKS</td>
</tr>
<tr>
<td>--------</td>
<td>------</td>
<td>---------------</td>
<td>-------------------</td>
<td>---------</td>
</tr>
<tr>
<td>26</td>
<td>Dr. Renuka Srinivasan, Professor Dr. K. Ramesh Babu, Asst. Professor</td>
<td><strong>OPHTHALMOLOGY</strong> Ocular Manifestations of Rheumatoid Arthritis. Preoperative Subpterygeal Injection and Intraoperative Topical Mitomycin C for Pterygium Removal: Comparison of Recurrence rate and Complications.</td>
<td>Rs.42,500/yr for 2 years Rs.50,000/yr for 2 years</td>
<td>–</td>
</tr>
<tr>
<td>27</td>
<td>Dr. D.K. Patro, Professor &amp; Head</td>
<td><strong>ORTHOPAEDIC SURGERY</strong> Evaluation of epidemiological and genetic risk factors associated with Idiopathic congenital talipes equinovarus in an Indian population.</td>
<td>Rs.30,000/yr for 2 years</td>
<td>–</td>
</tr>
<tr>
<td>28</td>
<td>Dr. Bhawana Ashok Badhe, Professor</td>
<td><strong>PATHOLOGY</strong> p16, CK17 and p63 in Distinguishing Cervical Squamous Intraepithelial Lesions from its Mimics.</td>
<td>Rs.50,000/yr for 2 years</td>
<td>Kits</td>
</tr>
<tr>
<td>29</td>
<td>Dr. S C Pradhan, Professor</td>
<td><strong>PHARMACOLOGY</strong> Effect of ABCB1 and ABCC1 polymorphisms on the lipid lowering response and adverse effect profiles of atorvastatin in hypercholesterolemic patients</td>
<td>Rs.50,000/yr for 2 years</td>
<td>–</td>
</tr>
<tr>
<td>30</td>
<td>Dr. C. Adithan, Professor &amp; Head</td>
<td>Influence of genetic factors on endothelial function with reference to risk of Myocardial Infarction and atorvastatin response.</td>
<td>Rs.50,000/yr for 2 years</td>
<td>–</td>
</tr>
<tr>
<td>31</td>
<td>Dr. Steven Aibor Dkhar, Professor</td>
<td>Gene expression and genetic variations of CYP19 gene as a predictive factor for Letrozole response and toxicity in postmenopausal breast cancer patients.</td>
<td>Rs.50,000/yr for 2 years</td>
<td>–</td>
</tr>
</tbody>
</table>

JIPMER 2010-2011 / 63
<table>
<thead>
<tr>
<th>SL NO.</th>
<th>NAME</th>
<th>PROJECT TITLE</th>
<th>AMOUNT SANCTIONED</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>33</td>
<td>Dr. C. Adithan, Professor &amp; Head</td>
<td>Effect of nebivolol on endothelial dysfunction in patients with coronary artery disease.</td>
<td>Rs.50,000/yr for 2 years</td>
<td>–</td>
</tr>
<tr>
<td>34</td>
<td>Dr. Steven A Dkhar, Professor</td>
<td>Effect of HMGCR and CYP3A5 genetic polymorphisms on lipid response to Atorvastatin in Tamilian population.</td>
<td>Rs.50,000/yr for 2 years</td>
<td>–</td>
</tr>
<tr>
<td>35</td>
<td>Dr. R. Raveendran, Professor</td>
<td>The effect of bone marrow derived hematopoietic stem cells in the reversal of diabetes mellitus induced retinopathy</td>
<td>Rs.50,000/yr for 2 years</td>
<td>–</td>
</tr>
<tr>
<td>36</td>
<td>Dr. S. C. Pradhan, Professor</td>
<td>Population pharmacokinetics and pharmacogenetics of imatinib mesylate in chronic myeloid leukemia patients (CML).</td>
<td>Rs.50,000/yr for 2 years</td>
<td>–</td>
</tr>
<tr>
<td>37</td>
<td>Dr. Steven Aibor Dkhar, Professor</td>
<td>Influence of DPYD*2A Dihydropyrimidine dehydrogenase gene0 mutation on 5-fluorouracil/ capecitabine induced toxicity.</td>
<td>Rs.50,000/yr for 2 years</td>
<td>–</td>
</tr>
<tr>
<td>38</td>
<td>Dr. D.G. Shewade, Professor</td>
<td>Effect of doubling the dose of clopidogrel in non-responders with 75mg once daily dose and it’s relation to CYP2C19 genetic polymorphism in South Indian population.</td>
<td>Rs.50,000/yr for 2 years</td>
<td>–</td>
</tr>
<tr>
<td>39</td>
<td>Dr. D.G. Shewaded, Professor</td>
<td>Effect of CYP2C8 polymorphisms on plasma levels of pioglitazone in South Indian type 2 diabetes patients.</td>
<td>Rs.50,000/yr for 2 years</td>
<td>–</td>
</tr>
<tr>
<td>40</td>
<td>Dr. R. Raveendran, Professor</td>
<td>Evaluation of the antihypertensive activity of cleistanthin A and B in Sprague Dawley rats.</td>
<td>Rs.50,000 for 1 year</td>
<td>–</td>
</tr>
<tr>
<td>SL. NO.</td>
<td>NAME</td>
<td>PROJECT TITLE</td>
<td>AMOUNT SANCTIONED</td>
<td>REMARKS</td>
</tr>
<tr>
<td>-------</td>
<td>------</td>
<td>---------------</td>
<td>-------------------</td>
<td>---------</td>
</tr>
<tr>
<td>41</td>
<td>Dr. G.S.Gaur, Addl. Professor</td>
<td>Effect of Yoga training on autonomic functions and reaction time in young healthy females during different phases of menstrual cycle.</td>
<td>Rs.25,000/ for 1 year</td>
<td>Travel allowance, equipment not allowed</td>
</tr>
<tr>
<td>42</td>
<td>Dr. G.K. Pal, Professor</td>
<td>Gender difference in adiposity and immunological parameters in Ventromedial hypothalamus and Posterodorsal amygdale Lesioned albino Wistar rats.</td>
<td>Rs.50,000/yr for 2 years</td>
<td>–</td>
</tr>
<tr>
<td>43</td>
<td>Dr. G.K. Pal, Professor</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>
<td>Rs.37,500/yr for 2 years</td>
<td>–</td>
</tr>
<tr>
<td>44</td>
<td>Dr. Madanmohan Trakroo, Professor &amp; Head</td>
<td>Effect of Yoga therapy on Autonomic function tests and Bio-Chemical profile of Heart failure patients.</td>
<td>Rs.50,000/yr for 2 years</td>
<td>–</td>
</tr>
<tr>
<td>45</td>
<td>Dr. Pravati Pal, Addl. Professor</td>
<td>Effects of gender on autonomic dysfunctions in Hypothyroidism: Correlation with blood Pressure, BMI, oxidative stress, lipid profile and inflammatory markers.</td>
<td>Rs.50,000/yr for 2 years</td>
<td>–</td>
</tr>
<tr>
<td>46</td>
<td>Dr. Madanmohan Trakroo, Professor &amp; Head</td>
<td>Effect of Yoga therapy on cardiac autonomic functions and oxidative stress in prehypertensive subjects: a randomized controller study.</td>
<td>Rs.50,000/yr for 2 years</td>
<td>–</td>
</tr>
<tr>
<td>SL. NO.</td>
<td>NAME</td>
<td>PROJECT TITLE</td>
<td>AMOUNT SANCTIONED</td>
<td>REMARKS</td>
</tr>
<tr>
<td>--------</td>
<td>-------------------------------------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>-------------------------------</td>
<td>-------------------------------------------</td>
</tr>
<tr>
<td>47</td>
<td>Dr. Madanmohan Trakroo, Professor &amp; Head</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>
<td>Rs.50,000/yr for 2 years</td>
<td>Purchase of books not allowed</td>
</tr>
<tr>
<td>48</td>
<td>Dr. K.C. Premarajan, Professor</td>
<td>PREVENTIVE AND SOCIAL MEDICINE Prevalence and determinants of hearing impairment among 5-14 years school children.</td>
<td>Rs.25,000/yr for 1 year</td>
<td>Hearing aid, transport, report preparation. Not allowed</td>
</tr>
<tr>
<td>49</td>
<td>Dr. Gautam Roy, Professor</td>
<td>Services Evaluation at 24 hour and day time Primary Health Centres of Pondicherry and Tamilnadu.</td>
<td>Rs.21,000/yr for 1 year</td>
<td>No money for report preparation.</td>
</tr>
<tr>
<td>50</td>
<td>Dr. K. Srinivasan, Professor</td>
<td>SURGERY Molecular subtyping of breast cancer; its correlation to clinical stage, and its correlation to response of locally advanced breast cancer to neoadjuvant chemotherapy or hormone therapy.</td>
<td>Rs.50,000/yr for 2 years</td>
<td>Kits</td>
</tr>
<tr>
<td>51</td>
<td>Dr. Zachariah Bobby, Asst. Professor of Biochemistry</td>
<td>Effect of Calorie Restriction on the subsequent sucrose induced glucose intolerance and oxidative stress in male wistar rats.</td>
<td>Rs.25,000/yr for 1 year</td>
<td>–</td>
</tr>
<tr>
<td>52</td>
<td>Dr. Zachariah Bobby, Asst. Professor of Biochemistry</td>
<td>Effect of High Glycemic load diet on the subsequent sucrose induced glucose intolerance and oxidative stress in male wistar rats.</td>
<td>Rs.25,000/yr for 1 year</td>
<td>–</td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>SL. NO.</th>
<th>NAME</th>
<th>PROJECT TITLE</th>
<th>APPROVAL</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dr. Arindam Choudhury</td>
<td><strong>ANAESTHESIOLOGY</strong>&lt;br&gt;Effect of PEEP on ventilation and haemodynamics in patients undergoing day case laparoscopic Gynaecologic procedures under general anaesthesia with laryngeal mask airway – proseal.</td>
<td><strong>Approved</strong>&lt;br&gt;Rs. 50,000 per Year for 2 yrs.</td>
<td>–</td>
</tr>
<tr>
<td>2</td>
<td>Dr. Sarasu J, Asst.Prof.</td>
<td><strong>ANATOMY</strong>&lt;br&gt;Detection of fetal DNA in maternal plasma as a prenatal diagnostic technique.</td>
<td><strong>Approved</strong>&lt;br&gt;Rs. 1,00,000 for first yr and Rs. 50,000 for second years</td>
<td>Mainly for Kits</td>
</tr>
<tr>
<td>3</td>
<td>Dr.G.P. Senthilkumar Lecturer</td>
<td><strong>BIOCHEMISTRY</strong>&lt;br&gt;Evaluation of serum Activin – B, II-6 and II-8 as possible diagnostic markers for early ectopic pregnancy</td>
<td><strong>Approved</strong>&lt;br&gt;1st year :Rs. 75,000 &amp; 2nd yr: Rs. 74,000</td>
<td>–</td>
</tr>
<tr>
<td>4</td>
<td>Dr. Medha R Asst. Prof</td>
<td>Evaluation of platelet activation based on platelet indices; Platelet aggregability, soluble P-selectin and platelet oxidative stress in chronic urticaria</td>
<td><strong>Approved</strong>&lt;br&gt;Rs. 1,00,000 for one year</td>
<td>Mainly Kits</td>
</tr>
<tr>
<td>5</td>
<td>Dr. R. Soundravally Asst. Prof.</td>
<td>Circulating levels of interleukin - 17 and Noitric oxide in patients with dengue infection and their association with platelet function.</td>
<td><strong>Approved</strong>&lt;br&gt;Rs. 1,00,000/yr For 2 years</td>
<td>–</td>
</tr>
<tr>
<td>6</td>
<td>Dr. Biswajit D Asst. Prof.</td>
<td><strong>MEDICAL ONCOLOGY</strong>&lt;br&gt;Study of clinico Pathological Prognostic factors in peripheral T cell Lymphomas”</td>
<td><strong>Approved</strong>&lt;br&gt;Rs. 90,000/yr for 2 years</td>
<td>Mainly Kits</td>
</tr>
<tr>
<td>SL. NO.</td>
<td>NAME</td>
<td>PROJECT TITLE</td>
<td>APPROVAL</td>
<td>REMARKS</td>
</tr>
<tr>
<td>--------</td>
<td>-------------------------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>---------------------------</td>
<td>--------------------------------------</td>
</tr>
<tr>
<td>7</td>
<td>Dr. Tamilarasu Kadhiravan</td>
<td>MEDICINE “A prospective evaluation of an algorithm for the early diagnosis of</td>
<td>Approved 1st yr: Rs. 45,000</td>
<td>Computer not approved</td>
</tr>
<tr>
<td></td>
<td></td>
<td>tubercular meningitis”</td>
<td>2nd yr: Rs. 95,000</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Dr. Manikandan Asst. Prof.</td>
<td>OBSTETRICS &amp; GYNAECOLOGY “Relationship between pre eclampsia and placental</td>
<td>Approved 1st yr: Rs. 20,000</td>
<td>Microwave Fridge, Pressure cooker</td>
</tr>
<tr>
<td></td>
<td></td>
<td>bed vasculature: A study comparing the placental bed microvessel density and</td>
<td>2nd yr: Rs. 50,000</td>
<td>not within scope of IMRF</td>
</tr>
<tr>
<td></td>
<td></td>
<td>trophoblastic invasion of spiral arteries in normal and pre e clampic</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>pregnancies”</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Dr. Dilip Kumar Maurya</td>
<td>OPHTHALMOLOGY &quot;Thyroid dysfunction among antenatal women and its effect on</td>
<td>Approved Rs. 80,000/yr for</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>Asst. Prof.</td>
<td>obstetrical outcome”</td>
<td>2 years</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Dr. Renuka Srinivasan Professor</td>
<td>A comparative study of the clinical efficacy of topical ketorolac v/s bromfenac</td>
<td>Approved Rs.31,000/- for</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td></td>
<td>in reducing aqueous prostaglandin E2 levels and muscular edema after cataract</td>
<td>kits</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>surgery.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Dr. Shashi Ahuja Asst. Prof.</td>
<td>PATHOLOGY “Aqueous and serum VEGF and IL-6 in Diabetic Retinopathy”</td>
<td>Approved Rs1,00,000 for 1 year</td>
<td>–</td>
</tr>
<tr>
<td>12</td>
<td>Dr. Shramana Mandal Asst. Prof.</td>
<td>“Role of p16 and CISH in detection of Human papilloma Virus in oral squamous</td>
<td>Approved Rs.1,00,000 for 1st year &amp; Rs. 50,000 for 2nd year</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td></td>
<td>cell carcinoma.”</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SL. NO.</td>
<td>NAME</td>
<td>PROJECT TITLE</td>
<td>APPROVAL</td>
<td>REMARKS</td>
</tr>
<tr>
<td>--------</td>
<td>-----------------------------</td>
<td>------------------------------------------------------------------------------</td>
<td>---------------------------------</td>
<td>---------------------------</td>
</tr>
<tr>
<td>13</td>
<td>Dr. Rajesh NG</td>
<td>Histopathologic and immunophenotypic analysis of basal like breast cancer</td>
<td>Approved Rs.80,000 for 1st year &amp; Rs.80,000 for 2nd year</td>
<td>For kits Review after 2nd year</td>
</tr>
<tr>
<td>14</td>
<td>Dr. Pampa Ch Toi</td>
<td>Evaluation of estrogen and progesterone receptors and Her2 expression in fine needle aspirates of patients with breast carcinoma.</td>
<td>Approved Rs.50,000 for 1st year &amp; Rs.50,000 for 2nd year</td>
<td>Review after 2nd year</td>
</tr>
<tr>
<td>15</td>
<td>Dr. K. Gunaseelan</td>
<td><strong>RADIO-THERAPY</strong></td>
<td><strong>Approved Rs.1,00,000/yr for 2 years</strong></td>
<td>Mainly consumables</td>
</tr>
<tr>
<td>Asst. Prof.</td>
<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>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Mr. N. Vijayaprabhu</td>
<td>“Mono-isocentric techniques in the teletherapy treatment of post-operative carcinoma of breast”</td>
<td><strong>Approved Rs.1,00,000/yr for 2 years</strong></td>
<td>Mainly accessories/ Consumables</td>
</tr>
<tr>
<td>Lecturer</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Dr. Sarath Chandra Sistla</td>
<td><strong>SURGERY</strong></td>
<td><strong>Approved Rs.1,00,000/yr for 2 years</strong></td>
<td>Kits</td>
</tr>
<tr>
<td>Addl. Prof.</td>
<td>Effect of perioperative systemic lignocaine on prosporative pain and lieus in patients undergoing elective open abdominal surgeries : a double blinded randomized control trial.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**IMPORTANT DATES**

<table>
<thead>
<tr>
<th>ENTRANCE EXAMINATIONS - DATES</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MBBS</td>
<td>06.06.2010</td>
</tr>
<tr>
<td>M.Ch.  - CTVS/Neuro Surgery/Urology</td>
<td>25.7.2010</td>
</tr>
<tr>
<td>DM   - Cardiology/Neurology/Neonatology/</td>
<td></td>
</tr>
<tr>
<td>Cl. Immunology/Cl. Pharmacology</td>
<td></td>
</tr>
<tr>
<td>Post Doctoral Fellowship/Ph.D/M.Sc – Medical Biochemistry/MLT</td>
<td></td>
</tr>
<tr>
<td>Microbiology</td>
<td></td>
</tr>
<tr>
<td>B.Sc – Nursing/MLT/Dialysis Technology/Medical Radiation</td>
<td></td>
</tr>
<tr>
<td>Technology/Operation Technology/Perfusion Technology</td>
<td></td>
</tr>
<tr>
<td>Post Graduate</td>
<td>13.02.2011</td>
</tr>
</tbody>
</table>

**COMMITTEE MEMBERS FOR THE YEAR 2010-11**

**STANDING ACADEMIC COMMITTEE**

1. **Prof (Dr.) M.S. Ramachandran** (Former Professor & HOD, Department of Medicine, Madras Medical College), Chennai **CHAIRMAN**
2. **Shri B.S. Gnanadesikan Hon’ble M.P. (Rajya Sabha)** **MEMBER**
3. **Dr. R.K Srivastava** Director General of Health Services, Govt. of India **MEMBER**
4. **Dr. Meer Mustafa Hussain** Vice-Chancellor, Tamil Nadu Dr. M.G.R Medical University, Chennai **MEMBER**
5. **Prof (Dr.) K.K. Talwar** Director, PGIMER, Chandigarh **MEMBER**
6. **Prof. (Dr.) D. Nagaraja** Director/Vice-Chancellor National Institute of Mental Health & Neuro Sciences, Bangalore. **MEMBER**
7. **Prof. (Dr.) Suneeta Mittal** Prof. & Head, Department of Obstetrics & Gynecology, All India Institute of Medical Sciences, New Delhi. **MEMBER**
8. **Prof. (Dr.) Surendran Professor & Head**, Institute of Surgical Gastroenterology, Government Stanley Medical College, Chennai. **MEMBER**
9. **Dr. V.I. Mathan** (Former Director, CMC, Vellore) **MEMBER**
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**
## JIPMER SCIENTIFIC ADVISORY COMMITTEE

<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>
</tr>
<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>
<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>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>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>
**ANIMAL ETHICS COMMITTEE**

<table>
<thead>
<tr>
<th></th>
<th>Name</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dr. K.S. Reddy Dean, JIPMER</td>
<td>CHAIRMAN</td>
</tr>
<tr>
<td>2</td>
<td>Dean, Mother Theresa Institute, Puducherry</td>
<td>MEMBER</td>
</tr>
<tr>
<td>3</td>
<td>Dr. M. Naseema, Chennai</td>
<td>MEMBER (CPCSEA Nominee)</td>
</tr>
<tr>
<td>4</td>
<td>Dr. S. Jayachandiran Prof. &amp; Head of Biotechnology, Pondicherry University, Puducherry</td>
<td>MEMBER</td>
</tr>
<tr>
<td>5</td>
<td>Dr. Mathur Head of the Department of Life Sciences, Pondicherry University, Puducherry</td>
<td>MEMBER</td>
</tr>
<tr>
<td>6</td>
<td>Dr. H.L. Hoti Deputy Director VCRC, Puducherry-6</td>
<td>MEMBER</td>
</tr>
<tr>
<td>7</td>
<td>Dr. D. Kumar Sr. Prof. of Parasitology, Rajiv Gandhi Vet. College &amp; Animal Sciences, Puducherry</td>
<td>MEMBER</td>
</tr>
<tr>
<td>8</td>
<td>Dr. Lydia Rajakumari Prof. and Head of the Department of Microbiology, Indira Gandhi College of Arts and Science, Puducherry</td>
<td>MEMBER</td>
</tr>
<tr>
<td>9</td>
<td>Dr. S.C. Parija HOD of Microbiology, JIPMER</td>
<td>MEMBER SECRETARY</td>
</tr>
</tbody>
</table>
During the period under review (2010-11), 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 1.4.2010 to 31.3.2011.

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Examination</th>
<th>Number of students</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Registered</td>
</tr>
<tr>
<td>1</td>
<td>First MBBS</td>
<td>83</td>
</tr>
<tr>
<td>2</td>
<td>Second MBBS</td>
<td>23</td>
</tr>
<tr>
<td>3</td>
<td>MBBS Final Year Part I</td>
<td>04</td>
</tr>
<tr>
<td>4</td>
<td>MBBS Final Year Part II</td>
<td>25</td>
</tr>
<tr>
<td>5</td>
<td>B.Sc. (Nursing) I year</td>
<td>90</td>
</tr>
<tr>
<td>6</td>
<td>B.Sc. (Nursing) II year</td>
<td>74</td>
</tr>
<tr>
<td>7</td>
<td>B.Sc. (Nursing) IV semester</td>
<td>09</td>
</tr>
<tr>
<td>8</td>
<td>B.Sc. (Nursing) V semester</td>
<td>16</td>
</tr>
<tr>
<td>9</td>
<td>B.Sc. (Nursing) VI semester</td>
<td>50</td>
</tr>
<tr>
<td>10</td>
<td>B.Sc. (Nursing) VII semester</td>
<td>11</td>
</tr>
<tr>
<td>11</td>
<td>B.Sc. (Nursing) VIII semester</td>
<td>59</td>
</tr>
<tr>
<td>12</td>
<td>B.Sc. (MLT) I year</td>
<td>37</td>
</tr>
<tr>
<td>13</td>
<td>B.Sc. (MLT) II year</td>
<td>21</td>
</tr>
<tr>
<td>14</td>
<td>B.Sc. (MLT) III year</td>
<td>18</td>
</tr>
<tr>
<td>15</td>
<td>M.Sc. (Medical Biochemistry), I year</td>
<td>09</td>
</tr>
<tr>
<td>16</td>
<td>M.Sc. (Medical Biochemistry), II year</td>
<td>09</td>
</tr>
<tr>
<td>17</td>
<td>M.Sc. (Medical Biochemistry), II year</td>
<td>06</td>
</tr>
<tr>
<td>18</td>
<td>D.M. (Cardiology)</td>
<td>01</td>
</tr>
<tr>
<td>19</td>
<td>M.Ch. (Urology)</td>
<td>02</td>
</tr>
</tbody>
</table>
### OCTOBER 2010

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Examination</th>
<th>Registered</th>
<th>Absent</th>
<th>Passed</th>
<th>%</th>
<th>Failed</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>M.D.</td>
<td>05</td>
<td>-</td>
<td>03</td>
<td>60</td>
<td>02</td>
<td>40</td>
</tr>
<tr>
<td>a</td>
<td>Anatomy</td>
<td>02</td>
<td>-</td>
<td>01</td>
<td>50</td>
<td>01</td>
<td>50</td>
</tr>
<tr>
<td>b</td>
<td>Dermatology, Venerology &amp; Leprology</td>
<td>01</td>
<td>-</td>
<td>01</td>
<td>100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>c</td>
<td>Pharmacology</td>
<td>01</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>01</td>
<td>100</td>
</tr>
<tr>
<td>d</td>
<td>Pulmonary Medicine</td>
<td>01</td>
<td>-</td>
<td>01</td>
<td>100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2</td>
<td>M.S. Obst. &amp; Gyne.</td>
<td>01</td>
<td>-</td>
<td>01</td>
<td>100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>3</td>
<td>FELLOWSHIP IN DIABETOLOGY</td>
<td>01</td>
<td>-</td>
<td>01</td>
<td>100</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### NOV/DEC 2010

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Examination</th>
<th>Registered</th>
<th>Absent</th>
<th>Passed</th>
<th>%</th>
<th>Failed</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>First MBBS</td>
<td>17</td>
<td>-</td>
<td>09</td>
<td>52.94</td>
<td>08</td>
<td>47.06</td>
</tr>
<tr>
<td>2</td>
<td>Second MBBS</td>
<td>100</td>
<td>-</td>
<td>93</td>
<td>93</td>
<td>07</td>
<td>07</td>
</tr>
<tr>
<td>3</td>
<td>MBBS Final Year Part I</td>
<td>66</td>
<td>-</td>
<td>63</td>
<td>95.45</td>
<td>03</td>
<td>4.55</td>
</tr>
<tr>
<td>4</td>
<td>MBBS Final Year Part II</td>
<td>66</td>
<td>01</td>
<td>53</td>
<td>81.54</td>
<td>12</td>
<td>18.46</td>
</tr>
<tr>
<td>5</td>
<td>B.Sc. (Nursing) I year</td>
<td>32</td>
<td>-</td>
<td>25</td>
<td>78.13</td>
<td>07</td>
<td>21.88</td>
</tr>
<tr>
<td>6</td>
<td>B.Sc. (Nursing) II year</td>
<td>21</td>
<td>-</td>
<td>17</td>
<td>80.95</td>
<td>04</td>
<td>19.05</td>
</tr>
<tr>
<td>7</td>
<td>B.Sc. (Nursing) III semester</td>
<td>01</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>01</td>
<td>100</td>
</tr>
<tr>
<td>8</td>
<td>B.Sc. (Nursing) IV semester</td>
<td>04</td>
<td>-</td>
<td>02</td>
<td>50</td>
<td>02</td>
<td>50</td>
</tr>
<tr>
<td>9</td>
<td>B.Sc. (Nursing) V semester</td>
<td>06</td>
<td>-</td>
<td>06</td>
<td>100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>10</td>
<td>B.Sc. (Nursing) VI semester</td>
<td>15</td>
<td>-</td>
<td>15</td>
<td>100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>11</td>
<td>B.Sc. (Nursing) VII semester</td>
<td>50</td>
<td>-</td>
<td>50</td>
<td>100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>12</td>
<td>B.Sc. (Nursing) VIII semester</td>
<td>11</td>
<td>-</td>
<td>11</td>
<td>100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>13</td>
<td>B.Sc. (MLT) I year</td>
<td>23</td>
<td>-</td>
<td>13</td>
<td>56.52</td>
<td>10</td>
<td>43.47</td>
</tr>
<tr>
<td>14</td>
<td>B.Sc. (MLT) III semester</td>
<td>31</td>
<td>-</td>
<td>30</td>
<td>96.77</td>
<td>01</td>
<td>3.22</td>
</tr>
<tr>
<td>15</td>
<td>B.Sc. (MLT) IV semester</td>
<td>05</td>
<td>-</td>
<td>04</td>
<td>80</td>
<td>01</td>
<td>20</td>
</tr>
<tr>
<td>16</td>
<td>B.Sc. (MLT) V semester</td>
<td>18</td>
<td>-</td>
<td>17</td>
<td>94.44</td>
<td>01</td>
<td>5.56</td>
</tr>
<tr>
<td>17</td>
<td>B.Sc. (MLT) VI semester</td>
<td>08</td>
<td>-</td>
<td>03</td>
<td>37.50</td>
<td>05</td>
<td>62.50</td>
</tr>
<tr>
<td>18</td>
<td>M.Sc. (Medical Biochemistry), II year</td>
<td>02</td>
<td>-</td>
<td>02</td>
<td>100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>19</td>
<td>M.Sc. (Medical Biochemistry), III year</td>
<td>01</td>
<td>-</td>
<td>01</td>
<td>100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>20</td>
<td>MRT</td>
<td>05</td>
<td>-</td>
<td>05</td>
<td>100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>21</td>
<td>MRO</td>
<td>03</td>
<td>-</td>
<td>03</td>
<td>100</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

JIPMER 2010-2011/75
<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Examination</th>
<th>Registered</th>
<th>Absent</th>
<th>Passed</th>
<th>%</th>
<th>Failed</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>M.D.</td>
<td>39</td>
<td>-</td>
<td>38</td>
<td>97.44</td>
<td>01</td>
<td>2.56</td>
</tr>
<tr>
<td>a</td>
<td>Anaesthesiology</td>
<td>06</td>
<td>-</td>
<td>06</td>
<td>100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>b</td>
<td>Anatomy</td>
<td>03</td>
<td>-</td>
<td>03</td>
<td>100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>c</td>
<td>Biochemistry</td>
<td>01</td>
<td>-</td>
<td>01</td>
<td>100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>d</td>
<td>Community Medicine</td>
<td>02</td>
<td>-</td>
<td>01</td>
<td>50</td>
<td>01</td>
<td>50</td>
</tr>
<tr>
<td>e</td>
<td>Dermatology, Venerology &amp; Leprology</td>
<td>04</td>
<td>-</td>
<td>04</td>
<td>100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>f</td>
<td>General Medicine</td>
<td>08</td>
<td>-</td>
<td>08</td>
<td>100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>g</td>
<td>Microbiology</td>
<td>01</td>
<td>-</td>
<td>01</td>
<td>100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>h</td>
<td>Paediatrics</td>
<td>05</td>
<td>-</td>
<td>05</td>
<td>100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>i</td>
<td>Pathology</td>
<td>02</td>
<td>-</td>
<td>02</td>
<td>100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>j</td>
<td>Pharmacology</td>
<td>02</td>
<td>-</td>
<td>02</td>
<td>100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>k</td>
<td>Physiology</td>
<td>02</td>
<td>-</td>
<td>02</td>
<td>100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>l</td>
<td>Radio-Diagnosis</td>
<td>02</td>
<td>-</td>
<td>02</td>
<td>100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>m</td>
<td>Pulmonary Medicine</td>
<td>01</td>
<td>-</td>
<td>01</td>
<td>100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2</td>
<td>M.S.</td>
<td>22</td>
<td>-</td>
<td>19</td>
<td>86.36</td>
<td>03</td>
<td>13.64</td>
</tr>
<tr>
<td>a</td>
<td>Oto-Rhino-Laryngology</td>
<td>02</td>
<td>-</td>
<td>02</td>
<td>100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>b</td>
<td>General Surgery</td>
<td>08</td>
<td>-</td>
<td>08</td>
<td>100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>c</td>
<td>Obst. &amp; Gyne.</td>
<td>07</td>
<td>-</td>
<td>04</td>
<td>100</td>
<td>03</td>
<td>-</td>
</tr>
<tr>
<td>d</td>
<td>Ophthalmology</td>
<td>03</td>
<td>-</td>
<td>03</td>
<td>100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>e</td>
<td>Orthopaedics</td>
<td>02</td>
<td>-</td>
<td>02</td>
<td>100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>3</td>
<td>P.G. DIPLOMA</td>
<td>06</td>
<td>-</td>
<td>06</td>
<td>100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>a</td>
<td>Dermatology, Venerology &amp; Leprology</td>
<td>02</td>
<td>-</td>
<td>02</td>
<td>100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>b</td>
<td>Orthopaedics</td>
<td>02</td>
<td>-</td>
<td>02</td>
<td>100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>c</td>
<td>Paediatrics</td>
<td>01</td>
<td>-</td>
<td>01</td>
<td>100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>d</td>
<td>Radio-Diagnosis</td>
<td>01</td>
<td>-</td>
<td>01</td>
<td>100</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
### List of Important Meetings pertaining to Education Section with Dates, From 01.04.2010 to 31.03.2011

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Particulars</th>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Date of Convocation</strong></td>
<td>09.04.2011</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td><strong>EXAMINATIONS - May / June / July</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MBBS</td>
<td>03.05.2010</td>
<td>28.05.2010</td>
</tr>
<tr>
<td></td>
<td>B.Sc. MLT</td>
<td>03.05.2010</td>
<td>20.05.2010</td>
</tr>
<tr>
<td></td>
<td>B.Sc. NURSING</td>
<td>18.05.2010</td>
<td>11.06.2010</td>
</tr>
<tr>
<td></td>
<td>M.Sc.(Medical Bioche)</td>
<td>10.05.2010</td>
<td>21.05.2010</td>
</tr>
<tr>
<td></td>
<td>M.R.T.</td>
<td>21.06.2010</td>
<td>25.06.2010</td>
</tr>
<tr>
<td></td>
<td>M.R.O.</td>
<td>21.06.2010</td>
<td>25.06.2010</td>
</tr>
<tr>
<td></td>
<td>D.M. Cardiology</td>
<td>19.07.2010</td>
<td>22.07.2010</td>
</tr>
<tr>
<td></td>
<td><strong>EXAMINATIONS - Oct / Nov / Dec 2010 / March 2011</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>P.G. Arrears</td>
<td>11.10.2010</td>
<td>14.10.2010</td>
</tr>
<tr>
<td></td>
<td>MBBS</td>
<td>15.11.2010</td>
<td>08.12.2010</td>
</tr>
<tr>
<td></td>
<td>B.Sc.(NURSING)</td>
<td>01.12.2010</td>
<td>16.12.2010</td>
</tr>
<tr>
<td></td>
<td>B.Sc.(MLT)</td>
<td>22.11.2010</td>
<td>07.12.2010</td>
</tr>
<tr>
<td></td>
<td>M.Sc.(Medical Bioche) Arrears</td>
<td>22.11.2010</td>
<td>25.11.2010</td>
</tr>
<tr>
<td></td>
<td>PG</td>
<td>07.03.2011</td>
<td>10.03.2011</td>
</tr>
</tbody>
</table>
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, Ph.D. 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

<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>
</tr>
<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>Sl.No.</td>
<td>Name</td>
<td>Position and Affiliation</td>
<td>Role</td>
</tr>
<tr>
<td>-------</td>
<td>-------------------------------</td>
<td>-------------------------------------------------------------</td>
<td>---------------</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>Secretary</td>
</tr>
</tbody>
</table>

**ACTIVITIES**

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Date &amp; Meeting</th>
<th>No. of proposals reviewed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Second Meeting of JIPMER Scientific Advisory Committee on 27.04.2010, 29.04.2010 &amp; 16.07.2010</td>
<td>52</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>102</td>
</tr>
</tbody>
</table>
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>8</td>
<td>Dr. R Ravi</td>
<td>Ex. Dy. Dir. (SG), VCRC, Puducherry</td>
<td>Member (External Scientific Expert)</td>
</tr>
</tbody>
</table>

JIPMER 2010-2011 / 80
Dr. Kalirathinam
Senior Specialist, Dept. of Medicine, Indra Gandhi Government General Hospital & PG Institute, Puducherry
Member (External Scientific Expert)

Dr. Vijayalakshmi
Lecturer, Dr. Ambedkar Govt. Law College, Puducherry
Member (External Legal Expert)

Dr. Smt. Indira Munisamy
–
Member (Social Worker)

Smt. C K Ajitha Kumari,
–
Member (Lay Person)

Dr. C. Adithan,
Professor & Head, Dept. of Pharmacology
Member (Legal Expert)

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>Regular Ethics Committee meetings</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>June 23 &amp; 28, 2010</td>
<td>56</td>
</tr>
<tr>
<td>2</td>
<td>March 2, 2011</td>
<td>24</td>
</tr>
<tr>
<td>3</td>
<td>March 16, 2011</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Sub-committee meetings</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>August 23, 2010</td>
<td>9</td>
</tr>
<tr>
<td>5</td>
<td>January 13, 2011</td>
<td>122</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>235</td>
</tr>
</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.

To ensure smooth functioning, the Institute Ethics Committee has adopted a Standard Operating Procedures (SOP) in June 2010. The SOP is made available at www.jipmer.edu

FUTURE PLANS
The IEC is in the process of formulating the guidelines for compensation of study participants in the event of a research related injury.
# 6.3 Institute Ethics Committee  
(Animal Studies)

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dean &amp; Chairman</strong></td>
<td>K. S. Reddy</td>
<td></td>
</tr>
<tr>
<td><strong>Professor &amp; Member Secretary</strong></td>
<td>Dr. Subhash Chandra Parija</td>
<td></td>
</tr>
</tbody>
</table>

The members of Institute ethics committee are as follows:

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr. K.S. Reddy, Dean, JIPMER</td>
<td>Chairman</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Balu, Dean, Mother Theresa Institute, Puducherry</td>
<td>Member</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. M. Naseema, No.5, 10th East street, Kamaraj Nagar, Thiruvanmiyur, Chennai 600 041</td>
<td>Member (CPCSEA Nominee)</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. S. Jayachandiran, Professor and Head, Department of Biotechnology, Pondicherry University, Pondicherry</td>
<td>Member</td>
</tr>
<tr>
<td>5.</td>
<td>Dr. P. P. Mathur, Head, Dept. of Life Sciences, Pondicherry University, Pondicherry</td>
<td>Member</td>
</tr>
<tr>
<td>6.</td>
<td>Dr. H. L. Hoti, Deputy Director, VCRC, Pondicherry 6</td>
<td>Member</td>
</tr>
<tr>
<td>7.</td>
<td>Dr. D. Kumar, Prof. &amp; Head, Department of Parasitology, Rajiv Gandhi Vet. College &amp; Animal Sciences, Puducherry</td>
<td>Member</td>
</tr>
<tr>
<td>8.</td>
<td>Dr. S. C. Parija, Professor &amp; Head, Dept. of Microbiology, JIPMER, Pondicherry 6</td>
<td>Member-Secretary</td>
</tr>
</tbody>
</table>

The following research projects were sanctioned by the committee in the academic year 2010 – 11:

1. “Evaluation of the antihypertensive activity of Cleistanthin A and B in Sprague Dawley rats” by Dr. R. Raveendran, Professor, Department of Pharmacology.

2. The role of stem cells and platelet derived growth factor on proliferation and differentiation of pericytes in streptozotocin induced diabetic retinopathy” by Dr. R. Raveendran, Department of Pharmacology.

3. “Effect of chronic stress on morphology of interstitial cell of Cajal, nitrergic and cholinergic neurons in the enteric nervous system of rat colon” by Dr. Rashmoni Jana, Assistant Professor, Department of Anatomy.

4. “Gender difference in adiposity and immunological parameters in ventromedial hypothalamus (VMH) and postrodorsal amygdale (PDA) lesioned albino wistar rats” by Dr Lalitha V. I year MD Student, Department of Physiology.

5. “Molecular effects of Costus igneus extract and vitamin B complex on insulin resistance and its complications in isolated and co-existing Type 2 diabetes mellitus and Hypothyroidism” by Ms. Ashwini S., PhD Scholar, Department of Biochemistry.

JIPMER 2010-2011 / 82
The members of research monitoring committee for the year 2010 – 11 were as follows

1. Dr Subhash Chandra Parija  
   Professor & Head  
   Department of Microbiology  
   Chairman

2. Dr Vishnu Bhat  
   Professor  
   Department of Pediatrics  
   Member

3. Dr S. Mahadevan  
   Professor  
   Department of Pediatrics  
   Member

4. Dr. Raveendran  
   Professor  
   Department of Pharmacology  
   Member

5. Dr Vikram Kate  
   Professor  
   Department of Surgery  
   Member

6. Dr V. S. Negi  
   Professor  
   Department of Medicine  
   Member

7. Dr Zachariah Bobby  
   Assistant Professor  
   Department of Biochemistry  
   Member

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

The second edition of the bulletin was brought out in the academic year 2009 – 10 and covered the projects carried out since 1980. In this handbook, data on the research carried out in the various departments was gathered and presented in a easy accessible format. The various projects were listed out under the headings og MD and PhD dissertations, intramural and extramural projects. Where available, as in case of completed projects, the synopsis and conclusions drawn from the projects were also provided in the bulletin.

During the year 2010 – 2011 following research projects were discussed and approved for ethical clearance.
<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of Investigators and Co – Investigators and students</th>
<th>Title of Research Projects</th>
</tr>
</thead>
</table>
| 1      | **Investigator:** Dr Sarasu J, Asst Prof, Dept of Anatomy  
          **Coinvestigators:** 1. Dr Ramachandra Rao, Prof & Head, Dept of Anatomy  
                                  2. Dr Syeb Habeebullah, Prof & Head, Dept of Obst & Gynaecology | Detection of fetal DNA in maternal plasma as prenatal diagnostic technique |
| 2      | **Investigator:** Dr Rashmoni Jana, Asst Prof, Dept of Anatomy  
          **Co – Investigators:** 1. Dr Ramachandra Rao Prof & Head Dept of Anatomy | Effect of chronic stress on morphology of intestinal cells of cajal, nitregic and cholinergic neurons in enteric nervous system of rat colon |
| 3      | **Investigator:** Ms N. Maithili Karpaga Selvi, Ph.D. Scholar, Dept of Biochemistry  
          **Co – Investigators:** 1. Dr M.G. Sridhar, Prof, Dept of Biochemistry  
                                  2. Dr R. P. Swaminathan, Prof, Dept of Medicine | Molecular basis of curcumin on insulin resistance and its associated complications in Type 2 Diabetes and obesity |
| 4      | **Investigator:** Ms R. Sripradha, Ph.D. Scholar, Dept of Biochemistry  
          **Co – Investigators:** 1. Dr M.G. Sridhar, Prof, Dept of Biochemistry | Molecular basis of Garcinia combogia extracts on obesity and Insulin sensitivity in diet induced obese and insulin resistant animal models |
| 5      | **Investigator:** Mr Sankar P, PhD Scholar, Dept of Biochemistry  
          **Co – Investigator:** Dr Zachariah Bobby, Asst Prof, Dept of Biochemistry | Molecular basis of Insulin resistance and its complications in high fat fed ovariactomised female Wistar rats: The effects of Treatment |
| 6      | **Investigator:** Dr Debdutta Basu, Addl Prof, Dept of Pathology  
          **Co – Investigators:** 1. Dr Rakhee Kar, Asst Prof, Dept of Pathology  
                                  2. Dr T. K. Dutta, Prof & Head, Dept of Medicine  
                                  3. Dr S. K. Verma, Prof & Head, Dept of Pathology  
                                  4. Dr Rajesh N. G., Asst Prof, Dept of Pathology | Screening for paroxysmal nocturnal hemoglobinuria (PNH) in local patient population using gel card technology |
<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of Investigators and Co–Investigators and students</th>
<th>Title of Research Projects</th>
</tr>
</thead>
</table>
| 7     | **Investigator:**
|       | Dr S. K. Verma, Prof & Head, Dept of Pathology      | Histopathologic and immunophenotypic analysis of Basal like breast cancers |
|       | **Co – Investigator:**
|       | Dr Rajesh N. G., Asst Prof, Dept of Pathology       |                                             |
| 8     | **Investigator:**
|       | Dr B. N. Harish, Prof, Dept of Microbiology         | Antimicrobial resistance in Shigella spp – an investigation into mechanism prevalent in local isolates of Pondicherry and surrounding Tamilnadu |
|       | **Co – Investigator:**
|       | Dr S. C. Parija, Prof & Head, Dept of Microbiology  |                                             |
| 9     | **Investigator:**
|       | Dr S. Sujatha, Addl Prof, Dept of Microbiology      | Molecular study of Methicillin Resistant Staphylococcus aureus (MRSA) |
|       | **Co – Investigators:**
|       | Dr B. N. Harish, Prof, Dept of Microbiology         |                                             |
|       | Dr S. C. Parija, Prof & head, Dept of Microbiology  |                                             |
| 10    | **Investigator:**
|       | Indian side: Dr D. G. Shewade, Prof, Dept of Pharmacology | 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 |
|       | French side: Dr M. A. Loriot, INSERM UMRS 775, Centre Universitaire des saints peres, 45, Rue des Saints Peres, 75270 Paris, Cedex 06, France |                                             |
|       | **Co – Investigators:**
|       | Indian side:
|       | 1.Dr C. Adithan, Prof & Head, Dept of Pharmacology |                                             |
|       | 2.Dr J. Balachander, Prof & Head, Dept of Cardiology |                                             |
|       | 3.Dr T. K. Dutta, Prof & Head, Dept of Medicine      |                                             |
|       | 4.Mr. Krishna Kumar D., PhD Scholar, dept of Pharmacology |                                             |
|       | French side:
<p>|       | 1.Pr Pierre Laurent – Puig, INSERM UMRS 775, Centre Universitaire des saints peres, France |                                             |
|       | 2. Pr Ph Beaune, Pro Biochemie, INSERM UMRS 775, Centre Universitaire des saints peres, France |                                             |</p>
<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of Investigators and Co-Investigators and students</th>
<th>Title of Research Projects</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.</td>
<td>Dr C. Moreau, PhD student, INSERM UMRS 775, Centre Univertaire des saints peres, France</td>
<td>Pharmacogenomics of pioglitazone therapy in South Indian type 2 diabetes patients</td>
</tr>
<tr>
<td>4.</td>
<td>Dr v. Siguert, Assoc Prof of Hematology, INSERM UMRS 775, Centre Univertaire des saints peres, France</td>
<td>Pharmacogenomics of pioglitazone therapy in South Indian type 2 diabetes patients</td>
</tr>
<tr>
<td></td>
<td>Dr J. L. Golmard, Assoc Prof of Statistics, INSERM UMRS 775, Centre Univertaire des saints peres, France</td>
<td>Pharmacogenomics of pioglitazone therapy in South Indian type 2 diabetes patients</td>
</tr>
<tr>
<td>11</td>
<td><strong>Investigators:</strong>&lt;br&gt;1. Dr C. Adithan, Prof &amp; Head, Dept of Pharmacology&lt;br&gt;2. Dr V. Mohan, President, Head of Dept, Dept of Diabetology, Madras Diabetes Research Foundation, Gopalpuram, Chennai&lt;br&gt;<strong>Co-Investigators:</strong>&lt;br&gt;1. Dr S. Balakrishnan, Asst Prof, Dept of Pharmacology&lt;br&gt;2. Dr Radha Venkatesan, Head, Dept of Molecular Genetics, Madras Diabetes Research Foundation, Gopalpuram, Chennai&lt;br&gt;3. Dr C. Suthakaran, Head of Clinical Trials, Madras Diabetes Research Foundation, Gopalpuram, Chennai&lt;br&gt;4. Dr T. K. Dutta, Prof &amp; Head, Dept of Medicine&lt;br&gt;5. Dr R. P. Swaminathan, Prof, Dept of Medicine&lt;br&gt;6. Dr A. K. Das, Prof &amp; Med Supt</td>
<td>Pharmacogenomics of pioglitazone therapy in South Indian type 2 diabetes patients</td>
</tr>
<tr>
<td>12</td>
<td><strong>Investigator:</strong>&lt;br&gt;Mr Z. Zayapragassaran, Asst Prof, Dept of Medical Education&lt;br&gt;<strong>Co-Investigator:</strong>&lt;br&gt;1. Dr Santosh Kumar, Prof &amp; Head, Dept of Medical Education and Urology</td>
<td>Attitude of Health Profession Teachers towards e-learning</td>
</tr>
<tr>
<td>13</td>
<td><strong>Investigator:</strong>&lt;br&gt;Mrs Laksmi R. Lecturer, College of Nursing&lt;br&gt;<strong>Co-Investigators:</strong>&lt;br&gt;1. Dr Rajeshwari Vaidhyanathan, Principal, College of Nursing, Sri Ramchndra Medical college and RI (DU) Porur, Chennai&lt;br&gt;2. Dr Ashok Shankar Badhe, Prof &amp; HOD, Dept of Anaesthesiology</td>
<td>Study to describe feeding practices in critically ill patients and development of nutritional algorithm in selected critical care units of JIPMER, Puducherry</td>
</tr>
<tr>
<td>S. No.</td>
<td>Investigator(s)</td>
<td>Co-Investigator(s)</td>
</tr>
<tr>
<td>-------</td>
<td>----------------</td>
<td>-------------------</td>
</tr>
</tbody>
</table>
| 14    | **Investigator:** Dr Sonali Sarkar, Asst Prof, Dept of PSM  
**Co – Investigators:**  
1. Dr. K. Shivanand, Asst. Prof. Dept. of Psychiatry  
2. Dr. K.C. Premarajan, Prof. Dept. Of PSM  
3. Dr. M. Balasoudarssanane, Prof.& HOD, Dept. of PSM  
4. Dr. Gautam Roy, Prof. Dept. of PSM  
5. Dr. Jayalakshmy. R. Senior Resident, Dept. of PSM | Community Based Intervention of Depression among Elderly |
| 15    | **Investigator:** Dr. Sitanshu Sekhar Kar, Asst. Prof. Prof. Dept. Of PSM  
**Co-Investigators:**  
1. Dr. M. Balasoudarssanane, Prof. & HOD, Dept. of PSM  
2. Dr. K.C. Premarajan, Prof. Dept. of PSM  
3. Dr. Ganesh Kumar.S. Asst.Prof.of Dept. of PSM  
4. Dr. Thiruselvakumar, Senior resident, Dept. of PSM  
5. Dr. Prasanna. T. III Yr. PG. Student, Dept. Of PSM | Prevalence and annual cost of care for hypertension in urban Puducherry |
| 16    | **Investigator:** Dr. Ganesh Kumar.S. Asst. Prof. Dept. of PSM  
**Co-Investigators:**  
1. Dr. M. Balasoudarssanane, Prof.& HOD, Dept. of PSM  
2. Dr. K. Shivanand, Asst. Prof. Dept. of Psychiatry  
3. Dr. K. C. Premarajan, Prof. Dept. of PSM  
4. Dr. Sitanshu Sekhar Kar, Asst. Prof. Dept. Of PSM | Prevalence and Determinants of mental disability using Indian Disability Evaluation Assessment scale (IDEAS) in Urban Field practice area of JIPMER, Puducherry. |
| 17    | **Investigator:** Dr. Manikandan. K., Asst. Prof., Dept. of Obst.& Gynaecology  
**Co-Investigators:**  
1. Dr. Bhawana Badhe, Addl. Prof. Dept. of Pathology  
2. Dr. Soundararaghavan, Prof. Dept. of Obst. & Gynaec.  
3. Dr. Surendra Kumar Verma, Prof.& HOD, Dept. Of Pathology  
4. Dr. Diwaker Mohan, Dept. Of international Health, Johns Hopkins Bloomberg School of Public Health | Relationship between preeclampsia and placental bed vasculature: A study comparing the placental bed microvessel density and trophoblastic invasion of spiral arteries in normal and preeclamptic pregnancies. |
<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of Investigators and Co-Investigators and students</th>
<th>Title of Research Projects</th>
</tr>
</thead>
</table>
| 18    | **Investigator:** Dr. Kubera N.S. Asst. Prof. Dept. of Obst. & Gynae.  
      **Co-Investigators:**  
      1. Dr. K. Ramachandra Rao, Prof. & HOD, Dept. of Anatomy  
      2. Dr. Soundararaghyavan S, Prof. Dept. of Obst. & Gynae. | Cytogenetics and Micronuclear assay among infertile women |
| 19    | **Investigator:** Dr. Veena P. Asst. Prof. Dept. of Obst. & Gynae.  
      **Co-Investigators:**  
      1. Dr. P. H. Ananthanarayanan, Prof. & HOD, Dept. of Biochemistry  
      2. Dr. Soundararaghavan S, Prof. Dept. of Obst. & Gynae. | Calcium homeostasis in pre-eclamptic women receiving magnesium sulphate therapy. |
| 20    | **Investigator:** Dr. Dilip Kumar Maurya, Asst. Prof. Dept. of Obst. & Gynae  
      **Co-Investigators:**  
      1. Dr. P. H. Ananthanarayanan, Prof. & Head, Dept. of Biochemistry  
      2. Dr. Soundararaghavan S, Prof. Dept. of Obst. & Gynae. | Thyroid dysfunction among antenatal women and its effect on obstetrical outcome |
| 21    | **Investigator:** Dr. Adhisivam B. Asst. Prof. Dept. of Paediatrics  
      **Co-Investigators:**  
      1. Dr. S. Srinivasan, Prof. & Head, Dept. of Paediatrics | Mortality pattern of hospitalized Children in JIPMER, a tertiary care hospital of South India |
| 22    | **Investigator:** Dr. Vishnu Bhat B., Prof., Dept. of Paediatrics  
      **Co-Investigators:**  
      1. Dr. S. Srinivasan, Prof. & Head, Dept. of Paediatrics | Mortality pattern of hospitalized Children in JIPMER, a tertiary care hospital of South India |
| 23    | **Investigator:** Dr. Vishnu Bhat B, Prof., Dept. of Paediatrics  
      **Co-Investigators:**  
      1. Dr. Dr. Femitha P. Senior Resident, Dept. of Paediatrics  
      2. Dr. P. Sriram, Asst. Prof., Dept. of Paediatrics | Outcome of late preterm babies |
<table>
<thead>
<tr>
<th>S. No.</th>
<th>Investigator:</th>
<th>Co-Investigators:</th>
<th>Title of Research Projects</th>
</tr>
</thead>
</table>
| 24     | Dr. Narayanan P. | 1. Dr. Prabha, Senior Resident, Dept. of Paediatrics  
2. Dr. Mahadevan, Prof. Dept. of Paediatrics  
3. Dr. S. Srinivasan, Prof. & Head, Dept. of Pediatrics | Sodium valproate versus midazolam in Refractive Status Epilepticus in children-a randomized children |
| 25     | Dr. Sriram Krishnamurthy, Asst. Prof. Dept. of Paediatrics | 1. Dr. Narayanan P.  
2. Dr. Niranjan Biswal, Addl. Prof. Dept. of Paediatrics  
3. Dr. S. Srinivasan, Prof. & Head, Dept. of Pediatrics  
4. Dr. Soundravally R., Asst. Prof. Dept. of Biochemistry | Clinico-etiological profile and predictors of outcome in acute kidney injury: A Prospective observational study in hospitalized children |
| 26     | Dr. Gunaseelan K.  | 1. Dr. K. S. Reddy, Prof. & HOD, Dept. of Radiotherapy, RCC  
2. Dr. Ramachandra Rao, Prof. & HOD, Dept. of Anatomy  
3. Dr. S. Vivekanandam, Prof. Dept. of Radiotherapy, RCC  
4. Dr. Ashutosh Mukerji, Asst. Prof. Dept. of Radiotherapy RCC  
5. Mr. Nanda Kumar, Junior Resident, Dept. of Anatomy  
6. Mr. N. Vijayaraghavan, Lecturer in Radiology (Medical Physics) Dept. of Radiotherapy RCC  
7. Mr. K. Saravanan, Lecturer in Radiology (Medical Physics) Dept. of Radiotherapy RCC | 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. |
<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of Investigators and Co–Investigators and students</th>
<th>Title of Research Projects</th>
</tr>
</thead>
</table>
| 27     | **Investigator:**
Dr. Ashutosh Mukerji, Asst. Prof.  
Dept. of Radiotherapy RCC  
**Co-Investigators:**  
1. Mr. K. Saravanan, Lecturer in  
Radiology (Medical Physics) Dept. of  
Radiotherapy RCC  
2. Dr. Gunaseelan.K. Asst. Prof. Dept. of Radiotherapy, RCC  
3. Dr. S. Vivekanandam Prof. Dept. of Radiotherapy, RCC  
4. Dr. K. S. Reddy, Prof. & HOD,  
Dept. of Radiotherapy, RCC  
5. Dr. Arun Alexander, Asst. Prof.  
Dept. of ENT  
6. Dr. S. Elangovan, Prof. & HOD,  
Dept. of Radiodiagnosis. | To measure degree of hearing loss in patients with squamous cell carcinomas of the Head and Neck region receiving Cisplatin based chemotherapy |
| 28     | **Investigator:**
Mr. N. Vijayaprabhu, Lecturer in  
Radiology (Medical Physics) Dept. of  
Radiotherapy RCC  
**Co-Investigators:**  
1. Mr. K. Saravanan, Lecturer in  
Radiology (Medical Physics) Dept. of  
Radiotherapy RCC  
2. Dr. V. Parthasarathy, 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. S. Vivekanandam Prof.  
Dept. of Radiotherapy, RCC | A study on advantages of using monoisocentric technique in the teletherapy treatment of post-operative carcinoma of breast cases. |
| 29     | **Investigator:**
Dr. Shivanand Kattimani, Asst. Prof.  
Dept. of Psychiatry  
**Co-Investigators:**  
1. Dr. Ravi Philip Rajkumar,  
Asst. Prof. Dept. of Psychiatry | Comparison between sodium and magnesium preparations of valproate in treatment of acute mania: RCT |
<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of Investigators and Co–Investigators and students</th>
<th>Title of Research Projects</th>
</tr>
</thead>
</table>
| 30     | **Investigator:** Mr. K. Saravanan, Lecturer in Radiology (Medical Physics), Dept. of Radiotherapy, RCC.  
**Co-Investigators:**  
1. Mr. N. Vijayaprabhu, Lecturer in Radiology (Medical Physics) Dept. of Radiotherapy, RCC.  
2. Dr. V. Parthasarathy, Asst. Prof., Dept. of Radiotherapy  
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 | 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. |
| 31     | **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 | Study of Clinico-Pathological Prognostic Factors in Peripheral T cell Lymphomas from south India |
| 32     | **Investigator:** Dr. R. Aravind, Asst. Prof. Dept. of Surgical Oncology  
**Co-Investigators:**  
1. Dr. S. Vivekanandam. Prof., Dept. of Radiotherapy  
2. Dr. S. Balanand, Junior Staff Surgeon (Dental)  
3. Dr. Pradipta Kumar Parida, Asst. Prof, Dept. of ENT  
4. Dr. S. Jagdish, Prof. & HOD, Dept. of Surgery  
5. Dr. M. Balasoudarssanane, Prof. & HOD, Dept. of PSM | Descriptive hospital based study to estimate the occurrence of second Primary Tumors (SPT) in patients with oral & oropharyngeal cancer. |
<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of Investigators and Co–Investigators and students</th>
<th>Title of Research Projects</th>
</tr>
</thead>
</table>
| 33    | **Investigator:** Dr. Vijayalakshmi S. Senior Resident, Dept. of Anaesthesiology  
Co-Investigators:  
1. Dr. Suhas R. Senior Resident, Dept. of Anaesthesiology  
2. Dr. Sumanlata G. Asst. Prof. Dept. of Anaesthesiology  
3. Dr. Vasudevan A. Asst. Prof. Dept. of Anaesthesiology  
4. Dr. Ashok S. Badhe, Prof, & HOD, Dept. of Anaesthesiology | Comparison of analgesic efficacy of transversus abdominis plane block with direct infiltration of local anesthetic into surgical incision in lower abdominal surgeries. |
| 34    | **Investigator:** Dr. Ashok Badhe, Prof. & HOD, Dept. of Anaesthesiology  
Co-Investigators:  
1. Dr. Vijayalakshmi S. Senior Resident, Dept. of Anaesthesiology  
2. Dr. Sudeep K. Senior Resident, Dept. of Anaesthesiology  
3. Dr. Niyaz A. Junior Resident, Dept. of Anaesthesiology  
4. Dr. Sandeep Mishra, Asst. Prof. Dept. of Anaesthesiology | Modified surgical APGAR score |
| 35    | **Investigator:** Dr. Kavitha J. Senior Resident, Dept. of Anaesthesiology  
Co-Investigators:  
1. Dr. Sandeep Kumar Mishra, Asst. Prof. Dept. of Anaesthesiology  
2. Dr. B. Hemavathi, Prof. Dept. of Anaesthesiology  
3. Dr. Ashok Shankar Badhe, Prof.& HOD, Dept. of Anaesthesiology | Comparison of the I-gel and Laryngeal Tube- Suction during controlled ventilation |
| 36    | **Investigator:** Dr. Kavitha J. Senior Resident, Dept. of Anaesthesiology  
Co-Investigators:  
1. Dr. Satyen Parida, Asst. Prof. Dept. of Ophthalmology  
2. Dr. Pankaj Kundra, Prof. Dept. of Anaesthesiology  
3. Dr. Renuka Srinivasan, Prof. Dept of Ophthalmology  
4. Dr. Vasudev Anand Rao, Prof & HOD, Dept. of Ophthalmology | Oral Gabapentin premedication for elderly patients undergoing intraocular surgery |
<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of Investigators and Co-Investigators and students</th>
<th>Title of Research Projects</th>
</tr>
</thead>
</table>
| 37    | Investigator: Dr. Sudeep. K. Senior Resident, Dept. of Anaesthesiology  
Co-Investigators: 1. Dr. Senthil Kumar. V. Senior Resident, Dept. of Anaesthesiology & CC  
| 38    | Investigator: Dr. Shivanand Kattimani, Asst. Prof. Dept. of Psychiatry  
Co-Investigators: 1. Dr. Ravi Philip Rajkumar, Asst. Prof. Dept. of Psychiatry | Comparison between sodium and magnesium preparations of valproate in treatment of acute mania: RCT |
| 39    | Investigator: Dr. Ravi Philip Rajkumar, Asst, Prof. Dept. of Psychiatry  
Co-Investigators: 1. Dr. Mahadevan. S. Prof. Dept. of Paediatrics  
2. Dr. Shivanand Kattimani, Asst, Prof. Dept. of Psychiatry | Psychosocial and familial correlates in children with disruptive behavior disorders presenting to a child guidance clinic |
| 40    | Investigator: Dr. Ravi Philip Rajkumar, Asst, Prof. Dept. of Psychiatry  
Co-Investigators: 1. Dr. Shivanand Kattimani, Asst, Prof. Dept. of Psychiatry | A naturalistic study of treatment-emergent suicidality depressed out-patients receiving fluoxetine |
| 41    | Investigator: Dr. V. S. Negi, Addl. Prof. & Head of Clinical Immunology  
Co-Investigators: 1. Dr. Panneer. D, Ph. D. Scholar,  
2. Dr. A.K. Das, Senior Professor of Medicine & Med. Supt.  
3. Dr. T.K. Dutta, Prof & HOD, Dept. of Medicine  
4. Dr. R. P. Swaminathan, Prof. Dept. of Medicine | Molecular characterization of non classical HLA genes (HLA-G, HLA-E) and their contribution to disease susceptibility and severity in rheumatoid Arthritis (RA) |
<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of Investigators and Co–Investigators and students</th>
<th>Title of Research Projects</th>
</tr>
</thead>
</table>
| 42     | **Investigator:** Dr. Abdoul Hamide, Prof. Dept. of Medicine  
**Co-Investigators:**  
1. Dr. Suryanarayana, B.S. Asst. Prof. Dept. of Medicine  
2. Dr. Vir Singh Negi, Addl. Prof. of Medicine & Head of Clinical Immunology | Prevalence and knowledge status of Hepatitis-B virus infection among adolescent students of Pondicherry |
| 43     | **Investigator:** Dr. Renuka Srinivasan, Prof. Dept. of Ophthalmology  
**Co–Investigators:**  
1. Dr. Arvind Gupta, Senior Resident, Dept. of Ophthalmology  
2. Dr. Datta Gulnar Pandian, Senior Resident, Dept. of Ophthalmology  
3. Dr. C. Adithan, Prof & HOD, Dept. of Pharmacology  
4. Dr. Melvin George, Senior Resident, Dept of Pharmacology | A comparative study of clinical efficacy of topical ketorolac v/s bromfenac in reducing aqueous prostaglandin E2 levels and macular edema after cataract surgery |
| 44     | **Investigator:** Dr. Sreejith Parameswaran, Asst. Prof & Dept. of Nephrology  
**Co-Investigators:**  
1. Dr. R. P. Swaminathan, Prof. Dept. of Medicine  
2. Dr. P. H. Ananathanarayanan, Prof. Dept. of HOD, Dept. of Biochemistry  
3. Dr. Madhukar Mittal, Asst. Prof. Dept. of Endocrinology | Longitudinal follow up of bone mineral density in adults with nephrotic syndrome form primary glomerular disease |
| 45     | **Investigator:** Dr. Santosh Kumar, Prof. & HOD, Dept. of Urology  
**Co-Investigators:**  
1. Dr. L. N. Dorairajan, Addl. Prof. Dept. of Urology  
2. Dr. R. Manikandan, Asst. Prof. Dept. of Urology  
3. Dr. Muruganandham. K. Asst. Prof. Dept. of Urology  
4. Mr. R. Murugesan, Physical Instructor, JIPMER | Randomized controlled trial of yoga in Lower Urinary Tract Symptoms suggestive of Benign Prostatic Hyperplasia |
<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of Investigators and Co-Investigators and students</th>
<th>Title of Research Projects</th>
</tr>
</thead>
</table>
| 46    | **Investigator:** Dr. Sunil K. Narayan, Prof. & HOD, Dept. of Neurology  
**Co-Investigators:** 1. Dr. Balakrishnan, Asst. Prof. Dept. of Clinical Pharmacology  
2. Dr. Sushma Sharma, Senior Resident, Dept. of Neurology | The efficacy of Nitric oxide in Stroke (ENOS) trial |
| 47    | **Investigator:** Dr. Sarasu J. Asst. Prof. Dept. of Anatomy  
**Co-Investigators:** 1. Dr. Ramachandra Rao, Prof. & HOD, Dept. of Anatomy  
2. Dr. Ravi Philip Rajkumar, Asst. Prof. Dept. of Psychiatry  
3. Mr. Vijayaraghavan D. Clinical & Social Psychologist Cum Tutor, Dept of Psychiatry | The effect of chronic psychogenic stress on DNA expression among health professionals |
| 48    | **Investigator:** Dr. Ramkumar T. Ph.D. Scholar, Dept. of Physiology  
**Co-Investigators:** 1. Dr. Madanmohan Trakroo, Prof. & HOD, Dept. of Physiology  
2. Dr. A.K. Das, Medical Superintendent, Senior, Prof. Dept. of Medicine  
3. Dr. Pravati Pal, Prof. Dept of Physiology  
4. Dr. Zachariah Bobby, Asst. Prof. Dept. of Biochemistry | Effect of Yoga therapy on cardiac autonomic functions and oxidative stress in pre-hypertensive subjects: a randomized controlled study |
| 49    | **Investigator:** Dr. M. J. Kumari, Vice-Principal College of Nursing,  
**Co-Investigators:** 1. Dr. Mrs. Jayagowri, Prof. & HOD, Pediatric Nursing, Annamalai University  
2. Dr. S. Jagdish, Prof. & HOD, Dept. of Surgery  
3. Dr. V. Ramaprabou, Asst. Prof. Dept. of Psychology, Tagore Arts College, Puducherry. | Effectiveness of Nursing strategies on Wound Healing and Quality of Life among Patients with Diabetic Foot Ulcer |
<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of Investigators and Co-Investigators and students</th>
<th>Title of Research Projects</th>
</tr>
</thead>
</table>
| 50    | **Investigator:** Dr. Ankit Jain, Asst. Prof. Dept. of Medical Oncology  
        **Co-Investigators:**  
        1. Dr. Biswajit D, Asst. Prof. Dept. of Medical Oncology  
        2. Dr. K. S. Reddy, Director of Regional Cancer Centre  
        3. Dr. S. Jagdish, Prof. & HOD, Dept. of Surgery  
        4. Dr. S. Sarat Chandra, Prof. of Surgery  
        5. Dr. Vikram Kate, Prof. Dept. of Surgery  
        6. Dr. S. Elangovan, Prof. & HOD, Dept. of Radio diagnosis | Single arm descriptive study of Capox regimen in locally advanced or metastatic gastric carcinoma patients |
| 51    | **Investigator:** Dr. Ankit Jain, Asst. Prof. Dept. of Medical Oncology  
        **Co-Investigators:**  
        1. Dr. Biswajit D, Asst. Prof. Dept. of Medical Oncology  
        2. Dr. K. S. Reddy, Director of Regional Cancer Centre  
        3. Dr. S. Jagdish, Prof. & HOD, Dept. of Surgery  
        4. Dr. D. Kadambari, Prof. Dept. of Surgery  
        5. Dr. K. Srinivasan, Prof. Dept. of Surgery  
        6. Dr. Surendra Verma, Prof. & HOD Dept. of Pathology | Neoadjuvant Docetaxel and Carboplatin in triple negative locally advanced breast cancer in patients attending JIPMER. |
| 52    | **Investigator:** Dr. Gopalakrishnan M.S. Asst. Prof. Dept. of Neurosurgery  
        **Co-Investigators:**  
        1. Dr. S. C. Parija, Prof. & HOD Dept. of Microbiology  
        2. Dr. Rakhi Biswas, Asst, Prof. Dept. of Microbiology  
        3. Dr. Jharna Mandal, Asst. Prof. Dept. of Microbiology | Quantitative bacteriological profile of hospital attire: Are white lab coat a bacteriological hazard? |
<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of Investigators and Co-Investigators and students</th>
<th>Title of Research Projects</th>
</tr>
</thead>
</table>
| 53    | Investigator: Mr. Syamsundara Kiran. A.N. Ph.D.Student, Dept. of Physiology  
Co-Investigators:  
1. Dr. Pravati Pal. Addl. Prof. Dept. of Physiology  
2. Dr. Sadish Kumar @ Kamalanathan. C, Asst. Prof. Dept. of Endocrinology  
3. Dr. Zachariah Bobby, Asst. Prof. Dept. of Biochemistry  
4. Dr. G.K. Pal, Prof. Dept. of Physiology  
| Effects of gender on autonomic dysfunctions in hypothyroidism: Correlation with blood pressure, BMI, oxidative Stress, lipid profile and inflammatory markers. |
| 54    | Investigator: Dr. S. Velkumary, Asst. Prof. Dept. of Physiology  
Co-Investigators:  
1. Dr. Madanmohan Trakroo, Prof.& HOD Dept. of Physiology  
2. Dr. Vivek Kumar Sharma, Asst. Prof. Dept. of Physiology  
3. Dr. M. K. Srivastava, CMO & Head, Dept. of Psychiatry  
4. Dr. Soundravally. R., Asst. Prof. Dept. of Biochemistry  
5. Mr. Vijayraghavan. D, Tutor Clinical Psychology, Dept. of Psychiatry  
6. Dr. Basanta Manari Naik, Senior Resident, Dept. of Physiology  
| Effect of yoga therapy on anxiety levels and psychophysiological parameters in primary care givers of patients undergoing treatment for alcohol dependence. |
| 55    | Investigator: Dr. Vivek Kumar Sharma, Asst. Prof. Dept. of Physiology  
Co-Investigators:  
1. Dr. Madanmohan, Prof.& HOD Dept. of Physiology  
2. Dr. Ravi Philip Rajkumar, Asst. Prof. Dept. of Psychiatry  
3. Dr. P.H. Ananthnarayanan Prof. Dept. of Biochemistry  
4. Dr Velkumary S. Asst. Prof. Dept. of Physiology  
5. Dr M. K. Srivastava, CMO & Head, Dept. of Psychiatry  
<p>| Effect of yoga therapy on cognitive and autonomic parameters in patients with unipolar major depression |</p>
<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of Investigators and Co-Investigators and students</th>
<th>Title of Research Projects</th>
</tr>
</thead>
</table>
| 56    | **Investigator:** Dr. Vivek Kumar Sharma, Asst. Prof. Dept. of Physiology  
**Co-Investigators:** 1. Dr. Madanmohan, Prof. & HOD Dept. of Physiology  
2. Dr. Ananda Balayogi Bhavanani, Programme Coordinator, Advanced Centre for yoga therapy, JIPMER  
3. Dr. S. Velkumary, Asst. Prof. Dept. of Physiology  
4. Dr. Rajajeyakumar, Senior Resident, Dept. of Physiology  
5. Dr. Ahjit Sahai, Dir-Prof. of Biometrics, Dept. of Biostatistics | Effect of Slow and fast Pranayams on cognitive and autonomic parameters in young healthy subjects |
| 57    | **Investigator:** Dr. Bandi Hari Krishna, Ph.D. Student, Dept. of Physiology  
**Co-Investigators:** 1. Dr. Madanmohan Trakroo, Prof. & HOD Dept. of Physiology  
2. Dr. Ananda Balayogi Bhavanani, Programme Coordinator, Advanced Centre for yoga therapy, JIPMER  
3. Dr. J. Balachander, Prof & Head, Dept of Cardiology  
4. Dr. Sridhar M.G. Prof. Dept. of Biochemistry | “Effect of yoga therapy on autonomic function and Biochemical profile of Heart failure patients” – a Randomized control Trial |
| 58    | **Investigator:** Dr. Medha R. Asst. Prof. Dept of Biochemistry  
**Co-Investigators:** 1. Dr. P. H. Ananthanarayanan, Prof. & HOD, Dept. of Biochemistry  
2. Dr. Laxmisha Chandrashekar, Asst. Prof. Dept. of Dermatology  
3. Dr. D.M. Thappa, Prof. & Head, Dept. of Dermatology  
4. Dr. Santhosh Satheesh, Asst. Prof. Dept. of Cardiology  
5. Dr. J. Balachander, Prof & Head, Dept of Cardiology  
6. Dr. Harichandrakumar. K.T. Lecturer, Dept. of Biostatistics | Biomarkers of atherothrombosis, inflammation, endothelial dysfunction insulin resistance, oxidative stress and associated cardiovascular risk in patients with psoriasis in South Indian population. |
<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of Investigators and Co – Investigators and students</th>
<th>Title of Research Projects</th>
</tr>
</thead>
</table>
| 59    | **Investigator:** Dr. Soundravally R., Asst. Prof. Dept. of Biochemistry  
**Co-Investigators:**  
1. Dr. Soundararaghavan S., Prof. Dept. of Obst. & Gynae  
2. Dr. G. P. Senthil Kumar, Lecturer, Dept. of Biochemistry  
3. Dr. Sajita Setia, Senior Resident, Dept. of Biochemistry | Evaluation of serum activin-B, IL-6 and IL-8 as possible diagnostic markers for early ectopic pregnancy |
| 60    | **Investigator:** Dr. Soundravally R., Asst. Prof. Dept. of Biochemistry  
**Co-Investigators:**  
1. Dr. Radhika M.R. Junior Resident, Dept. of Biochemistry  
2. Dr. P. H. Ananthanarayanan, Prof. & HOD, Dept. of Biochemistry  
3. Dr. Sajita Setia, Senior Resident, Dept. of Biochemistry | Role of CA-125 in Ovarian Pathology: Revisited |
| 61    | **Investigator:** Dr. Medha R. Asst.Prof. Dept. of Biochemistry  
**Co-Investigators:**  
1. Dr. P. H. Ananthanarayanan, Prof. & HOD, Dept. of Biochemistry  
2. Dr. D.M. Thappa, Prof. & Head, Dept. of Dermatology  
3. Dr. Laxmisha Chandrashekar, asst. Prof. Dept. of Dermatology  
4. Dr. Pampa Ch. Toi, Asst. Prof. Dept. of Pathology | Evaluation of platelet activation based on platelet indices, platelet aggregability, soluble P-selectin and platelet oxidative stressing chronic urticaria |
| 62    | **Investigator:** Dr. Soundravally R., Asst. Prof. Dept. of Biochemistry  
**Co-Investigators:**  
1. Dr S. Sujatha, Prof, Dept of Microbiology  
2. Dr. T. Kadhiravan, Asst. Prof. Dept. of Medicine  
3. Dr. P. Narayanan, Asst. Prof. Dept. of Pediatrics  
4. Dr. K. Srilatha, Junior Resident, Dept. of Biochemistry | Circulating levels of interleukin-17 and Nitric Oxide in patients with dengue infection and their association with platelet function. |
<table>
<thead>
<tr>
<th>S. No.</th>
<th>Investigator</th>
<th>Co-Investigators</th>
<th>Title of Research Projects</th>
</tr>
</thead>
<tbody>
<tr>
<td>63</td>
<td>Dr. B. N. Harish, Prof. Dept. of Microbiology</td>
<td>Dr. S. Sujatha, Prof, Dept. of Microbiology</td>
<td>Characterization of genes responsible for Carbapenem resistance in Enterobacteriaceae</td>
</tr>
<tr>
<td>64</td>
<td>Dr. Shramana Mandal, Asst. Prof. Dept. of Pathology</td>
<td>Dr. Bhawana A. Badhe, Prof. Dept.of Pathology; Dr. Surendra Kumar Verma, Prof. &amp; HOD, Dept. of Pathology</td>
<td>Role of p16 and CISH in detection of Human Papilloma virus in oral squamous cell carcinomas</td>
</tr>
<tr>
<td>65</td>
<td>Dr. Arindam Choudhury, Asst. Prof. Dept. of Anaesthesiology</td>
<td>Dr. Ashok Shankar Badhe, Prof.&amp; HOD Dept.of Anaesthesiology; Dr. Ajit Sahai, Dir- Prof. &amp; HOD, Dept. of Biostatistics</td>
<td>Effect of PEEP on ventilation and haemodynamics in patients undergoing day case laparoscopic gynaecologic procedure under general anaesthesia with Laryngeal Mask Airway- Proseal</td>
</tr>
<tr>
<td>66</td>
<td>Dr. Satyen Parida, Asst. Prof. Dept. of Anaesthesiology</td>
<td>Dr. Ashok Shankar Badhe, Prof.&amp; HOD Dept.of Anaesthesiology</td>
<td>Time course of psychomotor, cognitive and ambulatory recovery after sevoflurane day case anesthesia: A randomized double blind study.</td>
</tr>
<tr>
<td>67</td>
<td>Dr. Lenin Babu. E., Asst. Prof. Dept. of Anaesthesiology</td>
<td>Dr. Bidkar Prasanna Udupi, Asst,Prof. Dept.of Anaesthesiology; Dr. P. H. Ananthanarayanan, Prof. &amp; HOD, Dept. of Biochemistry; Dr. Vasudevan. A. Asst. Prof., Dept. of Anaesthesiology; Dr. A.S. Badhe, Prof. Dept. of Anaesthesiology</td>
<td>Factors influencing preoperative anxiety in patients planned for routine surgery: An observational study</td>
</tr>
<tr>
<td>68</td>
<td>Dr. B. Krishnan, Asst. Prof. Dept. of Dentistry</td>
<td></td>
<td>Conservative management of fractures of the dentate portion of the mandible-A prospective clinical study.</td>
</tr>
<tr>
<td>S. No.</td>
<td>Name of Investigators and Co–Investigators and students</td>
<td>Title of Research Projects</td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>--------------------------------------------------------</td>
<td>----------------------------</td>
<td></td>
</tr>
</tbody>
</table>
| 69    | **Investigator:** Dr. B. Krishnan, Asst. Prof. Dept. of Dentistry  
**Co-Investigators:**
1. Dr. Ravi Philip Rajkumar, Asst. Prof. Dept. of Psychiatry  
2. Dr. Harichandrakumar., K.T. Lecturer, Dept. of Biostatistics | Psychological consequences of maxillofacial trauma-A prospective clinical study |
| 70    | **Investigator:** Dr. Divya Gupta, I Yr. Junior Resident, Dept. of Dermatology  
**Co-Investigators:**
1. Dr. Laxmisha Chandrashekar, Asst. Prof., Dept. of Dermatology  
2. Dr. D. M. Thappa, Prof. & Head, Dept. of Dermatology  
3. Dr. S. P. Subbaiah, SAG & Head, Dept. of Transfusion Medicine  
4. Dr. S. Sujatha, Prof, Dept of Microbiology  
5. Dr. Harichandrakumar., K.t. Lecturer, Dept. of Biostatistics | Efficacy of autologous platelet-rich fibrin (PRF) over moist sterile saline dressing in chronic trophic ulcers in Hansen’s disease patients- A Randomised control trial. |
| 71    | **Investigator:** Dr. Laxmisha Chandrashekar, Asst. Prof. Dept. of Dermatology  
**Co-Investigators:**
1. Dr. D. M. Thappa, Prof. & Head, Dept. of Dermatology  
2. Dr. P. H. Ananthanarayanan, Prof. & HOD, Dept. of Biochemistry  
3. Dr. Medha. R. Asst. Prof. Dept. of Biochemistry  
4. Dr. Debdutta Basu, Prof. Dept. of Pathology | Evaluation of the degree of platelet activation based on platelet indices and platelet activation marker soluble P-selectin in psoriasis |
| 72    | **Investigator:** Dr. Laxmisha Chandrashekar, Asst. Prof., Dept. of Dermatology  
**Co-Investigators:**
1. Dr. D. M. Thappa, Prof. & Head, Dept. of Dermatology  
2. Dr. P. H. Ananthanarayanan, Prof. & HOD, Dept. of Biochemistry  
3. Dr. Medha. R. Asst. Prof. Dept. of Biochemistry | Characterization of various markers of nitroso-oxidative and cellular stress and their response to oral minipulse therapy in non-segmental vitiligo |
<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of Investigators and Co–Investigators and students</th>
<th>Title of Research Projects</th>
</tr>
</thead>
</table>
| 73     | **Investigator:** Dr. Pradipta Kurnar Parida, Asst. Prof., Dept. of ENT  
**Co-Investigators:** 1. Dr. Gopalakrishnan, Prof. Dept. of ENT  
2. Dr. P. H. Ananthanarayanan, Prof. & HOD, Dept. of Biochemistry  
3. Dr. V. Parthasarathy, Asst.Prof., Dept of Radiotherapy  
4. Dr. Dhanapathi Halanaik, Asst.Prof., Dept. of Nuclear Medicine | Evaluation of thyroid dysfunction after radiation therapy in head and neck cancer patients |
| 74     | **Investigator:** Dr. Arun Alexander, Asst. Prof., Dept. of ENT  
**Co-Investigators:** 1. Dr. Gopalakrishnan, Prof. Dept. of ENT  
2. Dr. SP. Subbaiah, SAG & Head, Dept. of Transfusion medicine | Evaluation of postoperative bleeding with application of autologous platelet rich plasma following hemithyroidectomy: a randomized controlled clinical trial |
| 75     | **Investigator:** Dr. Arun Alexander, Asst. Prof., Dept. of ENT  
**Co-Investigators:** 1. Dr. Gunaseelan.K. Asst. Prof. Dept. of Radiotherapy  
2. Dr. K. Saravanam, Lecturer in Radiology, Dept. of Radiotherapy | Prospective study of audiological changes in patients treated with radiotherapy for head and neck cancer |
| 76     | **Investigator:** 1. Dr. D. K. Subrahmanyam, Prof., Dept. of Medicine  
2. Dr. B.N. Harish, Prof., Dept. of Microbiology  
**Co-Investigators:** 1. Dr T. K. Dutta, Prof & Head, Dept of Medicine  
2. Dr S. C. Parija, Prof & Head, Dept of Microbiology | Limulus Amebocyte Lysate Assay as a Diagnostic aid in Sepsis – an experience |
<table>
<thead>
<tr>
<th>S. No.</th>
<th>Investigator:</th>
<th>Co-Investigators:</th>
<th>Title of Research Projects</th>
</tr>
</thead>
</table>
| 77     | Dr. T. Kadhiravan, Asst. Prof., Dept. of Medicine | 1. Dr. Rakhi Biswas, Asst. Prof. Dept. of Microbiology  
2. Dr. Jharna Mandal, Asst. Prof. Dept. of Microbiology  
3. Dr. R. Swaminathan, Prof. Dept. of Medicine  
4. Dr. S. C. Parija, Prof & head, Dept of Microbiology  
5. Dr T. K. Dutta, Prof & Head, Dept of Medicine | A prospective evaluation of an algorithm for the early diagnosis of tubercular meningitis. |
| 78     | Dr. Lakshmi C. P. Asst. Professor of Medical Gastroenterology | 1. Dr. D.K.S. Subrahmanyam, Prof. Dept. of Medicine  
2. Dr. Ranjit Hari V, Asst. Prof. Dept. of Surgical Gastroenterology  
3. Dr. Vikram Kate, Prof. Dept. of Surgical Gastroenterology | Recurrence rates of Helicobacter pylori infection after successful eradication therapy: Results from a region with high prevalence of infection |
| 79     | Dr. Srijithesh P.R. Asst Professor Dept. Neurology | 1. Dr. C. Adithan, Prof. & Head, Dept. of Pharmacology  
2. Dr. M. G. Sridhar, Prof. Dept. of Biochemistry  
3. Dr. Pradeep Nair, Asst. Prof. Dept. of Neurology | Temporal validity of biochemical platelet aspirin-responsiveness status in ischemic stroke patients on constant dose to aspirin |
| 80     | Dr. Shashi Ahuja, Asst Professor. Dept. of Ophthalmology | 1. Dr. Renuka Srinivasan, Prof. Dept. of Ophthalmology  
2. Dr. Datta Gulnar Pandian, Senior Resident, Dept. of Ophthalmology  
3. Dr. Arvind Gupta, Senior Resident, Dept. of Ophthalmology  
4. Dr. P.H. Ananthanarayanan, Prof. & Head, Dept. of Biochemistry  
5. Dr. Medha R. Asst. Prof. Dept. of Biochemistry | Aqueous and Serum VEGF & IL-6 levels in diabetic retinopathy |
<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of Investigators and Co-Investigators and students</th>
<th>Title of Research Projects</th>
</tr>
</thead>
</table>
| 81    | **Investigator:**
1. Dr. Subashini Kaliaperumal, Asst Professor. Dept. of Ophthalmology  
**Co-Investigators:**
1. Dr. Vasudev Anand Rao, Prof. & Head Dept. of Ophthalmology  
2. Dr. Soundravally R., Asst. Prof. Dept. of Biochemistry  
3. Dr. P.H. Ananthanarayanan, Prof. & Head, Dept. of Biochemistry  | Iris Indocyanine Green Angiography and correlation with plasma and aqueous levels of homocysteine and vascular endothelial growth factor in pseudoexfoliation syndrome |
| 82    | **Investigator:**
1. Dr. Adhisivam. B., Asst Professor. Dept. of Pediatrics  
**Co-Investigators:**
1. Dr. Femitha. P., Senior Resident, Dept. of Pediatrics  
2. Dr. Rojo, Senior Resident, Dept. of Pediatrics  
3. Dr. B. Vishnu Bhat, Prof. Dept. of Pediatrics  
4. Dr. S. Srinivasan, Prof. & Head, Dept. of Pediatrics  | Postnatal counseling on exclusive breastfeeding using video |
| 83    | **Investigator:**
1. Dr. Rojo, Senior Resident, Dept. Of Pediatrics  
**Co-Investigators:**
1. Dr. B. Vishnu Bhat, Prof. Dept. of Pediatrics  
2. Dr. Zachariah Bobby, Asst. Prof. of Biochemistry  
3. Dr. Adhisivam. B., Asst Professor. Dept. of Pediatrics  
4. Dr. Dr. Femitha. P., Senior Resident, Dept. of Pediatrics  | Effect of therapeutic hypothermia on oxidative stress in term neonates with perinatal asphyxia |
| 84    | **Investigator:**
1. Dr. Sitanshu Sekhar Kar, Asst. Prof. Dept. of PSM  
**Co-Investigators:**
1. Dr. Gautam Roy, Prof. Dept. of PSM  
2. Dr. K.C. Premarajan, Prof. Dept. of PSM  
3. Dr. Sonali Sarkar, Asst. Prof. Dept. of PSM  
4. Dr. Ganesh Kumar. S, Asst.Prof. Dept. of PSM  | Prevalence of injuries among rural and urban population of Puducherry |
<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of Investigators and Co–Investigators and students</th>
<th>Title of Research Projects</th>
</tr>
</thead>
</table>
| 85     | **Investigator:** 1. Dr. Ganesh Kumar. S, Asst. Prof. Dept. of PSM  
          **Co-Investigators:** 1. Dr. Sonali Sarkar, Asst. Prof. Dept. of PSM 2. Dr. Sitanshu Sekhar Kar, Asst. Prof. Dept. of PSM 3. Dr. Ghorpade Arun. G, Junior Resident, Dept. of PSM | Prevalence of depression and its associated factors using Beck’s Depression inventory among undergraduate medical students of JIPMER, Puducherry |
| 86     | **Investigator:** 1. Dr. Ganesh Kumar. S, Asst. Prof. Dept. of PSM  
          **Co-Investigators:** 1. Dr. Gautam Roy, Prof. Dept. of PSM 2. Dr. K. C. Premarajan, Prof. Dept. of PSM 3. Dr. Sonali Sarkar, Asst. Prof. Dept. of PSM 4. Dr. Sitanshu Sekhar Kar, Asst. Prof. Dept. of PSM | Contraceptive prevalence rate and factors associated with unmet need for family planning among currently married women of reproductive age group in urban field practice area of JIPMER, Puducherry |
| 87     | **Investigator:** Dr. Sonali Sarkar, Asst. Prof. Dept. of PSM  
          **Co-Investigators:** 1. Dr. Dilip Kumar Maurya, Asst. Prof. Dept. of Obst. & Gyn. 2. Dr. S. Habeebullah, Prof. & Head, Dept. of Obst. & Gyn | Trend of permanent sterilizations in women after implementation of family planning insurance scheme |
| 88     | **Investigator:** Dr. S. Vinod Kumar, Prof. & Head, Dept. Of Pulmonary Medicine  
          **Co-Investigators:** 1. Dr. N. Narendra Kumar, Senior Resident. Dept. of Pulmonary Medicine 2. Dr. Manoj Kumar Panigrahi, Asst. Prof. Dept. of Pulmonary Medicine 3. Dr. S. Mathan Raj, Junior Resident, Dept. of Pulmonary Medicine | Sclerotherapy for malignant pleural effusions. A prospective randomized trial of Vincristine, Cisplatin and Bleomycin |
<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of Investigators and Co-Investigators and students</th>
<th>Title of Research Projects</th>
</tr>
</thead>
</table>
| 89    | **Investigator:** Dr. A. Ramesh, Asst. Prof. Dept. of Radiodiagnosis.  
      **Co-Investigators:**  
      1. Dr. S. Elangovan, Prof. & Head, Dept. of Radiodiagnosis  
      2. Dr. Prakash Muthusami, Senior Resident, Dept. of Radiodiagnosis  
      3. Mr. Harichandrarakumar, K. T. Lecturer, Dept. of Biostatistics | Anatomical variations of splanchnic vasculature studied with 64-row CT angiography in a south Indian population |
| 90    | **Investigator:** Dr. Prakash Muthusami, Senior Resident, Dept. of Radiodiagnosis  
      **Co-Investigators:**  
      1. Dr. S. Elangovan, Prof. & Head, Dept. of Radiodiagnosis  
      2. Dr. A. Ramesh, Asst. Prof. Dept. of Radiodiagnosis  
      3. Mr. Harichandrarakumar, K. T. Lecturer, Dept. of Biostatistics | Abdominal organ dimensions and volumes: A comparison of ultrasound of ultrasound and CT measurements |
| 91    | **Investigator:** Ms. Sharika V. Menon, Lecturer in Radiology Dept. of Radiotherapy  
      **Co-Investigators:**  
      1. Mr. N. Vijayaprabhu, Lecturer in Radiology Dept. of Radiotherapy  
      2. Dr. K. Saravanan, Lecturer in Radiology, Dept. of Radiotherapy  
      3. Dr. K.S. Reddy, Director, RCC, Dept. of Radiotherapy  
      4. Dr. V. Parthasarathy, Asst. Prof. Dept. of Radiotherapy  
      5. Mr. R. Seenisamy, Lecturer in Radiology, Dept. of Radiotherapy  
      6. Dr. K. Gunaseelan, Asst. Prof. Dept. of Radiotherapy | Optimal source positions for 2D-based HDR treatment planning of cancer of the uterine cervix using ring applicator |
| 92    | **Investigator:** Dr. L. N. Dorairajan, Prof. Dept. of Urology  
      **Co-Investigators:**  
      1. Dr. Santosh Kumar, Prof. & Head, Dept. of Urology  
      2. Dr. K. Muruganandham, Asst. Prof. Dept. of Urology  
      3. Dr. R. Manikandan, Asst. Prof. Dept. of Urology  
      4. Dr. S. Elangovan, Prof. & Head, Dept. of Radiodiagnosis | Randomized controlled trial comparing fluoroscopy versus flexible nephroscopy for confirming stone clearance in percutaneous nephrolithotompy |
<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of Investigators and Co-investigators and students</th>
<th>Title of Research Projects</th>
</tr>
</thead>
</table>
| 93    | **Investigator:** Dr. L. N. Dorairajan, Prof. Dept. of Urology  
Co-Investigators:  
1. Dr. Santosh Kumar, Prof. & Head, Dept. of Urology  
2. Dr. R. Manikandan, Asst. Prof. Dept. of Urology  
3. Dr. K. Muruganandham, Asst. Prof. Dept. of Urology | Role of transrectal ultrasound (TRUS) in the management of acute bacterial prostatitis and prostatic abscess |
| 94    | **Investigator:** Dr. R. Manikandan, Asst. Prof. Dept. of Urology  
Co-Investigators:  
1. Dr. Santosh Kumar, Prof. & Head, Dept. of Urology  
2. Dr. L. N. Dorairajan, Prof. Dept. of Urology  
3. Dr. Ravi Philip Rajkumar, Asst. Prof. Dept. of Psychiatry  
4. Dr. Shivanand Kattimani, Asst. Prof. Dept. of Psychiatry  
5. Dr. Syed Habeebullah, Prof. & Head Dept. of Obst. & Gyn.  
6. Dr. K. Muruganandham, Asst. Prof. Dept. of Urology | Self-reported sexual functioning and quality of life in male and female partners attending infertility clinic |
| 95    | **Investigator:** Mr. Harichandrakumar K. T. Lecturer, Dept. of Biochemistry  
Co-Investigators:  
1. Dr. Kumaran, Dept. of Statistics, NAS College, Kanhangad, Kerala | Structural Equations Model for Health Related Quality of Life (HRQoL) in patients with Lymphatic filariasis |
| 96    | **Investigator:** Mr. Harichandrakumar K. T. Lecturer, Dept. of Biochemistry  
Co-Investigators:  
1. Dr. Kadambari, Addl. Prof. Dept. of surgery  
2. Dr. L. N. Dorairajan, Prof. Dept. of Urology  
3. Dr. Soundararaghavan S, Prof. Dept. of Obst. & Gynae  
4. Dr. K. S. Reddy, Director of Regional Cancer Centre  
5. Dr. Ajit Sahai, Dir-Prof. & Head, Dept. of Biostatistics | Inequalities in Socio-Economic and Demographic factors in different stages of breast & Cervical cancer at diagnosis |
INTRODUCTION

JIPMER, acronym for Jawaharlal Institute Postgraduate of Medical Education and Research, from the inception 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 indicates how much the general populates utilize the services of the JIPMER hospital.

Statistics at Glance for the year 2010 – 2011

<table>
<thead>
<tr>
<th>Description</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Numbers of beds</td>
<td>1,591</td>
</tr>
<tr>
<td>Average Out Patients</td>
<td>5,315</td>
</tr>
<tr>
<td>Total outpatients Treated</td>
<td>15,94,214</td>
</tr>
<tr>
<td>Total Number of Admissions made</td>
<td>67,265</td>
</tr>
<tr>
<td>Total Number of deliveries conducted</td>
<td>15,645</td>
</tr>
<tr>
<td>Total Number of patients attended casualty</td>
<td>2,36,862</td>
</tr>
<tr>
<td>Total Number of operations performed</td>
<td>33,853</td>
</tr>
<tr>
<td>Total Number of Investigations carried out</td>
<td>25,33,442</td>
</tr>
</tbody>
</table>

H1N1 EPIDEMIC

About 250 students and residents and 350 staff members were immunized against the H1N1 infection during this period.

NEW FACILITIES

A six bedded ward for Clinical pharmacology has stared functioning in the ward 26 of Main block. Other works under Augmentation of various departments are in progress which include:

- Provision of Lift connecting all OTS in the Main block
- New conference hall cum training and demonstration room for Anesthesiology department
- 16 bedded ICU complex in the department of Medicine

JIPMER 2010-2011 / 108
PATIENTS BENEFIT SCHEMES

A. Rashtriya Arogya Nidhi (RAN)

Ministry of Health & Family Welfare is giving financial assistance to the poor patients for treatment in JIPMER Hospital under the scheme of Rashtriya Arogya Nidhi (RAN). Accordingly, a sum of Rs. 15,45,017/- (Rupees fifteen lac forty five thousand and seventeen only) has been utilized during the financial year 2010-2011. The beneficiaries were 21 patients from various departments.

B. Poor Patient Chest Fund

Poor patient chest fund is being operated in our Hospital for giving financial assistance to the poor patients for treatment in JIPMER Hospital. Accordingly, a sum of Rs. 26,534/- (Rupees twenty six thousand five hundred and thirty four only) has been utilized under the scheme during the financial years 2010-2011. The beneficiaries were 18 patients from various departments.

Annual Performance for the Year 2010-2011

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Indicators</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Admissions</td>
<td>Male : 27,252</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Female : 40,013</td>
</tr>
<tr>
<td>02</td>
<td>Discharges</td>
<td>Male : 26,220</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Female : 38,626</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ambiguous : 12</td>
</tr>
<tr>
<td></td>
<td>Daily Average inpatient occupancy : 1,384</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bed Occupancy Rate : 102.7 %</td>
<td></td>
</tr>
</tbody>
</table>

Out Patients Statistics

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Indicators</th>
<th>New Cases</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>General Services</td>
<td>4,63,205</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Old Cases</td>
<td>7,27,209</td>
<td></td>
</tr>
<tr>
<td>02</td>
<td>Special Clinics</td>
<td>64,203</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Old Cases</td>
<td>3,39,597</td>
<td></td>
</tr>
<tr>
<td>03</td>
<td>Total No. of New Cases</td>
<td>5,27,408</td>
<td></td>
</tr>
<tr>
<td>04</td>
<td>Total No. of Out Patients</td>
<td>15,94,214</td>
<td></td>
</tr>
</tbody>
</table>

JIPMER 2010-2011 / 109
# Daily Out Patients Attendance as per Service Wise

(2010-2011)

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Services</th>
<th>New Cases</th>
<th>Old Cases</th>
<th>Total</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>General Medicine</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. General OPD</td>
<td>1,06,794</td>
<td>1,06,016</td>
<td>2,12,810</td>
<td>709</td>
</tr>
<tr>
<td></td>
<td>b. Speciality Clinics</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1. Chest Clinic</td>
<td>869</td>
<td>5,810</td>
<td>6,679</td>
<td>128</td>
</tr>
<tr>
<td></td>
<td>2. Geriatrics Clinic</td>
<td>123</td>
<td>178</td>
<td>301</td>
<td>06</td>
</tr>
<tr>
<td></td>
<td>3. Haematology Clinic</td>
<td>277</td>
<td>1,631</td>
<td>1,908</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>4. HIV/IEC Clinic</td>
<td>161</td>
<td>1,722</td>
<td>1,883</td>
<td>36</td>
</tr>
<tr>
<td></td>
<td>5. Immunology Clinic</td>
<td>1,810</td>
<td>12,368</td>
<td>14,178</td>
<td>124</td>
</tr>
<tr>
<td></td>
<td>6. Nephrology Clinic</td>
<td>858</td>
<td>4,402</td>
<td>5,260</td>
<td>75</td>
</tr>
<tr>
<td>II</td>
<td>General Surgery</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. General OPD</td>
<td>38,348</td>
<td>53,638</td>
<td>91,986</td>
<td>307</td>
</tr>
<tr>
<td></td>
<td>b. Pd. Surgery OPD</td>
<td>2,201</td>
<td>10,717</td>
<td>12,918</td>
<td>43</td>
</tr>
<tr>
<td></td>
<td>c. Speciality Clinics</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1. Breast Clinic</td>
<td>694</td>
<td>3,151</td>
<td>3,845</td>
<td>74</td>
</tr>
<tr>
<td></td>
<td>2. Surgical Oncology (M)</td>
<td>351</td>
<td>1,323</td>
<td>1,674</td>
<td>32</td>
</tr>
<tr>
<td>III</td>
<td>Obst &amp; Gynaecology</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. General OPD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>– Obstetrics</td>
<td>19,405</td>
<td>36,586</td>
<td>55,991</td>
<td>187</td>
</tr>
<tr>
<td></td>
<td>– Gynaecology</td>
<td>18,195</td>
<td>29,015</td>
<td>47,210</td>
<td>157</td>
</tr>
<tr>
<td></td>
<td>b. Speciality Clinics</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1. Cancer Clinic</td>
<td>670</td>
<td>1,979</td>
<td>2,649</td>
<td>55</td>
</tr>
<tr>
<td></td>
<td>2. Post Natal Clinic</td>
<td>1,379</td>
<td>1,463</td>
<td>2,842</td>
<td>59</td>
</tr>
<tr>
<td></td>
<td>3. Infertility Clinic</td>
<td>180</td>
<td>253</td>
<td>433</td>
<td>09</td>
</tr>
<tr>
<td>IV</td>
<td>Pre-Anaesthetic Clinic</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. General OPD</td>
<td>5,498</td>
<td>1,980</td>
<td>7,478</td>
<td>25</td>
</tr>
<tr>
<td>V</td>
<td>Pulmonary Medicine</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. General OPD</td>
<td>5,856</td>
<td>24,172</td>
<td>30,028</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>b. Speciality Clinics</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1. Respirat. &amp; Allergy Clinic</td>
<td>866</td>
<td>4,096</td>
<td>4,962</td>
<td>103</td>
</tr>
<tr>
<td>VI</td>
<td>E.N.T.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. General OPD</td>
<td>30,655</td>
<td>55,454</td>
<td>86,109</td>
<td>287</td>
</tr>
<tr>
<td></td>
<td>b. Speciality Clinic</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1. Cancer Clinic</td>
<td>487</td>
<td>2,280</td>
<td>2767</td>
<td>53</td>
</tr>
<tr>
<td>Sl. No</td>
<td>Services</td>
<td>New Cases</td>
<td>Old Cases</td>
<td>Total</td>
<td>Average</td>
</tr>
<tr>
<td>-------</td>
<td>---------------------</td>
<td>-----------</td>
<td>-----------</td>
<td>---------</td>
<td>---------</td>
</tr>
<tr>
<td>VI</td>
<td>Dental</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. General OPD</td>
<td>7,771</td>
<td>19,466</td>
<td>27,237</td>
<td>91</td>
</tr>
<tr>
<td>VII</td>
<td>Ophthalmology</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. General OPD</td>
<td>20,732</td>
<td>33,106</td>
<td>53,838</td>
<td>179</td>
</tr>
<tr>
<td></td>
<td>b. Speciality Clinics</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1. Cornea Clinic</td>
<td>154</td>
<td>375</td>
<td>529</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>2. Fundus Clinic</td>
<td>497</td>
<td>348</td>
<td>845</td>
<td>08</td>
</tr>
<tr>
<td></td>
<td>3. Glaucoma Clinic</td>
<td>205</td>
<td>377</td>
<td>582</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>4. Post Operative Clinic</td>
<td>1,497</td>
<td>1,485</td>
<td>2,982</td>
<td>62</td>
</tr>
<tr>
<td>VIII</td>
<td>Orthopaedic Surgery</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. General OPD</td>
<td>40,654</td>
<td>45,731</td>
<td>86,385</td>
<td>288</td>
</tr>
<tr>
<td></td>
<td>b. Speciality Clinics</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1. Bone Tumour Clinic</td>
<td>77</td>
<td>186</td>
<td>263</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>2. Club Foot Clinic</td>
<td>124</td>
<td>1,239</td>
<td>1,363</td>
<td>28</td>
</tr>
<tr>
<td></td>
<td>3. Polio&amp; Cereb. Palsy Clinic</td>
<td>117</td>
<td>160</td>
<td>277</td>
<td>05</td>
</tr>
<tr>
<td></td>
<td>4. Occupational therapy</td>
<td>1,283</td>
<td>8,061</td>
<td>9,344</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>5. Physiotherapy</td>
<td>6,776</td>
<td>32,089</td>
<td>38,865</td>
<td>130</td>
</tr>
<tr>
<td></td>
<td>6. Orthotics</td>
<td>1,810</td>
<td>1,032</td>
<td>2,842</td>
<td>09</td>
</tr>
<tr>
<td></td>
<td>7. Prosthetics</td>
<td>150</td>
<td>219</td>
<td>369</td>
<td>01</td>
</tr>
<tr>
<td>IX</td>
<td>Psychiatry</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. General OPD</td>
<td>5,267</td>
<td>55,308</td>
<td>60,575</td>
<td>202</td>
</tr>
<tr>
<td></td>
<td>b. Speciality Clinics</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1. Affective Disorder Clinic</td>
<td>1,243</td>
<td>18,544</td>
<td>19,787</td>
<td>381</td>
</tr>
<tr>
<td></td>
<td>2. Schizophrenia Clinic</td>
<td>934</td>
<td>17,192</td>
<td>18,126</td>
<td>378</td>
</tr>
<tr>
<td></td>
<td>3. Neuro psy / Memory Clinic</td>
<td>917</td>
<td>11,964</td>
<td>12,881</td>
<td>268</td>
</tr>
<tr>
<td></td>
<td>4. Crises Intervention Clinic</td>
<td>594</td>
<td>1,789</td>
<td>2,303</td>
<td>44</td>
</tr>
<tr>
<td></td>
<td>5. De-addiction Clinic</td>
<td>975</td>
<td>2,308</td>
<td>3,283</td>
<td>68</td>
</tr>
<tr>
<td>X</td>
<td>Paediatrics</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. General OPD</td>
<td>31,824</td>
<td>46,128</td>
<td>77,952</td>
<td>260</td>
</tr>
<tr>
<td></td>
<td>b. Speciality Clinics</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1. Underfive Clinic</td>
<td>6,983</td>
<td>4,592</td>
<td>11,575</td>
<td>241</td>
</tr>
<tr>
<td></td>
<td>2. FUC - (Thursday)</td>
<td>355</td>
<td>2,917</td>
<td>3,272</td>
<td>63</td>
</tr>
<tr>
<td></td>
<td>3. FUC - (Friday)</td>
<td>827</td>
<td>9,368</td>
<td>10,195</td>
<td>212</td>
</tr>
<tr>
<td>Sl. No</td>
<td>Services</td>
<td>New Cases</td>
<td>Old Cases</td>
<td>Total</td>
<td>Average</td>
</tr>
<tr>
<td>-------</td>
<td>-----------------</td>
<td>-----------</td>
<td>-----------</td>
<td>--------</td>
<td>---------</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>XII</td>
<td>Skin &amp; STD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a.</td>
<td>General OPD</td>
<td>24,693</td>
<td>38,274</td>
<td>62,967</td>
<td>210</td>
</tr>
<tr>
<td>b.</td>
<td>Speciality Clinics</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>FUC Skin</td>
<td>686</td>
<td>3,902</td>
<td>4,588</td>
<td>88</td>
</tr>
<tr>
<td>2.</td>
<td>Leprosy</td>
<td>473</td>
<td>3,042</td>
<td>3,515</td>
<td>68</td>
</tr>
<tr>
<td>XIII</td>
<td>Radiotherapy</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a.</td>
<td>General OPD</td>
<td>2,455</td>
<td>29,210</td>
<td>31,665</td>
<td>106</td>
</tr>
<tr>
<td>XIV</td>
<td>Medical Oncology</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a.</td>
<td>General OPD</td>
<td>1,020</td>
<td>9,041</td>
<td>10,061</td>
<td>34</td>
</tr>
</tbody>
</table>

**Daily Out Patients Attendance as per Service Wise (2010-2011)**

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Services</th>
<th>New Cases</th>
<th>Old Cases</th>
<th>Total</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>SUPER SPECIALITY CLINICS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CARDIOLOGY</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a.</td>
<td>General OPD</td>
<td>4,967</td>
<td>48,359</td>
<td>53,326</td>
<td>351</td>
</tr>
<tr>
<td>b.</td>
<td>Special Clinics</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>Pacemaker Clinic</td>
<td>---</td>
<td>1,174</td>
<td>1,174</td>
<td>24</td>
</tr>
<tr>
<td>2.</td>
<td>Post Intervention &amp; Valve</td>
<td>---</td>
<td>1,256</td>
<td>1,256</td>
<td>24</td>
</tr>
<tr>
<td>C.T.V.S.</td>
<td></td>
<td>1,307</td>
<td>12,600</td>
<td>13,907</td>
<td>134</td>
</tr>
<tr>
<td></td>
<td>DIABETES</td>
<td>3,190</td>
<td>28,980</td>
<td>32,170</td>
<td>617</td>
</tr>
<tr>
<td></td>
<td>ENDOCRINOLOGY</td>
<td>862</td>
<td>8,580</td>
<td>9,442</td>
<td>114</td>
</tr>
<tr>
<td></td>
<td>Nephrology</td>
<td>858</td>
<td>4,402</td>
<td>5,260</td>
<td>75</td>
</tr>
<tr>
<td></td>
<td>NEUROLOGY</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a.</td>
<td>Neuro Epilepsy</td>
<td>2,912</td>
<td>14,357</td>
<td>17,269</td>
<td>332</td>
</tr>
<tr>
<td>b.</td>
<td>Neuro General</td>
<td>2,951</td>
<td>16,012</td>
<td>18,963</td>
<td>395</td>
</tr>
<tr>
<td></td>
<td>NEUROSURGERY</td>
<td>1,808</td>
<td>3,098</td>
<td>4,906</td>
<td>49</td>
</tr>
<tr>
<td></td>
<td>PLASTIC SURGERY</td>
<td>1,024</td>
<td>3,479</td>
<td>4,503</td>
<td>47</td>
</tr>
<tr>
<td></td>
<td>MEDICAL GAST, ENTEROLOGY</td>
<td>659</td>
<td>2,174</td>
<td>2,833</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>SURGICAL GAST, ENTEROLOGY</td>
<td>2,297</td>
<td>2,419</td>
<td>4,716</td>
<td>47</td>
</tr>
<tr>
<td></td>
<td>UROLOGY</td>
<td>5,004</td>
<td>23,448</td>
<td>28,452</td>
<td>285</td>
</tr>
<tr>
<td>B</td>
<td>YOGA</td>
<td>941</td>
<td>5,989</td>
<td>6,930</td>
<td>23</td>
</tr>
<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>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>Main Casualty</td>
<td>87,523</td>
<td>69,988</td>
<td>157,511</td>
<td>432</td>
</tr>
<tr>
<td>2.</td>
<td>OG Casualty</td>
<td>8,217</td>
<td>12,824</td>
<td>21,041</td>
<td>58</td>
</tr>
</tbody>
</table>

JIPMER 2010-2011/112
### Geographical Distribution

#### No. of Patients treated as per State wise

<table>
<thead>
<tr>
<th>2010-2011</th>
<th>Pondy</th>
<th>Tamil Nadu</th>
<th>Andhra Pradesh</th>
<th>Kerala</th>
<th>Karnataka</th>
<th>Other States</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Out Patients (New Cases)</td>
<td>1,20,312</td>
<td>4,03,035</td>
<td>1,891</td>
<td>390</td>
<td>585</td>
<td>1,195</td>
<td>5,27,408</td>
</tr>
<tr>
<td>In Patients</td>
<td>12,007</td>
<td>54,846</td>
<td>175</td>
<td>51</td>
<td>93</td>
<td>93</td>
<td>67,265</td>
</tr>
</tbody>
</table>

### Laboratory Investigations for the Year

#### 2010-2011

<table>
<thead>
<tr>
<th>Code</th>
<th>Department</th>
<th>No. of Investigations</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>BIO CHEMISTRY</td>
<td>12,34,232</td>
</tr>
<tr>
<td>02</td>
<td>MICROBIOLOGY</td>
<td>1,45,858</td>
</tr>
<tr>
<td>03</td>
<td>PATHOLOGY</td>
<td>1,31,672</td>
</tr>
<tr>
<td>04</td>
<td>OTHER DEPARTMENTS</td>
<td>10,21,680</td>
</tr>
<tr>
<td>05</td>
<td>TOTAL NO. OF INVESTIGATIONS</td>
<td>25,33,442</td>
</tr>
</tbody>
</table>

### Deliveries Conducted for the Year 2010-2011

<table>
<thead>
<tr>
<th>2010-2011</th>
<th>LIVE BIRTHS</th>
<th>STILL BIRTHS</th>
<th>TOTAL NO. OF DELIVERIES</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Male</td>
<td>Female</td>
<td>Amb.</td>
</tr>
<tr>
<td>April</td>
<td>658</td>
<td>540</td>
<td>---</td>
</tr>
<tr>
<td>May</td>
<td>760</td>
<td>661</td>
<td>01</td>
</tr>
<tr>
<td>June</td>
<td>816</td>
<td>688</td>
<td>---</td>
</tr>
<tr>
<td>July</td>
<td>701</td>
<td>678</td>
<td>01</td>
</tr>
<tr>
<td>August</td>
<td>705</td>
<td>621</td>
<td>01</td>
</tr>
<tr>
<td>September</td>
<td>675</td>
<td>651</td>
<td>01</td>
</tr>
<tr>
<td>October</td>
<td>739</td>
<td>671</td>
<td>---</td>
</tr>
<tr>
<td>November</td>
<td>704</td>
<td>679</td>
<td>01</td>
</tr>
<tr>
<td>December</td>
<td>635</td>
<td>534</td>
<td>---</td>
</tr>
<tr>
<td>January</td>
<td>500</td>
<td>520</td>
<td>---</td>
</tr>
<tr>
<td>February</td>
<td>417</td>
<td>371</td>
<td>01</td>
</tr>
<tr>
<td>March</td>
<td>552</td>
<td>479</td>
<td>01</td>
</tr>
<tr>
<td>Total</td>
<td>7862</td>
<td>7093</td>
<td>07</td>
</tr>
</tbody>
</table>
### Total No. Of Deaths for the Year 2010 – 2011

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Deaths</td>
<td>48 Hrs.</td>
<td>863</td>
</tr>
<tr>
<td></td>
<td></td>
<td>+ 48 Hrs.</td>
<td>1,251</td>
</tr>
<tr>
<td>02</td>
<td>Death Rate</td>
<td>G.D.R.</td>
<td>3.16%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>N.D.R.</td>
<td>1.87%</td>
</tr>
<tr>
<td>03</td>
<td>E.M.S. Attendance</td>
<td>No. of Patients</td>
<td>Average</td>
</tr>
<tr>
<td></td>
<td>(Out Patients)</td>
<td>1,78,552</td>
<td>489</td>
</tr>
<tr>
<td>04</td>
<td>Main Casualty</td>
<td>1,57,976</td>
<td>433</td>
</tr>
<tr>
<td>05</td>
<td>O.G. Casualty</td>
<td>21,041</td>
<td>58</td>
</tr>
</tbody>
</table>

### No. of Operations Performed for the Year 2010-2011

<table>
<thead>
<tr>
<th></th>
<th>2010 - 2011</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Obstetrics I</td>
<td>1,266</td>
<td></td>
</tr>
<tr>
<td>Obstetrics II</td>
<td>1,423</td>
<td></td>
</tr>
<tr>
<td>Obstetrics III</td>
<td>1,625</td>
<td></td>
</tr>
<tr>
<td>Obstetrics IV</td>
<td>1,315</td>
<td></td>
</tr>
<tr>
<td>Gynaecology I</td>
<td>455</td>
<td></td>
</tr>
<tr>
<td>Gynaecology II</td>
<td>521</td>
<td></td>
</tr>
<tr>
<td>Gynaecology III</td>
<td>680</td>
<td></td>
</tr>
<tr>
<td>Gynaecology IV</td>
<td>451</td>
<td></td>
</tr>
<tr>
<td>Surgery I</td>
<td>2,284</td>
<td></td>
</tr>
<tr>
<td>Surgery II</td>
<td>1,814</td>
<td></td>
</tr>
<tr>
<td>Surgery III</td>
<td>1,961</td>
<td></td>
</tr>
<tr>
<td>Surgery IV</td>
<td>1,649</td>
<td></td>
</tr>
<tr>
<td>Neuro-Surgery</td>
<td>445</td>
<td></td>
</tr>
<tr>
<td>Gas. Enter. Sur.</td>
<td>77</td>
<td></td>
</tr>
<tr>
<td>Sur. Oncology</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Urology</td>
<td>5,246</td>
<td></td>
</tr>
<tr>
<td>Paed Surg.</td>
<td>2,201</td>
<td></td>
</tr>
<tr>
<td>Orthopedics</td>
<td>1,473</td>
<td></td>
</tr>
<tr>
<td>ENT</td>
<td>4,779</td>
<td></td>
</tr>
<tr>
<td>Plastic Surgery</td>
<td>760</td>
<td></td>
</tr>
<tr>
<td>Ophthalmology</td>
<td>1,643</td>
<td></td>
</tr>
<tr>
<td>Thoracic. Surg</td>
<td>488</td>
<td></td>
</tr>
<tr>
<td>Dental</td>
<td>833</td>
<td></td>
</tr>
<tr>
<td>Radiotherapy</td>
<td>444</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>33,853</strong></td>
<td></td>
</tr>
</tbody>
</table>
## 7.2 JIPMER Urban Health Centre
### Kurusukuppam

**Professor & In-charge**  
Gautam Roy  
**Assistant Professor**  
Sitanshu Sekhar Kar  
**Chief Medical Officer**  
R. N. Sahoo

<table>
<thead>
<tr>
<th>SERVICE</th>
<th>PERFORMANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>O.P.D. Attendance</td>
<td>33,372</td>
</tr>
<tr>
<td>Approx per month</td>
<td>2,781</td>
</tr>
<tr>
<td>Antenatal Clinic conducted</td>
<td>52</td>
</tr>
<tr>
<td>Antenatals registered</td>
<td>148</td>
</tr>
<tr>
<td>Under five clinic conducted</td>
<td>52</td>
</tr>
</tbody>
</table>

### IMMUNIZATIONS

- **Antenatal Inj. T.T. I dose**  
  - I Dose: 112  
  - II Dose: 107
- **Inj. D.P.T. & OPV I dose**  
  - I Dose: 106  
  - II Dose: 104  
  - III dose: 118
- **Inj. Hepatitis. B I dose**  
  - I Dose: 106  
  - II Dose: 104  
  - III dose: 118
- **Inj. Measles**  
  - I Dose: 118  
- **Inj. M.M.R.**  
  - I Dose: 122
- **School Immunization**
  - Inj. D.T  
    - I Dose: 13
  - Inj. T.T. 10 years  
    - I Dose: 33
  - Inj. T.T. 16 years  
    - I Dose: 43

JIPMER 2010-2011 / 115
SERVICES PERFORMANCE from April 10 to Mar 2011

<table>
<thead>
<tr>
<th>SERVICES</th>
<th>PERFORMANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chronic illness Clinic conducted</td>
<td>48</td>
</tr>
<tr>
<td>Patients treated</td>
<td>4368</td>
</tr>
<tr>
<td>R N T C P</td>
<td></td>
</tr>
<tr>
<td>No. of Cases</td>
<td>28</td>
</tr>
<tr>
<td>Cat – I</td>
<td>11</td>
</tr>
<tr>
<td>Cat - II</td>
<td>10</td>
</tr>
<tr>
<td>Cat – III</td>
<td>7</td>
</tr>
</tbody>
</table>

SPECIAL ACTIVITIES

- Anti-Malaria drive was observed during the entire month of June 2010.
- Awareness test conducted in St. Francis Assisi School and Prizes were distributed by Dr. R. N. Sahoo, Chief Medical Officer (I/C), UHC.
- Breast feeding week was observed from 1.8.10 to 7.8.10. Exhibits were displayed to give awareness about colostrums, Exclusive breast feeding.
- P.H.N. attended a State level symposium on Breast Feeding organized by Food and Nutrition Department, Puducherry.
- Every month third Tuesday, Urban Slum Health and Nutrition Day were arranged in two angawadi’s of our Service Area. All RCH related activities were conducted during this Programme.
- Meeting with I.C.D.S. workers were organized here at UHC, on fourth Friday of every month. Reports were collected and continuous education on various topics were discussed by Intern, Public Health Nurse or by the Medical Social Worker.
- Prehypertensive detection Camp was organized in our Service Area by Dr. Prasanth, (Biochemistry P.G.) and 52 persons were detected as prehypetensive.
- Dengue and Chickunguniya awareness programme was organized in NKC Higher Secondary School, Kurusukuppanam, on 14.10.10 in the leadership of Dr. R. N. Sahoo. A meeting on the same was organized on 15.10.10 at UHC.
- On 29.09.10 Valikappu Ceremony was celebrated at youth hostel for prime Antenatal mothers of Muthyalpet PHC Area and UHC Service area, in the presence of Dr. Vijaya Balakandan, Mission Director of NRHM, Puducherry.
- MDA Programme against Filariasis was done on 10.12.10 and 11.12.11.
- IPPI was organized on 23.01.11 and 27.02.11
- World TB day Programme was organized on 25.03.11
UHC Staff Training

- Immunization Training for PHN on 22.03.10 and 23.03.10
- Health Information Management System for PHN on 25.03.10
- I U C D & I D S P Training for field Staffs (2 days each) from 25.10.10 to 28.10.10

INVESTIGATIONS

1. HB 430
2. Tc/Dc 122
3. ESR 26
4. Mp/mf 116
5. Gr/RH 232
6. VDRL 82
7. HbsAg 62
8. Ac/pc 783
9. RBS 336
10. Urine Alb/Sugar 190

Total 2466
### JIPMER Rural Health Centre

**Ramanathapuram**

**Professor & In-charge**

K.C. Premarajan

**Assistant Professors**

Sonali Sarkar

Ganesh Kumar S

**Chief Medical Officer**

V. Sougumaran

<table>
<thead>
<tr>
<th>S.NO</th>
<th>SERVICE</th>
<th>APRIL 2010 TO MARCH 2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>I.</td>
<td>OPD Attendance</td>
<td>19,689</td>
</tr>
<tr>
<td></td>
<td>Average Per Month</td>
<td>1,641</td>
</tr>
<tr>
<td>II.</td>
<td>Emergencies</td>
<td>4,439</td>
</tr>
<tr>
<td></td>
<td>Average Per Month</td>
<td>370</td>
</tr>
<tr>
<td>III.</td>
<td>CHRONIC CASE DETAILS</td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. Total Number of Service area</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>b. No availing services of chronic diseases</td>
<td>243</td>
</tr>
<tr>
<td></td>
<td>c. Total illness Chronic Clinic</td>
<td>52</td>
</tr>
<tr>
<td></td>
<td>d. Total Patients treated</td>
<td>4,736</td>
</tr>
<tr>
<td>IV.</td>
<td>TUBERCULOSIS REPORT</td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. DOTS Cat – I</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>&quot; Cat – II</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>&quot; Cat – III</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>b. Non DOTS</td>
<td>NIL</td>
</tr>
<tr>
<td></td>
<td>TOTAL</td>
<td>20</td>
</tr>
<tr>
<td>V.</td>
<td>ANTENATAL SERVICES</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Clinic Conducted</td>
<td>52</td>
</tr>
<tr>
<td></td>
<td>Service area</td>
<td>147</td>
</tr>
<tr>
<td></td>
<td>Non Service area</td>
<td>65</td>
</tr>
</tbody>
</table>

JIPMER 2010-2011 / 118
VI. UNDER FIVE CLINIC

Clinic Conducted 48
Service area 106
Non Service area 51

VII. IMMUNISATION

a. Ante Natal
   Inj TT I dose 154
   Inj TT II dose 96
   Inj TT III dose 47

b. Under five Vaccination 13
   DPT + OPV I dose 7 + (hepatitis - 140)
   DPT + OPV II dose 171 + (hepatitis - 137)
   DPT + OPV III dose 147 + (hepatitis - 1147)
   DPT + OPV Booster 154
   Measles 165
   MMR 155

c. School Immunisations
   Inj DDT 131
   Inj TT10 160
   Inj TT15 112

VIII. JSY given Mother 35

IX. Village Health Nutrition day conducted every Month in 4 areas

X. TRAINING PROGRAMME ATTENDED BY RHC STAFF

A). NRHM Training Programme Attended By
   Mrs. Revathi Ramachandran, PHN
   Mrs. S. Amudha, PHN
   Mrs. J. Anbarasy, PHN (October-2010)

B). RNTCP Training Programme Attended By
   Mr. J. Krishnamurthy, S/N (February - 2011)
XI  PROGRAMME IN COLLABORATION WITH STATE AUTHORITIES
   A). IPPI - Phase I 23 January - 2011
      "  -Phase II 27 February - 2011
   B) MDA PROGRAMME - 12 Dec 2010
   C). WORLD TB DAY - 24 Feb 2011
   D). BREAST FEEDING WEEK - Aug - 2011
   E) MALARIA AWARENESS MONTH OBSERVED IN JUNE
   F). VHN DAY CONDUCTED IN ALL AREAS

XII  LAB REPORT FROM  APRIL-2010 TO MARCH - 2011 JIRHC

<table>
<thead>
<tr>
<th>SL.NO</th>
<th>INVESTIGATION</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>HAEMOGLOBIN</td>
<td>997</td>
</tr>
<tr>
<td>2.</td>
<td>TOTAL WBC COUNT</td>
<td>35</td>
</tr>
<tr>
<td>3.</td>
<td>DIFFERENTIAL COUNT</td>
<td>32</td>
</tr>
<tr>
<td>4.</td>
<td>ESR</td>
<td>08</td>
</tr>
<tr>
<td>5.</td>
<td>PS FOR MP</td>
<td>67</td>
</tr>
<tr>
<td>6.</td>
<td>BLOOD GROUPING</td>
<td>20</td>
</tr>
<tr>
<td>7.</td>
<td>VDRL</td>
<td>11</td>
</tr>
<tr>
<td>8.</td>
<td>BLOOD SUGAR</td>
<td>755</td>
</tr>
<tr>
<td>9.</td>
<td>PS FOR ANAEMIA</td>
<td>10</td>
</tr>
<tr>
<td>10.</td>
<td>URINE ALBUMIN</td>
<td>776</td>
</tr>
<tr>
<td>11.</td>
<td>URINE SUGAR</td>
<td>164</td>
</tr>
<tr>
<td>12.</td>
<td>URINE DEPOSITS</td>
<td>47</td>
</tr>
<tr>
<td>13.</td>
<td>SPUTUM FOR AFB</td>
<td>118</td>
</tr>
<tr>
<td>14.</td>
<td>PREGNANCY TESTS</td>
<td>70</td>
</tr>
<tr>
<td>15.</td>
<td>STOOL EXAMIN</td>
<td>06</td>
</tr>
<tr>
<td></td>
<td>GRANT TOTAL</td>
<td>3,116</td>
</tr>
</tbody>
</table>

JIPMER 2010-2011 / 120
7.4 Outreach Health Centre
Karaikal

Medical Superintendent
A.K. Das

Additional Medical Superintendent & Officer in -charge
Anita Rastogi

A Medical Team comprising of consultant, Resident doctors and paramedical staff etc., from the following departments have conducted the Outreach Health Services at Outreach Health Centre, Karaikal. Number of visit and total number of patients attended during the years 2010-2011 is mentioned against the departments.

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Name of the departments</th>
<th>No.of visit</th>
<th>Total No. of Patients attended during April- 2010 - March - 2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Cardiology and CTVS</td>
<td>2</td>
<td>Not given</td>
</tr>
<tr>
<td>2</td>
<td>Neurology and Neurosurgery</td>
<td>2</td>
<td>234</td>
</tr>
<tr>
<td>3</td>
<td>Nephrology and Urology</td>
<td>2</td>
<td>103</td>
</tr>
<tr>
<td>4</td>
<td>Orthopedics and Plastic Surgery</td>
<td>2</td>
<td>158</td>
</tr>
<tr>
<td>5</td>
<td>Medical and Surgical Gastroenterology</td>
<td>2</td>
<td>20</td>
</tr>
<tr>
<td>6</td>
<td>Endocrinology and clinical immunology and Diabetes</td>
<td>2</td>
<td>193</td>
</tr>
<tr>
<td>7</td>
<td>Medical Oncology, Surgical oncology and Radiotherapy</td>
<td>2</td>
<td>49</td>
</tr>
</tbody>
</table>

In general the Outreach Health Services is helpful to the community in Karaikal. Patients with specific kind of problems/complaints are treated and supplied with all the essential drugs. Patients are enthusiastic to know the various aspects of their complaints. Sugar estimations for the needy patients are being done with the glucometers. Patients who required for further investigations like X-rays, CT scan and other blood investigations are requested to come to JIPMER for further work up and treatment.
## 8. Departments

### 8.1 Anaesthesiology and Critical Care

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor and Head</td>
<td>A S Badhe</td>
</tr>
<tr>
<td>Professors</td>
<td>Hemavathy Balachander</td>
</tr>
<tr>
<td></td>
<td>Pankaj Kundra</td>
</tr>
<tr>
<td>Assistant professors</td>
<td>A Vasudevan</td>
</tr>
<tr>
<td></td>
<td>Satyen Parida</td>
</tr>
<tr>
<td></td>
<td>Arindam Choudhury</td>
</tr>
<tr>
<td></td>
<td>Sandeep Kumar Mishra</td>
</tr>
<tr>
<td></td>
<td>E Lenin Babu</td>
</tr>
<tr>
<td></td>
<td>Prasanna Bidkar Udupi</td>
</tr>
<tr>
<td></td>
<td>Anusha Cherian</td>
</tr>
<tr>
<td></td>
<td>Suman Lata Gupta</td>
</tr>
<tr>
<td></td>
<td>Satya Prakash MVS</td>
</tr>
<tr>
<td></td>
<td>Adinarayanan</td>
</tr>
</tbody>
</table>

**BACKGROUND INFORMATION OF THE DEPARTMENT:**

The Department of Anaesthesiology and Critical Care was one of the first departments to be started when the institute was established as “Ecole de medicine” in 1956 by the French. The entire department consisted of two consultants and four operation theaters providing all anaesthesia and emergency services. When the institute was named JIPMER, the department was commissioned on the II floor of the main hospital and provided service to 6 operation theaters with six consultants. With time the services have expanded to include Super specialties, Emergency services with three operating tables, Acute and Chronic Pain services, and exclusive state of the art Critical Care Unit (CCU) with round the clock service. The department also takes care of the Central oxygen supply unit (Two liquid oxygen plants). The department has sanctioned faculty of 22 consultants, 35 senior residents, 18 Post graduate students. Post graduation in Anaesthesiology was started with 2 MD and 4 DA seats in late 1970’s. Presently the annual intake is 6 postgraduate students have been sanctioned to increase to 10 from the next academic session (April-2011).

**EDUCATIONAL COURSES**

**Undergraduate**

The department continues with its undergraduate teaching program for final semester students, nursing and paramedics, interns training and teaching basics of airway management, anaesthesia and intensive care.

**Postgraduate**

Regular classes are conducted for postgraduates in the form of seminars, journals clubs, case presentations and tutorials. The classes are taken by the students and moderated by the faculty. Senior resident forum includes presentation and discussion related to recent developments and controversies in anaesthesia, intensive care and pain management.
**Short term training**

1. Paramedical Students undergoing OT technitian course are trained. 2. The Department also imparted short term training (one month) to two DNB students from IGGHPGI and one from MGMRCRI, Pondicherry in cardiovascular and thoracic anaesthesia. 3. Faculty for B.Sc. Nursing.

**CONTINUING MEDICAL EDUCATION PROGRAMS**

1. Department of Anesthesiology and critical care, JIPMER and ISA puducherry organized program “World Anaesthesia Day (Ether Day)” on 16th October 2011 at hotel Annamalai Int, Puducherry with Dr Mishra S K as organizing Secretary and Prof Badhe A S as Organizing Chairman with Abbott India and ISA Puducherry as sponsored. PG Quiz-History of Anaesthesia was conducted by Dr N Mahesh.

2. A Guest lectures on Monitoring Patient with Traumatic Brain Injury (TBI) by Professor GS Umamaheswara Rao (Professor & Head Dept. of Neuroanaesthesia and Intensive care, NIMHANS Bangalore) was organized by Department of Anesthesiology and critical care, JIPMER and ISA puducherry with Dr Mishra S K as organizing Secretary and Prof Badhe A S as Organizing Chairman.

3. A CME program on cardiopulmonary resuscitation (CPR): C-A-B (Compressions-Airway-Breathing); 2010 AHA Guidelines) on 12th Feb 2011 at hotel annamalai, puducherry, was organized by Department of Anesthesiology and critical care, JIPMER and ISA puducherry with Dr Mishra S K as organizing Secretary and Prof Badhe A S as Organizing Chairman. Dr Ramesh Junior resident, JIPMER was one of the speakers.

4. A Guest lecture on Neonatal Resuscitation: Anaesthesiological Competence by (Dr. Marraro Guiseppe Alfanso, Professor of Anesthesia and intensive care, University of Milan, Director - Continuous medical education, SIARED, Italy) was organized by Department of Anesthesiology and critical care, JIPMER and ISA puducherry on 19th march 2011 at Hotel Annamalai, Puducherry, with Dr Mishra S K as organizing Secretary and Prof Badhe A S as Organizing Chairman.

5. A CME on Advanced haemodynamic monitoring was organized by Department of Anesthesiology and critical care, JIPMER and ISA puducherry at Conference Hall, S. S. block, JIPMER on 20 march 2011, Puducherry with Dr Mishra S K as organizing Secretary and Prof Badhe A S as Organizing Chairman. Edward Life science India was the sponsored.

**CONFERENCES**

Dr. Badhe A S

1. BAPU (Balaji Anaesthesia Postgraduate Update) 2010 CME, Tirupathi 04 – 05th Sep 2010 as Guest lecture: New in Central Neuraxial Blockade

2. NAAC (National Assessment and Accreditation Council), Bangalore on 02 – 04th Nov 2010
Dr. Pankaj Kundra

1. SHOCK CME, KSHMA Mangalore 18th Apr 2010, Guest lecture: Ultrasound applications in shock, Moderator: Panel Discussion on case scenarios

2. KANISACON (Kanyakumari ISA state Conference) 2010, Tamil Nadu ISA State Conference, Kanyakumari 24 – 25th July 2010, Guest lecture: Transversus Abdominis Plane (TAP) Block, Judge: Free paper session

3. BAPU (Balaji Anaesthesia Postgraduate Update) 2010, Sri Venkateswara Institute of Medical Sciences, Tirupati 4 – 5th Sept. 2010, Guest lecture: Supraglottic airway devices


Dr. Gupta L S

1. Ultrasound guided nerve block RSACP Nov 2010 Bangalore

2. Ultrasound guided nerve block NYSORA Feb 2011 Bangalore

3. Madras medical college CME June 2010

4. Participated as delegate on World anaesthesia day on 16th Oct 2011 conducted by the Indian Society of Anaesthesiologists, Pondicherry State Branch with JIPMER on 20th March, 2011 at Hotel Annamalai Int.

5. Participated as delegate in the CME on Haemodynamic Monitoring conducted by the Indian Society of Anaesthesiologists, Pondicherry State Branch and JIPMER at JIPMER on 20th March, 2011
Dr. Elakkumanan L.B
1. Participated as delegate on World anaesthesia day on 16th Oct 2011 conducted by the Indian Society of Anaesthesiologists, Pondicherry State Branch with JIPMER on 20th March, 2011 at Hotel Annamalai Int.

2. Participated as delegate in the CME on Haemodynamic Monitoring conducted by the Indian Society of Anaesthesiologists, Pondicherry State Branch and JIPMER at JIPMER on 20th March, 2011.

Dr Mishra S K
1. Participated as delegate on World anaesthesia day on 16th Oct 2011 conducted by the Indian Society of Anaesthesiologists, Pondicherry State Branch with JIPMER on 20th March, 2011 at Hotel Annamalai Int.

2. Participated as delegate in the CME on Haemodynamic Monitoring conducted by the Indian Society of Anaesthesiologists, Pondicherry State Branch and JIPMER at JIPMER on 20th March, 2011.


Dr. Parida S
1. Delivered lecture as faculty on “UTI in the Critical Care Unit” in the CME on Complicated Urinary Tract and Abdominal Infections conducted by Dept. of Urology, JIPMER, Pondicherry at Puducherry on 5th December, 2010.

2. Participated as delegate in the CME on Haemodynamic Monitoring conducted by the Indian Society of Anaesthesiologists, Pondicherry State Branch and JIPMER at JIPMER on 20th March, 2011.


Dr Prasanna Bidkar

2. CAUSE 2010 – Ultrasound guided nerve blocks, held at Columbia Asia Hospital, Bangalore.

3. Participated as delegate on World anaesthesia day on 16th Oct 2011 conducted by the Indian Society of Anaesthesiologists, Pondicherry State Branch with JIPMER on 20th March, 2011 at Hotel Annamalai Int.

4. Participated as delegate in the CME on Haemodynamic Monitoring conducted by the Indian Society of Anaesthesiologists, Pondicherry State Branch and JIPMER at JIPMER on 20th March, 2011.

JIPMER 2010-2011 / 125
Dr Vasudevan A

1. Participated as delegate in the CME on Haemodynamic Monitoring conducted by the Indian Society of Anaesthesiologists, Pondicherry State Branch with JIPMER on 20th March, 2011 at S S Block, JIPMER.

2. Participated as delegate on World anaesthesia day on 16th Oct 2011 conducted by the Indian Society of Anaesthesiologists, Pondicherry State Branch with JIPMER on 20th March, 2011 at Hotel Annamalai Int.

RESEARCH

Departmental project

Completed

- Vimal Raj P, Ashok S Badhe, A. Vasudevan Comparison of automated jet ventilation with assisted spontaneous ventilation in rigid bronchoscopy for foreign body in children.
- A comparison of Propofol versus Sevoflurane for Laryngeal Mask Airway insertion in Paediatric Surgery patients.
- Association of MDR-1 Genotype Polymorphism with Morphine requirement for patient controlled Analgesia after total abdominal Hysterectomy.
- S. Stephan, Kundra P. 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.
- Comparative evaluation of Propofol - Ketamine and Propofol – Fentanyl for LMA insertion.
- Vinoth K. Kundra P. Assessment of vocal cord function after thyroid surgery.
- Jaya V, Kundra P. 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.
- Comparison of automated jet ventilation with assisted spontaneous ventilation in rigid bronchoscopy for tracheobronchial foreign body in children.
- Evaluation of clonidine as additive to bupivacaine for central neuraxial blockade.
- Comparison of single dose diclofenac sodium vs paracetamol suppository for pain relief following inguinal surgery in children.
- Arun. S., Badhe A S, Meena D S Effect of nitrous oxide on endotracheal tube intracuff pressure.
Ongoing

- Ramesh V, Kundra P, “interpleural vs paravertebral block for postoperative pain relief in patient undergoing breast cancer surgeries”
- Priya. G. Hemavathy. B.Lenin Babu, Evaluation of nebulized lignocaine versus intravenous lignocain for attenuation of pressor response to laryngoscopy and intubation
- Niyaz C. Ashraf, Badhe A.S. Parida. S., Pre-operative oral Gabapentin, intravenous fetanyl and their combination in attenuation of the haemodynamic response to laryngoscopy and endotracheal intubation
- Varsha. D., Badhe A S, Vasudevan A, Evaluation of Truview scope and Flexitip blade for tracheal intubation with manual in line stabilization of head and neck
- Yamini S, Kundra P, Sarath Chandra. S. Cardio respiratory effects of balancing PEEP to intra-abdominal pressures during laparoscopic cholecystectomy
- Saisaran, Badhe AS, Mishra SK, Vasudevan A, Comparison of I-Gel versus ProSeal LMA for controlled ventilation in Paediatric Population

Publications

A. Journals


B. Books chapter


PATIENT CARE SERVICES

A. Clinical

22 operation theaters provide Clinical anaesthetizing on an average of 15,000 patients annually and providing Critical Care 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. Extending pain relief beyond the confines of the operating room which led us to start Acute Pain Services, Chronic pain services (include celiac plexus, Stellate ganglion, lumbar sympathetic block) are provided for specially referred patients. Anaesthesia outside the operating theatre including 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

- Dr Mishra S K was appointed as secretary of ISA Pondicherry
- Dr Badhe A S was appointed as president of ISA Pondicherry
- Dr. Ellakumanan L B was appointed as secretary of ISA Pondicherry
- Dr Vasudevan A was appointed as executive member of ISA Pondicherry

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

- Dr. Badhe A S was the chairman of the selection committee for Assistant Professors and Operating Theatre Staff.
- Dr. Badhe A S is a member of purchasing of instrument and equipment (PMSSY) for the setup of AIIMS like institute in different part of the India.
- Dr Badhe A S, 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 with Dr. Hemavathy B and Dr Mishra S K in charge.
- Dr Hemavathy B and Dr. Ellakumanan L B taking care of topic for seminar and journal for postgraduates and senior resident.
- Dr Badhe A S, Dr Vasudevan A, Dr M.V.S. Satyprakash taking care of duty roster of resident and faculty.
• Dr Prasanna Bidkar: Active member of H1N1 COMMITTEE member as a representative of department of Anesthesiology and critical care, JIPMER.
• Dr. Kundra P and Dr. Ellakumanan L B Officer in-charge O.T. Personnel.
• Dr. Kundra P: Officer-in-charge SSB OTs.
• Dr. Kundra P: Scientific Committee Chairman of All India Difficult Airway Association.
• Dr. Kundra P: Section Editor: Indian Journal of Anaesthesia.
• Dr. Kundra P: UPSC expert for selection of Assistant Professor.
• Dr. Kundra P: Examiner for National Board of Examinations, Rajiv Gandhi University, SVIMS Tirupathi and PGI Chandigarh.
• Dr. Kundra P: Inspector for MCI (M.D. Anaesthesiology) and DNB (Anaesthesiology).
• Dr Mishra S K taking care of department monthly statistics and preparation of annual report of department.

SIGNIFICANT EVENTS IN THE DEPARTMENT

• Department of Anaesthesiology and Critical Care, JIPMER is the Office of the ISA, Puducherry for the year 2010-11.
• Department website was designed and launched with the effort of Dr. Vasudevan A.
BACKGROUND INFORMATION OF THE DEPARTMENT

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

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

PhD candidates and Post Graduate students of Anatomy and other specialities are actively involved in collaborating themselves with the abovesaid for interdepartmental collaborative research projects/schemes.

EDUCATIONAL COURSES

A. Undergraduate Courses
   M.B.B.S
   B.Sc (Nursing)
   B.Sc (MLT)
   B.Sc (Allied Medical Sciences)
   Operation Theatre Technology
   Dialysin Technology
   Perfusion Technology
   Radiation Technology
   Neuro Technology

JIPMER 2010-2011 / 131
B. Postgraduate Courses
   M.D (Anatomy)
   M.Sc (Medical Biochemistry)

C. Research Courses
   PhD (Anatomy)

D. Other Courses
   Medical Record Technicians Course (MRT)
   Medical Record Officer’s Course (MRO)
   Emergency Medical Technician Certificates Course (EMTC)

CONTINUING MEDICAL EDUCATION PROGRAMS

Dr. Suma HY
   • Attended 61st National Course on Educational Science for Teachers of Health Professionals, JIPMER, Pondicherry, September 15th to 25th-2010.

Dr. Sarasu
   • Attended National Symposium in Research Methodology, Biomedical Ethics and Medical Writing (sponsored by MCI & ICMR) held in September 2010, organised by Sri Manakula Vinayagar Medical College and Hospital, Pondicherry.

CONFERENCES

Dr. K. Ramachandra Rao

JIPMER 2010-2011 / 132
• DNA damage in Perinatal asphyxia. VIII Annual convention of Tamil Nadu. Neonatology Forum on 19-21 November 2010 – JIPMER, Pondicherry.

Dr. Parkash Chand
• Evaluation of DNA damage by Comet assay in cases with Primary Amenorrhea – Tamil Nadu State Conference - KANCON 2010. Annual Conference of Association of Anatomists of Tamilnadu - Karpaga Vinayaga Institute of Medical Sciences & Research, Madurandhakam - 25th & 26th - September 2010

Dr. Suma HY
• Presented research paper titled “Coronary venous anatomy and its clinical relevance”- Tamilnadu State Conference-KANCON-2010, Karpaga Vinayagar Institute of Medical & Dental Sciences, Madurandhakam, September 25th & 26th 2010

Dr. Rashmoni Jana
• Life Member of Anatomical Society of India, Indian Academy of neuroscience, Association of Anatomist, Tamil Nadu.
• Attended National Symposium in Research Methodology, Biomedical Ethics and Medical Writing (sponcered by MCI & ICMR) held in September 2010, organised by Sri Manakula Vinayagar Medical College and Hospital, Pondicherry.

Dr. Sarasu J
• Acquired Postgraduate Diploma in medical law and ethics by National Law School of India University, Bangalore.

JIPMER 2010-2011 / 133
RESEARCH PROJECTS

A. Funded Projects

On-going

- Detection of fetal DNA in maternal plasma as a prenatal diagnostic technique.
  Investigator: Dr. Sarasu J (Intramural Fund: Rs.1.5 lakhs)
  Co-Investigator: Dr. K. Ramachandra Rao

- Effect of chronic stress on morphology of Interstitial cells of Cajal, nitrergic and cholinergic neurons in Enteric Nervous System of rat colon.
  Investigator: Dr. Rashmoni Jana
  Co-Investigator: Dr. K. Ramachandra Rao

- Assessment of the frequency of sister chromatid exchange and its association with clinical features in patients with Down syndrome
  Investigator: Dr. Suma H Y

- Association between genetic polymorphism and phenotypic variability in cases with Trisomy 21 – A Molecular approach.
  Investigator: Dr. K. Ramachandra Rao

B. Departmental Projects

Completed

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

Ongoing

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

- DSCR gene – Its Polymorphism, implications and its clinical profile
  Investigator: Mr. Nandha Kumar S
  Supervisor: Dr. Ramachandra Rao

- Evaluation of oxidative stress in cases with down syndrome
  Investigator: Dr. Mehar Sulthana
  Supervisor: Dr. Ramachandra Rao

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

- Determination of chromosomal aberrations and DNA damage by karyotyping and comet assay in cases with Primary Amenorrhea
  Investigator: Dr. Sarah
  Supervisor: Dr. Parkash Chand
• Evaluation of DNA damage in type I diabetic patients by sister chromatid exchange
  Investigator: Dr. Hariharan
  Supervisor: Dr. Ramachandra Rao

• Assessment of DNA damage by COMET assay in neonatal jaundice/ pre and post phototherapy
  Investigator: Dr. Anitha Nancy
  Supervisor: Dr. Parkash Chand

• Assessment of DNA damage by COMET assay in cases with neural tube defects and to find out its association with plasma folic acid and homocysteine levels
  Investigator: Dr. Aravinthan
  Supervisor: Dr. Parkash Chand

C. Collaborative Projects

Ongoing

• Assessment of Radiation induced DNA damage in peripheral lymphocytes of oral cavity cancer patients using comet assay.
  Investigator: Dr. Aravind Kumar, Dept of Radiotherapy
  Co-Guide: Dr. Ramachandra Rao

• Effect of hypothermia on DNA damage in Perinatal Asphyxia.
  Investigator: Dr. Bahubali Gane, Dept of Pediatrics.
  Co-Guide: Dr. Ramachandra Rao

PUBLICATIONS

A. Journals


JIPMER 2010-2011 / 135


AWARDS, HONORS AND OTHER PERSONAL ACHIEVEMENTS

- Eight research papers were published in indexed journals in the field of medical genetics.
- Dr. Mehar Sulthana, Final Year Resident in the Department won the Best paper award in tamil nadu state conference - KANCON held at Karpaga Vinayaga Institute of Medical Sciences & Research on September 2010 for research paper titled ‘Erythrocytic Catalase Activity in Cases with Down Syndrome’.
- Dr. Sarah, Final Year Resident in the Department won the Best paper award in tamil nadu state conference - KANCON held at Karpaga Vinayaga Institute of Medical Sciences & Research on September 2010 for research paper titled ‘Evaluation of DNA damage by Comet assay in cases with Primary Amenorrhea’.

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. Rashmoni Jana
- Officer In-charge of Histology section
- Teacher In-charge for I M.B.B.S (repeaters) – Batch 2009-10
- Moderator for Emergency Medical technician course (EMTC), B.Sc (MLT) and Allied Medical Sciences.

Dr. Sarasu
- Administration: Joint Secretary of JIPMER Faculty Association
- Officer In-Charge of Hunter theatre
- Officer In-charge of Gross museum
- Officer In-charge of Embryology Museum
- Faculty In-charge of B.Sc.(MLT), B.Sc. (Allied Medical Sciences), MBBS (Repeats) - Jan-May 2010
Educational:

- Involved in Formative & Summative assessment of MBBS, B.Sc. MLT, Allied Medical Sciences
- Member involved in Planning & designing – New Course curriculum of Dialysis Technology, Perfusion Technology, Radiation Therapy, Operation Theatre Technology
- Member in Organizing Committee of Institute Day 2010.

SIGNIFICANT EVENTS IN DEPARTMENT

1. Cytogenetic laboratory has been upgraded with the following equipments for patient care, teaching and research purpose.
   - $\text{CO}_2$ Incubator, Eppendorff, UK
   - Direct Q3 water purification system, Millipore, France.
   - Tube Rotor, Tarson.
   - Rockymax, Tarson
   - Spinix, Tarson.
8.3 Biochemistry

<table>
<thead>
<tr>
<th>Professor &amp; Head</th>
<th>P.H. Ananthanarayanan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor</td>
<td>M.G. Sridhar</td>
</tr>
<tr>
<td>Assistant Professors</td>
<td>Zachariah Bobby</td>
</tr>
<tr>
<td></td>
<td>R. Soundravally</td>
</tr>
<tr>
<td></td>
<td>Medha.R</td>
</tr>
<tr>
<td>Lecturer</td>
<td>G.P. Senthil Kumar</td>
</tr>
</tbody>
</table>

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); B.Sc. [MLT] (1975); MD [Biochemistry] (1965); M.Sc. [Medical Biochemistry] (1965); and Ph.D. (1964). Investigations in the clinical biochemistry laboratory were started in 1965. Several special investigations were done 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

The department continues with its undergraduate teaching programmes which include MBBS (two semesters), B.Sc. (MLT) (two semesters), B.Sc. (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

These include M.Sc. (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 made departmental presentation regarding review of their tenure. The department has 1 Senior Resident and 7 PhD students.

JIPMER 2010-2011 / 138
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 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.
- Molecular effects of Costus igneus extract and vitamin B complex on insulin resistance and its complications in isolated and co-existing Type 2 diabetes mellitus and Hypothyroidism – Ms. Ashwini S.

Dr. Medha R.

Following candidates are carrying out their PhD programme under Dr. Medha R.:

- Immunogenetics of psoriasis vulgaris in South Indian population- Ms. S. Indhumathi

CONTINUING MEDICAL EDUCATION PROGRAMS

Dr. P.H. Ananthanarayanan:

- Participated in the one day seminar on “Capacity Building and Awareness Generation” of RTI Act, 2005 on 16th July 2010 in the Institute of Secretariat Training & Management (Department of Personnel and Training), Ministry of Personnel Public Grievances and Pensions, Administrative Block, JNU Campus (Old), New Delhi.
- Delivered an invited talk on “New Vistas in Life Sciences” at Acharya Arts and Science College, Puducherry on 29th October 2010.
- Delivered an invited talk at Bangalore to mark the World Plumbing Day planned by World Health Organization and World Plumbing Council on 10th March, 2011.
- Participated in the Workshop for Medical Council of India Assessors, conducted at the MCI Headquarters, Dwarka, New Delhi, November 29, 2010.
- Attended the Technical Workshop for Technical / Nodal officers on National Knowledge Network (NKN) on 25th March, 2011 at the Main Hall Conference Centre, Delhi University, New Delhi.
Dr. M. G. Sridhar

- Participated in the Workshop for Medical Council of India Assessors, conducted at the MCI Headquarters, Dwarka, New Delhi, November 29, 2010

CONFERENCES

Dr. P.H. Ananthanarayanan

- Participated in the 18th National Conference of the Association of Medical Biochemists of India (AMBICON),Hyderabad, November 12-14, 2010.

Dr. M. G. Sridhar

- Delivered an invited talk on Understanding Epigenetics—the way forward at the National Conference on Basic Medical Sciences (VINBasix 2010), Salem, Tamil Nadu; Apr 9-10, 2010.
- “Non-protein nitrogenous substances in cord blood and urine as predictor of neurodevelopmental outcome in perinatal asphyxia” (poster presentation) presented at NEOCON 2010 at JIPMER, Puducherry, India; November 19-21, 2010.
- “Non-protein nitrogenous substances in cord blood and urine of healthy and asphyxiated babies” (poster presentation) presented at NEOCON 2010 at JIPMER, Puducherry, India; November 19-21, 2010.
- “Non-protein nitrogenous substances in cord blood and urine of newborns in relation to gestational age” (poster presentation) presented at NEOCON 2010 at JIPMER, Puducherry, India; November 19-21, 2010.
- “Periprocedural fibrinogen level and Coronary stent outcome” (poster presentation) presented at the 37th National Conference of Association of Clinical Biochemists of India at Mumbai, India; December 13-15, 2010.
- “Protein carbonyl levels are an indicator of disease activity in patients with systemic lupus erythematosus” (poster presentation) presented at the International Conference on Recent Trends in Therapeutic Advancement of Free Radical Science and 10th Annual Conference of Society for Free Radical Research-India (SFRR-India), Chennai, January 9-11, 2011

Dr. Zachariah Bobby

- Participated in the National Seminar on Computational Biology at Pondicherry University Centre of Excellence in Bioinformatics, Pondicherry, India; September 15-17, 2010.
- “Increased urinary markers of lipid peroxidation and inflammatory response in preeclampsia” (poster presentation) presented at the 18th National Conference of the Association of Medical Biochemists of India (AMBICON), Hyderabad, November 12-14, 2010.
• “Evaluation of Homocysteine, Vitamin B12 and Folate in Prehypertension” (poster) presented at the 37th National Conference of Association of Clinical Biochemists of India at Mumbai, India; December 13-15, 2010

• “Altered oxidant-antioxidant status, insulin resistance and elevated antinuclear antibody levels in perimenopausal women with prehypertension” (oral presentation) presented at the International Conference on Recent Trends in Therapeutic Advancement of Free Radical Science and 10th Annual Conference of Society for Free Radical Research-India (SFRR-India), Chennai, on 9th January 2011

• “Preventive effect of Amla (Emblica officinalis) extract against fructose induced glucose intolerance and redox imbalance in ovariectomised rats” (oral presentation) presented at International Conference on Recent Trends in Therapeutic Advancement of Free Radical Science and 10th Annual Conference of Society for Free Radical Research-India (SFRR-India), Chennai, India; January 9-11, 2011

• “Female sex hormone imbalance and its associated biochemical changes in women of reproductive age group with primary overt hypothyroidism” (poster) presented at International Conference on Recent Trends in Therapeutic Advancement of Free Radical Science and 10th Annual Conference of Society for Free Radical Research-India (SFRR-India), Chennai, India; January 9-11, 2011.

Dr. R. Soundravally

• Participated in the National Seminar on Computational Biology at Pondicherry University Centre of Excellence in Bioinformatics, Pondicherry, India; September 15-17, 2010.

• Participated in the Seminar on “Efficient Method Development” organized by Inkarp Instruments Pvt. Ltd, Hyderabad & Waters India, Bangalore at Hotel Anandha Inn, Pondicherry on 25th November 2010.

• “Higher levels of homocysteine and atherogenic lipid markers in young women with PCOS are independent of thyroid status” (Poster) presented at the 37th National Conference of Association of Clinical Biochemists of India at Mumbai, India; December 13-15, 2010

• “Association between proinflammatory cytokines and lipid peroxidation in patients with severe dengue disease around defervescence: Preliminary evidence” (Oral presentation) presented at International Conference on Recent Trends in Therapeutic Advancement of Free Radical Science and 10th Annual Conference of Society for Free Radical Research-India (SFRR-India), Chennai, India; January 9-11, 2011

• “Diagnostic significance of serum creatine kinase and its isoforms in Tubal Ectopic Pregnancy” (Poster) presented at 26th AICC-RCOG conference Chennai, India; March 4-6, 2011.

• Participated in the 1st Short Course in Basic Epidemiology, Dept. of Community Medicine, JIPMER, Puducherry, India; March 7-12, 2011
Dr. Medha R.

- Participated in the 61st National Course on Educational Science for Health Professionals, Dept. of Medical Education, JIPMER, Puducherry, India; September 15-25, 2010.
- “Comparison of various lipid ratios for CAD risk assessment in North Indian patients with acute myocardial infarction” (Oral presentation) at the 23rd Annual Conference of Indian Society for Atherosclerosis Research and International Symposium/CME on Atherosclerosis, New Delhi on 13th & 14th November 2010
- Participated in the Seminar on “Effective Method Development” organized by Inkarp Instruments, Hyderabad & Waters India, Bangalore at Hotel Ananda Inn, Pondicherry on 25th November 2010.
- “Study of serum iron, copper, ceruloplasmin and lipid peroxidation in non-diabetic normotensive obese and non-obese South Indian male subjects” (Oral presentation) at the International Conference on Recent Trends in Therapeutic Advancement of Free Radical Science and 10th Annual Conference of Society for Free Radical Research-India (SFRR-India), Chennai, on 9th January 2011.
- Participated in the 1st Short Course in Basic Epidemiology, Dept. of Community Medicine, JIPMER, Puducherry, India; March 7-12, 2011

Dr. G. P. Senthil Kumar

- Participated in the National Conference on “Advancing frontiers in medical science” organised by Sri Manakula Vinayagar Medical College and Hospital, Puducherry on 22nd August 2010.
- Participated in the National Conference on “Research Methodology, Biomedical Ethics and medical writing” organised by Sri Manakula Vinayagar Medical College and Hospital, Puducherry on 25th September 2010.

Postgraduate/PhD students

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

- CME Program on “Advancing Frontiers in Medical Sciences” at Sri Manakkula Vinayagar Medical College and Hospital, Puducherry on 22nd August 2010.
- CME on “Approach to management of thyroid disorders” by Endocrinology Department, JIPMER on 18th April 2010.
- Seventh National workshop on Basic Techniques in Molecular Biology and Bioinformatics in Pharmacogenomics (Sponsored by ICMR). August 16th to 21st 2010.
- National Seminar on Computational Biology from September 15th to 17th 2010.
- CME on “Pediatric and Adolescent Endocrinology” on 31st October 2010.


International Conference on Recent Trends in Therapeutic Advancement of Free Radical Science and 10th Annual Conference of Society for Free Radical Research-India (SFRR-India), Chennai, India; January 9-11, 2011

Indo French Radical Intervention Course 2011 from February 29th to March 2nd 2011 at JIPMER.

RESEARCH PROJECTS

A. Funded Projects

Completed

Dr. Zachariah Bobby

- Effect of ovariectomy on fructose mediated oxidative stress and changes in insulin signaling in young and old female rats. Funded by JIPMER for 2 years (2009 – 2011). Funds: Rs.2.0 lakh
- Effect of high dose water soluble vitamin supplementation on insulin resistance, oxidative stress and homocysteine in prehypertension: A randomized controlled study. Funded by JIPMER for 2 years (2009 – 2011). Funds: Rs.90,000
- Effect of Calorie Restriction on the subsequent sucrose induced glucose intolerance and oxidative stress in male Wistar rats. Funded by JIPMER (2010 – 2011). Funds: Rs.25,000
- Effect of High Glycemic load diet on the subsequent sucrose induced glucose intolerance and oxidative stress in male Wistar rats. Funded by JIPMER (2010 – 2011). Funds: Rs.25,000

Ongoing

Dr. P. H. Ananthanarayanan

- Total Sialic acid, Lipid Associated Sialic acid in patients with Ischemic and Non Ischemic Heart Failure. Funded by JIPMER (2010-2011). Funds: Rs.25,000.

Dr. M. G. Sridhar

- Comparison of serum Cystatin C and Creatinine with Tc99m DTPA as indices of renal glomerular function in South Indian population. Funded by JIPMER (2010-2011). Funds: Rs.25,000.
- Effects of turmeric extracts and Vitamin A on heat induced lipid peroxidation of edible oils. Funded by JIPMER (2010-2011). Funds: Rs.25,000.
- Role of a composite panel of serum tumour markers in the diagnosis of Endometrial carcinoma. Funded by JIPMER (2010-2012). Funds: Rs.85,000.
- Molecular effects of curcumin on Insulin Resistance and its associated complications in Type 2 Diabetes and Obesity. Funded by JIPMER (2010-2012). Funds: Rs.1,00,000.
Dr. Zachariah Bobby


Dr. R. Soundravally

- Evaluation of blood levels of vitamin $B_6$, Brain Derived Neurotrophic Factor (BDNF) and Serotonin during Postpartum Maternal Depression. Funded by JIPMER (2010 – 2011). Funds: Rs.25,000
- Relationship between hormonal fluctuations and maternal depression during postpartum. Funded by JIPMER (2010 – 2011). Funds: Rs.25,000
- Circulating levels of Interleukin-17 and nitric oxide in patients with dengue infection and their association with platelet function. Funded by JIPMER (2010 – 2012). Funds: Rs.2,00,000.
- Evaluation of circulating fibrinogen and total sialic acid as markers of abstinence in alcohol dependent males. Funded by ICMR-STS for 2 months (2011). Funds: 10,000/-

Dr. Medha R.

- Evaluation of platelet activation based on platelet indices, soluble P-selectin and platelet oxidative stress in chronic urticaria. Funded by JIPMER (2010-11). Funds: Rs.1,00,000
- Inflammatory response and oxidative stress in patients with rheumatic mitral stenosis with left atrial thrombus. Funded by JIPMER (2010-11). Funds: Rs.25,000
- Pro-coagulant state and platelet aggregability in patients with rheumatic mitral stenosis with left atrial thrombus. Funded by JIPMER 2010-11. Funds: Rs.25,000

Dr. G. P. Senthil Kumar

- Evaluation of serum Activin-B, IL-6 and IL-8 as possible diagnostic markers for early ectopic pregnancy. Funded by JIPMER (2010-12). Funds: Rs.1,49,000.

B. Departmental Projects

Completed

Dr. P. H. Ananthanarayanan

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

Dr. M. G. Sridhar

- Impact of coronary stenting on platelet aggregation, oxidative stress, inflammatory response, insulin resistance and cardiac ischemic markers
- Differential effects of calcium channel blockers and ACE inhibitors on platelet aggregation and atherogenic factors in hypertensive patients.
- Evaluation of homocysteine, inflammatory response, oxidative stress parameters and lipid profile in male non-diabetic acute myocardial infarction patients.

JIPMER 2010-2011 / 144
Dr. Zachariah Bobby

- Effect of calorie restriction on the subsequent sucrose induced glucose intolerance and oxidative stress in male wistar rats
- Effect of high glycemic load in the diet on subsequent sucrose induced glucose intolerance and oxidative stress in male wistar rats

Dr. R. Soundravally

- 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.
- Assessment of multiple serum biomarkers in the early prediction of tubal ectopic pregnancy.

Dr. Medha R.

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

Ongoing

Dr. P. H. Anantharayanan

- A study of thyroid profile in children with nephrotic syndrome
- A study on the effects of vitamin D and calcium supplementation in side effects profile in patients of breast cancer treated with letrozole
- Immunogenetics of psoriasis vulgaris in South Indian population
- Sensitivity and Specificity of CA-125 in delineating Benign and Malignant Ovarian Tumors.
- Evaluation of platelet activation based on platelet indices, soluble P-selectin and platelet oxidative stress in chronic urticaria.
- Biomarkers of atherothrombosis, inflammation, endothelial dysfunction, insulin resistance, oxidative stress and associated cardiovascular risk in patients with psoriasis in South Indian population

Dr. M. G. Sridhar

- Atherogenic risk markers in male type 2 diabetes mellitus patients with acute coronary syndrome
- Comparison of serum Cystatin C and Creatinine with Tc99m DTPA as indices of renal glomerular function in South Indian population.
- Effects of turmeric extracts and Vitamin A on heat induced lipid peroxidation of edible oils.

JIPMER 2010-2011 / 145
• Role of a composite panel of serum tumour markers in the diagnosis of Endometrial carcinoma.
• Molecular effects of curcumin on Insulin Resistance and its associated complications in Type 2 Diabetes and Obesity.
• Molecular basis of the effects of *Garcinia cambogia* extracts on obesity and insulin sensitivity in diet-induced obese and insulin resistant animal models

**Dr. Zachariah Bobby**

• Molecular basis of cardiovascular complications and metabolic syndrome in post menopausal condition: modulation by Amla (*Emblica officinalis*)
• Effect of high dose water soluble vitamin supplementation on insulin resistance, oxidative stress and homocysteine in pre-hypertension: a randomized control study
• Atherosclerotic risk factors among first degree relative of ischemic stroke patients.
• Molecular basis of insulin resistance and its complications in High fat fed ovariectomised female wistar rats: The effects of treatment
• Molecular effects of *Costus igneus* extract and vitamin B complex on insulin resistance and its complications in isolated and co-existing Type 2 diabetes mellitus and Hypothyroidism.

**Dr. R. Soundravally**

• Evaluation of blood levels of vitamin B$_6$, Brain Derived Neurotrophic Factor (BDNF) and Serotonin during Postpartum Maternal Depression.
• Relationship between hormonal fluctuations and maternal depression during postpartum.
• Circulating levels of Interleukin -17 and nitric oxide in patients with dengue infection and their association with platelet function.
• Evaluation of serum Activin-B, IL-6 and IL-8 as possible diagnostic markers for early ectopic pregnancy.
• Sensitivity and Specificity of CA-125 in delineating Benign and Malignant Ovarian Tumors.
• Evaluation of circulating fibrinogen and total sialic acid as markers of abstinence in alcohol dependent males.

**Dr. Medha R.**

• Evaluation of platelet activation based on platelet indices, soluble P-selectin and platelet oxidative stress in chronic urticaria.
• Immunogenetics of psoriasis vulgaris in South Indian population.
• Inflammatory response and oxidative stress in patients with rheumatic mitral stenosis with left atrial thrombus.
• Pro-coagulant state and plautelet aggregability in patients with rheumatic mitral stenosis with left atrial thrombus.
• Biomarkers of atherothrombosis, inflammation, endothelial dysfunction, insulin resistance, oxidative stress and associated cardiovascular risk in patients with psoriasis in South Indian population.

Dr. G. P. Senthil Kumar
• Evaluation of serum Activin-B, IL-6 and IL-8 as possible diagnostic markers for early ectopic pregnancy.

C. Collaborative Projects
Completed
Dr. Zachariah Bobby
• Cleistanthus collinus poisoning-cause of hypokalemia and antioxidant status-an explorative study (with Dept. of Medicine, JIPMER).

Dr. R. Soundravally
• Acute kidney injury: etiology and outcome in children hospitalized at a referral centre (with Dept. of Pediatrics, JIPMER).

Ongoing
Dr. P. H. Ananthanarayanan
• Assessment of the role of sympathetic markers in the prediction and prevention of essential hypertension (with Dept. of Physiology, JIPMER).
• Effect of yoga therapy on autonomic function and biochemical profile of patients of essential hypertension (with Dept. of Physiology, JIPMER).
• Effect of yoga therapy on patients of type 2 diabetes mellitus with neuropathy (with Dept. of Physiology, JIPMER).
• 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).
• Gender difference in the role of venteromedial 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).
• 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).
• Incidence of diabetes mellitus in rural Pondicherry (with Dept. of Preventive and Social Medicine, JIPMER).
• Comparison of standard and low pressure pneumoperitoneum in laparoscopic cholecystectomy-a prospective double blinded randomized control study (with Dept. of Surgery, JIPMER).

• Characterization of various markers of oxidative and cellular stress response, antioxidant status and their response to oral minipulse therapy in non-segmental vitiligo (with Dept. of Dermatology, JIPMER).

• Evaluation of the degree of platelet activity based on platelet indices and platelet activation markers: soluble P-selectin in psoriasis (with Dept. of Dermatology, JIPMER).

• Study of aqueous IL-6 and VEGF levels in diabetic retinopathy (with Dept. of Ophthalmology, JIPMER).

• Iris fluorescence angiography and correlation with aqueous levels of homocysteine and VEGF. (With Dept. of Ophthalmology, JIPMER).

• Early versus late enteral prophylactic iron supplementation in very low birth weight infants: a randomized controlled trial (with Dept. of Pediatrics, JIPMER).

Dr. M. G. Sridhar

• Study of insulin resistance and metabolic abnormalities in adolescence and young women with polycystic ovarian syndrome (with Dept. of Obstetrics & Gynaecology, JIPMER).

• Insulin resistance and thyroid profile in women with spontaneous abortions (with Dept. of Obstetrics & Gynaecology, JIPMER).

• Non-protein nitrogenous substances in cord blood and urine of healthy and asphyxiated babies (with Dept. of Pediatrics, JIPMER).

• Serum homocysteine levels in late first trimester of pregnancy: correlation with maternal and fetal outcome (with Dept. of Obstetrics & Gynaecology, JIPMER).

• Evaluation of oxidative stress in cases of Down’s syndrome (with Depts. of Anatomy & Pediatrics, JIPMER).

• Effect of CYP2C19 and MDR1 genetic polymorphisms on anti-platelet effects of clopidogrel in clinical settings (with Dept. of Pharmacology, JIPMER).

• Effect of CYP3A5 and P2Y12 genetic polymorphisms on platelet aggregation in patients on treatment with clopidogrel (with Dept. of Pharmacology, JIPMER).

• Effect of doubling the dose of clopidogrel in non-responders with 75 mg od dose and its relation to CYP2C19 genetic polymorphisms in South Indian population (with Dept. of Pharmacology, JIPMER).

• Effect of DNA damage in type 1 diabetic patients by sister chromatid exchange (with Dept. of Anatomy, JIPMER).

• Assessment of DNA damage by COMET assay in neonatal jaundice- pre and post therapy (with Dept. of Anatomy, JIPMER).
• Assessment of DNA damage by COMET assay in cases with neural tube defects and to find out its association with the levels of plasma folic acid and homocysteine (with Dept. of Anatomy, JIPMER).

• Prevalence of cardiovascular morbidity and risk factors among adults more than 30 years in rural Puducherry (with Dept. of Community Medicine, JIPMER).

Dr. Zachariah Bobby

• 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).

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

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

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

• Oxidative stress and antioxidant status in neonates born to pre-eclamptic mothers and their effect on early neonatal outcome (with Dept. of Pediatrics, JIPMER).

• Effect of nebivolol on endothelial dysfunction in coronary artery disease patients-an open label, randomized controlled clinical trial (with Dept. of Pharmacology, JIPMER).

• Oxidative stress parameters in neonatal asphyxia - Effect of thermal cooling (with Dept. of Pediatrics, JIPMER).

Dr. R. Soundravally

• Iris fluorescence angiography and correlation with aqueous levels of homocysteine and VEGF. (With Dept. of Ophthalmology, JIPMER).

Dr. Medha R.

• Characterization of various markers of oxidative and cellular stress response, antioxidant status and their response to oral minipulse therapy in non-segmental vitiligo (with Dept. of Dermatology, JIPMER).

• Evaluation of the degree of platelet activity based on platelet indices and platelet activation markers: soluble P-selectin in psoriasis (with Dept. of Dermatology, JIPMER).

• Study of aqueous IL-6 and VEGF levels in diabetic retinopathy (with Dept. of Ophthalmology, JIPMER).

• Early versus late enteral prophylactic iron supplementation in very low birth weight infants: a randomized controlled trial (with Dept. of Pediatrics, JIPMER).
PUBLICATIONS

A. Journals


Abstracts


JIPMER 2010-2011 / 150


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 31.03.2011:

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Name of the Investigation</th>
<th>No. of Samples</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Glucose</td>
<td>87350</td>
</tr>
<tr>
<td>2.</td>
<td>Urea</td>
<td>59112</td>
</tr>
<tr>
<td>3.</td>
<td>Creatinine</td>
<td>49239</td>
</tr>
<tr>
<td>4.</td>
<td>Calcium (Total)</td>
<td>12907</td>
</tr>
<tr>
<td>5.</td>
<td>Phosphorus</td>
<td>6846</td>
</tr>
<tr>
<td>6.</td>
<td>Uric acid</td>
<td>6416</td>
</tr>
<tr>
<td>7.</td>
<td>Total Cholesterol</td>
<td>15764</td>
</tr>
<tr>
<td>8.</td>
<td>Triglycerides</td>
<td>12884</td>
</tr>
<tr>
<td>9.</td>
<td>HDL Cholesterol</td>
<td>12884</td>
</tr>
<tr>
<td>10.</td>
<td>LDL Cholesterol</td>
<td>12884</td>
</tr>
<tr>
<td>11.</td>
<td>VLDL Cholesterol</td>
<td>12884</td>
</tr>
<tr>
<td>12.</td>
<td>Total Protein</td>
<td>25690</td>
</tr>
<tr>
<td>13.</td>
<td>Albumin</td>
<td>25690</td>
</tr>
<tr>
<td>14.</td>
<td>Globulin</td>
<td>25690</td>
</tr>
<tr>
<td>15.</td>
<td>Bilirubin-Totall</td>
<td>25213</td>
</tr>
<tr>
<td>16.</td>
<td>Bilirubin-Conjugated</td>
<td>25213</td>
</tr>
</tbody>
</table>

JIPMER 2010-2011 / 151
<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Name of the Investigation</th>
<th>No. of Samples</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>OPD</td>
</tr>
<tr>
<td>17.</td>
<td>Bilirubin-Unconjugated</td>
<td>25213</td>
</tr>
<tr>
<td>18.</td>
<td>AST</td>
<td>24969</td>
</tr>
<tr>
<td>19.</td>
<td>ALT</td>
<td>24969</td>
</tr>
<tr>
<td>20.</td>
<td>ALP</td>
<td>24996</td>
</tr>
<tr>
<td>21.</td>
<td>GGT</td>
<td>7861</td>
</tr>
<tr>
<td>22.</td>
<td>Amylase</td>
<td>1834</td>
</tr>
<tr>
<td>23.</td>
<td>CK-Total</td>
<td>933</td>
</tr>
<tr>
<td>24.</td>
<td>CK-MB</td>
<td>933</td>
</tr>
<tr>
<td>25.</td>
<td>PT</td>
<td>4638</td>
</tr>
<tr>
<td>26.</td>
<td>INR</td>
<td>4638</td>
</tr>
<tr>
<td>27.</td>
<td>Na+</td>
<td>1462</td>
</tr>
<tr>
<td>28.</td>
<td>K+</td>
<td>1462</td>
</tr>
<tr>
<td>29.</td>
<td>Cl-</td>
<td>1462</td>
</tr>
<tr>
<td>30.</td>
<td>Mg++</td>
<td>311</td>
</tr>
<tr>
<td>31.</td>
<td>Lithium</td>
<td>328</td>
</tr>
<tr>
<td>32.</td>
<td>Fluids (CSF, other fluids etc)</td>
<td>-</td>
</tr>
<tr>
<td>33.</td>
<td>Urinalysis</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td><strong>542675</strong></td>
</tr>
</tbody>
</table>

**Emergency Medical Services (EMS)**

<table>
<thead>
<tr>
<th>Sl.No</th>
<th>Name of the Investigation</th>
<th>No. of Samples</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Blood Glucose</td>
<td>39958</td>
</tr>
<tr>
<td>2</td>
<td>Blood Urea</td>
<td>39280</td>
</tr>
<tr>
<td>3</td>
<td>Serum Amylase</td>
<td>1807</td>
</tr>
<tr>
<td>4</td>
<td>Serum Creatinine</td>
<td>39216</td>
</tr>
<tr>
<td>5</td>
<td>Ionized Calcium</td>
<td>3520</td>
</tr>
<tr>
<td>6</td>
<td>Ionized Magnesium</td>
<td>2988</td>
</tr>
<tr>
<td>7</td>
<td>Electrolyte Sodium</td>
<td>39233</td>
</tr>
<tr>
<td>8</td>
<td>Electrolyte Potassium</td>
<td>39301</td>
</tr>
<tr>
<td>9</td>
<td>Creatine Kinase Direct</td>
<td>3379</td>
</tr>
<tr>
<td>10</td>
<td>Creatine Kinase Total</td>
<td>3482</td>
</tr>
<tr>
<td>11</td>
<td>Bilirubin Total</td>
<td>11491</td>
</tr>
<tr>
<td>12</td>
<td>Bilirubin Direct</td>
<td>11379</td>
</tr>
<tr>
<td>13</td>
<td>SGOT (AST)</td>
<td>11283</td>
</tr>
<tr>
<td>Sl. No.</td>
<td>Test</td>
<td>No. of Samples</td>
</tr>
<tr>
<td>--------</td>
<td>-------------------------------------</td>
<td>----------------</td>
</tr>
<tr>
<td>14</td>
<td>SGPT (ALT)</td>
<td>11275</td>
</tr>
<tr>
<td>15</td>
<td>Troponin I - Card Test</td>
<td>62</td>
</tr>
<tr>
<td>16</td>
<td>Blood Gas Analysis</td>
<td>2279</td>
</tr>
<tr>
<td>17</td>
<td>Haemoglobin Estimation</td>
<td>10158</td>
</tr>
<tr>
<td>18</td>
<td>Packed cell volume (PVC)</td>
<td>5</td>
</tr>
<tr>
<td>19</td>
<td>Serum ALP</td>
<td>10921</td>
</tr>
<tr>
<td>20</td>
<td>Total Protein</td>
<td>11254</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td><strong>292271</strong></td>
</tr>
</tbody>
</table>

**SSB (ELISA, RIA, Chemiluminiscence)**

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Test</th>
<th>No. of Samples</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Plasma Homocysteine</td>
<td>148</td>
</tr>
<tr>
<td>2.</td>
<td>Serum Vitamin B12</td>
<td>518</td>
</tr>
<tr>
<td>3.</td>
<td>Serum Folic Acid</td>
<td>268</td>
</tr>
<tr>
<td>4.</td>
<td>Serum Total Iron</td>
<td>169</td>
</tr>
<tr>
<td>5.</td>
<td>Serum Ferritin</td>
<td>810</td>
</tr>
<tr>
<td></td>
<td><strong>Hormones</strong></td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>Serum Free T3 (FT3)</td>
<td>11259</td>
</tr>
<tr>
<td>7.</td>
<td>Serum Free T4 (FT4)</td>
<td>11259</td>
</tr>
<tr>
<td>8.</td>
<td>Serum Thyroid stimulating hormone (TSH)</td>
<td>11259</td>
</tr>
<tr>
<td>9.</td>
<td>Serum LH</td>
<td>781</td>
</tr>
<tr>
<td>10.</td>
<td>Serum FSH</td>
<td>854</td>
</tr>
<tr>
<td>11.</td>
<td>Serum Prolactin</td>
<td>829</td>
</tr>
<tr>
<td>12.</td>
<td>Serum Cortisol</td>
<td>756</td>
</tr>
<tr>
<td>13.</td>
<td>Serum GH</td>
<td>192</td>
</tr>
<tr>
<td>14.</td>
<td>Serum Testosterone</td>
<td>732</td>
</tr>
<tr>
<td>15.</td>
<td>Serum Estradiol</td>
<td>168</td>
</tr>
<tr>
<td>16.</td>
<td>Serum Progesterone</td>
<td>29</td>
</tr>
<tr>
<td>17.</td>
<td>Serum Total hCG</td>
<td>341</td>
</tr>
<tr>
<td>18.</td>
<td>Serum intact PTH</td>
<td>309</td>
</tr>
<tr>
<td></td>
<td><strong>Tumour Markers</strong></td>
<td></td>
</tr>
<tr>
<td>19.</td>
<td>Serum Alpha feto protein</td>
<td>341</td>
</tr>
<tr>
<td>20.</td>
<td>Serum carcinoembryonic antigen (CEA)</td>
<td>308</td>
</tr>
<tr>
<td>21.</td>
<td>Serum CA – 125</td>
<td>649</td>
</tr>
<tr>
<td>22.</td>
<td>Serum PSA</td>
<td>377</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td><strong>42356</strong></td>
</tr>
</tbody>
</table>
### Special Investigations

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Name of the Investigation</th>
<th>No. of Samples</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Serum LDH</td>
<td>82</td>
</tr>
<tr>
<td>2.</td>
<td>Serum ceruloplasmin</td>
<td>216</td>
</tr>
<tr>
<td>3.</td>
<td>Serum protein electrophoresis</td>
<td>408</td>
</tr>
<tr>
<td>4.</td>
<td>Plasma fibrinogen</td>
<td>216</td>
</tr>
<tr>
<td>5.</td>
<td>Stone analysis (Gall stone + Renal stone)</td>
<td>10 + 24</td>
</tr>
<tr>
<td>6.</td>
<td>Paper chromatography</td>
<td>12</td>
</tr>
<tr>
<td>7.</td>
<td>Platelet aggregation</td>
<td>6</td>
</tr>
<tr>
<td>8.</td>
<td>Glycated hemoglobin</td>
<td>1176</td>
</tr>
<tr>
<td>9.</td>
<td>Sweat chloride</td>
<td>13</td>
</tr>
<tr>
<td>10.</td>
<td>Adenosine deaminase</td>
<td>1176</td>
</tr>
<tr>
<td>11.</td>
<td>24 hour urinary protein</td>
<td>4044</td>
</tr>
<tr>
<td>12.</td>
<td>Urinary micro albumin</td>
<td>144</td>
</tr>
<tr>
<td>13.</td>
<td>Urine BJP</td>
<td>168</td>
</tr>
<tr>
<td>14.</td>
<td>Urine PH</td>
<td>192</td>
</tr>
<tr>
<td>15.</td>
<td>Urine protein creatinine ratio</td>
<td>912</td>
</tr>
<tr>
<td>16.</td>
<td>Urine haemoglobin</td>
<td>3</td>
</tr>
<tr>
<td>17.</td>
<td>Urine myoglobin</td>
<td>24</td>
</tr>
<tr>
<td>18.</td>
<td>Urine osmolality</td>
<td>96</td>
</tr>
<tr>
<td>19.</td>
<td>Urine specific gravity</td>
<td>184</td>
</tr>
<tr>
<td>20.</td>
<td>Urine aminoacid</td>
<td>24</td>
</tr>
<tr>
<td>21.</td>
<td>Urine reducing sugars</td>
<td>60</td>
</tr>
<tr>
<td>22.</td>
<td>Urine cetrimide test</td>
<td>10</td>
</tr>
<tr>
<td>23.</td>
<td>Urine urobinogens</td>
<td>36</td>
</tr>
<tr>
<td>24.</td>
<td>Urine porphobilinogens</td>
<td>60</td>
</tr>
<tr>
<td>25.</td>
<td>Urine ketones</td>
<td>36</td>
</tr>
<tr>
<td>26.</td>
<td>Urine ferric chloride test for PKU</td>
<td>36</td>
</tr>
<tr>
<td>27.</td>
<td>Urine bile salt and bile pigments</td>
<td>48</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>9416</strong></td>
</tr>
</tbody>
</table>
AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

The following MBBS students participated in the Inter-College Biochemistry Quiz competition for Medical Colleges in Tamil Nadu and Puducherry (CHEMOPHILICZ-2010) organized by the Institute of Biochemistry, Madras Medical College, Chennai on 9th April, 2010 and secured first prize:

i. Mr. Santhosh Swaminathan … First Prize
ii. Mr. Aditya M. … First Prize
iii. Ms. Shanthy Devadasan … First Prize

The following M.D. (Postgraduate) and M.Sc. (Medical Biochemistry) students attended the 37th National Conference of Association of Clinical Biochemists of India at Mumbai, India; December 13-15, 2010 and secured prizes in the AFMC Quiz during the conference:

i. Dr. Kavitha S … First Prize
ii. Mr. Sravan Kumar Perula … Fourth Prize

The following M.Sc. (Medical Biochemistry) student, Mr. Sravan Kumar Perula, attended the 37th National Conference of Association of Clinical Biochemists of India at Mumbai, India; December 13-15, 2010 and was awarded the best poster prize for his poster entitled “Higher levels of homocysteine and atherogenic lipid markers in young women with PCOS are independent of thyroid status” during the conference:

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.

Dr. M. G. Sridhar

Co-ordinator and Assessor, Inspection team, Medical Council of India, New Delhi; Member of Under-graduate/Post-graduate Board of Studies in Biochemistry at Puducherry University; Sri Venkateshwara Institute of Medical Sciences, Tirupati; Balaji Vidyapeeth, Mahatma Gandhi Medical College, Puducherry; Mahatma Gandhi University, Kottayam, Kerala; Kannur University, Kerala; Paramedical Sciences, Puducherry University; Special Board of Studies for Medical Laboratory Technology, Puducherry University; Community College, Puducherry University; Member, Committee for inspection of postgraduate facilities for medical colleges, Puducherry University; Member of Technical Evaluation Committee, PMSSY Scheme, Government of India; Member, Selection Committee of Perundalaivar Kamaraj Medical College and Research Institute, Puducherry; Member, Doctoral Committee for PhD students in the Department of Biochemistry, Puducherry University; Member, UGC Scholarship Review Committee, Puducherry University; UG/PG Examiner in JIPMER, Puducherry; PG Examiner
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. R. Soundravally

UG (MBBS, B.Sc. (MLT)/PG Examiner (M.Sc. Medical Biochemistry), JIPMER, Puducherry, Member of International Society for Infectious Diseases, Member of Association of Clinical Biochemists of India and Tropical Disease Research (TDR) scientist.

Dr. Medha R.

Member, Reception Committee, JIPMER Annual Convocation-April 2010, UG Examiner, Tamil Nadu Dr. MGR Medical University, Chennai, PG Examiner (M.Sc. Medical Biochemistry), JIPMER, Puducherry, Member, Doctoral Committee for PhD students in the Department of Biochemistry, JIPMER; 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 Clinica Chimica Acta, Immunopharmacology and Immunotoxicity, Indian-Journal of Pharmacology, Indian Journal of Clinical Biochemistry, Indian Journal of Medical Research, Archives of Medical Research and Cardiovascular Journal of Africa.

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. P.H. Ananthanarayanan

- Appointed as Member of the committee to inspect the Medical Colleges located at Puducherry for verifying the infrastructure and other facilities for grant of affiliation for the year 2010-11 on 5th and 6th May 2010.
- Attended the Expert Committee Meeting at UGC Office, New Delhi on 20th June 2010.
- Assisted the Ministry of Health and Family Welfare, New Delhi for framing recruitment rules and work out functions/duties as well as recruitment plan for the faculty of the medical colleges.
- Attended the Review Meeting for Interns Orientation Programme in the NTTC Seminar Hall on 13th January 2011.
- Attended the Standard Selection Committee for conduct of Interview for recruitment to the post of Professor & Asst. Professor in various disciplines at Hotel Residency Towers, Chennai from 19th to 23rd January, 2011.

- Attended the Planning Meeting for 62nd National Education Science for the Teachers of Health Professional in the NTTC Seminar Hall on 31st January 2011.

- Acted as Resource-Person at the 61st National Education Science for the Teachers of Health Professional in the NTTC Seminar Hall on 15.09.2010 to 25.09.2010 and the 62nd National Education Science for the Teachers of Health Professional in the NTTC Seminar Hall on 9th to 19th February 2011

- Participated in the Scientific Advisory Committee Meeting of HEINZ Nutrition Foundation India on 6th February, 2011 at Mumbai.

- Member, MCI Inspection team, to carry out the Inspection of Government College, Silchar, Assam on 11th to 12th February, 2011.

- Attended the Meeting of UG/PG Admission Committee, JIPMER on 21st February 2011 at JIPMER, Puducherry.


- Attended the first meeting of the Board of Studies for MD, Non-Clinical courses held on 7th March, 2011 in the Conference Hall, ‘B’ Block, Chettinad University, Rajeev Gandhi Salai, Kelambakkam, Kancheepuram District, Tamil Nadu.

- Attended the Meeting of National Steering Committee for National Medical College Network under e-Health including telemedicine on 14th and 15th March, 2011 at New Delhi.

- Attended the NTTC Core Group meeting held on 22nd March 2011 in NTTC Seminar Hall for the planning of organization of MEDUCON 2011 and National Workshop on Postgraduate Education in Pediatrics.

- Attended the NTTC Core Group meeting held on 23rd March 2011 in NTTC Seminar Hall for the III year P.G. orientation programme on Research Methodology 2011.

- Acted as a resource person in the Development of recommendation with reference to establishment of National and Regional Institute of Paramedical Sciences and support state medical colleges for conducting paramedical and allied health courses in March, 2011 at New Delhi.

- Deputed as External Expert for the appointment of project staff by the Department of Food Science and Technology, Pondicherry University on 25th March, 2011.

- Attended the National Meet on Roll Out Plans for Reforms in Undergraduate and Postgraduate Education at MCI, New Delhi on 29th March 2011.
Dr. M. G. Sridhar

- Chief Coordinator, B.Sc. Allied Medical Sciences’ Courses (2009-10 onwards)- Development of Curriculum, Scheduling and monitoring of Time table, classes, infrastructure support for B.Sc. – MLT, MRD, OTT, DT, PT courses
- Member, Sub-Committee to assist Standing Selection Committee for selection for faculty posts, September 2010 and January 2011
- Acting Officer in-Charge, Purchase Section-June-July 2010
- Represented Department as I/C during the absence of HOD Biochemistry at JIPMER Committees’ meetings
- Organization of Central Diagnostic lab in Super specialty Block, JIPMER
- Chief Supervisor, JIPMER PG(MD/MS) Examination, Chennai Centres, 12th- 13th Feb 2011
- Member, Examination Committee, JIPMER
- Member, Institute Advisory Committee for establishing “Multidisciplinary Advanced Research Centre at JIPMER
- Member, Subcommittee on Estate matters, JIPMER
- Member, Committee on Campus development, JIPMER
- Member, Library Committee, JIPMER
- Member, Administrative Information Systems Advisory Committee, JIPMER
- Enrolled for the year 2011 for the one year post-graduate diploma in Bioethics, NIH Project - ICMR, sponsored by JIPMER

Dr. Zachariah Bobby

- Supervisor, JIPMER PG(MD/MS) Examination, Bengaluru Centre, 12th- 13th Feb 2011

SIGNIFICANT EVENTS IN THE DEPARTMENT

Dr. Zachariah Bobby evaluated the following PhD theses:

- Glycobiological characterization of glycan – anti-glycan antibody immune complexes in human serum including enzymatic modulation of their uptake by tissue lectins” by Anu Paul from Sree Chitra Tirunal Institute for Medical Sciences and Technology, Thiruvananthapuram.
- “Biochemical studies on protective effect of Taurine in experimentally – induced fulminant hepatic failure in rats” by K.K.Asha from Cochin University of Science and Technology, Cochin.

Dr. R. Soundravally

- Participated in “Effective Diagnostics” at Interns Orientation Programme, JIPMER, Puducherry; January 3-5, 2011.
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, six advanced echocardiography machines including one 3D, three tread mill 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 3 candidates per year

CONTINUING MEDICAL EDUCATION PROGRAMS

Dr. J. Balachander

1. Course Director IFRIC 2010 Second Indo-French Radial Intervention Course IVUS-FFR 2010 on 22, 23, 24 March 2010 at JIPMER.

2. Course Director for Workshop on Non-Coronary Intervention Workshop at JIPMER on 26/05/2010


4. Course Director Second Congenital Heart Disease Device Closure Workshop 9,10 Sept. 2010

5. Tamil Nadu CSI at Thiruvananthpuram: Emerging Indications for Pacing Lecture : 22/10/2010


7. Faculty at World Diabetes Day Programme : Lecture on Diabetes and CAD: JIPMER: Puducherry: 13/11/2010

9. Course Director, Workshop on RFA of VT: Visit of Downar from Canada. 30/11/2010

10. 62nd Annual Conference of the Cardiological Society of India Lectures: Pacemaker & MRI, EECP Hope or Hype? And Chairman: EP Symposium: 02/12/2010-05/12/2010

11. Course Chairman CARDINT 2010: AGP Hospital Puducherry: 19/12/2010

12. Faculty at Dr. N. Sivarajan Memorial Clinical Cardiology Programme at AGP Hospital Puducherry: 26/12/2010

13. Faculty at Tenecteplase Meeting Newer Thrombolytics: Lecture: Hotel Annamalai: Puducherry: 09/01/2011


Dr. Santhosh Satheesh

National Continuing Medical Education / Training Programmes

1. Organising Secretary IFRIC 2010 Second Indo-French Radial Intervention Course IVUS-FFR 2010 on 22, 23, 24 March 2010 at JIPMER


3. Organising Secretary Second Congenital Heart Disease Device Closure Workshop 9,10 Sept., 2010

4. Faculty at CARDINT 2010: Lecture ‘Balloon Aortic Valvuloplasty and Transcutaneous Aortic Valve Implant- Where do we stand?’ AGP Hospital Puducherry: 19/12/2010


International Continuing Medical Education/Training Programmes


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

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


5. Observership on Percutaneous Aortic Valve Implant at Department of Cardiology St Thomas Hospital London 14 to 20 October 2010

JIPMER 2010-2011/160
Dr. Ajith A

National Continuing Medical Education/Training Programmes

Chairperson IFRIC 2011 Third Indo-French Radial Intervention Course ROTA-IVUS-FFR 2011 on 28th Feb-2nd Mach 2011 at JIPMER

International Continuing Medical Education/Training Programmes

Structural Heart Disease Intervention Course- University of Frankfurt-Germany- Nov-7-12-2010

Dr. Raja Jaisundar Selvaraj

1. Organising Secretary, CARTO Workshop on RFA of VT JIPMER 30/11/2010
2. Faculty - Frontier’s Electrophysiology Fellow’s Meet – January 2011
3. Faculty and chairperson – Heart failure and arrhythmia summit organised by Fortis Malar Hospitals Feb 2011.

Dr. Gobu P

1. Attended a Training Programme in Device Closure for Congenital Cardiac Defects at Vadamalayan Hospital, Madurai December 20 to 30 2010

CONFERENCES

Dr. J. Balachander

3. Tamil Nadu CSI at Thiruvananthpuram: Emerging Indications for Cardiac Pacing 22/10/2010
4. Indian Heart Rhythm Society Meeting at Hyderabad-02/10/2010
5. International Conference at Puttaparathy, India: Three decades of cardiac pacing in India: 24/10/2010-26/10/2010
8. 62nd Annual Conference of the Cardiological Society of India Lectures: Pacemaker & MRI, EECP Hope or Hype? Chairman : EP Symposium: 02/12/2010-05/12/2010
9. CARDINT 2010: AGP Hospital Puducherry: 19/12/2010

JIPMER 2010-2011 / 161
10. Dr. N. Sivarajan Memorial Clinical Cardiology Programme at AGP Hospital Puducherry: 26/12/2010
12. Indian Heart Rhythm Society Meeting at Hyderabad-02/10/2010
13. International Conference at Puttaparathy, India: Three decades of cardiac pacing in India: 24/10/2010-26/10/2010
16. 62nd Annual Conference of the Cardiological Society of India Lectures: Pacemaker & MRI, EECP Hope or Hype? Chairman : EP Symposium: 02/12/2010-05/12/2010
17. CARDINT 2010: AGP Hospital Puducherry: 19/12/2010

Dr. Santhosh Satheesh

International Conferences
1. Euro PCR Congress 2010, 25 to 28 May 2010, Paris, France
2. PCR London Valves 11th to 13th October 2010, London, United Kingdom

Papers Presented:
1. Sudden Hypotension during Percutaneous Transluminal Mitral Commisurotomy (PTMC)- a very unusual cause'
2. Percutaneous Transluminal Mitral Commisurotomy (PTMC) Balloon- Report of a new Complication and a Simple Solution'

National Conferences
1. Advanced Cardiovascular Therapeutics (ACT) meeting. ACT 2010 from 18th to 20th June 2010 at the Madras Medical Mission.
2. National Workshop On Good Clinical Practice In Clinical Trials, organized by the Dept. of Pharmacology, JIPMER and Pfizer India 25th Sept. 2010
3. Sixth International Transradial Intervention Course (TRICO) on October 30th and 31st, 2010, Ahmedabad
4. Cardiological Society of India National Conference 2010 December 2 to 5, Kolkata, West Bengal
Paper Presented:

Effect of adding Nitroglycerin to Lignocaine on Radial Artery Diameter during Local Anesthesia for Transradial Coronary Procedures

**Dr. Ajith A**

**International Conferences**

1. Pediatric Interventional Cardiology Symposium- Boston, United States July 2010  
   Case presentation- Mitral Para valve leak closure
2. Left Atrial Appendage Closure Workshop – Frankfurt, Germany- Nov 2010

**National Conferences**

a. VSD Device closure Workshop – Prime Hospital Hyderabad May 2010  
b. National Endovascular Workshop – Ahemadabad 2010  
c. Advanced Cardiovascular Therapeutics – 18th – 20th June 2010 Chennai  
d. Structural Heart disease Workshop – Bangalore 2011

**Dr. Raja Jaisundar Selvaraj**

**International Conferences**

1. Cardiorhythm 2011 at HongKong

Paper Presented

Echocardiographically measured coronary sinus diameter to differentiate AV nodal e-entrant tachycardia from AV reentrant tachycardia.

**National Conferences**

1. 3rd Annual conference of Indian Heart Rhythm Society – October 2010.
2. Cardiological Society of India National Conference 2010 December 2 to 5, Kolkata, West Bengal

Paper Presented

Radiofrequency ablation of Accessory pathways in Ebstein’s anomaly-

3. Frontier’s Electrophysiology Fellow’s Meet – January 2011
4. Heart failure and arrhythmia summit organised by Fortis Malar Hospitals Feb 2011.
Dr. Gobu P

1. Indo French Radial Intervention Course – IVUS-FFR 2010 on 22, 23, 24 March 2010 at JIPMER.
2. Advanced Cardiovascular Therapeutics (ACT) meeting. ACT 2010 from 18th to 20th June 2010 at the Madras Medical Mission.
3. Cardiological Society of India National Conference 2010 December 2 to 5, Kolkata, West Bengal.

Paper Presented
Comparison of Balloon Mitral Valvotomy (BMV) in patients with mitral restenosis (Post BMV/TVMC) and patients undergoing BMV for the first time.


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)
3. Ivabradine For The Prevention Of Perioperative Myocardial Ischemia - A Multicenter Randomized Controlled Trial (Department of Biotechnology)
4. Global Registry Of Rheumatic Heart Disease (CANNeCTIN Population Health Research Institute, Hamilton, Canada)
5. Atrial Fibrillation Registry – National Registry (Indian Heart Rhythm Society)

B. Departmental projects

Completed
1. Acute Pulmonary Embolism-presentation, management and outcomes
2. Utility of left atrial angiogram during percutaneous mitral commissurotomy.

JIPMER 2010-2011 / 164
4. Concurrent mitral, aortic and tricuspid valvuloplasties in Rheumatic heart disease patients - Acute outcome and short term follow up
7. Effect of Nitroglycerine in the local anesthetic infiltration on Radial Artery Diameter by vascular ultrasound imaging
8. Comparison of Epicardial fat and Carotid Intima-media thickness as a predictors of coronary artery disease
9. Study of the Coronary Sinus diameter in patients with AVNRT & Concealed Accessory Pathways

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. Comparison of four regimens of cocktail injections to avoid radial artery spasm for trans radial coronary angiography.
5. Long term Outcome of patients undergoing coronary artery stenting with PRONOVA and PROLINK coronary stents.
6. Profile of Pericardial Diseases with specific reference to presentation, management and long term outcome.
7. Acute and long term Patency of Radial Artery following radial angiograms and Interventions – a comparison of clinical, plethysmographic and vascular ultrasound.
9. Dysynchrony Assessment of Patients with Dilated cardiomyopathy – an M mode, Tissue Doppler and Strain Rate Imaging Study.
10. Nitroglycerine or Nikorandil for coronary vasodilatation during PTCA- a randomized controlled trial
11. Balloon Sizing of Atrial Septal Defects- Safety and Outcome on final defect size- A comparative study with Trans esophageal echocardiography
12. Efficacy and Safety of titrated injections of alcohol during septal ablation
13. Comparative study of Ranolazine and Trimetazidine in Diabetic Patients with Angina Pectoris
C. Collaborative projects

**Completed**

**International**

With St. Antoine Hospital, Paris France

1. Decrease in Left Atrium Volume After Successful Balloon Mitral Valvuloplasty: An Echocardiographic and Hemodynamic Study.

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

**National**

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

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 complexfractionated atrial electrograms.

**Institutional**

With department of Biochemistry, JIPMER


2. Evaluation Of Homocysteine, Lipoprotein (A) And Sialic Acid Levels In Subjects With Obesity

With department of Pharmacology, JIPMER

1. CETP gene polymorphism in patients with coronary artery disease

2. Beta 1 Gene Polymorphisms in South Indian Population

3. Effect of CYP3A5 and P2Y12 genetic polymorphisms on platelet aggregation in patients on treatment with clopidogrel

With department of Pediatrics, JIPMER

1. Cardiac Enzyme levels in Myocardial Dysfunction in Newborns with Perinatal Asphyxia

With department of Medicine, JIPMER


2. Ankle-Brachial Index and Carotid-Intimal-Medical Thickness ratio as a risk factor in Diabetes and ischemic Heart Disease.

With Department of Anesthesiology JIPMER

1. Heart Rate Variability and QT Dispersion assessment and the plane of Anesthesia

JIPMER 2010-2011 / 166
**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).
3. Global Registry of Rheumatic Heart Disease (Population Research Institute, McMaster University, Toronto, Canada).

**National**
1. Angiogenesis and Cell therapy for Ischemic Cardiac Syndromes (AU KBC Research Centre, Chennai).
2. INTERVENE Trial (CARE Hospital, Hyderabad).
3. Radiofrequency Ablation of Cardiac Arrhythmias – A collaborative Project with Sri Venkateswara Institute of Medical Sciences, Tirupathy and Government Medical College, Trivandrum.

**Institutional**
With Department of Biochemistry, JIPMER
1. Evaluation Of Homocystiene, Inflammatory Response, Oxidative Stress Parameters And Lipid Profile In Non-Diabetic Patients With Acute Coronary Syndrome.
2. Study of Sialic Acid and Oxidative stress markers in people with Obesity.
3. Total Sialic acid, Lipid Associated Sialic acid in patients with ischemic and non ischemic heart failure.
4. Inflammatory response and oxidative stress in patients of rheumatic mitral stenosis with left atrial thrombus.

With Department of Pharmacology, JIPMER
1. Effect of CYP3A5, P2Y12,CYP2C19 and MDR1 genetic polymorphisms on platelet aggregation in patients on treatment with clopidogrel.
3. Gender Specific Association of Endothelial Nitric Oxide Synthase Gene (Glu298Asp) in healthy Tamilian volunteers.
4. Effect of nebivolol on endothelial dysfunction in coronary artery disease patients- an open label, randomized controlled clinical trial.
5. Pharmacogenomics of Lipid Lowering Response of Atorvastatin among Dyslipidemic Tamilian Population.
With Department of Cardio Thoracic and Vascular Surgery.

Long term Echocardiographic Evaluation of Chitra Prosthetic Heart Valves in Aortic and Mitral Positions.

With Department of Neuro Surgery and Radiology

The site and distribution of intracranial vascular abnormalities in patients with intracranial bleeds an Angiographic and CT Imaging Study

PUBLICATIONS

A. Journals

International


**Book chapters**


**PATIENT CARE SERVICES**

A. **Clinical**

**OUTPATIENT SERVICES**

Mean Daily Attendance Cardiology OPD – 348

Mean Weekly Attendance for Special Clinics

- Post Intervention Clinic( Monday) – 38
- Arrhythmia Clinic (Wednesday) – 36
- Cardio Thoracic Meet (Friday) – 96
- Genetic Diseases and Lipid Clinic (Saturday) – 8
- Community Out reach Services (Health Camps)

JIPMER 2010-2011 / 169
KARAikal Outreach Centre Health Camp

08.05.2010 – 88 Patients
05.02.2011 – 81 Patients

Inpatient Services

<table>
<thead>
<tr>
<th>Service</th>
<th>Bed Occupancy Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cardiology Coronary Care Unit (13 beds)</td>
<td>97%</td>
</tr>
<tr>
<td>Cardiology Ward (35 beds)</td>
<td>98%</td>
</tr>
</tbody>
</table>

B. Laboratory

Non Invasive Cardiac Lab (Total Number April 2010 to March 2011)

1. ECG                                    – 285228
2. Echocardiography                       – 44689
3. Bed Side Echocardiography              – 131
4. Tread Mill Test                        – 670
5. Holter                                 – 138
6. Vascular Doppler                       – 87
7. Dobutamine Stress Echocardiography (weekly) – 25
8. Stress Myocardial Perfusion Imaging (weekly) – 187
9. Foetal Echocardiography (monthly)       – 14
10. Trans Oesophageal Echocardiogram       – 177

Invasive Cardiac Catheterisation Labs (Total April 2010-March 2011)

1. Coronary Angiography                   – 1041
2. Coronary Interventions                – 339
3. Diagnostic Cardiac Catheterisations (Adult) – 94
4. Diagnostic Cardiac Catheterisations (Pediatric) – 39
5. Peripheral Angiography                – 67
6. Peripheral Interventions              – 24
7. Percutaneous Balloon Valvotomies (Mitral, Aortic, Pulmonary, Tricuspid) – 167
8. Device Closure for congenital heart disease – 27
9. Pacemaker and Other Arrhythmia Device Implants – 127
10. Electrophysiological Study & RF Ablations – 119
11. Emergency Angiograms/Interventions   – 46
AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr. J. Balachander

1. Fellow of The Indian Society Of Electrocardiology.
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.
11. Sam GP Moses Gold Medal In Diabetic Cardiology-1992
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.
15. Member: Board of Studies: National Board of Examinations in Cardiology.
16. Member : PG Board of Studies: NTR Medical University: Vijayawada, Andhra Pradesh.
18. National Faculty: Indian Heart Rhythm Society.
20. Inspector for DNB Cardiology: Smt Mehta Institute : Mumbai
23. Chairman Board of Examiners: D.M Cardiology Examinations JIPMER, Puducherry: 26/07/2010
24. Member: Selection Committee: Entrance Examination DM Cardiology: JIPMER, Puducherry: 27/07/2010
27. Examiner: DM Cardiology: The T.N Dr. MGR Medical University: Madurai: 10/08/2010
29. DNB Cardiology Inspector: Lisie Hospital: Kochi: 06/11/10
30. DNB Cardiology Inspector: Pushpagiri Hospital: Tiruvalla: 06/11/10
31. DNB Cardiology Inspector: PRS Hospital: Thiruvananthapuram: 08/11/10
33. Member Board of Studies in Cardiac Sciences: SCTIMST: Thiruvananthapuram.

**Dr. Santhosh Satheesh**
1. Life Member of Cardiological Society of India
2. Life Member of Pediatric Cardiac Society of India.
3. Life Member European Association of Percutaneous Cardiovascular Interventions EAPCI
4. Member European Society of Cardiology
5. Society for Cardiovascular Angiography and Interventions SCAI Associate Member 2010-2011.

**Dr. Ajith A**
1. Life Member of Cardiological Society of India
2. Society for Cardiovascular Angiography and Interventions SCAI Associate Member 2010-2011.

**Dr. Raja Selvaraj**
1. Life Member of Cardiological Society of India
2. Visiting Electrophysiology Faculty at SVIMS Tirupathy, Andhra Pradesh and Government Medical College Trivandrum, Kerala

**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
8. Technical Expert Member for PMSSY (Pradhan Mantri Swasthya Suraksha Yojana, Ministry of Health and Family Welfare, New Delhi
9. Member Ethical Committee, SVIMS, THIRUPATHI
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)
3. Co – ordinator for Indo French Student exchange programme in JIPMER-Paris University 7 collaboration
4. Technical Expert Member for Cardiology, PMSSY (Pradhan Mantri Swasthya Suraksha Yojana), Ministry of Health and Family Welfare, New Delhi
5. Reviewer, Journal of Pharmacology and Pharmacotherapeutics
6. Co-Ordinator for DM Cardiology Clinical Examination, JIPMER 2010
7. Co-Ordinator and Invigilator, DNB Cardiology Clinical Examination JIPMER 2010 August, 2011 February
8. Invigilator for MBBS entrance examination JIPMER 2010. June

Dr. Raja Selvaraj
1. Section Editor – Indian Pacing and Electrophysiology Journal
2. Reviewer
   • Europace
   • Journal of Electrocardiology
   • Journal of pharmacology and pharmacotherapeutics
   • Indian journal of pacing and electrophysiology

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. Jean Gulliame, Assistant Professor, Department of Cardiology, Lariboisiere Hospital, Paris, France,
3. Dr. Eugene Downar, Professor of Electrophysiology, Toronto General Hospital, Toronto, Canada

Visiting Faculty (National)
1. Dr. Sriman 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.
3. Dr. BRJ Kannan, Consultant Pediatric Cardiologist, Vadamalayan Hospital, Madurai
4. Dr. Karthikeyan G, Additional Professor, Department of Cardiology, AIIMS, New Delhi
5. Dr. Beeresh, Associate Professor, Department of Cardiology, Sri Jayadeva Institute of Cardiology, Bangalore, Karnataka

Upgradation of Educational Facilities
1. Increased the number of DM (Cardiology) seats from two in 2010 to three in 2011
2. Commenced the training of undergraduate students from Paris 7 University, Paris, France in 2010.
Upgradation of Research Facilities

1. Established Intravascular Ultrasound Imaging System (Volcano) with Integrated Fractional Flow Reserve in Cardiac Cath Lab
2. Established a new 10 MHz Vascular Doppler System for Carotid Intima Medial Thickness, Brachial flow Mediated Vasodilation Studies (Philips)
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 CT and MRI imaging systems in collaboration with Department of Radiodiagnosis (Seimens, Philips)
6. Established point of care assay of Cardiac Biomarkers including Toponin, BNP, D dimer (Roche)
7. Established Rotablator system in Cardiac Cath Lab.

Upgradation of Patient Care Facilities

1. Two additional cardiac cath labs with advanced haemodynamic, imaging and oximetry systems added making the total number of cardiac cath labs to three. Achieving a waiting period for interventions of less than a week and next day diagnostic angiograms.
2. Established Outpatient Radial Coronary Angiography and Angioplasty programme improving the patient comfort, decreasing complications and shortening the hospital stay of patients.
3. Established regular Electrophysiology and Radiofrequency Ablation services
4. Established regular Device Closure of Congenital Cardiac Defects
5. Established a Advanced Echocardiography Lab with three machines which allowed same day echocardiography for all patients referred.
6. Established Rotablator and Chronic Total Occlusion Intervention Services
7. Added 5 new ECG machines.
# 8.5 Cardiothoracic Surgery

**Director, Senior Professor & Head**  
K.S.V.K. Subba Rao  
**Associate Professor**  
B.V. Sai Chandran

## BACKGROUND INFORMATION OF THE DEPARTMENT

The 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 (2011) Dr. K.S.V.K. Subbarao 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.

Two of the MCh Students won the gold medal in DNB examination for cardiothoracic surgery.

## EDUCATIONAL COURSES

- Higher Speciality course: MCh (Cardiothoracic & Vascular Surgery) – a 3 year course – at present 8 candidates have been undergoing training.
- Undergraduate course: B.Sc (Perfusion Technology) – a 3 year course with one year internship - at present 8 candidates have been undergoing training.
- Conducting regular classes for:
  - MBBS students for the syllabus involving Cardiothoracic & Vascular surgery.
  - Emergency Medicine & Trauma Technician trainees
  - Trainees for Medical Record Officers.

## CONTINUING MEDICAL EDUCATION PROGRAMS

- CME on Minimally Invasive Cardiac Surgery - conducted at GKNM hospital, Coimbatore – December 2010 - attended by – Dr. B.V. Sai Chandran & Senior residents – Dr. P. Sudarsan Reddy, Dr, Noveen Davidson, Dr. Pleasant Sunny & Dr. Hemachandren.
- CME & International Symposium on Aortic aneurysms - conducted at MIOT hospital, Chennai in January 2011 - attended by - Dr. B.V. Sai Chandran & Senior residents – Dr. P. Sudarsan Reddy, Dr, Noveen Davidson, Dr. Pleasant Sunny & Dr. Hemachandren.
CONFERENCES

- 20th World Congress 2010 conducted by World Society of Cardio Thoracic Surgeons – was attended by Prof. K.S.V.K.Subbarao, Dr. B.V. Sai Chandran and senior residents Dr. Durgaprasad Rath, Dr. Noveen Davidson, Dr. P. Sudarsan Reddy, Dr. M.Hemachandren & Dr. K. Madhusudan.

Presentation:
One stage operation for rupture of aneurysm of sinus of Valsalva and coarctation of aorta through median sternotomy.

- CT CO CON 2010 (All India Conference) conducted by Indian association of Cardiovascular – Thoracic Surgeons – attended by Prof. K.S.V.K.Subbarao, Dr. B.V. Sai Chandran and senior residents Dr. Durgaprasad Rath, Dr. Debashish Nayak, Dr. Noveen Davidson, Dr. P. Sudarsan Reddy, Dr. M.Hemachandren, & Dr. K. Madhusudan.

Presentations:
  i. Multiple serial aneurysms of the brachial artery associated with multiple arteriovenous malformations of the forearm – a rare occurrence.
  ii. Penetrating injury of neck – A rare cause of tracheo-esophageal fistula
  iii. Aneurysm of ascending aorta eroding right bronchus – syphilis still a possible etiology
  iv. Blunt injury of thorax presenting as acute left upper limb ischemia – role of clinical judgment for successful and timely surgical management.
  v. Transmural and transaortic approach using video assisted thoracoscope for removal of left ventricular apical organized thrombus of non-ischemic etiology.
  vi. Tuberculous endomyocarditis of heart masquerading as right atrial tumor – a surgical catastrophe.

RESEARCH PROJECTS

- Descriptive study of tracheobronchial foreign bodies in children – Co-guidance in Dissertation for M.D. (ENT) Student – Project Completed

- Correlation of pulmonary hemodynamic parameters with histologic grading lung biopsy in congenital heart disease patients – Co-guidance in Dissertation for M.D. (Pathology) Student – Project continued

- Histopathological study of vessel wall in patients with arterial occlusive disease - Co-guidance in Dissertation for M.D. (Pathology) Student – Project continued

- Influence of CYP2C9, VKORC1 and CYP4F2 gene polymorphisms on warfarin/acenocoumarol plasma level and dose requirement in patients receiving warfarin/acenocoumarol therapy – Co-guidance in Thesis for Ph.D (Pharmacology) Student – Project continued

- Global Registry of Rheumatic Heart Disease. (Multicentre study) – along with global network of cardiologists & cardiothoracic surgeons with principal investigator from All India Institute of Medical Sciences – Project initiated.

JIPMER 2010-2011/177
PUBLICATIONS

A. Journals


2. Roshni S, Balachander H, Badhe A & Sai Chandran B.V. Anaesthetic Management Of A Patient With Right Atrial Myxoma – A Case Report And Anaesthetic Considerations; The Internet Journal of Anesthesiology: 2010 (26);1


5. Vithal Kumar Betigeri, Sai Chandran B.V., Subbarao K.S.V.K. Papillary Fibroelastoma Arising from the Interventricular Crest Associated with a Partial Atrioventricular Canal Defect; Journal of Cardiac Surgery ; 2011 ; 26 (3); 333

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. Currently about 25-30 major operations per month, are being one, 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. 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.

OPERATIONS PERFORMED

• The department is being evolved as a major referral centre - focused specially for the following operations:

1. Thoracic Aortic operations – Aortic aneurysm repair including replacement of aortic arch, Valve sparing aortic root replacement (David's operation), Bentall operation & Coarctation repair and also myectomy for subaortic stenosis.

3. Redo open heart operations including redo double valve replacement.
4. Pericardiectomy for chronic constrictive pericarditis
5. Operations for thoracic outlet syndrome – including Roo's Transaxillary excision of cervical rib and also supraclavicular approach.

- 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 other complex operations like arterial switch, Fontan operation, Pulmonary thromboendarterectomy for chronic pulmonary thromboembolic conditions, Ascending aorta to descending thoracic aortic bypass for coarctation of aorta are also being performed.
- The main bulk of thoracic operations include lobectomy, pneumonectomy, decortication of lung, excision of mediastinal tumors. Midcolon Cervical Esophagocoloplasty is being 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 operations for repair and reconstruction are also being done.
- Other operations including carotid operations including carotid transposition of subclavian artery, repair or bypass graft of peripheral arteries & embolectomy.
- Video-assisted thoracoscopic Surgery (VATS) operations are also being done for selective conditions.

**Laboratory**

- There is an endoscopy suite equipped with facilities to perform rigid & flexible bronchoscopy with video screen.
- Rigid Esophagoscopy is performed in special cases.
- Transthoracic Fine Needle Aspiration for Cytology – is being done as out-patient procedure.

**AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS AND ADMINISTRATIVE, EDUCATIONAL, RESEARCH & OTHER ASSIGNMENTS.**

**Dr. K.S.V.K. Subba Rao**

- 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.
- 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.
• President of the JIPMER Scientific Society for the year 1990.
• 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
  4. Fellow of Indian Association of Cardio Vascular and Thoracic Surgeons

Dr. B.V. Sai Chandran

• Membership and Fellowship of the various Professional bodies:
  a. Member of European Association for Cardio-Thoracic Surgery.
  b. Member of Indian Association of Cardio Vascular and Thoracic Surgeons.
  c. Member of Vascular Society of India.
  d. Member of Association for Surgeons of India

• Participated as a Special Invitee in Sutures and hospital Disinfectants Monitoring Committee.
  a. As CPIO (Central public information Officer) under Right to Information Act, 2005 at JIPMER.
  b. As a member / special invitee in various committees such as Purchase committee, OT committee and suture committee.
  c. Member in the Emergency Medical team during VIP’s visits.
  d. As a member of expert committee for technical evaluation of bid pertaining to equipments of CTVS department under PMSSY scheme of ministry of Health & Family Welfare.
  e. Internal Examiner for the MCh (cardiothoracic & Vascular Surgery).

SIGNIFICANT EVENTS IN THE DEPARTMENT

• Dr. K.S. Neelakandhan – former H.O.D of Department of cardiothoracic & Vascular surgery, Sree Chitra Tirunal Institute of Medical Science & Technology, Trivandrum – was invited for initiating the Endovascular treatment for dissecting thoracic aneurysms And delivered guest lecture on Hybrid Endovascular treatment of aortic aneurysms
8.6 Dentistry

**Professor & In-charge**

S. Gopalakrishnan

**Assistant Professor**

B. Krishnan

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 and classes on Basic oral pathology for allied courses.

CONTINUING MEDICAL EDUCATION PROGRAMMES

Dr. B. Krishnan, Assistant Professor

- Attended a 1 day CME on “Head & Neck Cancer”, organized by Regional Cancer Centre, JIPMER, held on 14th November 2010.
- Delivered a presentation on “Oral Cancers - Etiopathogenesis, Screening And Dental Prophylaxis”, at a CME on “Head and Neck Cancer”, organized by Regional Cancer Centre, JIPMER, held on 14th November 2010.
- Attended a 1 day Hands on workshop on “Distraction Osteogenesis”, organized by Association of Oral and Maxillofacial Surgeons of India at Coimbatore held on 1st December 2010.
- Attended a 3 day Hands on Workshop on “Craniomaxillofacial Trauma & Osteosynthesis”, Conducted by AO International, Switzerland, held at Lucknow on March 5th-7th 2011.

CONFERENCES

Attended the 35th Annual Conference of Oral & maxillofacial Surgeons of India, at Coimbatore held on December 1st-4th 2010.
PUBLICATIONS

A. Journals


PATIENT CARE SERVICES

The department performs a variety of dental procedures like simple and complex 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 Gingie on 11/10/2010, & Puducherry KV School, Jipmer Campus on 20/11/2010.

A total of 20,425 patients were examined and procedures performed in 2010-2011:

<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>4,525</td>
</tr>
<tr>
<td>2.</td>
<td>Restorations</td>
<td>868</td>
</tr>
<tr>
<td>3.</td>
<td>Scaling</td>
<td>901</td>
</tr>
<tr>
<td>4.</td>
<td>Prosthesis/orthodontic appliance</td>
<td>257</td>
</tr>
<tr>
<td>5.</td>
<td>Root Canal Treatment</td>
<td>91</td>
</tr>
<tr>
<td>6.</td>
<td>Minor Oral Surgery</td>
<td>727</td>
</tr>
<tr>
<td>7.</td>
<td>Major Oral &amp; Maxillofacial Surgery</td>
<td>51</td>
</tr>
<tr>
<td>8.</td>
<td>Emergencies</td>
<td>507</td>
</tr>
</tbody>
</table>

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. B. Krishnan, Assistant Professor

1. Served as Examinations Supervisor during the conduct of JIPMER MD/MS entrance examinations in February 2011.
2. Was a peer reviewer for journal of Pharmacology and Pharmacotherapeutics, India.
3. The Department of Dentistry bagged 3rd place in “BEST OPD” awarded on “HOSPITAL DAY CELEBRATIONS”.

JIPMER 2010-2011 / 182
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:

1. Textbook of Dermatology, Venereology & Leprology,
2. Essentials in Dermatology with MCQs
3. 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. Dermatosurgery 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. sponsored workshop to train teachers of Leprosy Training Centres, 1978
- W.H.O. sponsored workshop in Leprosy, 1979
- W.H.O. workshop on Epidemiology and control of Leprosy, 1st-7th December 1981
- 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 five MD postgraduates in Dermatology, Venereology and Leprology.

CONTINUING MEDICAL EDUCATION PROGRAMS

Dr. DM Thappa
• Dr. D.M. Thappa was the chairperson for the scientific committee for the Annual Conference of IADVL Branch, Pondicherry in 2010-11.
• The Department of Dermatology & STD organized One-Day Laser Workshop by Prof. Nicola Zerbinati, Professor of Dermatology, Insubria University, Varese and Coomo, Italy at JIPMER Auditorium on 15th September 2010 in collaboration with Timpac Health Care Pvt. Ltd., New Delhi.
• Dr. D.M. Thappa attended CME on STD & HIV under Indian Association for the Study of Sexually Transmitted Diseases & AIDS, Department of STD & Microbiology, Govt. Stanley Medical College, Chennai and The Tamil Nadu Dr. M.G.R. Medical University on 21.07.2010 at Modernized Seminar Hall, Govt. Stanley Medical College, Chennai. He delivered a guest lecture on “How to write a scientific paper”.
• Dr. D.M. Thappa attended CME at M.S. Ramaiah Medical College at Bangalore on 10.10.10 as a Guest Lecturer. He talked on “Blistering disorders in ICU settings” and participated in a panel discussion.
• Dr. D.M Thappa attended STI/RTI Regional Workshop at Hyderabad from 29th to 30th October 2010.

Dr. TJ Jaisankar
• The Department of Dermatology & STD organized One-Day Laser Workshop by Prof. Nicola Zerbinati, Professor of Dermatology, Insubria University, Varese and Coomo, Italy at JIPMER Auditorium on 15th September 2010 in collaboration with Timpac Health Care Pvt. Ltd., New Delhi.
Dr. Laxmisha Chandrashekar

• The Department of Dermatology & STD organized One-Day Laser Workshop by Prof. Nicola Zerbinati, Professor of Dermatology, Insubria University, Varese and Coomo, Italy at JIPMER Auditorium on 15th September 2010 in collaboration with Timpac Health Care Pvt. Ltd., New Delhi.

• Dr. Laxmisha Chandrashekar attended the 60th National teachers training course conducted by the Department of Medical Education at JIPMER, Pondicherry from 15th-25th September 2010.

• Dr. Laxmisha Chandrashekar, attended CME at M.S. Ramaiah Medical College at Bangalore on 10.10.10 as a Guest Lecturer. He talked on “ICU set up in dermatology” and “Pulse therapy in children”.

• Dr. Laxmisha Chandrashekar attended CME – evidence based dermatology organized by the Tamil Nadu branch of IADVL at Chennai on the 29th October 2010 as a guest lecturer. He talked on “Atopic dermatitis-disease control today, disease modification tomorrow”.

• Dr. Laxmisha Chandrashekar was the organizing secretary for the Annual Conference of IADVL Branch, Pondicherry in 2010-11.

• Dr. Laxmisha Chandrashekar attended the hands-on workshop on laboratory medicine conducted by the moving academy of medicine and biomedicine at Pune from 10th to 15th January 2011.

• Dr. Laxmisha Chandrashekar attended the Workshop as a participant on protocol development for a Cochrane Systematic Review held at the Christian Medical College, Vellore from February 7-11, 2011.

CONFERENCES

National

Dr. DM Thappa

• The 20th Annual Conference of IADVL – Pondicherry Branch was held at Hotel Annamalai International on 12.12.2010. Dr. D.M. Thappa was the Chairperson-in-Charge of the scientific committee.

• Dr. D.M. Thappa attended 8th DERMAZONE EAST 2010 Conference at Rajgir, Bihar from 17th to 19th of December 2010 and delivered a guest lecture on “Critical Care in Dermatology”.

• Dr. D.M. Thappa and three postgraduates of the department attended the DERMACON 2011 – 39th National Conference of Indian Association of Dermatologists, Venereologists and Leprologists at Gurgaon, Haryana held from 3rd to 6th of February 2011.

• Dr. D.M. Thappa being Editor-in-Chief of Indian Journal of Dermatology, Venereology and Leprology attended various association meetings and inauguration function. He delivered a guest lecture on “Oral blistering diseases – A Dermatologist’s perspective” and chaired a
session of IADVL Neutrogena Oration on “An integrative treatment for lymphatic filariasis lower limb lymphoedema” by Dr. S.R. Narahari. He was one of the panelists in the panel discussion on “Galderma Acne Symposium – Practical Insights in Acne (Case studies and Panel Discussion) – Moderated” by Dr. Raj Kubba.

International

- Dr. D.M. Thappa visited Kuwait from 18th to 22nd October 2010. During his visit he was invited to deliver a guest lecture on “Autoimmune connective tissue disorders in children: An over view” in Kuwait Pediatric Dermatology Symposium 2010 from 19th to 21st October 2010 at Kuwait.
- Dr. D.M. Thappa visited Kuwait from 17th to 21st January 2011. During his visit he was asked to deliver a guest lecture on “Management of psoriasis with conventional treatment” in Kuwait Derma Update and Lawyer Conference II held from 18th to 20th January 2011 at Arraya Ballroom, Courtyard Marriott Hotel, Kuwait.
- Dr. D.M. Thappa visited Nepal from 28th to 31st March 2011. During his visit he was invited as a Resource Person and faculty in the CME on Sexually Transmitted Infections: Its impact on HIV (Minor STIs burden with clinical emphasis on presentation among HIV patients) in Nepal conducted by the Department of Dermatology & Venereology at B.P. Koirala Institute of Health Sciences, Dharan, Nepal.

Dr. T.J. Jaisankar

- Dr. TJ Jaisankar attended Hair India 2010 – Ist International Congress on Trichology at Mamallapuram from 3rd to 5th September 2010.
- Dr. TJ Jaisankar, attended the 20th Annual Conference of IADVL – Pondicherry Branch held at Hotel Annamalai International on 12.12.2010.

Dr. Laxmisha Chandrashekar

- Dr. Laxmisha Chandrashekar, attended the 34th National Conference of Indian Association for the Study of Sexually transmitted Diseases (ASTICON-2010) at Vijayawada from 22nd to 24th October 2010. He conducted a quiz programme at the conference.
- Dr. Laxmisha Chandrashekar, Assistant Professor of Dermatology & STD, JIPMER was the organizing secretary.

RESEARCH PROJECTS

A. Funded Projects

Ongoing

- Dermoscopic study of hair shaft disorders and alopecias from a tertiary care centre in South India. Funded by JIPMER for 2 years (2010-2012). Funds: Rs.80, 000.

B. Departmental Projects

- 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.

Ongoing
• 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.
• Clinical and laboratory study of skin and soft tissue infections caused by staphylococcus aureus and its susceptibility to antibiotics with particular reference to mupirocin and fusidic acid – Dr. Priya Bishnoi.
• A descriptive study of periorbital dermatoses-Dr. Laxman Besra.
• Dermoscopic study of hair shaft disorders and alopecias from tertiary care centre in South India.- Dr. Nishant Ghodake.
• Mongolian spots in the newborns: A prospective study – Dr. Divya Gupta.
• Dermoscopic evaluation of a response to an intralesional corticosteroid in the treatment of alopecia areata-Dr. Shikhar Ganjoo.

C. Collaborative Projects

Ongoing
• Characterisation of various markers of nitroso-oxidative and cellular stress and their response to oral minipulse therapy in non segmental vitiligo – Dr. Laxmisha Chandrashekar.
• Evaluation of the degree of platelet activation based on platelet indices and platelet activation marker soluble P-selectin in psoriasis-Dr. Laxmisha Chandrashekar.
• Efficacy of autologous platelet rich fibrin over moist sterile saline dressing in chronic trophic ulcers in Hansen’s disease patients-A randomized control trial – Dr. Divya Gupta.
• Evaluation of platelet activation based on platelet indices, platelet aggregability, soluble-P selectin and platelet oxidative stress in chronic urticaria- Dr. Laxmisha Chandrashekar.

PUBLICATIONS

A. Journals


JIPMER 2010-2011 / 187


12. Sanmarkan AD, Sori T, Thappa DM, Jaisankar TJ. Retrospective analysis of


B. Books

- Dr. D.M. Thappa is an Editor-in-Chief for the Indian Clinical Updates – 3, 4 & 5 Dermatology, Wiley Blackwell Publications.
PATIENT CARE SERVICES

A. Clinical

The department had an OPD attendance of 63660 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-surgery, PUVA therapy and cryosurgery. During the period from 01.04.2010 to 31.03.2011 a total of 4588 patients attended FUC clinic and 3405 patients attended Leprosy clinic. A total number of 626 patients were treated as in-patient at ward 33 and at 02 ward.

B. Laboratory

<table>
<thead>
<tr>
<th>Test</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Registered</td>
<td>9218</td>
</tr>
<tr>
<td>1. KOH Test</td>
<td>4452</td>
</tr>
<tr>
<td>2. Gram Smear</td>
<td>1277</td>
</tr>
<tr>
<td>3. Tzanck Smear</td>
<td>814</td>
</tr>
<tr>
<td>4. Slit Skin Smear</td>
<td>445</td>
</tr>
<tr>
<td>5. Hair Root Examination</td>
<td>142</td>
</tr>
<tr>
<td>6. Nail clipping</td>
<td>558</td>
</tr>
<tr>
<td>7. Ziel Neilsen Stain</td>
<td>139</td>
</tr>
<tr>
<td>8. Oilmount Examination</td>
<td>66</td>
</tr>
<tr>
<td>9. Wet Mount Examination</td>
<td>140</td>
</tr>
<tr>
<td>10. Hair Shaft Examination</td>
<td>25</td>
</tr>
<tr>
<td>11. Urine Routine Investigations</td>
<td>529</td>
</tr>
<tr>
<td>12. Stools Routine Investigations</td>
<td>527</td>
</tr>
<tr>
<td>13. Stool for occult blood</td>
<td>50</td>
</tr>
<tr>
<td>14. Hb</td>
<td>24</td>
</tr>
<tr>
<td>15. ESR</td>
<td>30</td>
</tr>
</tbody>
</table>

AWARDS, HONOURS AND SIGNIFICANT EVENTS:

Dr. DM Thappa

1. Dr. DM Thappa is the Editor-in-Chief of Indian Journal of Dermatology, Venereology & Leprology – published 6 issues in 2010.

2. Honorary Diploma in STDs/AIDS was awarded to him by Consortium of Thai Training Institutes for STDs and AIDS (COTTISA), Department of Disease Control (DDC), MoPH, Thailand, Asian College of Sexual Health (ACOSH) on 6th May 2010.


JIPMER 2010-2011 / 189
4. Member Editorial Board of Indian Journal of Sexually Transmitted Diseases & AIDS.

5. Editorial Advisory Board Member of Indian Journal of Dermatology 2007 onwards and Indian Dermatology Online Journal.

6. Dr. DM Thappa was Member of Selection Committee of the All India Institute of Medical Sciences, New Delhi.

7. Dr. DM Thappa is the fellow International Medical sciences Academy, Member National Academy of Medical Sciences, 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), member of International Society of Dermatology, member of Society for Pediatric Dermatology, and member European Academy of Dermatology and Venereology.

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.

Dr. Laxmisha Chandrashekar

1. Referee for various journals such as Clinical and Experimental Dermatology, Archives of Dermatology and Archives of Internal Medicine.

2. 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.

ACADEMIC, ADMINISTRATION, FINANCE, CENTRAL FACILITIES, ETC.

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

Dr. DM Thappa, Professor and Head

- Inspector for National Board of Examination, New Delhi, 2005 onwards
- Inspector for Medical Council of India, New Delhi, 2009 onwards
- Examiner for M.D., D.D., and D.S.T.D. of TN Dr. MGR Medical University, Chennai (Madras); Rajiv Gandhi University of Health Sciences, Karnataka, Bangalore; Manipal Academy of Higher Education, Manipal; KUVEMPU University, Shimoga, Karnataka; Pondicherry University, Pondicherry; Mahtama Gandhi university, Kottyam; Gujarat University, Ahmedabad; Delhi University, Delhi; PGIMER, Chandigarh; AIIMS, New Delhi; West Bengal University of Health Sciences, Kolkata; Utkal University, Bhubaneshwar, Orissa; University of Mumbai; NTR University of Health Sciences, Vijayawada; KLE
University, Belgaum, Karnataka; Sri Ramchandra Medical College University, Porur, Chennai; University of Calicut, Calicut, Kerala; Maharashtra University of Health Sciences, Nashik; Diplomate National Board (DNB), New Delhi.

- Examiner cum PhD thesis evaluator for West Bengal University, Kolkata and TN Dr. MGR Medical University, Chennai (Madras)
- Postgraduate and PhD guide
- Member of JIPMER selection committee.

**Dr. TJ Jaisankar, Professor**

- Post graduate examiner – Pondicherry University and Diplomate National Board (DNB), New Delhi and thesis guide He is also the inspector for Medical Council of India, New Delhi.

**Dr. Laxmisha Chandrashekar**

- Post graduate guide

**SIGNIFICANT EVENTS IN THE DEPARTMENT**

1. Four postgraduates of this department attended 34th National Conference of Indian Association for the Study of Sexually transmitted Diseases (ASTICON-2010) at Vijayawada from 22nd to 24th October 2010.

   The following PGs won the following prizes in the conference:
   - The JIPMER Quiz team of Dr. Priya Cinna T. Durai and Dr. Sivaranjini.R., won second prize in the quiz competition.
   - Dr. Sivaranjini R, won first prize in Dr. Ranganathan award paper session for her paper presentation on “Clinico investigative study of vaginal discharge”

2. The 20th Annual Conference of IADVL – Pondicherry Branch was held at Hotel Annamalai International on 12.12.2010. The postgraduates participated in various programmes. The following papers were presented by postgraduates in award session.

   **Case Studies:**
   1. Psychosocial impact of cicatricial alopecia – Dr. Pratibha Pradhan
   2. Clinical and investigative study of chronic urticaria – Dr. M. Malathi
   3. A clinical study of dermatoses in diabetes to establish its markers – Dr. Dependra Kumar Timshina
   4. Spectrum of Seborrheic keratosis – A clinical and dermascopic study – Dr. Rajesh.G.

   In the case studies, Dr. M. Malathi, Junior Resident won the first prize and Dr. Dependra Kumar Timshina, Junior Resident won the second prize.
e-posters:

1. Giant genital seborrheic keratosis – Dr. Priya Cinna T. Durai
2. Tufted angioma of genitalia – Dr. M. Kokilavani In the e-posters, Dr. Priya Cinna T. Durai, Junior Resident won the second prize. The quiz was organized by Dr. P.P.S. Ranugha, Senior Resident, Department of Dermatology & STD, JIPMER. The team of Dr. Pratibha Pradhan, Junior Resident and Dr. Rajesh.G, Junior Resident from JIPMER won the second prize.
4. Dr. Pratibha Pradhan, III year PG presented a free paper on “A Clinico-pathological study of cicatricial alopecias and their psychosocial impact”.
5. Dr. Dependra Kumar Timshina and Dr. G. Rajesh presented two posters on “A clinical study of dermatoses in diabetes to establish its markers” and “Spectrum of seborrheic keratoses in South Indians: A clinical and dermoscopic study” respectively.
BACKGROUND INFORMATION OF THE DEPARTMENT

The division of Endocrinology functioned under Medicine department for short periods of time under Dr. Muthalagu and Dr. Sushil Kumar Gupta earlier in the past. The discipline got a new lease of life with establishment of Superspecialty Block and starting of department of Endocrinology under Professor Dr. Abdoul Hamide and Dr. Sadishkumar @ Kamalanathan in 2009. It is now in the forefront of management of endocrine and metabolic disorders in JIPMER catering to both inpatient as well as outpatient services.

The OPD services were increased to twice a week in August 2010. The department got the services of 2 senior residents in October 2010. It has currently 6 sanctioned beds in Superspecialty block. The department has periodic Endo-Nuclear Medicine and Radiology meets for furthering patient care and academics. The department offers specialist endocrine consultations to the whole Institute. The Department is poised for a great leap forward in terms of faculty, residents, services rendered and facilities available in time to come.

EDUCATIONAL COURSES

Undergraduate classes on Endocrinology topics and discussion with post graduates of various departments on Endocrinology related issues.

PATIENT CARE SERVICES

OPD Strength – 7,806

<table>
<thead>
<tr>
<th>Cases</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diabetes</td>
<td>798</td>
</tr>
<tr>
<td>Hypothyroidism</td>
<td>2,844</td>
</tr>
<tr>
<td>Thyrotoxicosis</td>
<td>1327</td>
</tr>
<tr>
<td>Pituitary disorders</td>
<td>157</td>
</tr>
<tr>
<td>Growth disorders and obesity</td>
<td>832</td>
</tr>
<tr>
<td>Adrenaldisorders</td>
<td>146</td>
</tr>
<tr>
<td>Hypogonadism</td>
<td>315</td>
</tr>
<tr>
<td>Bone metabolism</td>
<td>187</td>
</tr>
<tr>
<td>Others</td>
<td>1201</td>
</tr>
</tbody>
</table>

JIPMER 2010-2011 / 193
Inpatients- 226

<table>
<thead>
<tr>
<th>Cases</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diabetes</td>
<td>122</td>
</tr>
<tr>
<td>Pituitary</td>
<td>26</td>
</tr>
<tr>
<td>Adrenal</td>
<td>14</td>
</tr>
<tr>
<td>Thyroid</td>
<td>11</td>
</tr>
<tr>
<td>Bone metabolism</td>
<td>15</td>
</tr>
<tr>
<td>Others</td>
<td>38</td>
</tr>
</tbody>
</table>

Endocrinology department attended the Karaikal Outreach camp on 2.6.10 and 12.3.2011 and relevant health education given to the patients.

CONTINUING MEDICAL EDUCATION PROGRAMS

- Organised a CME on Thyroid disorders in collaboration with departments of Medicine and Nuclear Medicine in JIPMER on April 18, 2010.

- The Department organized a guest lecture “Overview of current lipid management” by Dr. Vasudevan R. Raghavan, director of Cardiometabolic Lipid clinic services, Scott & White Health Sciences Centre, Texas on 9th of August 2010.

- The Department also organized a guest lecture in JIPMER Scientific Society on “Dyslipidemia in Prediabetes and Diabetes” by Dr. Vasudevan R. Raghavan on 13th of August 2010.

- Organised a CME on Adolescent and Pediatric Endocrinology in collaboration with departments of Pediatrics and Medicine in JIPMER on 31st of October, 2010.

RESEARCH PROJECTS

**Ongoing**

Effects of gender on autonomic dysfunctions in hypothyroidism: correlation with blood pressure, BMI, immunological and inflammatory markers. (with department of Physiology)

- Clinical & laboratory profile and efficacy of Radioiodine therapy in patients with Graves’ disease. (with department of Medicine)

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

**Dr. Abdoul Hamide**

- Organising secretary for CME on Thyroid disorders held in Superspecialty Block, JIPMER on April 18, 2010.

- Organising secretary for CME on Pediatric and adolescent Endocrinology held in Superspecialty Block, JIPMER on October 31, 2010.
Dr. Sadish Kumar @ Kamalanathan

- Gave a talk on topic “Interpretation of thyroid function tests in clinical practice” in CME on Thyroid disorders held on April 18, 2010
- Gave a talk on topic “Approach to management of precocious puberty” in Pediatric and adolescent Endocrinology Update CME held on October 31, 2010
- Took part in interdepartmental discussion on sexual medicine in NTTC seminar Hall of JIPMER on 27/11/2010
- Attended Young Endocrinologist’s Conference 2010 in Hyderabad on 18th and 19th December 2010
- Presented a paper “Study of BMD in T2DM” in the AV Gandhi Award competition for excellence in Endocrinology held in Chennai.
- Gave a guest lecture in Sri Manakula Vinayagar Medical College, Puducherry on the topic “Maternal hypothyroidism”
- Invited as a peer reviewer for “Journal of Pharmacology and Pharmacotherapeutics”
  - Invited as a peer reviewer for “Indian Journal of Endocrinology and Metabolism”
  - Invited to participate and give expert concluding comments for Diabetes Day Celebrations held in Superspecialty Block, JIPMER.
BACKGROUND INFORMATION OF THE DEPARTMENT

The origin of the Department of Oto-Rhinolaryngology and 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. Hulligol 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 and 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 and 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 and 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 post-graduates 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 post graduate students includes weekly case presentation, seminars and journal clubs.
C. Other Courses

DHLS (Diploma in Hearing and Language Speech) course, of 1 year duration through e-mode the first of its kind in JIPMER (under IGNOU 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 centre from 2007. Three batches have already completed and the fourth batch during 2009-10 (16 candidate) has appeared for their final theory examination during May 2011 and results declared.

The fifth batch was admitted for the year 2011-2012. 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.

CONTINUING MEDICAL EDUCATION

Dr. S. Gopalakrishnan

- Delivered a guest lecture on the AOI, Puducherry Chapter inaugural function in April, 3, 2011.
- Delivered a guest lecture on “Stapedotomy - our experience” at A.O.I., Coimbatore Chapter held on 19/12/2010.
- Presented a paper on “Nasal endoscopy is including its extended applications” in the second meet of AOI, Puducherry chapter. Dec 17, 2010.
- Attended Coimbatore AOI Chapter as a Chief Guest to demonstrate two live surgeries of Stapedotomy in December, 2010.
- Attended “AHEAD - 2011” workshop held at Amrita Institute, Cochin in February, 2011.

Dr. Arun Alexander

- Presented a talk on “laryngeal cancers” in CME Conducted by RCC, JIPMER, Puducherry, on 14/11/2010.

Dr. Pradipta Kumar Parida

- Conducted a quiz programme in the third meet of AOI, Puducherry Chapter, on February, 18, 2011.
- Attended “AHEAD – 2011” workshop held at Amrita Institute, Cochin in February, 2011.

CONFERENCES

Dr. S. Gopalakrishnan

- Chaired a session on Laryngeal and Hypo-pharyngeal malignancies in the CME on “Head and Neck Cancers” held by RCC, JIPMER on 14/11/2010.
Dr. Arun Alexander

- Attended the National teacher training course at JIPMER Pondicherry in September 2010.
- Attended “International workshop on Laryngotraheal Surgery” at CMC Vellore on 15th and 16th November 2010.
- Attended a CME on “Antimicrobial resistance and preventions” conducted in April, 2011 at JIPMER.

Dr. Pradipta Kumar Parida

- Attended a CME on RNTCP held at JIPMER in March, 2011.
- Attended a CME on “Antimicrobial resistance and preventions” conducted in April, 2011 at JIPMER.
- Attended stapedotomy surgery at Coimbatore in 19/12/2010.

RESEARCH PROJECTS

Departmental Projects

Completed

- Dr. Nirmal @ Shanmugasundaram – A descriptive study of bronchial foreign bodies in children.
- Dr. Venkatraman R – The role of mitomycin – C in functional endoscopic sinus surgery.
- Dr. Vimal – Comparison of automated jet ventilation with assisted spontaneous ventilation in rigid bronchoscopy for Tracheobronchial foreign body removal in children.

Ongoing

- Dr. Santosh Kumar S – A comparative study of temporalis fascia graft and vein graft in myringoplasty.
- Dr. Venugopal – Role of diffusion weighted MR imaging in identification of residual cholesteatoma in post mastoidectomy patients.
- Dr. Sivaraman - Vestibular evoked myogenic potentials in patients with benign paroxysmal positional vertigo in South India.
- Dr. Arun Alexander - Evaluation of postoperative bleeding with application of autologous platelet rich plasma following hemithyroidectomy: a randomised control trial.
- Dr. Arun Alexander - Prospective study of audiological changes in patients treated with radiotherapy for head and neck cancer.
- Dr. Pradipta Kumar Parida – Prospective study of thyroid profile in patients post head and neck radiotherapy patients.
• Dr Prabhu – Cyto histopathological correlation of the follicular lesions of thyroid.
• Dr Sriram – Stroboscopic analysis of vocal cord in post op intubation cases.
• Dr Niraimathi – Cyto histopathologic correlation of the lesions of parotid.

PUBLICATIONS

A. Journals

PATIENT CARE SERVICES

The Department of ENT is running regular OPD services in all working days from 8.30 am to with the daily OPD attendance of approximately 275-300. Besides regular OPD, a special cancer clinic is run on Tuesday afternoon wherein the average OPD attendance is 80 (approximately). In patient care services are provided by the Department of ENT with the bed strength of 33.(14 male and 11 female and post operative ward 8). The bed occupancy rate is approximately 97.38% last year with turnover 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 and emergency services range between 150-200 per month.

With the addition of new sophisticated equipments such as Video monitored nasal endoscopic equipments with the documentation facilities, Binocular operating microscope, Microdebrider,—
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 surgery with highly gratifying results.

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr. S Gopalakrishnan has been the Founder and president of AOI Puducherry chapter, 2011.

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

- Dr. S Gopalakrishnan had acted as member of Ethical committee and member of selection committee of Group A posts at AIISH, Mysore.
- At the institute level, he has been acted as member of the Hospital Purchase Committee and Operating Services Monitoring Efficiency Committee.
- Dr. S Gopalakrishnan has been acting as the local co-ordinator for Diploma in Hearing and Language Speech course, through e-mode conducted at JIPMER under the aegis of Host Institute of All India Institute of Speech and Hearing.
- He had acted as moderator for microteaching for postgraduate orientation program.
- He is the Founder, President of AOI Puducherry chapter in 2011.

SIGNIFICANT EVENTS IN THE DEPARTMENT

- Establishment of LASER (carbon dioxide), diode laser in the department of ENT to use the same in various endoscopic procedures.
- Establishment of VEMP as an investigation for Neuro-otology disorder in 2011.
- Establishment of latest version of OAE, BERA in audiological profile of investigations.
- DHLS (Diploma in Hearing and Language Speech) course, (under IGNOU recognized by RCI) conducted at JIPMER under the aegis of Host Institute of All India Institute of Speech and Hearing (AIISH), Mysore at JIPMER Study centre from 2007 has successfully entered the fifth year.
- Dr. Santhosh Kumar, PG resident won the quiz programme conducted on 18/02/2011 at AOI Puducherry Chapter, third meet.
- Dr. Kiruba Shankar, presented “Comparative study of Dry and wet Temporalis fascia in Myringoplasty” in the 63rd Annual Conference of AOI held a Chennai on 6-9th January, 2011.
- Dr. Nirmal presented a paper on “a Descriptive study of Tracheo-bronchial foreign bodies on children” in February, 18, 2011 in the third meet of AOI, Puducherry chapter.
- Dr. Nirmal, Dr. Kiruba Shankar, Dr. Satvinder Singh Bakshi, Dr. V. Venkataraman, attended 63rd Annual Conference of the Association of Otolaryngologists of India on 6/9/2011.
- Dr. Nirmal, Dr. V. Venkataraman, attended temporal bone workshop held at MMC, Chennai in January, 2011.
- Dr. Satvinder Singh Bakshi, Dr. Santhosh Kumar, attended a CME programme on HIV conducted at JIPMER in March, 2011.

JIPMER 2010-2011/200
8.10 Forensic Medicine and Toxicology

Additional Medical Superintendent & Acting Head
M.J.E. Ambroise

Assistant Professors
Kusa Kumar Shaha Siddhartha Das.

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 Sarif 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 are two assistant professors, Dr Kusa Kumar Shaha and Dr Siddhartha Das in the department. In 2010, two postgraduate seats per year have been approved for MD in forensic medicine. With effect from 1999, the medico legal postmortem was brought under the control of the Medical Superintendent till date.

EDUCATIONAL COURSES

A. Undergraduate courses:

Classes / teaching are undertaken for undergraduate students (3rd, 4th and 5th semester) this include theory and practical classes of about 150 hours and demonstration of 10 autopsies of different causes to the students during practical hours. Their performance is assessed by the faculty by the marks obtained in the periodic/scheduled tests. The department is also imparting training in EMT and MRD/MRT students.

B. Postgraduate courses:

Postgraduate degree course (M. D in Forensic Medicine) was started in 2010 with yearly intake of 02 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 post graduate students includes weekly case presentations, seminars/journal clubs once in two weeks. The PG residents get trained in the medico legal autopsy work under the supervision of the faculty members. They also get their training in the research methodologies, when they carry out their PG dissertation work after obtaining the approval from PG committee and Ethical Committee.

CONFERENCES

Dr. Siddhartha Das had attended with Dr Ambika Prasad Patra, Senior Resident and Dr. Manigandan PG Resident, the South India Medico Legal Association (SIMLA) conference from 02nd Sep to 04th Sep 2011 at Calicut Medical College, Calicut and presented papers.

- Correlation between the type of ligature material used and neck findings in asphyxiation due to suicidal hanging – by Dr Siddhartha Das.
- Impulsive Frotteurism – A Case Report by Dr. Ambika Prasad Patra.

JIPMER 2010-2011/201
RESEARCH PROJECTS

Departmental Projects

Ongoing

- Thermal Burn: An Epidemiological Prospective Study.
- Epidemiology of Suicide by Hanging in Pondicherry.
- An epidemiological study of road traffic accident victims in medicolegal autopsies.
- Pattern of fatal head injuries due to vehicular accidents in Pondicherry.
- Snake bite death.
- Death due to Hymenoptera sting – A case report.
- High Voltage suicidal electrocution with multiple exit wounds – A case report.
- Socio demographic profile of poisoning cases.

Completed

- A Study of Burn Deaths in Pondicherry.
- Stature estimation from hand in length in Adults.

PUBLICATIONS

Journals


PATIENT CARE SERVICES

- The department conducted Medico Legal Postmortem and is around 627 till 12th Oct 2011.
- Doctors of the department also attend Court as experts.
- Render medico legal consultation and expert opinion.

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr Kusa Kumar Shaha

1. Life membership of Indian Society of Toxicology.
2. Life membership of South India Medico Legal Association (SIMLA).
3. Evaluated the following MD theses in Forensic Medicine.
• Analytical study of suicidal deaths in age group of 12-21 years in and around Secunderabad area during the period of 2008-2010

• Histopathological study of carotid artery trauma in cases deaths due to Strangulation.

• A comprehensive and analytical study of deaths in case of women harassment in and around Guntur.

• A study of deaths due to drowning in and around Visakhapatnam with special reference to sea water drowning.

• Age estimation with special reference to second molar tooth and correlation with the skeletal age.

• Changing trends (patterns) of human poisoning in Tirupati region – A five year study from 25th Jan 2005 to 24th Jan 2010.

Dr. Siddhartha Das

A. Life membership of South India Medico Legal Association (SIMLA).

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr Kusa Kumar Shaha

• Examiner for MBBS at different state Universities like Pondicherry, Tamilnadu, Andhra Pradesh, Karnataka and Kerala.

• Examiner for MD for Dr NTR University, Andhra Pradesh.

Dr Siddhartha Das

• Examiner for MBBS at Dr NTR University, Andhra Pradesh.

SIGNIFICANT EVENTS IN THE DEPARTMENT

• Started Postgraduate MD course with two intake per year from 2011.
BACKGROUND INFORMATION OF THE DEPARTMENT

As per the Institute orders since 1st January 2011, an independent and full-fledged Department of Medical Biometrics and Informatics has become operational along with initiation of the process of upgrading the existing infrastructure and facilities. It was 35 years back in 1975, the Institute invited discussions in various apex forums for establishing the discipline of Biostatistics by creating an independent Department of Medical Biometrics, accordingly the 15th Institute Advisory Committee meeting held in March, 1975, had recommended pooling all the Statisticians in the institute and bringing them under 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 medical Postgraduates & 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.

EDUCATIONAL COURSES

Though the Department of Medical Biometrics and Informatics 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, had agreed in principle and subsequently, in the third meeting held in November 2010, approved the initiation of PhD programme and Post Graduate courses in Medical Biometrics (Biostatistics) at the earliest, soon after the creation of essential faculty and staff positions, apart from establishing the Department, with adequate infrastructure and facilities.

The faculty in the Department is undertaking entire teaching in Biostatistics & Demography for MBBS; Biostatistics for B.Sc. (MLT) & B.Sc. Nursing students and also for MRO/MRT trainees; apart from teaching Research Methodology and Biostatistics to medical Postgraduates and M.Sc. Medical Biochemistry students.
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.

The Department has taken the initiative to organize the first seminar on its own on “Essentials of Research Designs; Sampling and methods in Projects formulation” during the month of March, 2011. It was considered essential as an immediate measure to help institute faculty and research oriented residents doctors and staff in strengthening their project writing abilities and skills. It was decided to organize a more elaborate programme sometime in September, 2011, to help prospective Research-Investigators of the project-proposals to be submitted to fifth SAC meeting of the institute.

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

- Was invited to attend the ‘mid-year review’ Governing Council Meeting of IAPSM, as its executive member held at Centre for Community Medicine (CCM), AIIMS, New Delhi, on 29th October, 2010.
- Was invited to attend the 28th Annual National conference of Indian Society for Medical Statistics (ISMS) held at National Institute of Health & Family Welfare (NIHFW), New Delhi, between 11th and 13th November 2010 and to act as resource person to help coordination and deliver a talk on plan design and implementation aspects of the pre-conference workshop on “Health Systems Research (HSR)” held on 10th November 2010. Attended the Executive Council Meeting of ISMS as its ex–officio member as the immediate past President of the Society. Had presented a paper entitled as “Enthusiasm of Medical Faculty in Teaching Research Methodology and Biostatistics” and Chaired the technical session on “HIV & AIDS and RTI & STI”.
- Was invited as a resource faculty to conduct the workshop on “Research Methodology” for medical postgraduates held on February 11th and 12th February, 2011; organized by Department of Clinical Research and Bioethics, PSG Institute of Medical Sciences and Research, Coimbatore. Had delivered talks on ‘Data Collection Instruments’; ‘Designing the Questionnaire’ & ‘Sampling Methods’ and ‘Estimating the Sample Size and Power of the Study’; apart from coordinating the sessions and holding “question – answer hour”.
- Was invited to attend the 38th Annual National conference of Indian Association of Preventive & Social Medicine (IAPSM) held at MKCG Medical College, Berhampur, Orissa, between 21 and 24th February, 2011 and to act as resource person in the pre-conference workshop on “Meta-analysis” held on 21st February, 2011, and to chair the plenary session on “Tuberculosis Control: A Decade After Revision”. Had also attended the Governing Council
Meeting of IAPSM, on 22nd February, 2011, as its executive member and acted as a member of the committee to adjudge IAPSM fellowship and annual oration awards, apart from being a judge for “Ford Foundation research grant for PSM Postgraduates”.

- Was invited as a resource faculty to attend the National Conference on Statistical Inference, Sampling Techniques and Related Areas; organized by Department of Statistics and Operational Research, Aligarh Muslim University (AMU), Aligarh, (Uttar-Pradesh), during March 27-28, 2011. Delivered an invited talk entitled “Sampling in Medical and Health Research - continued to be an issue of challenging interest to STATISTICIANS” and presided over the inaugural session of invited talks by four eminent Statisticians, including Prof. Bikas K Sinha, ISI, Calcutta, a member of National Statistical Commission.

Mr. K.T. Harichandrakumar

- Participated as a resource person for the lecture series on Biostatistics for the postgraduate students held in the Department of Statistical Sciences, Kannur University, Kerala, on 8th & 9th July 2010, and delivered talks on ‘Statistical Methods in Medical Research’ and on ‘Survival Analysis’.

- Attended 28th Annual National conference of Indian Society for Medical Statistics (ISMS) held at NIHFW, New Delhi, between 11th and 13th November 2010, and presented a paper entitled as “Trend of Mosquito Borne Diseases in India”.

- Attended the International Conference on Actuarial Statistics, Biostatistics and Stochastic Modeling at Department of Statistical Sciences, Kannur University, Kerala, during 10-14 January 2011 and presented a paper entitled as “Structural Equations Modeling in Medical Research”. Was also invited to act as a resource person in the pre-conference workshop and delivered a talk on “Design and Analysis of Epidemiological Studies”.

- Attended the National Conference on Statistics for Twenty-First Century and the Annual Conference of Kerala Statistical Association at Department of Statistics, Kerala University, Trivandrum, during 17th to 19th March 2011 and presented a paper entitled as “Design and Analysis of Cluster Randomised Trials”.

RESEARCH PROJECTS

Funded Projects

**Completed**

**Dr. Ajit Sahai**

1. W.H.O. funded research project on Community Health Centers ‘A Case Study on Utilisation of Facilities and Services Provided by Community Health Centers’. (1998)


**A. Departmental Projects**

JIPMER 2010-2011 / 206
**Ongoing**

**Mr. K.T. Harichandrakumar**

1. Differences in Socio-economic and demographic factors in different stages of Breast and Cervical Cancer at diagnosis. (2010-12)

2. Health Related Quality of Life (HRQoL) in Patients with Lymphatic Filariasis. (2010-12)

**C. Collaborative Projects**

**Completed**

**Dr. Ajit Sahai**

Five (5) Research Projects and Sixty (60) PG Theses of various Departments of the institute.

**Ongoing**

**Dr. Ajit Sahai**

Three (3) Research Projects; - with Departments of Physiology and Anaesthesiology.

**Mr. K.T. Harichandrakumar**

Ten (10) Research Projects; and Five (5) PG Theses with Departments of Physiology, Biochemistry, Obstetrics & Gynecology, Radio-diagnosis, Skin & STD, Dentistry, Cardiology, Surgery and Paediatrics. *(Please refer to respective Department pages)*

**PUBLICATIONS**

**A. Journals**


**B. Book Chapters**


**AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS**

**Dr. Ajit Sahai**

1. Had the honor of being the President (2007 & 2008) of Indian Society for Medical Statistics (ISMS); and its Executive Committee member for the past 9 years (2002-2011).

2. Founder President of “Spirituality and Health Academy of India” (2001-11).

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

JIPMER 2010-2011 / 207
Social Medicine, had been elected and honored as Fellow of, IAPSM (2004); ISMS (2005); and IPHA (2006). In continuity with 2002-04 membership - A life member of International Epidemiological Association (IEA) since January, 2011.

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 till 2011.

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; and 2010-11.

6. As a member of International Biometric Society IBS (IR) since 2001, was elected as an Executive member for two terms continuous – 2009-12.

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. Ajit Sahai

Have been identified and assigned various administrative responsibilities of the institute. These assignments included confidential tasks like conducting entrance examinations; selections; maintaining liaisons with senior administrative authorities; in depth involvement in severe & sensitive disciplinary decision making and related follow-up actions, coordination tasks and preparation of reports.

1. Had been charged with additional administrative responsibilities, such as;

   i. Faculty (Administration); Till 05-10-2010.

   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 apex institutions and helping head of the Institution in organization of various institute level apex decision making committees' meetings; such as; IB, GB, SFC, SSC, SAC etc.

   ii. Faculty-in-charge & Consultant of ‘Administrative Information System’ (AIS) since its inception in 1998; and

   iii. Vice-Chairman of AIS Advisory Committee; Till 05-10-2010.

   iv. Member of CRAFT Advisory Committee.

   v. Member Telemedicine Committee.

   vi. Faculty-in-charge of Central Library, w.e.f. 01-08-2004. Till 05-10-2010.

   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.

   vii. Faculty-in-charge of Hindi Cell.
2. 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. 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. Had 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.

5. Currently a member of Scientific Advisory Committee (SAC) of JIPMER. Have attended 3rd and 4th meetings of JSAC, held during 2010-11; each loaded with more than 50 Research Project proposals for presentation and discussions that continued for two full-days’ duration for both the JSACs, followed by subsequent supplementary meetings.

6. Have been serving as Editorial Adviser/Consultant and Reviewer for Journals & Bulletins of various academic societies such as; IJMR, ISMS, IJCM & IJPH etc.

7. Have been on the Editorial Board, as professional advisor, 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);

8.12 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 & Head of Biochemistry.
4. Dr. Santosh Kumar, Professor & Head 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. B. Gitanjali, Professor of Pharmacology.
9. Dr. Debdutta Basu, Professor of Pathology.
10. Dr. M. Bala Soudarssanane, Professor & Head of P&SM.
11. Dr. R.P. Swaminathan, Professor of Medicine.
12. Mr. Z. Zayapragassarazan, Assistant Professor of Educational Technology.

II. Interns Orientation Program on Quality Care

Core Group
1. Dr. P.H. Ananthanarayanan, Professor & Head of Biochemistry.
2. Dr. Santosh Kumar, Professor & Head 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.
6. Dr. T. Kadhiravan, Assistant Professor of Medicine.
7. Dr. Gautam Roy, Professor of PSM.
8. Dr. D. Kadambari, Additional Professor of Surgery.
9. Dr. Dasari Papa, Additional Professor of Obstetrics & Gynaecology.
10. Dr. Debdutta Basu, Additional Professor of Pathology.
11. Dr. Soundravally, Assistant Professor of Biochemistry.

JIPMER 2010-2011 / 210
12. Dr. Jharna Mandal, Assistant Professor of Microbiology.
13. Dr. Abdoul Hamide, Professor of Medicine.
14. Dr. R.P. Swaminathan, Professor of Medicine.
15. Dr. S. Mahadevan, Professor of Pediatrics.
16. Dr. R. Raveendran, Professor of Pharmacology.
17. Dr. Dhanapathy, H, Assistant Professor of Nuclear Medicine.
18. Dr. Anita Rastogi, Chief Medical Officer (SAG).
19. Dr. Betsy Mathai, Chief Medical Officer (NFSG).
20. Mr. Z. Zayapragassarazan, Asst. Prof. Educational Technology.

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

Core Group
Dr. Santosh Kumar, Head of Medical Education (Coordinator)

Research Methodology, Research Protocol Writing & EBM
1. Dr. Santosh Kumar, Head of Medical Education, Coordinator.
2. Dr. Ajit Sahai, Professor & Head of Biometrics.
3. Dr. R.P. Swaminathan, Professor of Medicine.
4. Dr. S. Mahadevan, Professor of Pediatrics.
5. Dr. R. Raveendran, Professor of Pharmacology.
6. Dr. Gautam Roy, Professor of P&SM.
7. Dr. T. Kadhiravan, Asst. Prof. of Medicine.
8. Dr. D. Kadambari, Addl. Prof. of Surgery.

Ethics
1. Dr. N. Biswal, Professor of Paediatrics, Coordinator.
2. Dr. Latha Chaturvedula, Additional Professor of Obstetrics & Gynaecology.
3. Dr. D. Kadambari, Additional Professor of Surgery.
4. Dr. T. Kadhiravan, Asst. Professor of Medicine.
5. Dr. (Mrs) Vani Adithan.

Micro Training on Journal Club
1. Dr. B. Vishnu Bhat, Professor of Paediatrics, Coordinator.
2. Mr. Z. Zayaprgassarazan, Asst. Prof. Educational Technology.
3. All Heads of P.G. Training Departments.
IV. Third year Postgraduate Orientation Programme on Research Methodology

Core Group
1. Dr. P.H. Ananthanarayanan, Professor & Head of Biochemistry.
2. Dr. Santosh Kumar, Professor & Head of Medical Education (Coordinator)
3. Dr. Ajit Sahai, Professor & Head of Biometrics.
4. Dr. R.P. Swaminathan, Professor of Medicine.
5. Dr. S. Mahadevan, Professor of Paediatrics.
6. Dr. R. Raveendran, Additional Professor of Pharmacology.
7. Dr. Gautam Roy, Professor of P&SM.
8. Dr. T. Kadhavin, Assistant Professor of Medicine.
10. Dr. A. Surendran, Senior Resident, Dept. of Pharmacology.

V. JIPMER News Editorial Board

Editor-in-chief
1. Dr. K.S.V.K. Subba Rao, Director.

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

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 & Head of Medical Education & Urology.

Editorial Board
1. Dr. P.H. Ananthanarayanan, Professor & Head 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. B. Gitanjali, Professor of Pharmacology.
6. Dr. Debudutta Basu, Professor of Pathology.
7. Dr. M.Bala Soudarssanane, Professor & Head of P&SM.
8. Dr. R.P. Swaminathan, Professor of Medicine.
9. Mr. Z. Zayapragassarazan, Assistant Professor of Educational Technology.

JIPMER 2010-2011/212
VII. JIPMER Annual Report Editorial Board

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

Members
1. Dr. Santosh Kumar, Professor & Head, Departments of Urology and Medical Education.
2. Dr. C. Adithan, Professor & Head, Department of Pharmacology.
3. Dr. Ajit Sahai, Director-Professor of Biometrics & Faculty (Administration).
4. Dr. A. Tumbanatham, Deputy Medical Superintendent.
5. Dr. G.K. Pal, Additional Professor, Department of Physiology.
6. Dr. D.M. Thappa, Additional Professor & Head, Department of Dermatology & STD.
7. Dr. Sunil K. Narayan, Additional Professor & Head, Department of Neurology.
8. Mr. Z. Zayapragassarazan, Assistant Professor of Educational Technology (Medical Education).

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 two such National Courses have been conducted and a total of 1405 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, Chidambaram; 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.

JIPMER 2010-2011/213
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).
   - 61st National Course on Educational Science for Teachers of Health Professionals was held from September 15 to 25, 2010 at JIPMER, Pondicherry.
   - 62nd National Course on Educational Science for Teachers of Health Professionals was held from February 9 to 19, 2011 at JIPMER, Pondicherry.

2. Interns Orientation Programme on Quality Care
   - Interns Orientation Programme on Quality Care for the year 2011 was held from January 3 to 5, 2011 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 2010 was held on July 29 and 30 and August 2, 2010 at JIPMER, Pondicherry.

4. Third Year Postgraduate Orientation Programme on Research Methodology.
   - Third Year Postgraduate Orientation programme on Research Methodology for the year 2010 was held on April 12,13,15 and 16, 2010 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 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 2010 – 2012

<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>21.04.2010</td>
<td>2.30 pm – 3.30 pm</td>
<td>Clinical Society Meeting of Dept. of Surgery.</td>
<td>Sri Ramachandra Medical College, Chennai.</td>
<td>Paediatrics and ENT.</td>
</tr>
<tr>
<td>2.</td>
<td>05.8.2010</td>
<td>2 pm – 4 pm</td>
<td>Tele-education on Neuroradiology</td>
<td>Sri Chitra Tirunal Institute of Medical Sciences, Trivandrum.</td>
<td>Neurology</td>
</tr>
<tr>
<td>3.</td>
<td>19.8.2010</td>
<td>2 pm – 4 pm</td>
<td>Tele-education on Neuroradiology</td>
<td>Sri Chitra Tirunal Institute of Medical Sciences, Trivandrum.</td>
<td>Neurology</td>
</tr>
<tr>
<td>4.</td>
<td>02.9.2010</td>
<td>2 pm – 4 pm</td>
<td>Tele-education on Neuroradiology</td>
<td>Sri Chitra Tirunal Institute of Medical Sciences, Trivandrum.</td>
<td>Neurology</td>
</tr>
</tbody>
</table>

National Knowledge Network (NKN), JIPMER.

Nodal Officer
Dr. P.H. Ananthanarayanan, Professor & Head, Department of Biochemistry, JIPMER.

Convenor
Dr. Santosh Kumar, Professor & Head, Department of Medical Education, JIPMER.

Technical Officer
Mr. Z. Zayapragassarazan, Assistant professor of Educational Technology, Department of Medical Education, JIPMER.
Information Security Officer
Mrs. Barathi Balakumar, Technical Supervisor, Department of Medical Education, JIPMER.

E-learning and Tele Education

- A demonstration on the ‘Integrated E-learning Software Suite’ was done by the software developers Mr. Benjamin Rajarathinam and Mr. Sai Prasath of DSRC, Chennai, on 28.4.2010 at 3 pm - 4.30 pm in the NTTC Seminar Hall.
- A Scientific Speaker Session – Webcast on the topic, “Emerging Trends in Neonatal Care & Nutrition” by Prof. Ekhard E. Ziegler, Professor of Pediatrics, University of Iowa, USA was organized in collaboration with Nestle’ India Limited and Department of Pediatrics, JIPMER in the NTTC Seminar Hall on 15.02.2011 from 1.45 pm to 3.30 pm.

CONFERENCES
Mr. Z. Zayapragassarazan

- Presented a paper on “OSCE/OSPE for Character Building of Undergraduate Medical Education Students” in the National Conference on “Character Based Teacher Education (CBTE-2010)” organized by the College of Education, Alagappa University, Karaikudi, Tamilnadu on 29th October 2010.
- Chaired a session in the National Conference on “Character Based Teacher Education (CBTE-2010)” organized by the College of Education, Alagappa University, Karaikudi, Tamilnadu on 29th October 2010.
- Attended the 6th Annual Conference of the Telemedicine Society of India (TELEMEDICON’10) from 14-16 November 2010 at Bhubaneswar, Orissa.
- Presented a paper on “e-learning in Medical Education” in the National Conference on “Challenges of e-Resources in Education in the Present Scenario” organized by SCAD College of Education, Cheranmahadevi, Tirunelveli, on 17th & 18th December 2010.
- Attended the Workshop on Results Framework Document (RFD), Organised by the Performance Management Division, Cabinet Secretariat, on 22.02.2011 at Vigyan Bhawan, New Delhi.
- Attended the Technical Workshop for Technical officers / Nodal officers of National Knowledge Network (NKN) on 25th March 2011 at Delhi University, New Delhi.

RESEARCH PROJECTS

Departmental Projects

Ongoing

“Attitude of Health Profession Teachers and Students towards E-learning” by Mr. Z. Zayapragassarazan and Dr. Santosh Kumar.
PUBLICATIONS

The Department of Medical Education is actively involved in the organization and publication of the following:

1. **JIPMER Annual Report**

   The Director, JIPMER entrusted the preparation and publication of the JIPMER Annual Report to the Department of Medical Education which coordinated with the members of the editorial board and successfully brought out the First JIPMER Annual Report for the year 2009-10 which was tabled in the Parliament Winter Session 2010.

2. **JIPMER News**

   JIPMER News is a bimonthly which publishes information about clinical, research, teaching and training and other activities carried out by the departments, faculty and staff of JIPMER. Six issues were brought out during the year.

3. **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 alumni 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 2010 and March 2011.

**Journals**


**Books**


**AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS**

**Dr. Santosh Kumar**


6. Member of Telemedicine Programme Committee.

**Mr. Z. Zayapragassarazan**

1. Project staff for Telemedicine


3. Conducted classes on Telemedicine and Medical Tourism for students of Medical Records Technician Course and Medical Records Officer Course.

4. Involved in the preparation of Results Framework Document (RFD) for JIPMER.

5. Project staff of National Knowledge Network (NKN).

**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

**Mr. Z. Zayapragassarazan**

1. Officer in-charge of Central Library, JIPMER.

2. Officer-in-charge of stores of the Medical Education Department

3. In-charge of organizing Telemedicine Programmes

4. Member of the Technical Specification approval Committee for Central Library, JIPMER.

5. Technical Officer for National Knowledge Network (NKN), JIPMER.

6. Resource person for the Induction Level Training for the Newly Recruited Graduate Teachers Organized by the State Level Training Centre, Department of Education, Government of Puducherry.

7. Life Member of the Telemedicine Society of India

8. Member of Pondicherry Science Forum

9. Assisted Head of the Department in planning, organizing, administration and expediting the various programmes organized in the Department of Medical Education.
**8.13 Medical Gastroenterology**

<table>
<thead>
<tr>
<th>Professor &amp; Head</th>
<th>DKS Subrahmaniyam</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assistant Professor</td>
<td>CP Lakshmi</td>
</tr>
</tbody>
</table>

**BACKGROUND INFORMATION OF THE DEPARTMENT**

The Department of Medical Gastroenterology started functioning in March 2010 with Prof D.K.S Subrahmaniyam as Head of Department and Dr Lakshmi CP as Assistant Professor. The department provides Outpatient and Inpatient services and endoscopy services both diagnostic and therapeutic.

Bed strength: 4

**EDUCATIONAL COURSES**

Currently involved in academic sessions related to Gastroenterology for MD General Medicine and MBBS students (modular teaching sessions). Project proposal for starting BSc Endoscopy technician course being submitted to the Academic committee, JIPMER

**CONFERENCES**

Dr. C.P. Lakshmi

- Attended the Joint conference of the International Association of Pancreatology & The Indian Pancreas Club (IAP 2011), held at Cochin in February 2011.
- Delivered a talk on management of Hepatitis B virus infection in a seminar on hepatitis B held at Pondicherry on Jan 8th 2011, organised by Bristol Meyer Squib Pharmaceuticals.

**RESEARCH PROJECTS**

*Ongoing*

Dr. C.P. Lakshmi

- “Recurrence rates of Helicobacter pylori infection after successful eradication therapy; results from a region with high prevalence of infection” - Research proposal approved by JIPMER Scientific advisory Committee and is study is currently being done in the department.
- Co-guide to a ICMR short term studentship project for Chanchal Kumar Singh, MBBS student, JIPMER on the topic “Effect of Helicobacter pylori eradication on platelet counts in patients with immune thrombocytopenic purpura.”
- Collaborating with the department of Microbiology in the research project approved by JIPMER Scientific advisory Committee titled “Development and evaluation of in house real time loop mediated isothermal amplification assay for hepatitis B infection”

*JIPMER 2010-2011/219*
PUBLICATIONS

Dr. C. P. Lakshmi

A. Journals


B. Books

Contributed a book chapter on miscellaneous conditions of the small intestine to the “Text book of Gastrointestinal Surgery” edited by Dr Sanjiv Haribhakthi, being published by Paras Medical publishers, Hyderabad.

PATIENT CARE SERVICES

A. Clinical

OPD: OPD services on Wednesdays and Fridays in Room No 306, second floor, OPD block, SSB, with a patient attendance of an average of 65 patients per OPD.

Endoscopy: Simple and diagnostic endoscopic services like diagnostic upper and lower GI endoscopies endoscopic variceal ligation and endoscopic sclerotherapy are being performed on Tuesdays, Thursdays and Saturdays in OPD endoscopy Room (No 304), second floor, OPD block, SSB.

Complicated therapeutic endoscopic services like upper GI stricture dilatations (esophageal as well as pyloric), colonoscopic dilatation, gastric variceal glue injection, percutaneous endoscopic gastrostomies, achalasia dilatation, endoscopic RT placement across strictures, side viewing endoscopy and enteroscopy are being performed in MGE OT 6, SSB on every Monday.

Also coordinated the JIPMER outreach camps to Karaikkal conducted once in every 8 weeks.

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr Lakshmi CP peer reviews two pubmed indexed journals- The Indian Journal of Gastroenterology and Journal of Pharmacology and Pharmacotherapeutics.

Memberships – Professional Bodies:

1) Dr Lakshmi CP-

- Life member of Indian Society of Gastroenterology.
- Currently involved in setting up a gut club of Pondicherry comprising medical and surgical gastroenterologists of the city.
SIGNIFICANT EVENTS IN THE DEPARTMENT

1. Full fledged clinical services in the department started in November 2010 with Prof D.K.S Subrahmanyan taking charge as Head of Department and Dr Lakshmi CP joining back from leave as Assistant Professor.

2. Since November 2010, OPD services were restarted on Wednesdays and Fridays in Room No 306, second floor OPD block, SSB.

3. Inpatient services were started from December 2010 in the 4 beds allotted to the department in Ward 137, 3rd floor, IPD block, SSB.

4. Since November 2010, endoscopy services were started in OPD endoscopy Room No 304, second floor, OPD block, SSB.

5. Complex therapeutic endoscopy services have now been started in MGE OT 6, SSB, on every Monday, which include.
   - Diagnostic upper GI endoscopy with biopsy.
   - Diagnostic lower GI endoscopy with biopsy.
   - Endoscopic variceal ligation.
   - Endoscopic sclerotherapy.
   - Upper GI stricture dilatations (esophageal as well as pyloric).
   - Colonoscopic dilatation.
   - Gastric variceal glue injection.
   - Percutaneous endoscopic gastrostomy.
   - Achalasia dilatation.
   - Endoscopic RT placement across strictures.
   - Side viewing endoscopy with biopsy.
   - Enteroscopy with biopsy.

6. Therapeutic procedures like percutaneous endoscopic gastrostomy, gastric variceal glue injection, etc. have been starts for the first time in the history of JIPMER.

7. The administration has sanctioned a modular electrosurgical cautery unit which will enable starting of endoscopic retrograde cholangiopancreatography (ERCP) and endoscopic polypectomies.
BACKGROUND INFORMATION OF THE DEPARTMENT

The department is successfully functioning since May 2009. In the last year the average OPD attendance has increased from 40 to 70 patients per day. The state of art eight bedded intensive care unit for the care of critically ill cancer patients was started in September 2010. It is well equipped with multi parameter monitors, infusion pumps, continuous oxygen supply and ventilator support.

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) during the afternoon sessions. The department also actively participates with department of pathology in a clinico-pathological meet conducted twice monthly for discussion of challenging cases.

The year 2010 – 2011 also showed strong academic growth of the department with the regular rotations of post graduate students from the department of medicine and clinical pharmacology. The department is actively involved in teaching activities and assessment of various post graduate students posted in the department. The main goal of these teaching activities is to orient post graduates in the specialty of medical oncology.

The department has actively participated in the Telemedicine activities with various hospitals. The Telemedicine facilities have improved discussion related to challenging cases and better patient care.

The department has actively participated in various patient outreach oncology camps conducted at Karikal.

The department is looking forward to start the bone marrow transplant programme. It 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.

EDUCATIONAL COURSES

1. Fellowship in Medical Oncology (1 year) – 2 Seats

CONTINUING MEDICAL EDUCATION PROGRAMS

Dr. Biswajit. D

• Delivered a talk on “Cancer is curable if detected early” at department of social work, Pondicherry University in February 2011.

• Delivered guest lecture “Screening in Oncology” for general physicians under the chapter of IMA at Krishnagiri in January 2011.
• Faculty for PROMOTE INDIA meeting and delivered a talk on Approach to a Case of Lymphadenopathy conducted by Indian Cooperative Oncology Network at Ambur in January 2011.

• Attended CME on “Recent Advances in Head and Neck Cancer” and moderated a panel discussion on management of Head and Neck Cancers on 14th Nov 2010.

• Faculty for PROMOTE INDIA meeting and delivered a talk on Approach to a Case of Lymphadenopathy conducted by Indian Cooperative Oncology Network at Puducherry in October 2010.

• Panelist for Breast Cancer update conducted by BMS at Chennai in October 2010.

• Attended CME on “Recent Advances in Head and Neck Cancer” and delivered a talk on Chemotherapy in the management of Head and Neck Cancers on 14th Nov 2010.

• Delivered guest lecture on Oncology clinical trials in the department of Pharmacology at JIPMER Puducherry in October 2010.

• Faculty for PROMOTE INDIA meeting and delivered a talk on Breaking Bad News conducted by Indian Cooperative Oncology Network at Ambur in January 2011.

• Panelist for Breast Cancer update conducted by BMS at Chennai in October 2010.

• Attended a panel discussion on node negative breast cancer conducted by Sanofi Aventis under pink poll investigator group in September 2010.

• Attended CME on “Early and Locally advanced Breast Cancer conference” at JIPMER Puducherry on 8th August 2010, also delivered a talk on Chemotherapy in Locally advanced breast cancer and took part in panel discussion.

Dr. Ankit Jain

• Participated in debate on current role combination chemotherapy in metastatic breast cancer conducted by BMS at Bangalore in January 2011.

• Faculty for PROMOTE INDIA meeting and delivered a talk on Breaking Bad News conducted by Indian Cooperative Oncology Network at Ambur in January 2011.

• Attended CME on “Recent Advances in Head and Neck Cancer” and delivered a talk on Chemotherapy in the management of Head and Neck Cancers on 14th Nov 2010.

• Delivered guest lecture on Oncology clinical trials in the department of Pharmacology at JIPMER Puducherry in October 2010.

• Faculty for PROMOTE INDIA meeting and delivered a talk on Breaking Bad News conducted by Indian Cooperative Oncology Network at Puducherry in October 2010.

• Panelist for Breast Cancer update conducted by BMS at Chennai in October 2010.

• Attended a panel discussion on node negative breast cancer conducted by Sanofi Aventis under pink poll investigator group in September 2010.

• Attended CME on “Early and Locally advanced Breast Cancer conference” at JIPMER Puducherry on 8th August 2010, also delivered a talk on Chemotherapy in Locally advanced breast cancer and took part in panel discussion.
• Attended CME on “Recent advances in Gynecological Cancers” and delivered a talk on Role of Chemotherapy in Ovarian Cancer at JIPMER puducherry on 4th April 2010.
• Delivered a talk on “Chemotherapy and its complications” in CME programme of Nursing Care in Oncology Practice at JIPMER puducherry on 4th April 2010.

CONFERENCES
Dr. Biswajit. D
• International Lymphoma Update on 8th-9th Jan 2011 at Adyar Cancer Institute, Chennai.
• Delivered a talk on Clinical practice guidelines in GIST at International conference on 28th Nov 2010 at SRMC Chennai, India.
• Panelist at Conference on CML in Mumbai on July 2010. Myelstone ‘The Benchmark of Evidence’.

Dr. Ankit Jain
• International Lymphoma Update on 8th-9th Jan 2011 at Adyar Cancer Institute, Chennai.
• Invited faculty at TMH, Mumbai for formulating the guidelines for Management of Early and locally advanced breast cancer on 22nd-24th October 2010.
• Attended a panel discussion on Gastro intestinal stromal tumor and Lymphoma at Best of ASCO Conference at Hyderabad in August 2010.

WORKSHOPS
Dr. Biswajit. D
• Attended meeting on biostatistics conducted by department of biostatistics at JIPMER Puducherry
• Attended workshop on pharmacovigilance conducted by department of pharmacology at JIPMER Puducherry, February 21-23, 2011.
• Attended a meeting conduced by Indian Pediatric oncology Initiative at AIIMS, New Delhi in February 2011.
• National workshop on “Good Clinical Practice in Clinical Trials” on 25th September 2010 at JIPMER puducherry.
• Attended a workshop on power point presentation conducted by department of pharmacology at JIPMER Puducherry.

Dr. Ankit Jain
• Attended meeting on biostatistics conducted by department of biostatistics at JIPMER Puducherry
• National Workshop on “Good Clinical Practice in Clinical Trials” on 25th Sep 2010 at JIPMER puducherry.
• Attended a workshop on power point presentation conducted by department of pharmacology at JIPMER Puducherry
RESEARCH PROJECTS

Dr. Biswajit D

- Principal investigator: Study of Clinico-pathological prognostic factors in peripheral T cell Lymphomas from South India project received ethical committee approval and now in the process of procuring various immunohistochemistry markers and their standardization.
- Co-guide: Incidence of DPYD*2A mutation of 5-Flourouracil/Capecitabine induced toxicity.

Dr. Ankit Jain

- Principal Investigator for Single arm descriptive study of CAPOX regimen in locally advanced and metastatic gastric carcinoma patients received ethical committee approval and is actively looking for patients.
- Principal Investigator for Single arm descriptive analysis of neoadjuvant docetaxel and carboplatin in triple negative breast cancer population received ethical committee approval.

PUBLICATIONS

A. Journals


PATIENT CARE SERVICES

1. OPD attendance
   
   New cases : 1055
   Old Cases : 9827

2. Total chemotherapies delivered : 7884

3. Total Minor OT procedures : 534
   
   (a) Central venous access device insertion : 47
   (b) Intrathecal chemotherapy administration : 253
   (c) Paracentesis : 20
   (d) Bone marrow aspiration and biopsy : 214

AWARDS HONORS AND OTHER PERSONAL ACHIEVEMENTS

The department has signed a memorandum of understanding with the Jiv Daya Foundation Texas, USA and has initiated the India Pediatric Oncology Initiative Programme in order to start a pediatric cancer registry to improve pediatric oncology care.

The department has successfully signed a memorandum of understanding with Max Foundation to provide imatinib free of cost in patients with chronic myeloid leukemia under Glivec International Patient Assistance Programme.
Membership:

**Dr. Biswajit D**

1. **Membership of professional bodies:**
   - Member of European Association of Cancer Research.
   - Junior member of European Society of Medical Oncology.
   - Life member of Indian Co-operative Oncology network (ICON).
   - Life member of Indian Cancer Society.

2. Dr. Biswajit D successfully cleared ESMO certified medical examination with 50 CME credits which was held at Mumbai.

3. Editor of JIPMER Cancer update, RCC Puducherry.

**Dr. Ankit Jain**

1. **Membership of professional bodies:**
   - Life member of Indian Association of Clinical Research
   - Associate member of American society of Clinical Oncology.
   - Member of European Association of Cancer Research.
   - Junior member of European Society of Medical Oncology
   - Life member of Indian Co-operative Oncology network (ICON).
   - Life member of Indian Cancer Society.
   - Life member of Indian Society of Palliative Medicine.


3. Dr. Ankit Jain successfully cleared ESMO certified medical examination with 50 CME credits which was held at Mumbai.

3. Editor of JIPMER Cancer update, RCC Puducherry.


5. Organizing Secretary for CME on Nursing Care in Oncology Practice at JIPMER, Puducherry on 4th April 2010.

6. Visiting faculty for post graduate diploma in clinical research student affiliated to Anna University Chennai. Delivered a lecture on Oncology clinical trials.
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. The department has an 8 bedded Intensive Care Unit (ICU) for last 20 years. Apart from that, a new sixteen bedded ICU is going to be functional shortly. It also has contributed to a major extent in the fields of infectious diseases, toxicology, hematological, respiratory, and endocrine diseases by providing specialty clinical services and in-patient care. The Department of Medicine has played a lead role in establishing counseling and treatment services to patients with HIV/AIDS since 1997. Its faculty has varied interests in the fields of cardiology, hematology, 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 116 students.

B. Postgraduate Courses
   • M.D. (General Medicine) for 8 students each year (increased to 13 from 2011)

C. Higher Specialty Courses
   • D.M in Immunology – 1 student each year

D. Other Courses
   • Fellowship in Diabetology (One year course) – For 3 students each year
   • Emergency Medical Technician Certificate course
CONTINUING MEDICAL EDUCATION PROGRAMS

Dr. T.K. Dutta

- Gave a talk on ‘Adverse drug reactions’ in a CME organized by dept. of Pharmacology at JIPMER.

Dr. R.P. Swaminathan

- Gave a radio-talk on “Cancer and its prevention” for Cancer awareness programme at Puducherry during January 2011
- Gave a talk on “Life style modification” for primary care physicians and Rotary members at Cuddalore during January 2011
- Organising Secretary for CME on “Glomerular Diseases’ on 21st January 2011 (Chaired one session).

Dr. Abdoul Hamide

Organised

- CME on Thyroid Disorders (18th April 2010 at JIPMER)
- Pediatric & Adolescent Endocrine Update (31st October 2010 at JIPMER)

Presented

- “Effectiveness of N-acetyl cysteine in yellow phosphorus poisoning” at the CME on Toxicology and Envenomation on 9th May 2010 at Kovai Medical Centre and Hospital.

Guest Lecture

- On “Anti-retroviral therapy” on the World AIDS Day at the Mother Theresa Institute of Health Sciences, Pondicherry

Dr. D.K.S. Subrahmanyam

- Chairperson for CME on Pediatric & Adolescent Endocrinology Update, JIPMER, 31st October 2010
- Chairperson for CME on Glomerular Diseases, JIPMER, 21st Jan 2011.

Workshop

- National workshop on “Good Clinical Practice in Clinical Trials”- 25th Sept. 2010, JIPMER

Resource Person

- Pharmacovigilance Awareness Programme - Feb. 21-23, 2011; JIPMER- Resource person/invited lecture.
Dr. Mukta Wyawahare

- Delivered a lecture on ‘Burden of stroke and stroke prevention’ in a CME on ‘Update in Stroke Management’ in JIPMER
- Delivered a lecture on ‘Prevention and management of Diabetes’ in a National Workshop-cum-Seminar on ‘Role of Yoga in Prevention and Management of Diabetes Mellitus’ in JIPMER

Dr. Chanaveerapa Bammigatti

- Delivered a guest lecture on “Medical management of diabetic foot” in a Workshop on Diabetic foot organized by International College of Surgeons Indian section, Pondicherry on 17th and 18th July 2010.
- Delivered a guest lecture on “Chikungunya viral arthritis” at a CME organized by the Hubli Dharwad Orthopedic Association in Hubli, Karnataka on 17th October, 2010
- Delivered a guest lecture on “Chikungunya viral arthritis” at a CME organized by the Department of Orthopedics, JJ Medical College, Davanagere, Karnataka on 21st Oct 2010.

CONFERENCES

Dr. R.P. Swaminathan

- Attended Regional Association of Physicians of India Conference held at Trichy on 01.08.2010 and gave a talk on ‘Antibiotics – uses and misuses’
- Attended 4th National Insulin summit held on December 4-5, 2010

Dr. Abdoul Hamide

- Sivaraj V, Hamide A. Outcome of ART in a contemporary clinic at a teaching hospital. At the 3rd National Conference of AIDS Society of India at Hyderabad: 29th October 2010.

Dr. D.K.S. Subrahmanyam

- Attended the 2nd international echocardiography conference Heartbeat 2010, 22-24 October, Bengaluru

Dr. Tamilarasu Kadhiravan

- Attended the Cochrane Systematic Review completion workshop at the South Asian Cochrane Network & Centre, Christian Medical College, Vellore, on February 18-20, 2011.
Dr. Chanaveerappa Bammigatti

- Presented a paper titled “Benign Tertian Malaria – A misnomer?” at 3rd National Conference on Infectious Diseases held at AIIMS, New Delhi on 17th and 18th April, 2010.
- Presented a poster titled “Mono-ostotic Paget's Disease – A rare occurrence in India” at the Indian Rheumatology Association annual conference held in Bhubaneshwar from 26th to 28th November, 2010.

RESEARCH PROJECTS

A. Funded projects

**Ongoing**

1. A prospective evaluation of an algorithm for the early diagnosis of tubercular meningitis (Dr. T. Kadhiravan - Principal investigator). Research grant: Rs. 1.4 lakhs; funded by intramural research grant

B. Departmental Projects

**Ongoing**

1. Effect of splenectomy on immune thrombocytopenia. (Dr. T.K. Dutta – Guide)
2. Comparison of conventional dose of anti-snake venom with national protocol in treatment of neurotoxic snake bites (Dr. T.K. Dutta – Guide)
3. A study of renal tubular function abnormalities in patients with spontaneous symptomatic hypokalemia (Dr. R.P. Swaminathan – Guide)
4. Comparison of slow low efficiency dialysis (SLED) and intermittent hemodialysis for acute renal failure (Dr. R.P. Swaminathan - Guide)
5. Association between non-alcoholic fatty liver disease and components of metabolic syndrome with special reference to oxidative stress (Dr. Abdoul Hamide – Guide)
7. Clinical and laboratory profile of acute pyogenic meningitis and effect of adjunct steroid on outcome: a randomized placebo controlled study. (Dr. Abdoul Hamide – Guide)
8. A prospective study of the clinical profile, in-hospital outcomes, and 90-day survival of medically-ill patients receiving mechanical ventilation (Dr. T. Kadhiravan - Guide)
9. Study of clinical and immunological recovery, side-effect profile and incidence of immune reconstitution inflammatory syndrome in HIV patients on antiretrinal therapy (Dr. Suryanarayana BS - Guide)
10. Randomised control trial of metronidazole plus percutaneous needle aspiration v/s metronidazole alone in uncomplicated amebic liver abscesses. (Dr. Chanaveerappa Bammigatti – Guide)
C. Collaborative Projects

*Ongoing*

1. A study on cardiac manifestations in SLE (Dr. R.P. Swaminathan - Co-guide).

2. A study on the effect of MDRI and MRPI Polymorphisms on lipid lowering response and adverse effect profile of atorvastatin in hypercholesterolemic patients (Dr. R.P. Swaminathan – Co-guide).

3. Clinico-pathological profile of nephritic syndrome due to Non -IgA mesangio-proliferative glomerulonephritis in a South Indian population (Dr. R.P. Swaminathan - Co-guide).

4. A prospective evaluation of an algorithm for the early diagnosis of tubercular meningitis (Dr. R.P. Swaminathan - Co-investigator).

5. Effect of real time PCR in diagnosis of amebiasis (Dr. R.P. Swaminathan - Co-guide).

6. Registry of people with diabetes in India with young age at onset (Dr. R.P. Swaminathan – Co-investigator).


8. Pharmacogenomics of pioglitazone therapy in South Indian Type II Diabetes patients (Dr. R.P. Swaminathan - Co-investigator).

9. Effect of high dose water soluble vitamin supplementation on insulin resistance, oxidative stress & homocysteine in pre-hypertension – a randomized controlled study (Dr. Abdoul Hamide – Co-investigator).

10. Comparative study of oxidative stress parameters & inflammatory markers in obese and non – obese subjects (Dr. Abdoul Hamide – Co-investigator).

11. Evaluation of NSI antigen detection as an alternative to RT-PCR for the early diagnosis of dengue- (Dr. Abdoul Hamide – Co-investigator).

12. Circulating levels of interleukin 17 and nitric oxide in patients with dengue and their association with platelet function (in collaboration with the Department of Biochemistry: Dr. T. Kadhiravan - Co-investigator).

PUBLICATIONS

A. Journals


2. Babu E, Balachandar J., Subrahmanyam DKS. A case - control study of carotid intima-media thickness in elderly South Indian population with coronary artery disease; J Indian Acad Geriatrics; 2008;4:138-44.


B. Book Chapters


Patient Care Services

A. Clinical

Department has six units since 01.01.2011. Each unit has 20 beds approximately. There is an eight-bedded ICU with ventilators attached to each bed. It caters to patients admitted with poisoning, snake bites, septicemia, myocardial infarctions etc. During the swine flu season the department opens a special ICU in the Infectious diseases ward and offers patient care there.

The Department runs specialty clinics in Diabetes, Endocrinology, Haematology, HIV, Respiratory Medicine and Nephrology.

I. MEDICINE OPD
   No. of OP treated = 212,810
   No. of IP treated = 7491

II. DIABETES CLINIC
   No. of OP treated = 32170

III. HEMATOLOGY CLINIC
   No. of OP treated = 1907

IV. HIV CLINIC
   No. of OP treated = 1883

V. RESPIRATORY CLINIC
   No. of OP treated = 6679

B. Laboratory

Details of the tests done in Medicine side lab and diabetic lab

Medicine Side Lab

I. Blood Investigation
   1. Hemogram = 12507
   2. ESR = 4050
   3. Hemoglobin = 57
   4. Differential Count = 10474
   5. BT/CT = 165
   6. Fluid cell count and type = 603
   7. HbA1c = 1555

JIPMER 2010-2011/234
II. Urine Investigation
1. Albumin = 4749
2. Sugar = 4749
3. Microscopic examination = 3284
4. Bile salt = 89
5. Bile pigment = 89
6. Urobilinogen = 71
7. Ketones = 9
8. Bence Jones Protein = 33
9. Eosinophil = 23
10. 24 hrs Urine protein = 364
11. pH = 16
12. Myoglobin = 4
13. Occult blood = 8

III. Stool
1. Microscopic examination = 203
2. Occult blood = 194

DIABETIC LAB
1. Foot Scan = 2098
2. Doppler = 2098
3. VPT = 968
4. HbA1C = 461
5. PFT = 46

Special investigations such as DXA and Echo are being done in Medicine Lab.

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr. Abdoul Hamide
1. Received the Best Paper Award (citation & medal) for the paper “Effectiveness of N-acetyl cysteine in Yellow Phosphorus poisoning” at the CME on Toxicology and Envenomation on 9th May 2010 at Kovai Medical Centre and Hospital.
2.Reviewed articles for indexed journals such as Indian Journal of Medical Research and Indian journal of Pharmacology
3. Nominated as Examiner by the National Board of Examinations
4. Nominated as Inspector by the Council of Members of Medical Council of India

Dr. T. Kadhiravan
1. Was honoured as an outstanding peer-reviewer by the Annals of Internal Medicine for the year 2010.
ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. T.K. Dutta
1. Head of the Department of Medicine. Looks after the administration of the Department which has six medical units and one Intensive Care Unit. The Department has Faculty strength of 13 and Resident strength of 40.
2. In-charge of Hematology clinic
3. In-charge of Undergraduate and Postgraduate teaching and organising guest lectures, CME programmes, seminars etc.
4. Member of Drug Controller of India Committee to approve new drug trials
5. Member of Council of Scientific and Indian Research Committee to approve funds
6. Member of Antibiotic Policy Committee of the JIPMER Hospital
7. Member in Poor Patient’s Chest Fund
8. Member in the Committee for approval of foreign visits by faculty members

Dr. R.P. Swaminathan
1. Serving as Administrative Head of Nephrology Department and became Member of Core Committee for Renal Transplantation at JIPMER
2. Member of Renal Transplantation Committee; recently approved for renal transplantation by the Government of India.
3. Resource Person for various activities of Medical Education Department such as PG thesis writing, Interns Orientation Programme
4. Chief Co-ordinator for conducting the Diploma in National Board Examinations for Medicine held on JIPMER (March 2011)
5. External Expert for selection of Assistant Professor at IGMC&RI, Puducherry
6. Member of Drug Purchasing Committee, JIPMER, Puducherry
7. Resource Person for studies at VCRC, Puducherry

Dr. Abdoul Hamide
1. Set Question papers, corrected Dissertations for the National Board of Examinations
2. Examiner for DNB clinical examination held at Armed Forces Medical College, Pune in Sept. 2010
3. Resource person for the Interns orientation program held every year
4. Nominated by MCI to inspect the Medical College at Mangalore in Sept 2010
5. Member of core committee of RNTCP/DOTS, JIPMER
6. Member representing minority community in Departmental Promotion Committee (DPC) and various interviews conducted for recruitment of residents and staff

7. Administrative Head of the Department of Endocrinology with one Asst. Professor managing OP&IP services

8. In-charge of ART clinic for AIDS patients

9. Member of the Doctoral committee for review of thesis by PhD scholars

10. Member of the committee for purchase of items for CSSD of the hospital

11. Taken personal interest in implementing the Post-Exposure Prophylaxis (PEP) for the health care workers of JIPMER hospital who are accidentally exposed to HIV

Dr. D.K. S. Subrahmanyam

1. Member of MBBS curriculum committee under MCI

2. Examiner for Dissertation evaluation for KLE Deemed university

3. External expert for selection of Asst. Prof. Medicine at IGMC&RI

4. Subject expert to contribute to the question bank in Medicine, Diplomate of National Board

Dr. T. Kadhiravan

1. Served as a co-opted member of the JIPMER H1N1 (swine flu) monitoring committee

2. Served as the faculty in-charge of the swine flu ward

3. Served as a core group member and resource person for various activities of the Department of Medical Education such as Interns Orientation Programme, and Postgraduate Orientation Programme

SIGNIFICANT EVENTS IN THE DEPARTMENT

1. Dr. Shyam Sundar, Professor of Medicine, Institute of Medical Sciences, BHU, Varanasi visited the Department of Medicine in the month of January 2011. He spent 2 days delivering talks on leishmaniasis and antibiotics, taking Post-Graduate clinics and sharing his research experience on Kala azar.

2. Dr. Vikram Mathews, Professor of Hematology, Christian Medical College, Vellore visited the Department in the month of April 2010. He delivered lectures on bone marrow transplantation, anemia etc. He also took Post-Graduate clinics.

3. The Department was approved to start DM (Clinical Hematology) course from 2011.
BACKGROUND INFORMATION OF THE DEPARTMENT

The Department of Microbiology, JIPMER underwent a rapid increase in patient care services in the previous year. As a part of the phasing up of services, flow cytometry services for CD4 counts in HIV patients was started in the laboratory at Superspeciality block. Another landmark achievement this year was the establishment of the Regional Influenza Laboratory which has already been instrumental in the rapid diagnosis of cases affected by the swine influenza pandemic. Training and educational events were organized in the form of workshops and CMEs in diverse topics such as HIV and opportunistic infections and Tuberculosis, swine influenza and tuberculosis and many doctors as well as other laboratory staff benefited from it.

EDUCATIONAL COURSES

A. Undergraduate Courses

The Department of Microbiology, JIPMER offers MBBS undergraduate courses covering three (3rd, 4th & 5th) semesters. Teaching programmes in the form of integrated classes, Modular teaching and Student seminars are conducted to create better understanding of the subject. The department also conducts B.Sc. Nursing, BSc Allied Sciences, B.Sc. MLT and courses for medical record trainees & medical record officers (MRT/MRO) and Emergency Trauma Technician Courses (EMT).

B. Postgraduate Courses

The Department of Microbiology, JIPMER offers 3 years Post Graduate course in Medical Microbiology with in take of 4 Post Graduate Students per year. At present there are 11 Post Graduate Students being trained in both the diagnostic & research aspect of microbiology.

The Department of Microbiology, JIPMER has introduced a 2 year course in Masters of Science (M.Sc.) in Medical Laboratory Technology (MLT) from the last academic year with enrollment of 4 students per year.
C. Research Courses (Ph D )

At present there are 2 PhD scholars in the department of Microbiology, working on various aspects of amoebiasis & Extended spectrum beta lactamases.

D. Short Term Training

The department of microbiology has offered short term training in form of M.Sc. project of three month durations for 5 M.Sc. students who had enrolled for the training.

E. Diplomate National Board Examinations

The department of microbiology held its very first DNB Examinations (Practicals & Oral) in the discipline of Microbiology. A total of 6 candidates coming from different parts of the country were examined.

CONTINUING MEDICAL EDUCATION PROGRAMS

- The department of microbiology also holds continuing medical education programme for the technicians of the department to update them on the newer technologies and procedures that have been introduced for the diagnostic purposes

Dr. S.C. Parija

- Chief Guest and inaugurated the CME on “Current Scenerio of Parasitic infections” held at the Madras Medical College & Govt. GH, Madras on 15th September 2010. He also delivered a talk on IRIS in patients with HIV.

- Invited to deliver a guest talk at the CME Programme “Recent Diagnostic Techniques in Parasitic Diseases” at Kamineni Institute of Medical Sciences, Narketpally on 10th November, 2010.

- Attended the CME on “H1N1”, at the Hotel Annamalai, Kamaraj Salai, Puducherry on 21st November 2011 and delivered a guest talk on “Swine Flu” .The CME was organized by the Puducherry Chest Association, Puducherry.

Dr. S. Sujatha

- Conducted a Quiz programme and chaired a session at the CME on “ Issues in HIV” on 7th March, 2011.

Dr. Rakesh Singh

- Attended the one day state level CME Programme on “RNTCP and Tuberculosis” at Conference hall of the Super speciality block, JIPMER on 23.03.2011 on occasion of the World TB Day. He delivered a talk on ‘TB and HIV Epidemic ‘ in the CME.

- Resource person and attended the CME programme ‘Issues in HIV’ on 07th March 2011 at the Conference Hall, Superspeciality block, JIPMER for Doctors, Clinicians, Medical officers, Senior and Junior Residents working in Puducherry region. He delivered a talk on “ HIV diagnosis in infants - Current NACO guidelines”.

JIPMER 2010-2011/239
• Delivered a guest lecture on “Early detection and diagnostic measure of AIDS” on 01.12.2010 at Mother Theresa Postgraduate and Research Institute of Health Sciences, Puducherry.

• Resource person for EQAS workshop for laboratory technician, conducted twice on 27\textsuperscript{th} and 28\textsuperscript{th} August 2010 and 28\textsuperscript{th} and 29\textsuperscript{th} January 2011 by the department of Microbiology and Pondicherry AIDS Control Society.

• Resource person for the orienting nurses of Puducherry region at GFATM about the functions and services provided by Integrated Counselling and Testing Centre in batches on 17\textsuperscript{th} and 24\textsuperscript{th} February, 3\textsuperscript{rd} March and 28\textsuperscript{th} April 2011

**Dr. Jharna Mandal**

• Resource person and attended the CME programme ‘Issues in HIV’ on 07\textsuperscript{th} March 2011 at the Conference Hall, Superspeciality block, JIPMER for Doctors, Clinicians, Medical officers, Senior and Junior Residents working in Puducherry region.

• Resource person and attended the one day state level CME Programme on “RNTCP and Tuberculosis” at Conference hall of the Super speciality block, JIPMER on 23.03.2011 on occasion of the World TB Day.

**Dr. Rakhi Biswas**

• Resource person and attended the CME programme ‘Issues in HIV’ on 07\textsuperscript{th} March 2011 at the Conference Hall, Superspeciality block, JIPMER for Doctors, Clinicians, Medical officers, Senior and Junior Residents working in Puducherry region.

• Resource person and attended the one day state level CME Programme on “RNTCP and Tuberculosis” at Conference hall of the Super speciality block, JIPMER on 23.03.2011 on occasion of the World TB Day

**Dr. Rahul Dhodapkar**

• Attended the one day state level CME Programme on “RNTCP and Tuberculosis” at Conference hall of the Super speciality block, JIPMER on 23.03.2011 on occasion of the World TB Day.

• CME programme ‘Issues in HIV’ on 07\textsuperscript{th} March 2011 at the Conference Hall, Superspeciality block, JIPMER for Doctors, Clinicians, Medical officers, Senior and Junior Residents working in Puducherry region.

**CONFERENCES**

**Dr. S. C. Parija**

1. Attended the workshop of State Reference Laboratories for HIV at Hotel Athithi, Puducherry from 07\textsuperscript{th} July to 10\textsuperscript{th} July, 2010.

2. Was invited as an expert to the meeting of the Indian Clinical Epidemiology Network (CLEN) held on 17\textsuperscript{th} July, 2010 at Green Meadow Resort, Chennai.

   JIPMER 2010-2011/240
3. Invited guest speaker and delivered a lecture on “Parasitic infections and HIV- associated immune reconstitution inflammatory syndrome (IRIS) in Indian Scenario” during the National Seminar on HIV Science held at the VIGYAN Auditorium, SERC, CSIR campus, Taramani- Chennai on 31st August, 2010.

4. Attended the RNTCP South Zonal Task Force meeting on 2nd and 3rd September 2010 at SRM University Kattankulathur, Chennai, Tamilnadu.

5. Invited guest speaker at the “International Conference on Opportunistic Infection in HIV” (ICOPA-India 2010) at New Delhi from 27th – 30th September 2010. He delivered a talk on “Immune – Reconstruction inflammatory syndrome in patients with HIV” He also chaired a session on Epidemiology of HIV.

6. Attended 4th National conference of the IATP held from 29th October to 1st November 2010 in Bhubaneshwar, Orrisa. Professor Parija as President of the Academy delivered his presidential ordination on ‘Research in Parasitology in India’ – past, present and future. Prof. Parija also participated in CME programme and delivered talk on Economic burden due to Lymphatic filarasis. During the Conference, he was conferred with fellowship of the Indian Academy of Tropical Parasitology in recognition to his contribution in field of Parasitology.

7. Attended the Annual Congress of the Indian Association of Medical Microbiologists (IAMM) Microcon 2010 & CME at Swabhumi, Kolkata from 25th to 27th November 2010. He delivered a guest talk on “Cysticercosis- is it a lifestyle disease?”.

8. Attended as a resource person, the International workshop on “Atypical clinical presentations of leptospirosis, pathophysiology and the leptospiral serovars and genotypes involved” at Port Blair from 1st Dec 2010 to 8th Dec 2010. He delivered a Guest talk on “Vaccines against Leptospirosis & chaired a session on vaccines against leptospirosis.

9. Invited as Chief Guest to inaugurate 17th Training course on “Immunodiagnostics for Infectious diseases” held at Mahatma Gandhi Institute of Medical Sciences, Sevagram, Maharashtra, held from 31.01.2011 to 01.02.2011. He also delivered a key note address on Molecular diagnosis of amoebiasis.

**Dr. B. N. Harish**

1. Attended a Hands on training workshop in Antibiotic susceptibility testing at the JSS Medical College, Mysore from 21st – 22nd August 2010. He delivered a guest Lecture on “Detection of Antibiotic Resistance”.

2. Attended the IAMM Microcon 2010 Conference & CME at Swabhumi, Kolkata on 25th to 27th November 2010


4. Attended the 14th International conference on Infectious diseases held at Miami, Florida, USA and did a poster presentation.
Dr. S. Sujatha
1. Chair person on first Annual HICC Conference “Infection control and rational antimicrobial therapy” at MGCRI, Puducherry 23rd October 2010.
2. Attended the Symposium of the IAMM Puducherry Chapter on 11th March, 2011 at Sri Manakula Vinayagar Medical College and Hospital, Puducherry

Dr. Rakesh Singh
1. Attended the workshop of State Reference Laboratories at Hotel Athithi, Puducherry from 07th July to 10th July, 2010.
2. Attended the EID (Early Infant Diagnosis) Training for HIV at Chennai on 17th September, 2010.
3. Attended the Indian Association of Medical Microbiologist, MICROCON 2010 at Swabhumi, Kolkata on 24th to 27th November 2010. He presented a poster entitled “Candida parapsilosis: An emerging fungal pathogen “.
4. Attended Regional STI Training Programme at the Institute of Venerology, Madras Medical College, Chennai on 06.04.2010 and 07.04.2010.

Dr. Jharna Mandal
1. Was a Resource person for the “Refresher training for technicians of Puducherry” held on 30/03/2010–01/04/2010 by the Dept of microbiology with the support of NACO

Dr. Rakhi Biswas
1. Resource person for the “Refresher training for technicians of Puducherry” held on 30/03/2010–01/04/2010 by the Dept of microbiology with the support of NACO.

Dr. Rahul Dhodapkar
1. Attended the 62nd National Course on Educational Science for Teachers of Health Profession from 9th-19th February 2011, JIPMER, Puducherry.

RESEARCH PROJECTS
A. Funded Projects

Ongoing

ICMR Projects with CMC Vellore
- Clinico-Epidemiologic and molecular characterization of ESBL producing E.coli, Klebsiella spp, and Enterobacter spp causing Nosocomial and community infections. Principal Investigator- Dr S. C. Parija-funds- Rs 4,73,080 (2007-2010).
- Mechanism of fluoroquinolones resistance among salmonella. Principal Investigator Dr. Harish. Funds Rs.8,55,412 (2007-2010)
UGC Project

- Molecular Characterization of ESBL producer Klebsiella pneumonia in Pondicherry. Principal Investigator Dr. B.N. Harish. Funds-Rs.5,98,300/-. 3years (2008-2011).

B. Departmental Research

Completed

1. Virulence determinant and antimicrobial resistance in isolates of Enterococci.
2. Genetic characterization of ESBL’s in Shigella
5. Recombinant antigen in the diagnosis of neurocysticercosis.

Ongoing

1. Molecular detection of Salmonella from by PCR
2. Evaluation of Real time PCR in diagnosis of amoebiasis
3. Evaluation of Molecular and Immunological methods in the diagnosis of Herpes Simplex type 1 encephalitis
5. Carbapenamase producing isolates of Escherichia coli, Klebsiella species, Enterobacter species from blood.
6. Panton Valentine Leukocidin as a marker of CA-MRSA in skin and soft tissue infection.
7. Evaluation of NS1 antigen detection as an alternative to RT-PCR for the early diagnosis of Dengue.
8. Isolation of Campylobacter species from stool specimens by culture.
9. Determination of drug susceptibility pattern of Mycobacterium tuberculosis isolates from a tertiary health care centre in South India
10. Molecular and serologic diagnosis of Hepatitis B infection.

C. Collaborative Research

Ongoing

1. Utility of urine dipstick test for the screening of urinary tract infection in catheterized women following gynaecological surgeries (with obstetrics & Gynaecology).
2. A prospective evaluation of an algorithm for the early diagnosis of tubercular meningitis (with Medicine)
3. Probiotics therapy for prevention of necrotizing enterocolitis in preterm infants—a randomized controlled trial (with Pediatrics)


5. Role of fine needle aspiration cytology in necrotizing lesions.

PUBLICATIONS

A. Journals


JIPMER 2010-2011 / 244


17. Parveen MR, Harish BN and Parija SC. Molecular description of plasmid-mediated AmpC a-lactamases among nosocomial isolates of Escherichia coli and Klebsiella pneumoniae from six different hospitals in India. Accepted in Indian Journal of Medical Research, June 2011 issue.


**B. Book**


**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 (Virology), Western Blot for neurocysticercosis and hydatid disease (Parasitology), ESBL and MBL strains detection etc.

In addition, BacTAlert systems for blood and mycobacterial culture, Anoxomat Mark II anaerobic culture system and a nephelometry sytem 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 Flow cytometry for CD4 lymphocyte 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.

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Fellowships/memberships of scientific bodies

**Dr. S.C. Parija**

FRCPath : Fellow, Royal College of Pathologists, UK  
FATP : Fellow, Indian Academy of Tropical Parasitology  
FAMS : Fellow, National Academy of Medical Sciences  
FICPath : Fellow, Indian College of Pathologists  
FISCD : Fellow, Indian Society for Malaria and other Communicable Diseases  
FABMS : Fellow, Indian Association of Biomedical Scientists  
FIMSA : Fellow, International Medical Science Academy  
FICAI : Fellow, Indian College of Allergy & Applied Immunology  
FIAVP : Fellow, Indian Association of Development of Veterinary Parasitology  
Honorary member Iranian Society for Parasitology  
Life member : Indian Association for Development of Veterinary Parasitology  
Life member : Indian Association of Medical Microbiologists  
Life member : Indian Society for Parasitology  
Life member : Indian Association of Pathologists & Microbiologists  
Life member : Indian Immunology Society  
Life member : Indian Association of Malaria & other Communicable Diseases  
Life member : Indian College of Allergy & Immunology  
Life member : Indian Academy of Allergy  
Life member : Indian Association of Biomedical Scientists

**Dr. Jharna Mandal**

Life member of Indian Association of Medical Microbiology (IAMM), Indian Association of Tropical Parasitology (IATP) and Society for Indian Human and Animal Mycologists (SIHAM).

**Dr. Rakhi Biswas**

Life member of Indian Association of Medical Microbiology (IAMM) and Indian Association of Tropical Parasitology (IATP).
Dr. Rakseh Singh
Life member of Indian Association of Medical Microbiology (IAMM) and Indian Association of Tropical Parasitology (IATP) and Society for Indian Human and Animal Mycologists (SIHAM).

Dr. Rahul Dhodapkar
Life member of Indian Association of Medical Microbiology (IAMM) and Indian Association of Tropical Parasitology (IATP) and corresponding member of International Society for Infectious diseases.

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. S.C. Parija
- Invited as an expert by the Central Council for Research in Homeopathy (CCRH), New Delhi for finalizing a monograph on “Lymphatic Filariasis”, and “HIV/AIDS and homeopathic management.”
- Dr. S.C. Parija was deputed as MCI Inspector to assess the facilities at various medical colleges for granting permission to start MBBS courses and or increase the number of seats.

Editorships
- Editor: Topical series on HIV/AIDS and opportunistic diseases and co-infection, published by BMC UK.
- Editor-in-Chief: Internet Journal of Parasitic Diseases, published from The Texas the USA.
- Editor-in-Chief: Tropical Parasitology, published by the Indian Academy of Tropical Parasitology.
- Associate Editor: BMC Infectious Diseases published by BMC UK.
- Associate Editor: BMC Journal of Case Reports (JCR) published by BMC UK.
- Associate Editor: BMC Research Notes published by BMC UK.
- Member, Editorial Board, Journal of Research and Report in Tropical Medicine Published by Dove Press, USA.
- Member, Editorial Board, the online journal BMC Clinical Pathology.
- Member, Board of Editors, Journal of Veterinary Parasitology, the journal published by the Indian Association for the Advancement of Veterinary Parasitology.

Dr. Jharna Mandal

Editorships
Managing Editor of the online journal’ Tropical Parasitology’
Membership in official committees

Dr. S. C. Parija

Dr. S. C. Parija, Professor and Head, Department of Microbiology acted as Member of the research committee of the India Clinical Epidemiology Network (CLEN).

Dr. S. C. Parija, Professor and Head, Department of Microbiology acted as Member of the committee of the Medical Council of India (MCI) for Development of the Curriculum for MD in Microbiology.

Office bearer of the professional association

President, The Indian Academy of Tropical Parasitology.

SIGNIFICANT EVENTS IN THE DEPARTMENT

1. External Quality Assurance Scheme (EQAS) training for Laboratory Technicians in HIV was held on 27th and 28th August 2010 at JIPMER Superspeciality Block auditorium. It was supported by the Puducherry AIDS Control Society. Prof SC Parija was the Organising Secretary of the Course.

2. The Department of Microbiology, JIPMER organised a 5 days hands on training at the 1st National workshop on 'Simple Diagnostic Methods in Clinical Microbiology' from the 30th of November to the 4th of December 2010. Prof SC Parija was the Organising Secretary of the Course.

   The Workshop was inaugurated by Dr. K. S. V. K. Subba Rao, Director, JIPMER at the Superspeciality Block at JIPMER at on the 30th of December, 2010. 22 Participants were trained to use laboratory tests to diagnose a wide range of diseases from the common ones like malaria, cysticercosis, typhoid, tuberculosis to the relatively lesser known diseases like listeriosis, cryptosporidiosis, melioidosis etc.

   Training was given for use of multiplex PCR, a test developed for the first time in the Department of Microbiology, JIPMER, for accurate diagnosis of Entamoeba histolytica, the causative agent of intestinal amoebiasis, also on the use of real time PCR for diagnosis of swine flu. They were also trained on the use of simple tests for diagnosis of malaria, tuberculosis, listeriosis, cryptosporidiosis at the field level and in less equipped laboratories. Besides getting hands on training in the various laboratory methods, the participants also benefited from guest lectures delivered by leading experts like Dr. Arun Kumar, Professor and Head, Manipal Centre for Virus Research, Dr. S. Santha, Principal, Tagore Medical College and Hospital, T. Nagar, Chennai, Dr. S. N. Madhusudana, Professor, Department of Neurovirology, NIMHANS, Bangalore and Prof SC Parija, Professor and Head, Department of Microbiology, JIPMER.

3. The Department of Microbiology, JIPMER and Pondicherry AIDS Control Society organized a one day CME programme on 'Issues in HIV' on 07th March 2011 at the Conference Hall, Superspeciality block, JIPMER for Doctors, Clinicians, Medical officers, Senior and Junior Residents working in Puducherry region. Prof SC Parija was the Organising Secretary of the Course.
The CME programme covered different aspects of HIV such as role of counseling, universal precautions, dealing with HIV patients, post exposure prophylaxis, opportunistic infections and management etc. Eminent speakers mostly from outside the Institute and Puducherry delivered these talks.

4. On the occasion of the World TB Day 2011, the Department of Microbiology, JIPMER in collaboration with the Puducherry State TB Control Office organized a one day state level CME Programme on “RNTCP and Tuberculosis” at JIPMER on 23.03.2011. This CME covered different aspects related to tuberculosis and its control. The CME was open to all Faculty, Residents, Medical officers in all medical colleges and various health service departments of the Puducherry State. Various guest speakers and expert faculty shared their knowledge and experience with the delegates in order to upgrade their clinical practice with regards to tuberculosis diagnosis and control.

The inauguration programme was held at the Conference hall, Superspeciality block, JIPMER. Dr. Dilip Kumar Baliga, Director (Health), Directorate of Health and Family Welfare Services was the chief guest and inaugurated the programme. Dr. K.S.V.K. Subba Rao, Director, JIPMER presided over the proceedings. Dr. K.V. Raman, State TB Control Officer, Puducherry State and Dr. S.C. Parija, Professor and Head, Department of Microbiology, JIPMER also addressed the gathering.

As part of the scientific programme of the CME, the invited guest speakers highlighted the various issues associated with tuberculosis, its epidemiology, management and the importance of control programmes. Dr. K.V. Raman, State TB Control Officer, Puducherry State briefed on the various activities of the RNTCP and situation of TB control in the Puducherry State. Following this, there was a talk on the management of Mediastinal Tuberculosis by Dr. R. Narasimhan, The Chairman and Founder trustee of Respiratory Research Foundation of India, Chennai. Dr. Rakesh Singh, JIPMER shed some light on the worrying double epidemic of Tuberculosis and HIV coinfection. Dr. N. Selvakumar, Tuberculosis Research Centre, Chennai shed light on the role of accreditation of laboratories for the diagnosis of TB. The participants were informed about the epidemiology of TB with reference to India by Dr. Sonali Sarkar, JIPMER. There was also be a session about recent advances in TB Diagnosis by Dr. S.C. Parija, JIPMER who updated the delegates with the latest technologies available for rapid TB diagnosis to facilitate early patient diagnosis and treatment. This was followed by a talk on Quality Assurance in sputum Microscopy for TB diagnosis by Dr. Rakhi Biswas, JIPMER who emphasized on the high quality of sputum microscopy services which remains a high priority of RNTCP. Dr. Surender Menon, Mahatma Gandhi Medical College and Research Institute, impressed upon the audience the importance of MDR and XDR tuberculosis. The academic programme came to a close with a role play on the importance of counseling in the field of Tuberculosis by Mrs. Selvanayagy, HIV counsellor JIPMER.

ACHIEVEMENTS OF STUDENTS/RESIDENTS (ACADEMIC, SPORTS AND CULTURAL)

Prize exam in Tropical parasitology was conducted for Interns in September 2010.
8.17 Nephrology

Professor & Acting Head
R.P. Swaminathan

Assistant Professor
Sreejith Parameswaran

BACKGROUND INFORMATION OF THE DEPARTMENT

The Department of Nephrology, established in 2009-2010 continued to expand its patient care services at JIPMER. The new patient care services started during the year 2010-11 include Therapeutic Plasma Exchange (TPE), Continuous Ambulatory Peritoneal Dialysis (CAPD) & Slow Low Efficiency Dialysis (SLED). The department recruited 3 more dialysis technicians & created facility for dialysis in isolation for patients with blood borne infections like hepatitis B, hepatitis C and HIV infection. The department of Nephrology, together with the department of Urology, JIPMER, is in the process of starting a kidney transplantation program at JIPMER. The department started a BSc Allied Medical Sciences – Dialysis Technology course with an annual intake of 4 students. A new glomerular disease clinic was started for follow up patients with glomerular disorders, including nephrotic syndrome.

EDUCATIONAL COURSES

A. Undergraduate courses

1. B.Sc. Allied Medical Sciences – Dialysis Technology:

   The department started B.Sc. Allied Medical Sciences – Dialysis Technology (B.Sc. AMS-DT) course in the academic year 2010-11 with an annual intake of 4 students. This course aims at training dialysis students in all modalities of renal replacement therapies including intermittent hemodialysis, SLED, Continuous Renal Replacement Therapies (CRRT) & CAPD.

2. Prof R.P. Swaminathan & Dr Sreejith Parameswaran took lectures for MBBS students on kidney disorders.

CONTINUING MEDICAL EDUCATION PROGRAMS

A. CME organized by the department

   The department of Nephrology, in collaboration with the department of Medicine, JIPMER organized a Continuing Medical Education program – “CME on glomerular diseases” on 21st January 2011. The CME had eminent speakers delivering lectures on various glomerular diseases like ‘Difficult to treat nephrotic syndrome in children’, ‘IgA Nephropathy’, ‘Lupus Nephritis’, ‘Focal segmental glomerulosclerosis’ and ‘Protienuria in pregnancy’. Dr Jai Radhakrishnan, Associate professor of Medicine and Nephrologist at Columbia university, New- York, USA was the chief guest at the CME and delivered his lead talk on “Lupus Nephritis- an update”. The CME attracted audience from various medical colleges and hospitals in and around Pondicherry, in addition to a large audience from JIPMER.
The department of Nephrology & Urology, JIPMER, organized a session of the Pondicherry Renal Sciences Society (PRSS) at JIPMER, on 18th December 2010. The CME session was held in the superspeciality block auditorium and had case presentations followed by discussions from the departments of nephrology and urology, JIPMER and dept of Nephrology, Pondicherry Institute of Medical Sciences (PIMS), Pondicherry. The session was attended by nephrologists and urologists from Pondicherry and Cuddalore and by residents from departments of Medicine, Nephrology & Urology from JIPMER and elsewhere.

The department of Nephrology organized a JIPMER Scientific Society (JSS) talk by Prof Georgi Abraham, Consultant Nephrologist, Madras Medical Mission Hospital, Chennai; Professor of Medicine, Pondicherry Institute of Medical Sciences, Puducherry; Chairman commission for Global Advancement in Nephrology, South Asia Region & Governing Council Member of the Internal Society of Nephrology, on “CKD in India & The application of Continuous Ambulatory Peritoneal Dialysis (CAPD) in the treatment of ESRD” on 4th November 2010.

B. PARTICIPATION IN CME / WORKSHOPS

Dr. R. P. Swaminathan

- Was Organizing Secretary of CME on Glomerular Diseases organized by the department of Nephrology on 21st January 2011
- Chaired a session on “Difficult to treat Nephrotic syndrome in Children – Treatment option” in the CME on glomerular diseases held on 21st January 2011.
- Chaired a session in the CME on prevention of complications of Diabetes held on 13th November 2010.

Dr. Sreejith Parameswaran

- Dr Sreejith Parameswaran participated in a workshop on “Percutaneous insertion of CAPD catheter at the bedside” held at Meenakshi Mission Hospital & Research Centre, Madurai, on 7th October 2010.
- Dr Sreejith Parameswaran participated in two quarterly CME sessions organized by the PRSS in August 2010 and February 2011 and PIMS, Pondicherry and General hospital, Pondicherry, respectively.
- Dr Sreejith Parameswaran participated in a CME on Recent developments in immunosuppression for Kidney transplantation held at Chennai in August 2010. Henrik Ekberg, Senior Transplant Surgeon at the University Hospital in Malmö, and Professor of Transplant Surgery at Lund University, Sweden, was the chief guest and delivered the lead talk on recent developments in immunosuppression in kidney transplantation.
- Dr Sreejith Parameswaran was invited as speaker at the world diabetes day celebrations at JIPMER, held on 13th November 2010 (a day before the actual World Diabetes Day) and delivered a lecture on ‘Prevention of Diabetic Kidney disease’.
- Dr Sreejith Parameswaran chaired the Pondicherry Renal Sciences Society (PRSS) meeting held in JIPMER, on 18th December 2010.
CONFERENCES

Dr. Sreejith Parameswaran

- Was invited as faculty at the Annual conference of Peritoneal Dialysis society of India (PDSICON 2010) held at Bangalore on 25th & 26th September 2010 and delivered a lecture on “Technical issues in PD: How to identify Drainage problems and its treatment”.
- Was invited as faculty at the annual conference of Indian Society of Nephrology (ISNCON 2010) held at Kovalam, Trivandrum, from 3rd to 5th December 2010 and was one of the speakers in the symposium on “Cardio-Renal Syndrome” and delivered a lecture on “The new classification of Cardio-renal syndrome : What is the evidence?”
- Presented the paper “Membranous glomerulopathy with nephrotic syndrome in a patient with leprosy with sustained remission following anti-leprosy chemotherapy – a case report” at the annual conference of Indian Society of Nephrology (ISNCON 2010) held at Kovalam, Trivandrum from 3rd to 5th December 2010

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.

PUBLICATIONS

A. Journal


B. Book chapter

PATIENT CARE SERVICES

The department of Nephrology started the following new patient care services during 2010-11:

1. Slow Low Efficiency Dialysis (SLED) – a form of slow dialysis for critically ill, hemodynamically unstable patients where intermittent hemodialysis is too risk or not possible.

2. Therapeutic Plasma Exchange (TPE) – using plasma filter is regularly being performed for various neurological, hematological and kidney disorders.

3. Continuous Ambulatory Peritoneal Dialysis (CAPD) – The first CAPD catheter insertion at JIPMER was performed on 6th January 2011. Percutaneous insertion of CAPD catheter (without surgical support) was performed at bedside in the department of Nephrology itself in all the 3 patients initiated on CAPD from the department so far.

4. Glomerular Diseases Clinic: An addition out-patient clinic was started on Mondays, from November 2010. The clinic is primarily intended for follow up of patients with glomerular diseases.

The department continues to provide speciality treatment for seriously ill patients and patients with chronic kidney problems

A. Clinical:

Facilities available in the department:

1. Hemodialysis
2. Slow Low Efficiency Dialysis (SLED)
3. Continuous Ambulatory Peritoneal Dialysis (CAPD)
4. Intermittent Peritoneal dialysis
5. Therapeutic Plasma Exchange
6. Kidney Biopsy (USG guided)

The department continues to provide speciality treatment for seriously ill patients and patients with chronic kidney problems

Number of Nephrology OPD patients : 4248
Number of Hemodialysis : 581 New patients, 2457 sessions
Number of Kidney biopsies : 89
Number of Percutaneous CAPD catheter insertions : 03
Intermittent Peritoneal Dialysis : 08
Nephrology consultations : 771
Therapeutic Plasma Exchange : 40 New cases and 166 sessions
AWARDS, HONOURS & SIGNIFICANT EVENTS

Dr. Sreejith Parameswaran

1. Dr Sreejith Parameswaran was invited as speaker by the Lions’ club of Pondicherry for an awareness program on organ donation held for the employees of the software company Integra solutions, Pondicherry on 29.04.2010.

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS:

Dr. R. P. Swaminathan

- Was appointed member of the institute core committee for Kidney transplantation at JIPMER.
- Was appointed member of the Kidney transplantation team at JIPMER
- Organizing secretary, CME on Glomerular Diseases, Organized by department of Nephrology, JIPMER, on 21st January 2011

Dr. Sreejith Parameswaran

- Was appointed member of the institute core committee for kidney transplantation at JIPMER
- Was appointed member of the kidney transplantation team at JIPMER
- Was appointed as the coordinator of the B.Sc. AMS-DT course from the Department of Nephrology

SIGNIFICANT EVENTS IN THE DEPARTMENT

1. Kidney transplantation program

The department of Nephrology, along with the department of urology, JIPMER, is in the process of starting a kidney transplantation program at JIPMER. An institute core committee for starting kidney transplantation was constituted for this purpose with representatives from various allied departments and senior administrators. After the committee was contented that JIPMER has the facility and competence to perform kidney transplantation, an application for registering JIPMER for performing kidney transplant operation was prepared and submitted to the director, JIPMER. In response to the director’s application for permission to start kidney transplantation, an expert committee constituted by the Director General of Health Services (DGHS), New Delhi, inspected the facilities at JIPMER on 12th March 2011.

2. Recruitment of Dialysis technicians:

The department of Nephrology recruited 3 new dialysis technicians during 2010-11 bringing the total number of dialysis technicians in the dept to a total of six.

Community service:

a. Dr Sreejith Parameswaran participated in the JIPMER outreach program to Karaikal district of Pondicherry and conducted regular Nephrology special OPD at Karaikal.

JIPMER 2010-2011/255
Visiting Professor:

Dr Jai Radhakrishnan, Associate Professor, Department of Medicine and Nephrologist, Columbia University, New York visited the department on 21st January 2011, Conducted ward rounds and bed side case discussion and gave lectures on the topics ‘Hypertension: A case based approach to treatment’ and ‘Evidence based approach to volume issues’ for residents in dept. of Medicine, and lead talk on ‘Lupus Nephritis – an update’ in the CME on Glomerular disease organized by the department on 21st February 2011.

Dr Georgi Abraham, Consultant Nephrologist, Madras Medical Mission hospital, Chennai, Professor of Medicine & Nephrologist, Pondicherry institute of Medical Sciences (PIMS), Chairman Commission for Global Advancement in Nephrology, South Asia Region & Governing Council Member of the Internal Society of Nephrology, visited the department on 4th November 2010 and gave lecture in JIPMER Scientific Society.
8.18 Neurology

Professor & Head
Sunil K Narayan

Assistant Professors
Pradeep P Nair
Sreejithesh PR
Praveen Kumar Sharma
Vaibhav Wadhekar

BACKGROUND INFORMATION OF THE DEPARTMENT

After short periods of leadership under Dr. L.C.Takur and Dr. Kuljith Singh Anand, the department has 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. Dr Narayan has been 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 8 inpatient beds and two weekly clinics but acquired state-of-the art equipment such as digital video-EEG machine, transcranial Doppler, digital ENMG/EP and carotid colour duplex scanner. The Department acquired laboratory technicians; one each for EEG (2004), ENMG (2007) and the neurovascular (2009) lab.

In 2004, two (Undergraduate 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, the 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 the Dr. Nanda memorial Gold Medal Examination in Neurology for MBBS house officers.

- We have obtained approval to start BSc Neurotechnology course.
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. Postdoctoral courses

- Department of Neurology conducts DM course in Neurology. Seats: 2
- Department co-guides PhD students in Pharmacology and physiology

D. Short term learning

- 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

The department conducted the following CMEs and Workshop during the year 2010-11:

- One-day CME on Update in Stroke on 20th October 2010 in connection with World Stroke Day.
- One-day CME on Update in Epilepsy in connection with World Epilepsy Day on 17th November 2010.
- Two-day workshop on Neurophysiology directed by Dr. Bagwan Sahai, honorary professor of neurophysiology and neurorehabilitation at University of Illinois on 21st and 22nd January 2010.
- Two-day workshop on Botulinum toxin therapy and deep brain stimulation on 24th and 25th April 2010. Dr. Rupum Borgohain, Professor of Neurology, Nizam’s Institute of Medical Sciences, Hyderabad was the resource person.

CONFERENCES

  i. Dr. Sunil K Narayan was a faculty for the CME programme and lectured on “Controversies in genetic diagnosis of neurodegenerative diseases.”
ii. Department presented the following paper: Srijithesh PR, Narayan SK, Sushma Sharma, Praveenkumar Sharma and Pradeep P Nair. Diagnosis, misdiagnosis and delayed diagnosis in migraine: experience from a quaternary care centre.

iii. Dr. Praveenkumar Sharma and Dr. Sushma Sharma attended the preconference neurointerventional workshop on 23rd September

- Annual national conference of Neurological Society of India, Jaipur, Rajasthan, 16th to 19th December 2011: the following papers were presented.
  i. Aditya Murgai, Venkatesh R, Abdoul Hamide, Narayan SK: JIPMER Neuro HIV registry: Comparison of CD4 counts in nervous system manifestations of HIV
  ii. Nirmala Vangapandu, Elizabeth, Habeebullah, Narayan SK: JIPMER Epilepsy in Pregnancy Registry- Excellent outcome with careful monitoring

- Annual national conference of Indian Stroke Association, Indore 12th to 13th March 2011. The following papers were presented:
  ii. Sushma S, Aditya Murgai, Praveenkumar Sharma, Vadivelan V, Ananthanarayanan PH and Narayan SK. JIPMER Stroke Clinic : 6 months data from a rural and semi urban background.

- Dr. Sunil K Narayan was an invited faculty at the joint 13th annual conference of Delhi Neurological Association (DNACON2011) AND tropicon 2011 held on January 29th to 30th and presented a paper on “Tropical Peripheral Neuropathy”.

- Dr. Sunil Narayan chaired a video-Neurology session on epilepsy at the Neocon 2010 held in Chennai on 3rd and 4th April 2010.

- Dr. Sunil Narayan attended a EBM workshop on “Evidence based medicine Toolkit training” conducted by American Academy of Neurology at Chennai from 3rd to 5th December 2010.

- Dr. Sunil Narayan attended a neuroophthalmology and neuro-otology workshops held at Chennai from 19th to 21st November 2010.

- Dr. Sunil Narayan, was an invited faculty in the Neuropsychology seminar held at the department of Psychology, University of Pondicherry on 25.9.2010 and presented a paper on “Association of Folic acid, B12 and Homocysteine with Cognitive decline”

- Dr. Narayan was an invited faculty at the Trichy Diabetes Association’s national workshop held on and lectured on management of stroke in diabetic patients on 26th February 2011.

- Dr. Pradeep Nair attended the Workshop on Randomized control trials and Principles of good GCP (sponsored by the office of the AIDS research, NIH&International clinical sciences support centre, FHI)-Trivandrum 2-5, 2010.
Dr. Srijithesh PR presented a case series on ‘nosographically uncharacterised’ cases of probable neuroimmunological origin in the Chennai neuroupdate on 7th January 2011.

Dr. Praveenkumar Sharma and Dr. Pradeep Nair attended the international workshop on Nerve and Muscle disorders held at GB Pant Hospitals, New Delhi on 18th-20th February 2011.

RESEARCH PROJECTS

1. Effectiveness of Nitric Oxide in Stroke: A multicentric international open labeled single blinded study-Principal investigator.

2. 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).


6. Association of total plasma homocysteine, vitamin B12 and folic acid levels and MTHFR gene polymorphisms with ischemic strokes in Tamil population-Intramural research grants (Principal investigator).

7. Association of thrombophilic factors (Protein C, Protein S, Antithrombin III, Factor V Leyden and antiphospholipid antibodies) –Intramural research grants (Co-investigator)

PUBLICATIONS

A. Journals


8. Shukla G, Srijithesh PR. Recognizing the importance of sleep-disordered breathing in cerebrovascular disease - an update. Indian J Sleep Med 2010; 5.2, 43-49


B. Book Chapter


PATIENT CARE SERVICES

A. Clinical

Outpatient Care: Stroke Clinic: The department started a stroke and TIA clinic in October 2010 which is attended by stroke neurologist and physiotherapists and stroke nurse. This is one-stop state of the art facility for investigations of transient ischemic strokes and completed strokes. The clinic provides TCD and carotid and vertebral colour duplex studies and gives direct access to CT, MRI, angiography, SPECT and biological studies for all patients with indications. The clinic can handle a turnout of upto 15 new and 50 follow-up patients.

General Neurology and Epilepsy Clinics: 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 tertiary level care and offer of free drugs for all common conditions. Department receives the support of a medical social worker on the outpatient days.

Inpatient care: Department has a 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 prednisolone and Immunoglobulin therapy for acute neuroimmunological diseases, antibiotic, antifungal and antiviral therapy for CN 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 acquired a functional electrical stimulator for artificial stimulation of paralysed muscles in neuromuscular diseases.

C. Community Work

Department conducted a public awareness programme on “Epilepsy” in connection with the World Epilepsy day on New therapeutic modalities in Stroke” in connection with the World Stroke Day observation on 20.10.2010.

Department of Neurology with Neurosurgery conducted 3 medical camps in Karaikkal at the JIPMER outreach centre. This was attended by around 100 patients on average

Dr. Sunil Narayan gave an interview on “Heriditary Neurological disorders, their transmission types, treatment options and preventive measures” in all India Radio, Puducherry on 6.10.2010.

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS
• Dr. Sunil Narayan was elected as an adjunct faculty in neurosciences for biotechnology for IIT, Chennai
• Dr. Sunil K Narayan was the Guest of honour at the World Stroke day meet at Pondicherry Institute of Medical Sciences on 29th October 2011.

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS
1. Dr. Sunil Narayan was an expert for the National Board for accreditation of hospitals for starting DipNB programme in Neurology.
2. Dr. Narayan was an expert for UPSC for selection of faculty to Neurology
3. He was also an examiner in Neurology for Dr. NTR and KEM medical universities.
4. Dr. Narayan was an expert for DST for evaluation of scientific projects for funding
5. He was also a selected expert for an international survey on stroke service monitoring in developing countries by World Stroke Organisation.

SIGNIFICANT EVENTS IN THE DEPARTMENT
1. Dr. Vaibhav Wadhvekar joined as assistant Professor on 21.3.2011.
3. Department of Neurology participated in the world Epilepsy day proceedings observed on 17.11.2010
4. Department of Neurology conducted an international Neurophysiology workshop 21st and 22nd January 2011.
5. Department of Neurology started participating in the randomized double-blind multicentric international Clinical trial on Effectiveness of Nitric oxide in stroke.

JIPMER 2010-2011 / 262
BACKGROUND INFORMATION OF THE DEPARTMENT

The department of neurosurgery in JIPMER came into existence in July 2006 when Dr. Roopesh Kumar and Dr. Gopalakrishnan joined as assistant professors. Drs. Hari and Shankar Ganesh subsequently joined as senior residents. Dr. Shankar Ganesh was appointed assistant professor in 2009 and in 2010 Dr. Venkatesh joined as assistant professor, bringing the faculty strength up to 4. In the initial stages, beds were provided in the CTVS ICU (Ward 47) and the Cardiology and CTVS wards. OT time was allotted in OT 7&8 in the main hospital building. Currently the department functions in the Superspecialty Block and has 18 general ward beds, 2 special ward beds and 6 ICU beds. In addition, patients requiring emergency neurosurgical care or observation are admitted in the EMS block. There is a dedicated Neurousurgery OT in the SSB OT complex.

EDUCATIONAL COURSES

A. Undergraduate Courses

Didactic lectures are delivered to M.B.B.S students in the 6th semester on the assessment, investigation and management of traumatic brain injury, spine injury and other common neurosurgical illnesses. Teaching relies heavily on multimedia formats, especially on illustrative videos. Modular teaching sessions on Coma, brain death and other Neurological disorders routinely involve a neurosurgical module.

B. Postgraduate Courses

M.S. General Surgery residents are posted in the department for a period of one month. They are trained comprehensively in management of traumatic brain injury and spine injury. Besides this, they are also involved in the critical care management of patients with head and spine trauma as well as other neurological disorders. The residents perform supervised surgery for head trauma and routinely assist at elective neurosurgical procedures. They attend all departmental academic sessions.

M.S. ENT residents are trained for a period of 15 days. Neurological assessment of patients with special emphasis on neuro-otology in 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 Theresa College of Physiotherapy are sent 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 program.

C. Other Courses

These include training students of ‘Prehospital trauma care technology’ – a diploma course. Students are trained in ‘on site’ assessment and initial management of patients with head injury.

CONTINUING MEDICAL EDUCATION PROGRAMS

Dr. V.R. Roopesh Kumar

- Was invited faculty for a CME organized by the Cluny Hospital, Pondicherry in September, 2010.
- Delivered a talk on The Role of Microneurosurgery in a CME organized by the IMA, Cuddalore Branch, Cuddalore in November 2010.
- Participated in a live phone-in program organized by the Doordarshan, Pondicherry on Management of Cephalalgia.
- Delivered a talk on The Neurosurgical Evaluation and Management of Head Injury in a CME organized by the Department of General Surgery, Raja Muthaiah Medical College, Annamalai Nagar in February 2011.
- Participated in a live phone-in program organized by the Doordarshan, Pondicherry on Management of Spinal Disorders.

Dr. Gopalakrishnan M.S.

- Participated in a live phone-in program organized by the Doordarshan, Pondicherry on Management of Cephalalgia.

CONFERENCES

Dr. V.R. Roopesh Kumar

- Attended the Ginde Memorial oration conducted by the Bombay Hospital, Mumbai in April 2010.
• Attended the 19th Annual Conference of the Neurotrauma Society of India in August 2010 in Chennai.

• Attended the Annual Conference of the Skull Base Society of India organized by the SCTIMST, Trivandrum in October 2010.

• Attended the Workshop on Spine Surgery at AIIMS, New Delhi in November, 2010.

• Attended the Joint Annual Conference of the Congress of Neurologic Surgeons and the Neurological Society of India at Jaipur in December 2010.

• Was invited faculty and delivered a talk in the symposium on Pathophysiology of Traumatic Brain Injury in the Joint Annual Conference of the Congress of Neurologic Surgeons and the Neurological Society of India at Jaipur in December 2010.

Dr. Gopalakrishnan M.S.

• Attended the Ginde Memorial oration conducted by the Bombay Hospital, Mumbai in April 2010.

• Attended the Annual Conference of the Indian Society of Cerebrovascular Surgery at Bhubaneshwar in September 2010.

• Attended the Joint Annual Conference of the Congress of Neurologic Surgeons and the Neurological Society of India at Jaipur in December 2010.

• Presented a paper titled “Surgical exposure of the median nerve: cadaveric dissection” at the Joint Annual Conference of the Congress of Neurologic Surgeons and the Neurological Society of India at Jaipur in December 2010.

• Attended the NIH workshop on Clinical trials and good clinical practices at SGPGI, Lucknow in December 2010.

• Attended the NIH workshop on Observational studies at Mumbai in March 2011.

• Attended the first Short Course on Basic Epidemiology and Statistics conducted by the Department of Community Medicine, JIPMER in March 2011.

Dr. C. V. Shankar Ganesh

• Attended the 2nd Annual Conference of the Indian Society of Neuro-Oncology in Mahabalipuram in April 2010.

• Attended the 19th Annual Conference of the Neurotrauma Society of India in August 2010 in Chennai.

• Attended the Annual Conference of the Indian Society of Cerebrovascular Surgery at Bhubaneshwar in September 2010.

• Attended the Annual Conference of the Skull Base Society of India organized by the SCTIMST, Trivandrum in October 2010.

JIPMER 2010-2011/265
Dr. Venkatesh S. Madhugiri

- Attended the 1st Annual Workshop on Surgery for Movement Disorders at M S Ramaiah Medical College, Bangalore in April 2010.
- Attended the 8th Annual Conference of the Tropical Neurology Section of the Indian Academy of Neurology at JIPMER, Pondicherry in 2010.
- Attended the Annual Conference of the Skull Base Society of India organized by the SCTIMST, Trivandrum in October 2010.
- Attended the Medtronic-Midax Rex workshop on pneumatic drill usage and techniques held at the Sree Chitra Tirunal Institute of Medical Sciences and Technology, Trivandrum in October 2010.
- Attended the Joint Annual Conference of the Congress of Neurologic Surgeons and the Neurological Society of India at Jaipur in December 2010.
- Attended the first Short Course on Basic Epidemiology and Statistics conducted by the Department of Community Medicine, JIPMER in March 2011

RESEARCH PROJECTS

- The Role of SPECT CT in Traumatic Brain Injury (ongoing) (Principal Investigator - Dr. V. R. Roopesh Kumar, under ICMR)
- A study of CSF lactate levels in patients with tethered cord - a pilot study (ongoing) (Principal Investigator - Dr. Venkatesh S. Madhugiri)

PUBLICATIONS

Journals

PATIENT CARE SERVICES

The department of Neurosurgery holds outpatient clinics on every Monday and Wednesday. All patients with neurosurgical problems are seen and treated. The average OPD attendance varies between 100-150. OTs are held on Monday, alternate Tuesdays, every Friday and Saturday. All simple and complex neurosurgical procedures are performed. The faculty have specific subspecialty expertise in neurovascular surgery, surgery for skull base lesions, surgery for CV junction disorders, peripheral nerve surgery, spinal diseases, pediatric neurosurgery and neuro-oncology. Minimal access approaches for vascular and skull base lesions are being performed. Endoscopic pituitary surgery is now routinely performed. Recently, the department has begun performing endoscopic intraventricular surgery. Head and Spine trauma cases are routinely managed in the EMS department, and operated as required. The average number of patients referred to neurosurgery in EMSD is 15-20 per day. The number of emergency neurosurgical procedures performed is 50-60 per month. The department handles a large number of interdepartmental intramural referrals. These number 90-100 per month.

AWARDS, HONORS AND OTHER PERSONAL ACHIEVEMENTS

- Dr. Roopesh Kumar won the Best Paper award at the Annual Conference of the Skull Base Society of India organized by the SCTIMST, Trivandrum in October 2010 for his paper titled “Facial nerve preservation in cerebellopontine angle tumors”
- Dr. Venkatesh S Madhugiri was granted membership of the Congress of Neurologic Surgeons.

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

- Dr Roopesh Kumar was member of the technical committee of the PMSSY project.

SIGNIFICANT EVENTS IN THE DEPARTMENT

Commencement of the MCh neurosurgery program with one resident in August 2010.

Dr. George K Jallo, Professor of Neurological Surgery, Pediatrics and Oncology, Clinical Director of Pediatric Neurosurgery and Director, Neurosurgery Residency Program at the Johns Hopkins School of Medicine, Baltimore, USA visited the department and interacted with the faculty and residents. He also delivered two lectures in the JSS monthly meeting as external orator on “Current concepts in management of hydrocephalus” and “Current concepts in pediatric neurocritical care.”
# 8.20 Nuclear Medicine

**Assistant Professor**
Dhanapathi Halanaik

## BACKGROUND INFORMATION OF THE DEPARTMENT

The department has one SPECT-CT gamma camera, 2 isotope dose calibrators, 2 contamination monitors and 2 radiation survey monitor. We are receiving Technetium isotope generator of 250 mCi, cold kits, Iodine-131 of 5mCi and 3 mCi capsules from April-2010. The department is performing most of the general nuclear medicine studies like bone scan, thyroid scan, myocardial perfusion scan, hepato-biliary scan, renal scan (DTPA & DMSA), lymphoscintigraphy, brain perfusion scan, gastrointestinal studies and Iodine-131 whole body scan for carcinoma thyroid patients. We are also treating hyperthyroidism patients with 5mCi of Iodine-131 capsules.

A total of 3630 studies have been performed between 1st April 2010 to 31st March 2011 and 91 patients of hyperthyroidism were treated with Iodine-131.

## CONTINUING MEDICAL EDUCATION PROGRAMMES

**Dr. Dhanapathi Halanaik**

a. Participated in the discussion panel on “FDG PET.CT in thorax and abdomen malignancy” in 16th Annual conference of society of Nuclear Medicine India, southern chapter 2010 on 18th & 19th September 2010 at Global hospital, Chennai.

b. “Attended CME on early and locally advanced breast carcinoma” at RCC, JIPMER on 8th August 2010.

c. “Attended CME on prostate and urinary bladder carcinoma” at RCC, JIPMER on 8th August 2010.

## PUBLICATIONS

**Dr Dhanapathi Halanaik**


JIPMER 2010-2011 / 268


PATIENT CARE SERVICES

A total of 3630 studies have been performed between 1st April 2010 to 31st March 2011 and 91 patients of hyperthyroidism were treated with Iodine-131.

AWARDS, HONOURS, AND OTHER PERSONAL ACHIEVEMENTS

The nuclear Medicine department received 3rd best award in OPD services on hospital day function held on 30th October-2010.
8.21 Obstetrics and Gynaecology

<table>
<thead>
<tr>
<th>Professor &amp; Head</th>
<th>S. Habeebullah</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professors</td>
<td></td>
</tr>
<tr>
<td>P. Reddi Rani</td>
<td>S. Soundararaghavan</td>
</tr>
<tr>
<td>Dasari Papa</td>
<td>Latha Chaturvedula</td>
</tr>
<tr>
<td>Professors</td>
<td></td>
</tr>
<tr>
<td>S. Haritha</td>
<td>P. Veena</td>
</tr>
<tr>
<td>K. Manikandan</td>
<td>K. Jayalakshmi</td>
</tr>
<tr>
<td>R. Sasirekha</td>
<td>Anish Keepanasserill</td>
</tr>
<tr>
<td>Assistant Professors</td>
<td></td>
</tr>
<tr>
<td>N.S. Kubera</td>
<td>Dilip Kumar Maurya</td>
</tr>
</tbody>
</table>

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 13 consultants and 10 senior residents. Each year 8 postgraduates are inducted into the MS Obstetrics and Gynaecology postgraduate programme.

On an average 1,10,000 outpatients and 20,000 In-patients are treated per year. The average number of deliveries and major surgeries per year are over 15,000 and 1200 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, basic management of 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 a Human Reproductive Research Centre under the ICMR.
EDUCATIONAL COURSES

A. Undergraduates

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 semesters 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, Professor is the faculty of NTTC since September 2004 and is 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. Postgraduates

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 presentations in symposia, journal clubs, 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.

Senior Residents and Junior Residents attended five camps for pregnant women, Geriatric age group and adolescents in and around Pondicherry.

PROJECTS

Dr. Dilip Kumar Maurya
- Thyroid Dysfunction among antenatal women

Dr. Manikandan.K
- Effect of mid trimester yoga on the incidence of preeclampsia in high risk women.
- Chromosomal abnormalities among fetuses with structural anomalies.
- Fetal growth charts for South Indian Population.

CONTINUING MEDICAL EDUCATION PROGRAMS

- The dept in collaboration with FOGSI, Pondicherry organised CME on “Adolescent gynaecology” on 13.2.2011. Dr. Veena.P presented a talk on “Management dilemma of ovarian tumour”

JIPMER 2010-2011/271
Dr. S. Habeebulah

- Attended Bangalore Society of Obstetrics & Gynaecology CME 2010 at Bangalore on 19.6.2010 and conducted case discussion on “Ovarian Tumour” and conducted “ward rounds”.
- Attended State Level Workshop for “Orientation on Maternal Death Review” (MDR) at Pondicherry on 29.1.2011 organised by Puducherry State Health Mission (NRHM)

Dr. Dasari Papa

- Took part of the team which trained anganwadi workers under ICDS scheme. Dr. Dasari Papa gave a talk on “Antenatal Nutrition” at Pondicherry on 20.9.2010 and Dr. Manikandan gave a talk on “Antenatal Nutrition” at Karaikal on 27.9.2010.

Dr. Latha Chaturvedula

- Gave a talk on requirements for imparting training to undergraduates in emergency obstetric care at Amala Institute of Medical Sciences, Kerela on 16.11.2010.

Dr. Manikandan

- Took part of the team which trained anganwadi workers under ICDS scheme. Dr. Dasari Papa gave a talk on “Antenatal Nutrition” at Pondicherry on 20.9.2010 and Dr. Manikandan gave a talk on “Antenatal Nutrition” at Karaikal on 27.9.2010.

CONFERENCES

Dr. S. Habeebullah

- Attended 54th All India Congress of Obstetrics & Gynaecology conference from 5.1.2011 to 9.1.2011 at Hyderabad and delivered lecture on “Staging and surgical management of cancer endometrium”
- Discussed “Ca endometrium” and “post caesarean pregnancy” at “OG Quest 2011” at Sri Ramachandra Medical College and Research Institute, Porur, Chennai on 8.2.2011.

Dr. Reddi Rani

- Gave a talk on “Diagnosis and Management of IUGR” in Neonatology Conference 2010 at JIPMER held from 19.11.2010 to 21.11.2010
- Attended 54th All India Congress of Obstetrics & Gynaecology conference from 5.1.2011 to 9.1.2011 at Hyderabad and gave a talk on “How to manage and when to deliver an IUGR Fetus” on 7.1.2011
Dr. S. Soundararaghavan


Dr. Dasari Papa

- Attended 3rd International Conference on Drug delivery and Therapy at Dubai, UAE from 7.2.2011 to 10.2.2011 and Poster presentation on “Maternal and fetal outcome in women with GDM on Diet and Metformin – a Preliminary retrospective analysis”.

Dr. Latha Chaturvedula

- Gave a talk on antihypertensive therapy in pre eclampsia at Obstetric and Gynaecological Society of South India, Chennai on 13.11.2010.
- Presented a talk on “Intensive care in eclampsia” at 54th All India Congress of Obstetrics & Gynaecology conference from 5.1.2011 to 9.1.2011 at Hyderabad.

Dr. Dilip Kumar Maurya


Dr. Dr.Kubera.N.S


RESEARCH PROJECTS

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
- Hospital based surveillance of female genital fistula

PUBLICATIONS

Journals


JIPMER 2010-2011 / 274

PATIENT CARE SERVICES

<table>
<thead>
<tr>
<th>S.No</th>
<th>Clinics</th>
<th>New</th>
<th>Old</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>General OPD</td>
<td>6/week</td>
<td>Obst – 19405</td>
<td>36586</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6/week</td>
<td>Gynae – 18195</td>
<td>29035</td>
</tr>
<tr>
<td>2</td>
<td>Cancer Clinic</td>
<td>1/week</td>
<td>633</td>
<td>2080</td>
</tr>
<tr>
<td>3</td>
<td>Infertility Clinic</td>
<td>1/week</td>
<td>180</td>
<td>253</td>
</tr>
<tr>
<td>4</td>
<td>Post Natal clinic</td>
<td>1/week</td>
<td>1379</td>
<td>1409</td>
</tr>
</tbody>
</table>

Operations Performed

Gynaecology

- Major Abdominal surgery: 631
- Major Vaginal Surgery: 398
- Oncology Surgery: 160
- Diagnostic Lap/Hysteroscopy: 91
- Operative Laparoscopy: 14
- D&C/FC/EA: 729
- Biopsies/Polypectomy: 1597
- Cystoscopy/Cryo/colposcopy: 95
- Papsmear: 7093
- MTP: 174
Obstetrics

Deliveries 15696
Vaginal deliveries 13028
Operative vaginal deliveries 1918
LSCS 2633
Emergency Laparotomy 34
NST 413
USG 12396

Side Laboratory Investigations (O&G)

Blood
Hb 15168
BT, CT 7668
TC, DC 990
ESR 567
Blood Grouping 3415

Urine
Routine & Microscopy 5756
Pregnancy Test 582
Ketones 60
BS 23
Albumin 35094

Stool
Ova/ cyst 167
Occult bld 49

POSTPARTUM PROGRAMME

Achievement of different family planning methods

Method Achievement
Copper T
Oral Pills 157
Condoms 138
Sterilisation (Tubectomy) 2,531
Vasectomy 1
Immunization Particulars

OPV

JIPMER OPD

‘0’ dose 13,039

Service Area

I dose 60
II dose 59
III dose 63
Booster dose 67

DPT

I dose 60
II dose 59
III dose 63
Booster dose 67

Hepatitis B

I dose 62
II dose 59
III dose 64
Measles 45
MMR 64

T.T

I dose 52
II dose 58

Vitamin A

I dose 18
II dose 37
III dose 37
IV dose 32
V dose 35

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr. Habeebullah

- President of Obstetrics & Gynaecology Society of Pondicherry.
- Member of State Level Assurance Committee for improving the Quality of Family Welfare Services under the National Welfare Programme.
- Member of pre-conception and Pre-Natal diagnostic technique (PNDT) Advisory committee.
- Reviewer for articles in the journal of Obst & Gyn India.

Dr. S. Soundararaghavan

- Referee for reviewing articles for Fertility & Sterility.
- International referee for reviewing articles for British Medical Journal.

Dr. Latha Chaturvedula

- Faculty for PG orientation session on Ethics for medical doctors.
8.22 Ophthalmology

<table>
<thead>
<tr>
<th>Professor &amp; Head</th>
<th>Vasudev Anand Rao</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor</td>
<td>Renuka Srinivasan</td>
</tr>
<tr>
<td>Assistant Professors</td>
<td>Subashini Kaliaperumal, K. Ramesh Babu, Shashi Ahuja</td>
</tr>
</tbody>
</table>

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

Undergraduate

The teaching programme consists of theory classes and clinical postings in 6th and 7th semesters of MBBS curriculum which includes modular and integrated teaching.

Postgraduate

The postgraduate courses offered consists of MS only with a intake of 5 candidates every year.

CONTINUING MEDICAL EDUCATION PROGRAMS

- The department of Ophthalmology organized the following CME Organised CME 27-28 August 2010 “Medical Advances in Posterior Segment Disorders”. Guest Speaker – Dr. Vishali Gupta, PGIMER, Chandigarh Venue- Cardiology Seminar Room, SS Block, JIPMER.
- Dr. Vasudev Anand Rao was the faculty for Kalpavriksha 2010 – The National Postgraduate CME programme from 26-29 August, 2010 at Dr. Agarwal’s Eye Hospital and Eye Research Centre, Chennai
- Chairman of Symposium on “Update in Ophthalmology” on 13th March 2011, organized by Vasan Eye Care, Pondicherry.
- Dr. Renuka Srinivasan participated in CME on ocular Fundus examination in General Medicine on 29.9.10 at MGMRC, Pondicherry.
• Dr. Renuka Srinivasan attended “International Council of Ophthalmology Residency Program Director’s course”, 4th – 5th October 2010 at Hyderabad.

• Dr. Renuka Srinivasan delivered a Guest Lecture on “Systemic Ophthalmology: More than meets the eye”. Chairperson for Symposium on “Pediatric Ophthalmology”

• Dr. Subashini Kaliaperumal was the Invited Speaker for a symposium on “Update in Ophthalmology” conducted by Vasan eye care, Puducherry on 13th March 2011(Sunday). Gave a talk on “Current Concepts in Glaucoma surgery”

CONFERENCES

Dr. Vasudev Anand Rao:

1. Gave Lead Talk on “Diabetic Retinopathy – An Ophthalmologist Perspective” on 26th April 2010 JIPMER Scientific Society in Conference Hall, SS Block, JIPMER.

2. Presenting author of the following two papers in the 29th Karnataka State Ophthalmic Conference held from 29th to 31st October 2010.
   a. Minitrabeculectomy in comparison to conventional Trabeculectomy in primary open angle glaucoma
   b. Goldenhar’s sequence with associated Juvenile glaucoma in Turner’s syndrome.

3. Participated in the 5th International Congress on Glaucoma Surgery held from November 11-13th 2010 at New Delhi. Two Scientific Papers were presented at the Congress.

4. Participated in the 69th Annual All India Ophthalmological Conference held in Ahmedabad from 3rd to 6th February 2011 and presented three Scientific Papers.

Dr. Renuka Srinivasan

• Organised and participated in Teachers training on eye care at Karaikal 19-21 July 2010.

• Annual Conference of Tamil Nadu State Ophthalmology conference July 30, 2010 to August 1, 2010 and gave:

• Authored Papers presented at the 69th AIOS Ahmedabad Feb 2011.
   a. Late probing for nasolacrimal duct obstruction.

Dr. Subashini Kaliaperumal

• Participated in the Annual Conference of Indian Intraocular Implant & Refractive Society, 10-11 July 2010 Taj Coromandel, Chennai

• Attended the conference “Neurophthalmology Update” at Aravind Eye Hospital, Puducherry on 30th and 31st October 2010.

• Attended the “5th International Congress on Glaucoma Surgery” held from November 11-13th 2010 at New Delhi.

• Participated in the “International Conference of Oculoplastic and reconstructive Surgery” (Chrysalis 2011) held at Sankara Nethralaya on January 16th and 17th 2011

JIPMER 2010-2011/279
Dr. Ramesh Babu

- Attended the Annual Conference of Indian Intraocular Implant & Refractive Society, 10-11 July 2010 Taj Coromandel, Chennai

Dr. Shashi Ahuja

- Attended the 69th Annual All India Ophthalmological conference held in Ahmedabad from 3rd to 6th February 2011.

RESEARCH PROJECTS

A. Funded projects

**Ongoing**

   Principal Investigator- Dr Renuka Srinivasan
   Co-investigators- Dr. Arvind Gupta

   Principal Investigator- Dr Subashini Kaliaperumal
   Co-investigator- Dr. Vasudev Anand Rao

3. Iris fluorescein angiography and correlation with aqueous levels of homocysteine and vascular endothelial growth factor in pseudoxfolliation syndrome. (Inter-departmental)
   Principal Investigator- Dr Subashini Kaliaperumal
   Co-investigators- Dr. Vasudev Anand Rao, Dr Soundaravally, Dr PH Ananthanarayan

4. Aqueous VEGF and IL – 6 levels is diabetic retinopathy. (Inter-departmental)
   Principal Investigator- Dr Shashi Ahuja
   Co-investigators- Dr Renuka Srinivasan, Dr Datta Pandian, Dr. Sivaprasad, Dr. Medha, Dr. PH Ananthanarayan

B. Departmental projects

**Ongoing**

- Anterior segment changes in eyes with pseudoxfolliation syndrome
- Association of systemic hypertension with glaucoma – An observational study.
- Efficacy and safety of intravitreal triancinolone acetonide in refractory diabetic macular edema
- Preoperative subterygeal injection and intraoperative topical mitomycin C for pterygium removal : Comparison of recurrence rate and complications.
- Role of topical NSAIDS in the prophylaxis of CME following uncomplicated Phacoemulsification surgery.

JIPMER 2010-2011/280
Retinal nerve fiber layer changes in patients on long term Chloroquine/Hydroxychloroquine therapy using OCT.

Ocular manifestations of rheumatoid arthritis – a Descriptive study

Effect of grid laser photocoagulation on visual acuity and macular thickness (as measured by OCT) in diabetic macular edema.

**Completed**

- Visual morbidities in macular disorders in adults.
- Factors affecting outcome of Pan Retinal Photocoagulation in Proliferative diabetic retinopathy.
- Outcome of small incision cataract surgery in pseudoexfoliation.

**PUBLICATIONS**


**PATIENT CARE SERVICES**

A.Clinical

No. of surgeries:

<table>
<thead>
<tr>
<th></th>
<th>Inpatient</th>
<th>Outpatient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elective</td>
<td>1516</td>
<td></td>
</tr>
<tr>
<td>Emergency</td>
<td>65</td>
<td></td>
</tr>
</tbody>
</table>

JIPMER 2010-2011/281
<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>Total: 1287</td>
</tr>
<tr>
<td>2.</td>
<td>Scleral fixation</td>
<td>17</td>
</tr>
<tr>
<td>4.</td>
<td>Trabeculectomy</td>
<td>12</td>
</tr>
<tr>
<td>5.</td>
<td>Combined surgery</td>
<td>14</td>
</tr>
<tr>
<td>6.</td>
<td>Squint Correction</td>
<td>3</td>
</tr>
<tr>
<td>7.</td>
<td>Evisceration</td>
<td>2</td>
</tr>
<tr>
<td>8.</td>
<td>Enucleation</td>
<td>2</td>
</tr>
<tr>
<td>9.</td>
<td>Anterior Retinal Cryotherapy</td>
<td>4</td>
</tr>
<tr>
<td>10.</td>
<td>Corneal tear repair</td>
<td>15</td>
</tr>
<tr>
<td>11.</td>
<td>Scleral tear repair</td>
<td>11</td>
</tr>
<tr>
<td>12.</td>
<td>Penetrating Keratoplasty</td>
<td>28</td>
</tr>
<tr>
<td>13.</td>
<td>Triple Procedure</td>
<td>8</td>
</tr>
<tr>
<td>14.</td>
<td>Anterior Vitrectomy</td>
<td>62</td>
</tr>
<tr>
<td>15.</td>
<td>Pars plana vitrectomy</td>
<td>2</td>
</tr>
<tr>
<td>16.</td>
<td>D.C.R.</td>
<td>13</td>
</tr>
<tr>
<td>17.</td>
<td>Lamellar Keratoplasty</td>
<td>6</td>
</tr>
<tr>
<td>18.</td>
<td>D.C.T.</td>
<td>3</td>
</tr>
<tr>
<td>19.</td>
<td>Probing</td>
<td>8</td>
</tr>
<tr>
<td>20.</td>
<td>Cycophoto Coagulation</td>
<td>5</td>
</tr>
<tr>
<td>21.</td>
<td>Entropion Repair</td>
<td>1</td>
</tr>
<tr>
<td>22.</td>
<td>EUGA</td>
<td>5</td>
</tr>
<tr>
<td>23.</td>
<td>Manual I/A</td>
<td>25</td>
</tr>
<tr>
<td>24.</td>
<td>Orbital Implant</td>
<td>4</td>
</tr>
<tr>
<td>25.</td>
<td>AC Reformation</td>
<td>2</td>
</tr>
<tr>
<td>26.</td>
<td>Resuturing</td>
<td>8</td>
</tr>
<tr>
<td>27.</td>
<td>Iris repositioning</td>
<td>29</td>
</tr>
<tr>
<td>28.</td>
<td>Lens matter aspiration</td>
<td>27</td>
</tr>
<tr>
<td>29.</td>
<td>IOL Repositioning</td>
<td>8</td>
</tr>
<tr>
<td>30.</td>
<td>IOL explantation</td>
<td>13</td>
</tr>
<tr>
<td>31.</td>
<td>Amniotic membrane transplantation</td>
<td>13</td>
</tr>
<tr>
<td>32.</td>
<td>Intra Vitreal Antibiotics</td>
<td>23</td>
</tr>
<tr>
<td>33.</td>
<td>Intra Cameral AB</td>
<td>26</td>
</tr>
<tr>
<td>34.</td>
<td>Dermoid Cameral AB</td>
<td>5</td>
</tr>
<tr>
<td>35.</td>
<td>Excision Biopsy</td>
<td>16</td>
</tr>
<tr>
<td>37.</td>
<td>Pterygium excision</td>
<td>6</td>
</tr>
<tr>
<td>38.</td>
<td>Pterygium excision Conj. Autograft</td>
<td>7</td>
</tr>
<tr>
<td>39.</td>
<td>ACIOL Implantation</td>
<td>14</td>
</tr>
<tr>
<td>41.</td>
<td>ICCE</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------</td>
<td>----------------</td>
<td>-------</td>
</tr>
<tr>
<td><strong>Miscellaneous</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>42. I &amp; D</td>
<td></td>
<td>180</td>
</tr>
<tr>
<td>43. Chalazion(I &amp; C)</td>
<td></td>
<td>175</td>
</tr>
<tr>
<td>44. Tarsorrahaphy</td>
<td></td>
<td>74</td>
</tr>
<tr>
<td>45. Suture Removal</td>
<td></td>
<td>141</td>
</tr>
<tr>
<td>46. Caterpillar hair removal</td>
<td></td>
<td>42</td>
</tr>
<tr>
<td>47. Fb removal (extraocular)</td>
<td></td>
<td>268</td>
</tr>
<tr>
<td>48. Syringing</td>
<td></td>
<td>6931</td>
</tr>
<tr>
<td>49. Schrimers Test</td>
<td></td>
<td>3637</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Clinics</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Fundus clinic</td>
<td>884</td>
</tr>
<tr>
<td>2. Glaucoma clinic</td>
<td>539</td>
</tr>
<tr>
<td>3. Post operative clinic</td>
<td>2163</td>
</tr>
<tr>
<td>4. Cornea clinic</td>
<td>407</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Special investigation and procedure</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Post Mydriatic Test</td>
<td>4085</td>
</tr>
<tr>
<td>2. Refraction</td>
<td>7993</td>
</tr>
<tr>
<td>3. Keratometry</td>
<td>1663</td>
</tr>
<tr>
<td>4. Contact lens</td>
<td>108</td>
</tr>
<tr>
<td>5. Yag Laser</td>
<td>239</td>
</tr>
<tr>
<td>6. A Scan</td>
<td>1674</td>
</tr>
<tr>
<td>7. Automated Perimetry</td>
<td>345</td>
</tr>
<tr>
<td>8. FAG</td>
<td>117</td>
</tr>
<tr>
<td>9. PanRetinal Photocoagulation</td>
<td>111</td>
</tr>
<tr>
<td>10. Laser Iridotomy</td>
<td>41</td>
</tr>
<tr>
<td>11. Pachymetry</td>
<td>207</td>
</tr>
<tr>
<td>12. OCT</td>
<td>475</td>
</tr>
</tbody>
</table>

**Procurement of equipment**

Optical Coherence Tomography bought on 5/4/2010 at a cost of Rs 31,44,084/- This is an imaging modality which can generate high resolution, cross sectional images in biological systems by measuring the echo time delay of optical backscattering.

This is a new diagnostic tool and is akin to invivo histopathology of the retina and useful in retinal disorders and glaucoma.
ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. Vasudev Anand Rao

- Participated in assessors’ interaction meeting (Health Sciences) held in National Assessment and Accreditation Council (NAAC), Bangalore from 3-4th November 2010.
- Chairman by DGHS for registration of GB Pant Hospital, Port Blair, for corneal transplantation facilities under THOA Act 1994.
- Acting Director JIPMER on 21.12.10 to 22.12.10.
- Acting Director and Medical Superintendent, JIPMER on 19.12.10.
- Acting Medical Superintendent, JIPMER from 21.12.10 to 22.12.10.
- Acting Dean from 14.12.10 to 22.12.10.
- Member selection committee for the post of Professor for Indira Gandhi Medical College and Research Institute, Puducherry on 26.10.10.
- Member, Selection Committee for conducting written test/interview for the post of Senior Resident, JIPMER on 15.9.10.
- Chairman, Committee for inspection of GB Pant Hospital, Port Blair and advising on the suitability of the hospital for registration of corneal transplantation under transplantation of human organs act 1994.
- Organised CME 27-28 August 2010 “Medical Advances in Posterior Segment Disorders”. Guest Speaker – Dr. Vishali Gupta, PGIMER, Chandigarh Venue Cardiology Seminar Room, SS Block, JIPMER.

Dr. Renuka Srinivasan

DNB Inspections for Accreditation

- Southern Railways Head Quarters Hospital 14.10.10.
- Vishaka Eye Hospital 11.10.10.
- AI Salama Eye Hospital Perunthalnamma 24.8.10 Kerala.
- Amritha Institute June 3, 2010, Cochin.
- KG Hospital on 25.4.10 at Coimbatore.
- Jubilee Hospital Trissur, May 2010.
- Sadguru Netra Chikitsalaya Chitrakoot March 30, 2011.
SIGNIFICANT EVENTS OF THE DEPARTMENT

Teleophthalmology Project

The Tele-ophthalmology project was granted to the Department of Ophthalmology by the NPCB, Ministry of health and family welfare in August 2008. Dr. 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 like non-mydriatic fundus camera are 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: 505 patients with cataract were brought from camp site to the hospital for surgery.

Free Spectacles: Over 1843 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 camp site. Various NGO’s who join hands with us are also motivated in spreading awareness on eye donation. This has increased our cornea retrieval rate.

School Screening : 4,273 school students in 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.

Diabetic Screening : 6,517 known diabetics were screened under this project in the last one year. Over 222 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 222 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. 208 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 July 2010, wherein 147 teachers from 109 schools in Karaikal 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.

JIPMER 2010-2011/285
This programme has been a great success since we have received feedback from almost all schools. More than 1,06,417 school children from 109 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 students at their respective schools.


World Glaucoma Week was observed from March 6TH TO 12TH 2011 to create awareness and organize educational events about glaucoma. The Department of Ophthalmology organized special free screening for GLAUCOMA for the whole week starting 7th March and ending 12th March in the Outpatient block. Around 300 patients visited the OPD for this special screening. Further evaluation of 42 of them suspected to have glaucoma was done. The staff of JIPMER was also screened. An educational material on glaucoma was published in local and leading newspapers.

A video coverage of the inauguration of the Glaucoma week in the eye OPD premises in the presence of Dr. Ashok Kumar Das, Medical Superintendent (MS) of JIPMER, and Dr. Vasudev Anand Rao, Professor and Head of Department of Ophthalmology was taken and this was also published in the newspapers. An awareness speech was given by the Medical Superintendent in English and the Tamil version was given by Dr Subashini, Assistant Professor, Department of Ophthalmology. Leaflets about glaucoma were distributed to the patients. Posters and banners were put up in important venues in JIPMER. Video CD on glaucoma provided by Allergan drug company was screened in Tamil in the OPD corridor.
8.23 Orthopaedic Surgery

<table>
<thead>
<tr>
<th>Professor &amp; Head</th>
<th>D.K. Patro</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional Professor</td>
<td>Jagdish Menon</td>
</tr>
<tr>
<td></td>
<td>Murali Poduval</td>
</tr>
<tr>
<td>Assistant Professor</td>
<td>Nataraj A.R</td>
</tr>
<tr>
<td></td>
<td>Sreenivas .T</td>
</tr>
<tr>
<td></td>
<td>Deep Sharma</td>
</tr>
</tbody>
</table>

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 (One of the few centres 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 5 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 - 5 Seats
- 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.
Dr Jagdish Menon

- Faculty at National conference of Interlocking Surgeons of India at Kolkata in Sep. 2010.
- Delivered faculty lecture entitled “Early nailing in polytrauma” at the same conference.

Dr. Murali Poduval

2. Faculty for AK Talwalkar symposium on Open Tibial fractures November 2010 – Bombay Orthopaedics Society western India Regional Orthopaedic Conference [WIROC-2010].

CONFERENCES

Dr. Jagdish Menon

- Attended the Paediatric Orthopaedic Society of India Annual Meeting at Chandigarh on 24th – 26th Jan 2011.

Dr. Murali Poduval


Dr. Nataraj AR

- Attended IOACON (Annual Conference of Indian Orthopaedics Association) 2010 at Jaipur from 9th to 13th December 2010 and presented a poster on “Type.III Monteggia fracture dislocation with type-I Epiphyseal injury of the distal radius, a case report “.
- Indo-US Advances & Technologies in Foot and Ankle Surgery Second Annual Course. Ganga Hospital, Coimbatore, January 14th to 16th 2011.

Dr. Sreenivas T

- Indo-US Advances & Technologies in Foot and Ankle Surgery Second Annual Course. Ganga Hospital, Coimbatore, January 14th to 16th 2011.

Dr. Deep Sharma

- Attended the Trauma Conference and Hands on Workshops at Ooty January 2011.
- Attended the Advance Trauma Life support Course at AIIMS, New Delhi and was identified as having Instructor Potential, February 2011.
RESEARCH PROJECTS

Departmental
Ongoing

Dr. D.K.Patro
- Extracorporeal irradiation and re-implantation as limb-salvage procedure in malignant bone tumours.
- Effect of exercise on shoulder function and mobility following mastectomy with axillary dissection in patients with breast cancer.
- Dynamic MRI and its role in the management of malignant bone tumors.
- Resection arthrodesis using fibula for stage III Giant Cell Tumours.
- Resection arthrodesis of wrist compared to resection arthroplasty of wrist using fibula.
- Resection arthroplasty of knee using custom mega prosthesis.
- Open discectomy for massive intervertebral disc prolapse.
- Synostosis excision, soft tissue interposition, tendon transfer for supination in congenital superior radio-ulnar Synostosis.
- Resection, fibular grafting with ilizarov for congenital pseudoarthrosis of tibia.

Dr. Jagdish Menon
- Ponseti’s technique in the treatment of replaced and neglected CTEV.
- Role of platelet gel concentrate in the management of non unions.
- Use of vacuum assisted wound closure in Type III open fractures.

PUBLICATIONS


JIPMER 2010-2011/289

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 : 475 patients/ OPD
Average casualty attendance per month Out patients : 462
Average number of Admissions per month OPD : 300
                                      Casualty : 75
Average number of Elective Surgical procedures per month : 70
                                      Major surgeries : 50
                                      Minor surgeries : 20
Average number of Emergency Surgical procedures per month : 50
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. Patro. D.K

1. Nominated as member of NEW DRUG ADVISORY COMMITTEE of Ministry of Health and Family Welfare [Govt. of India], New Delhi.

2. Nominated as subject Expert in the selection committee for faculty selection by Govt of Puducherry.

3. Nominated member of Medical Equipment and Hospital Planning Division Council of Bureau of Indian Standards

4. Nominated to attend MCI meeting on MBBS curriculum as subject Expert on 14th and 15th March 2011.

Dr. Murali Poduval

Completed a two week fellowship in total Joint Arthroplasty awarded by Indian Arthroplasty Association durin Feb.2010. Fellowship was awarded in absentia at the National Conference of Indian Arthroplasty Association in October 2010.

As Journal Editor and Reviewer for the following


3. Section Editor Orthopaedics: Asian Journal of Medical Sciences [Published from Nepal on Nepfol].

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. D.K. Patro

1. In addition to the department of Orthopaedics, he is the administrative Head of Department of Physical Medicine and Rehabilitation also.

2. Appointed Inspector for starting and renewal of DNB courses in the specialty of Orthopaedics at the following centers and conducted the same:
   (a) St John Hospital, Katapana, Kerala
   (b) MIOT Hospital, Chennai, 19.06.2010
3. Appointed inspector for conducting inspection by MCI for the following institutions and conducted the same:
   - Prathima Institute of Medical Sciences, Karim Nagar on 5th February 2010.
   - Pinnaneni Siddhartha Foundation of Medical Sciences, Vijayawada on 15.03.2010.
   - KS Hegde Medical College, Mangalore for MS, ORTHO on 14th May 2010.
   - KPC Medical College, Jadavpur, Kolkata for MBBS from 22nd to 23rd June 2010.
   - SRMC, Porur, Chennai on 6th December 2010

4. DNB Examiner
   - UCMS & GTB Hospital, Delhi from 11.11.2010 and 12.11.2010 Military Hospital, Kirkee, Pune from 20.09.2010 to 23.09.2010

5. Expert for interview for posts of Professor, Associate Professor and Assistant Professor at Indira Gandhi Medical College and Research Institute, Pondicherry on 30th October 2010.

6. Post-Graduate Examiner for the following:
   - MVJ Medical College, Hosekote, Bangalore, RGUHS May 2010
   - K.S. Hegde Medical College, Mangalare, RGUHS May 2010
   - Sri Ramachandra Medical College and Research Institute, Porur, Chennai, 06.12.2010

SIGNIFICANT EVENTS IN THE DEPARTMENT

The following patient care services were started

- Extra corporeal irradiation and reimplantation for malignant bone tumours as a Limb salvage procedure
- Total knee joint replacement and Total femur replacement
- Titanium elastic nailing
- Use of Bio-degradable implants
BACKGROUND INFORMATION OF THE DEPARTMENT

The Department has 90 sanctioned beds including a 6 bedded PICU (Paediatric Intensive care Unit) and a 25 bedded Level–III NICU. The daily outpatient attendance averages around 200. The Department runs specialty clinics for child neurology, tuberculosis clinic, pediatric nephrology, cardiology, child guidance clinic, genetic services clinic, HIV and high risk follow up clinic for newborns. The emergency unit runs round the clock and handles all paediatric emergencies. The PICU has state of the art facilities with 6 ventilators and invasive monitoring and has been adjudged the best ICU in the hospital for the year 2010. The neonatal division caters to about 18000 deliveries with more than 2000 admissions in the NICU annually. Research work is being done on basic health problems relevant to our country.

The Department has regular teaching programme for undergraduate (M.B.B.S) and postgraduate (M.D) students. The intake of MD students was increased from 6 to 10 from the academic year 2011-12. A separate Division of Neonatology was formed and DM in neonatology was started from the academic year 2009-10 with an intake of one student per year. The Department has also obtained necessary permission to start PhD in Paediatrics, and the first PhD student has joined during the academic year 2010-11. A Fellowship course in Paediatric Critical Care and Emergency was also initiated from the academic year 2010-11.

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) - 10 students per academic year

C. Higher specialty courses

D.M (Neonatology)-1 student per academic year

D. Research Courses

PhD in Paediatrics - 2 seats per academic year

E. Other courses

Fellowship course in Paediatric Critical Care and Emergency (2 seats) from the academic year 2010-2011.
CONTINUING MEDICAL EDUCATION PROGRAMMES

The Department of Paediatrics, JIPMER and Tamilnadu Neonatology Forum (TNNF) conducted the Annual convention of TNNF as JIPMER – NEOCON 2010 from 19th to 21st November, 2010 at JIPMER Auditorium. This conference included a full day Preconference workshop on Neonatal Resuscitation Programme and three parallel workshops (Essential Newborn Nursing, Neonatal ventilation and Neurodevelopment Evaluation) which were well attended. These workshops were followed by a CME (Continuing Medical Education) on the afternoon of 20th November, 2010 and the main conference on 21st November, 2010. Dr. Vishnu Bhat, Dr. Narayanan, Dr. Adhisivam and Dr. Femitha participated as resource persons from the Department of Pediatrics, JIPMER. Dr. Habeebullah S and Dr. Reddi Rani from the Department of Obstetrics & Gynecology and Dr. Kumaravel and Dr. Bibekanand Jindal from Pediatric Surgery Department also spoke during various sessions in the conference.

First regional workshop on bedside diagnostics for paediatric intensive care in developing world: role of ultrasound

The Department of Paediatrics with the financial support of ICMR, MCI and Indian Journal of Emergency Paediatrics (IJEP) conducted a two day “Regional Workshop On Bedside Diagnostics For Paediatric Intensive Care In Developing World: Role Of Ultrasound” on 17th and 18th December 2010

CONFERENCES

Dr. S. Srinivasan

- Attended CME in PG Training Programme conducted by the Department of Paediatrics, JN Medical College, Belgaum on 27th and 28th February 2010 and delivered a guest lecture on “Approach to a child with development delay”.


- Attended workshop for village health nurses, para medics, students and nurses on 6th August 2010 at Neyveli Lignite Corporation General Hospital, Neyveli.

- Attended OSCE Workshop at Fernandez Hospital, Hyderabad on 21st and 22nd September, 2010.

- Attended South Pedicon 2010, Karnataka State and South Zone Conference of IAP and delivered a lecture on “Interesting Case Discussions for PGs: Meet the Experts and Immuno-modulators in Paediatric Practice” as a Organizing Secretary at Hasan, Karnataka from 22.10. 2010 to 24.10.2010.

- Attended OSCE Workshop at Army Hospital (R & R) Delhi Cantt on 27th October, 2010.

- Participated as Faculty of “National Trainers in Breastfeeding promotion network of India / International Breastfeeding Action Network Asia Training Programme” for Infant and young Child Feeding Counseling specialist Training course from 1st to 7th November, 2010, District Hospital, Hindupur, Anantapur Dist, Andhra Pradesh.

JIPMER 2010-2011/294
• Attended RESPICON and delivered a lecture on “Quick Respiratory Examination in Office Practice” on 13th and 14th November, 2010 at Chennai Trade Centre, Chennai.

• Attended 9th Winter Symposium 2011 at CMC Vellore from 6th to 8th Jan 2011.

• Attended CME programme at Institute of Maternal and Child Health, Govt. Medical College, Calicut as Faculty – 23rd and 24th Feb. 2011.

• Attended CME Programme at Rainbow Children’s Hospital Perinatal Centre, Hyderabad on 26th to 27th Feb. 2011.

Dr. B. Vishnu Bhat

• Attended Recent Intensive Paediatric Education 2010 at Sri Ramachandra Medical College, Porur, Chennai on 27th & 28th November 2010 and delivered a lecture cum case demonstration on ‘Examination of newborn’.

• Attended a CME on complicated urinary tract and abdominal infections on 05th December 2010 at JIPMER and chaired a session on UTI in children.

• Attended CME on glomerular diseases at JIPMER, and chaired the session on ‘Proteinuria in Pregnancy’ – on 20th January 2011.

• NTTC Faculty – National Course at JIPMER, , September, 2010 and February 2011.

• Delivered a talk– clinical implications of adverse drug reaction in children- 21.2.2011 Pharmacovigilance awareness programme at JIPMER

• Chaired a talk delivered by Dr. Major Nagaraju on Allergic disease in children from Chennai at Pondicherry - 27.2.2011.


• Talk on examination of newborn on 4.3.2011 Intensive Clinical Training Programme in Paediatrics at Institute of Child Health

• Participated in Informal Consultation on Clinical Trials in Children Registered in the Clinical Trials Registry India – (CTRI) organized by WHO – IGMCH on 11.3.2011 at Pondicherry.

• Delivered a talk on breast feeding at Mahatma Gandhi Medical College and Research Institute, Puducherry on 6.8.2010.

• Doctoral Committee Meeting at SRM Medical College, Chennai on 25.10.2010 for conducting PhD course.

Papers presented at 33rd Annual conference of Association of Anatomists on 25th and 26th September 2010 at Kancheepuram.

1. Mehar SS et al. Erythrocytic Catalase activity in cases of Down Syndrome

2. Deepa C et al. Immunoglobulin profile in Down syndrome and its clinical implications. Dr. Mehar’s paper was awarded the ‘best paper award’.

JIPMER 2010-2011/295
Papers presented at JIPMER NEOCON 2010 at Pondicherry November 19-21, 2010

1. Chacko J, Bhat BV, Sridhar MG. Nonprotein nitrogenous (NPN) substances in cord blood and urine as predictor of neuro developmental outcome in perinatal asphyxia.

2. Shruthi BK, Bhat BV. Therapeutic hypothermia for term neonates with perinatal asphyxia

3. Femitha P, Bhat BV. Immediate outcome of late preterm babies.


Dr. S. Mahadevan

1. Organizing Secretary of the First Regional workshop on bedside diagnostics for Pediatric Intensive Care in Developing world at JIPMER on 17th and 18th December, 2010.

2. Attended 48th Annual National Conference of Indian Academy of Pediatrics at Jaipur from 20th to 24th January 2011 and participated as a resource person in the All India PG quiz.

3. Attended the 2nd National Assembly of Pediatric Emergency Medicine (NAPEM) at Chennai on 29th and 30th January, 2011 and delivered a lecture on National Snakebite Management Protocol as the organizing secretary.


Dr. Niranjan Biswal

- Attended the JIPMER NEOCON 2010 from 19th to 21st November, 2010.

Dr. P. Narayanan

- Attended the 12th National Congress on Pediatric Critical Care at Surat, Gujarat from 27th October to 31st October 2010 and presented a paper titled “Life threatening intracranial bleed in infants – a case series”

- Attended the National Assembly on Pediatric Emergency Medicine at Bangalore during April 2nd to 4th 2010.

- Attended Workshop on ‘How to teach evidence based medicine’ at AIIMS, New Delhi from 22nd to 24th Feb. 2011

- Faculty for the workshop on Neonatal Ventilation in the JIPMER NEOCON 2010 at JIPMER, Puducherry on 19th November, 2010.

JIPMER 2010-2011/296
Dr. Sriram Krishnamurthy

- Delivered a lecture on ‘Urinary Tract Infections in Children’ at the CME on Complicated Urinary Tract and Intra-abdominal Infections held at JIPMER on 5 December 2010.
- Participated in the XXII National Conference of the Indian Society of Pediatric Nephrology at Kolkata from 11 - 14 November 2010.
- Delivered a lecture on “Difficult to control nephrotic syndrome: Treatment options” at the CME on Glomerular diseases held at JIPMER on 20th January, 2011.
- Delivered a lecture on ‘HIV in children’ at the CME on ‘Issues in HIV’ organized by Puducherry AIDS Control Society and Department of Microbiology, JIPMER on 7.3.2011.
- Participated in the 61st National Course on Educational Science for Teachers of Health Professionals at the National Teacher Training Centre, JIPMER, Puducherry from 15 - 25 September 2010.
- Participated in the Pediatric Nephrology Update 2011 and CME on Pediatric Nephrology at Chennai, organized by the Chennai Pediatric Kidney Foundation on 24 April 2011.

Dr. B. Adhisivam

- Attended the certificate course on “Infant and young child feeding and nutritional counseling for children with HIV”, at Hindupur, Andhra Pradesh November 2010.
- Participated in “Essential newborn care in community” – National Neonatology forum (Annual meet) at Ahmedabad on 3-4 December October 2010.

Dr. Reena Gulati, Assistant Professor

- Attended the First Indo US symposium on Skeletal Dysplasia at SGPGIMS, Lucknow on 12th and 13th February, 2011.

RESEARCH PROJECTS

- Departmental Projects

Completed

1. Early neonatal outcome in caesarean section
2. Profile of children below 5 years referred for speech delay.
3. Non-protein nitrogenous substance in cord blood and urine of healthy and asphyxiated babies.
5. Comparison of nebulised salbutamol versus L-adrenaline in infants with bronchiolitis.
6. Outcome of late preterm babies.
7. DNA damage in perinatal asphyxia.
8. Chromosome breakage in Down syndrome.
Ongoing

2. Mortality pattern of hospitalized children in Pediatric Medicine, JIPMER
3. Sodium valproate versus midazolam in refractory status epilepticus in children- a randomized controlled trial.
4. Propranolol in severe infantile hemangiomias – a pilot study
5. Urinary reaction of non – protein nitrogenous substances in perinatal asphyxia.
6. Therapeutic hypothermia in perinatal asphyxia.
7. Fragile chromosomes in Down syndrome.
8. Oxidative stress in Down syndrome.
9. Immunological status in Down syndrome.
10. Therapeutic hypothermia on oxidative stress among term neonates with hypoxic ischemic encephalopathy.
11. Early (6-24 hrs) versus late (>24 hrs) enteral feeding in critically ill children: a randomized controlled trial.
15. Comorbidity and outcome in children diagnosed with ADHD
16. Clinical profile and predictive risk factors for major infections in nephrotic syndrome
17. Inflammatory mediators as markers of infection and predictors of Outcome in Perinatal Asphyxia
18. Probiotics therapy for prevention of Necrotising Enterocolitis (NEC) in preterm infants – a randomized controlled trial
19. Clinical Profile and risk factors in children diagnosed with specific learning disability
20. Hypertonic saline versus mannitol in the management of raised intracranial pressure in children with nontraumatic coma – A randomized controlled trial.
21. Oxidative stress and antioxidant status in neonates born to pre eclamptic mothers and their effect on early neonatal outcome.
22. Postnatal counseling on exclusive breast feeding using video
23. Effect of therapeutic hypothermia on DNA damage in term neonates with perinatal asphyxia.

B. Collaborative Research Projects
1. Dr. Bhat BV is Co-guide for the following inter-departmental research project with Department of Anatomy
   i. DNA damage in phototherapy
   ii. DNA damage in neural tube defects
   iii. Immunoglobulin level in Down syndrome
   iv. Oxidative stress in Down syndrome
   v. Chromosomal breakdown in Down syndrome
   vi. Oxidative stress in perinatal asphyxia
2. Dr. Niranjan Biswal is a Co-guide for the following inter-departmental research projects
   i. Heart rate variability and classical cardiovascular autonomic function tests in children: correlation with anthropometric parameters. (with Department of Physiology, JIPMER)
   ii. Evaluation of NS1 antigen detection as an alternative to RT-PCR for the early diagnosis of dengue (Department of Microbiology, JIPMER)
3. Dr. P. Narayanan is a Co-Guide for the inter-departmental research project entitled “Evaluation of real-time PCR in diagnosis of amebiasis”. (Department of Microbiology, JIPMER)
4. Dr Sriram Krishnamurthy is a Co-Guide for the inter-departmental research project entitled Clinico-microbiological profile of Shigellosis in children (with Department of Microbiology, JIPMER)

1. PUBLICATIONS

A. Journals

JIPMER 2010-2011/299


25. Krishnamurthy S, Laxmisha C, Mondal N. Kawasaki Disease and alopecia areata-Coincidence or true association? Pediatr Dermatol 2011; Sep (Epub ahead of print)


B. **Books Chapters**

**Dr. B. Vishnu Bhat**


JIPMER 2010-2011 / 301


Dr. S. Mahadevan


PATIENT CARE

A. Clinical
   a. Average daily OPD : 200
   b. Average daily IPD :
      i. 8 admissions (General ward)
      ii. 5 admissions (Emergency and High dependency unit)
      iii. 2 (PICU)
   c. Total Bed strength : 110 (sanctioned 90)
   d. Average daily bed occupancy rate : 125%

B. Laboratory

   Department side laboratory caters to all basic investigations including routine haemograms and urine examination of all inpatients.

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr. B. Vishnu Bhat

i. Editor, Current Pediatric Research

ii. Associate Editor, Indian Journal of Pediatrics.

Dr. S. Mahadevan

Guest orations on Snake bite Management at National Assembly of Paediatric Emergency Medicine, January 2011 and at TRYPEDICON 2010.

JIPMER 2010-2011/302
Awards won by Junior Residents in the department:

- Dr. Sukanya Govindan, Junior Resident won the 2nd prize in the Niyamathullah Paediatric Nephrology essay competition in December 2010.
- Dr. Arun Gopalakrishnan and Dr. Jayakumar, Junior Residents won gold medal in PEDICON IAP Quiz for Postgraduates in January 2011.
- In JIPMER NEOCON 201, a total of 21 free scientific papers (6 oral and 15 posters) were presented. The Department of Pediatrics, JIPMER presented 6 and shared 1 with the Department of Anatomy. Out of the 4 prizes, 3 were bagged by the Residents from the Department of Pediatrics, JIPMER as follows.

<table>
<thead>
<tr>
<th>Prize</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral - I</td>
<td>Immediate outcome of late preterm babies</td>
<td>Femitha P, Bhat BV</td>
</tr>
<tr>
<td>Oral - II</td>
<td>Therapeutic hypothermia for term neonates with perinatal asphyxia</td>
<td>Shruthi K Bharadwaj, Bhat BV</td>
</tr>
<tr>
<td>Poster - II</td>
<td>Non-protein nitrogenous substances in cord blood and urine of healthy and asphyxiated babies</td>
<td>Chacko J, Bhat BV, Sridhar MJ</td>
</tr>
</tbody>
</table>

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. B. Vishnu Bhat
1. Faculty NTTC, JIPMER
2. Secretary JIPMER Alumni Association
3. Staff Adviser, JIPMER Students

Dr. S. Mahadevan
1. Dean, School of Medicine, Pondicherry University
2. Editor in Chief, Indian Journal of Emergency Paediatrics

SIGNIFICANT EVENTS IN THE DEPARTMENT

Genetic Services clinic started in Paediatrics OPD from 8th February, 2011 on every Tuesday at 2.00 p.m.

The following visiting professors visited the department during the academic year 2010-11:

- Dr. Banani Poddar, Additional Professor, Department of Critical Care Medicine, SGPGIMS, Lucknow visited JIPMER during 1st week of April 2010
- Dr. Indira Narayanan, Senior Technical Advisor in Newborn Health at Basic Support for Institutional Child Survival (BASICS), United States Agency for International Development (USAID) visited JIPMER, during October, 2010
- Dr. P. Ramnarayan, Consultant, Paediatric Intensive Care, Children’s Acute Transport Service (CATS), London, UK visited JIPMER during 2nd week of January 2011
- Dr. Mathuram Santosham, Director, Centre for American Indian Health, Professor of International Health and Paediatrics, John Hopkins Bloomberg School of Public Health, Baltimore, USA visited JIPMER in March, 2011.
BACKGROUND INFORMATION OF THE DEPARTMENT

The department of pediatric 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.

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 year 2010 to 2011, we had several new achievements to our credit. We have now in a single year managed more than 13 cases of surgical neonatal conjugated hyperbilirubinema of which seven of them were extrahepatic biliary atresia and successfully underwent KASAI portoenterostomy without any mortality or morbidity, even though more than 75% of them presented beyond 75-80 days of life. All types of neonatal surgeries including thoracic viz, oesophageal atresias, tracheo oesophageal atresia repairs, diaphragmatic hernia repairs, pulmonary lobectomies, genitourinary like endoscopic neonatal valve fulgurations neonatal vaginoplasty, and gastrointestinal like atresia surgeries are being carried out on a regular basis with results comparable to other tertiary care institutions.

Paediatric solid organ malignancies are handled routinely by the pediatric surgery department and several difficult and advanced malignancies like renal primary neuroectodermal tumor with inferior vena cava thrombus, bilateral partial nephrectomy for bilateral Wilms’s tumor, pancreatic tumor with celiac axis encasement, bladder rhabdomyosarcoma etc have been, successfully managed independently, in addition to the routine unilateral Wilms’s, gastro intestinal lymphomas, and germ cell tumors. Neonatal tumors like chongenital mesoblastic nephroma and sacro-coccygeal teratomas have all been managed without any mortality or morbidity.

The pediatric cystourethrosopes were procured for the first time for department of Pediatric surgery and received in October 2010 and in the following 6 months till April 2011, a total of forty three diagnostic and therapeutic cystourethoscopies have been carried 48% of them in neonates and infants.

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. Post graduate courses

- Training of Postgraduate MS Students who are posted during their rotation of superspeciality postings.
- We are also involved in the seminars and symposia where pediatric surgery topics are discussed in General Surgery.

CONFERENCES

Dr. Kumaravel S

- Attended as Invited faculty at Pediatric Surgery Update 2010, Maulana Azad Medical College, New Delhi, April 2010, and presented on “Evaluation of jaundice in an infant”, and as resource person at the morning long case presentation by MCh post graduates and also conducted the Paediatric surgery Quiz for the MCh students.
- Chaired the session on Pediatric Urology at Annual Conference of the Indian Association of Pediatric Surgeons, TamilNadu and Pondicherry Chapter of Pediatric Surgeons (TPPS) held in July 2010 at Chennai India
- Presented on Podium the following papers
  a. Congenital cystadenomatoid malformations – do we have a reason to operate?
  b. A surgical cause of neonatal convulsions due to persistent hypoglycemia – management and review
- Attended the International Update on Pediatric Thoracoscopy workshop, 2010 on 3rd Sept 2010 held at Indira Gandhi Institute of Child Health, Bangalore.
- Presented as faculty the topic Current trends in the management of biliary atresia at the NEOCON 2010, a conference conducted by National Neonatology Forum, in November 2010.
- Attended and actively participated in the Annual Conference of the Paediatric Urology Chapter(IAPS) 4th to 6th February 2011, Jabalpur, Madhya Pradesh.
- Guided Dr Alagamuthu SR, surgery to podium present a paper entitled “Ingested foreign body presenting as strangulated Richter’s inguinal hernia” at the PONSICON 2011 at Pondicherry.

Dr. B Jindal

- Attended the International Update on Pediatric Thoracoscopy workshop, 2010 on 3rd Sept 2010 held at Indira Gandhi Institute of Child Health, Bangalore
- Attended the 3rd World Congress of Pediatric Surgery held at New Delhi jointly organized with 4th congress of FAPSS and 36th Annual conference of IAPS at New Delhi between 21st Oct to 24th Oct 2010
- Attended the Post –World Congress Live Operative Workshop on Hypospadias and Disorders of Sexual Development between 25th Oct to 26th October 2010 at All India Institute of Medical Sciences, New Delhi
Was invited as Faculty for the National neonatology forum and delivered a lecture in “Neonatal surgical emergencies; its early identification and prompt referral” at JIPMER Neocon 2010, Puducherry held between 19th -21st November 2010

Was invited as faculty and delivered a guest lecture on “Stem cells and pediatric surgery” in Pediatric Surgery CME organized by Odisha chapter of IAPS along with Silk City Surgeons Club, Berhampur held at Berhampur on 13th February 2011

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 (Preputial adhesiolysis, vaginal synechiae release, incision and drainage of abscess, anal calibrations, dilatations, circumcisions, lymphnode biopsies) in the OPD. We have carried out 528 major surgeries (360 elective surgeries and 168 emergencies) last year which includes about 40% neonatal cases.
8.26 Pathology

Professor & Head
Surendra Kumar Verma

Professors
Bhawana Badhe N Siddaraju
Debdatta Basu

Assistant Professors
Rakhee K Pampa Ch Toi Rajesh NG Shramana Mandal
Sajini Jacob

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. During 2010-11, 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. In addition Department of Pathology organized a Annual conference and introduced new services, the details of which are provided below,

i. Renal Pathology services were upgraded in the department.

ii. Immuno fluorescence services for skin and kidney biopsies were started from the month of September 2010.

iii. Hematology Laboratory of the Super-Specialty Block was declared the “Best Laboratory in JIPMER at the 2nd Hospital day function held on 31st October, 2010.

EDUCATIONAL COURSES

A. Undergraduate courses

1. MBBS
2. B.Sc. MLT
3. B.Sc. Nursing
4. B.Sc. Operation theatre technology
5. B.Sc. Dialysis technology
6. B.Sc. Perfusion technology
7. B.Sc. Radiation technology
8. B.Sc. Medical Records technology
B. Postgraduate courses

1. MD (Pathology)

CONTINUING MEDICAL EDUCATION PROGRAMS AND WORKSHOPS ATTENDED

1. Dr. Surendra Kumar Verma, Professor and Head and Dr. Rajesh NG, Assistant Professor, attended the XVI Indo-US International CME 2011 held at MNM Medical College, Allahabad on 11th to 13th February 2011. Dr. Surendra Kumar Verma chaired a session on cervical cancer on the afternoon of 12th Feburary 2011. Senior Resident Dr. Deepti Jain and Junior Residents Dr. M Prabhu, Dr. S. Muthu and Dr. M. Elancheran attended the same.

2. Dr. Debdatta Basu was invited as a guest speaker at the Hematology Kaleidoscope CME organized at Kilpauk Medical College, Chennai on 12th June 2010. He spoke on ‘Hematological manifestations of HIV/AIDS’. Drs. Kalaivani, Shilpa Rao, Sara Grace and Elancheran, all 1st year postgraduates attended the same.

3. Dr. Debdatta Basu was a guest faculty at the “Pathology CME and Workshop on Acute Leukemia” held at Maulana Azad Medical College, New Delhi on 20th and 21st October, 2010. He spoke on “Classification of Acute Leukemia- Past, present and Future”.

4. Dr. Debdatta Basu presented a paper on “Clinical utility of Bone Marrow trephine biopsy” at a Pathology CME organized on the 5th of March 2011 by Department Of Pathology, Mahatma Gandhi Medical College and Research Institute, Puducherry. Dr. Sajini EJ, Dr. Shramana Mandal and Dr. Sri Rekha attended the program.

5. Dr Rakhee Kar, co-authored a paper entitled “Hemolytic facies and leg ulcers in an adolescent boy” presented in JIPMER Scientific Society monthly meeting on 8.2.2011.

6. Dr. Rajesh NG, Asstt Professor attended a CME on Dermatopathology at Madras Medical College in May 2010.

7. Dr. NG Rajesh, Asstt Professor, Dept. of Pathology, delivered a lecture on Carcinoma Breast – pathologists perspective at the CME on early and advanced breast cancer organized in JIPMER on 8th August 2010. Professors Bhawana Badhe and N.Siddaraju, chaired the session. Dr. Bhawana also took part in a panel discussion on management of carcinoma breast.

8. Dr. Rajesh NG attended a CME on Histopathology slide discussion at AVMC, Pondicherry on 27th Nov 2010.

9. Dr. Rajesh NG attended and co-authored a poster on “Membranous glomerulonephritis and leprosy” at the Pre Conference CME conducted by Indian Society of Renal and Transplant Pathology and Indian Society of Nephrology Conference held at Trivandrum Medical College, Trivandrum Kerala from December 2nd to 5th 2010.

10. Dr. Rajesh NG delivered a guest lecture on “Recent Advances in Pathology and Interdisciplinary Research” on 26th October, 2010 at School of Biological Sciences, Vellore Institute of Technology.

JIPMER 2010-2011 / 308
11. Dr. Shramana Mandal attended a Pathology CME organized on the 5th of March 2011 by Department Of Pathology, Mahatma Gandhi Medical College and Research Institute, Puducherry.

12. Dr. Sajini Elizabeth Jacob attended a CME on Histopathology slide discussion at AVMC, Pondicherry on 27th Nov 2010.

13. Dr. Sajini Elizabeth Jacob attended a Pathology CME organized on the 5th of March 2011 by Department Of Pathology, Mahatma Gandhi Medical College and Research Institute, Puducherry.

Junior Residents:

a. Dr. S. Srivani, 3rd year postgraduate and Dr. Sara Grace, first year postgraduate attended a CME and Update on Female Genital Tract Lesion at Madras Medical College, Chennai on 1st May 2010.

b. Dr. Sudha AR attended a CME Programme on Retroperitoneal lesions held in Stanley Medical College, Chennai on 19th June 2010.

c. Dr. Priyavadhana Rajan Prasad presented an oral paper titled “Malignant Fibrous Histiocytoma of Bone” at IAPM meet of Tamilnadu and Pondicherry Chapter on the 9th October, 2010 at Chennai. Dr. Femela attended the conference. The paper was co-authored by Dr. Bhawana A Badhe.

d. Dr. Femila Padmavathi presented a paper titled “Evaluation of Brush Cytology in the Diagnosis of Upper Gastrointestinal Lesions” at JIPMER Scientific Society meeting held on 28th September, 2010. The paper was co-authored by Dr. Siddaraju N and Dr. Sarath Chandra Sistla.

CONFERENCES

Organized

The Annual conference of Tamil Nadu and Pondicherry chapter of Indian Association of Pathologist and Microbiologists (TAPCON 2010) was organised by the Department of Pathology, JIPMER on the 13th and 14th of August 2010. The Organizing Chairperson was Dr. S. K Verma, the Organizing Secretary was Dr. Bhawana A. Badhe and Joint Organizing Secretary was Dr. Rakhee Kar.

All the faculty members of the department were heading various committees and actively participated in the scientific program. The details are provided below;

a. Dr. Debdatta Basu – Scientific Committee

b. Dr. N. Siddaraju – Accommodation and Transport

c. Dr. Rakhee Kar – Joint Organizing Secretary

d. Dr. Pampa Ch Toi – Registration and Reception

e. Dr. Rajesh NG – Treasurer

f. Dr. Shramana Mandal – Inauguration and Souvenir
Faculty and residents of the Department presented numerous posters in the conference. Out of the six prizes given for the best posters four were won by postgraduates from JIPMER by Dr. D. Priya, Dr. S. Muthu and Dr. Mary Theresa Sylvia and Dr. Shilpa Rao.

Dr. Debdatta Basu conducted a Postgraduate quiz in TAPCON 2010. Dr. Mary Theresa Sylvia and Dr. Asma Bibi won the first prize. Second prize was won by Dr. Chaithra GV and Dr. R.Priavadhana.

(i) Attended

Dr. Surendra Kumar Verma

- Attended the World Congress of Cytology held at Edinburgh, UK from 16th to 20th May 2010. He presented a paper entitled Pitfalls in the diagnosis of Hashimoto thyroiditis on FNAC.
- Delivered a guest lecture in the National conference of Atherosclerosis Research on the “Role of PTEN In atherosclerosis” held at GTB Hospital New Delhi on 13th and 14th November 2010
- Attended National Conference of Indian Academy of Cytologists and presented a paper on “Role of squash cytology in the diagnosis of meningioma” at Kolkota on 26th and 27th of November 2010.
- Dr. Surendra Kumar Verma, and Dr. Sajni Elizabeth Jacob, Assistant Professor attended “Lymphoma Update 2011” held on January 8th and 9th at Cancer Institute (WIA) Adyar, Chennai. Dr. Surendra Kumar Verma Chaired a session on HIV and Lymphomas.

Dr. N.Siddaraju

- Attended the BIT 3rd World cancer Congress (WCC 2010) at Singapore held between 22nd to 25th June 2010. He spoke on ‘Cytodiagnostic aspects of thyroid neoplasms – current scenario’.

Dr. Debdatta Basu

- Was a guest faculty at the 37th Annual Conference of Karnataka Chapter of IAPM held at Chitradurga on 29th to 31st October, 2010. He spoke on “Challenges in Platelet Counting” at the Pre-conference CME on Practical Hematology. Dr. Prabhu M and Dr. Muthu S, 2nd year postgraduate students attended the conference. Senior Residents Dr. Sree Rekha and Dr. Lavanya and Junior Residents Dr. Shilpa Rao, Dr. Sarah Grace Priyadarshini, Dr. Niraimathi and Dr. Kalaivani attended the same conference.
- Attended the International Non Hodgkin Lymphoma Update held at Christian Medical College Vellore on 10th and 11th January 2011. He delivered a talk on Peripheral T cell lymphoma and also took part in a Slide discussion session.
- Delivered a talk on “Clinical utility of Bone marrow trephine biopsies” at the Pathology CME organized
Dr. Pampa Ch Toi
• Attended the International Non Hodgkin Lymphoma Update held at Christian Medical College Vellore on 10th and 11th January 2011.

Dr. Rajesh NG
• Attended as a delegate and faculty at the Symposium and Faculty Training Workshop on Immunofluorescence in Pathology held at AIIMS, New Delhi in May 2010.
• Attended as a delegate at the “Indo American International Surgical Pathology Conference held at Allahabad, in February 11-13, 2011. Junior residents Dr. Prabhu, Dr. Muthu and Dr. Elancheran attended the same conference.

Dr. Sajini Elizabeth Jacob

RESEARCH PROJECTS
A. Funded Projects – (Intra mural funding)
• Evaluation of estrogen and progesterone receptors and Her 2 neu expression in fine needle aspirates of patients with breast carcinoma.
• Histopathologic and immunophenotypic analysis of basal like breast carcinoma
• Role of p16 and CISH in detection of HPV in oral squamous cell carcinoma.

B. Departmental projects

Completed
1. Significance of Squash/crush Cytology in Central Nervous System Tumors and its Histopathological Correlation
2. Histomorphology and Immunohistochemistry of Salivary Gland Tumors.

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. Role of FNAC in necrotizing lesions

8. Histopathologic study of vessel wall biopsies in thromboembolic events.

9. Immunohistochemical profile and bone marrow angiogenesis in multiple myeloma with reference to its clinical significance.


11. Fine needle aspiration of salivary gland neoplasms with histopathological correlation.

12. Correlation of histologic grading with pulmonary hemodynamic parameters in lung biopsies of congenital heart disease patients with pulmonary artery hypertension.

C. Collaborative projects

Faculty members of the department were involved in inter-disciplinary research projects with other departments in the Institute.

PUBLICATIONS


**Book Chapter**


**PATIENT CARE SERVICES**

**Laboratory Services**

**Surgical Pathology**

In 2010-11, 17209 biopsies were examined. Routine Hematoxylin-eosin, special stains, immunohistochemistry services were provided. Immunofluorescence laboratory has been standardized. Routine frozen sections and cryostat facilities are available.
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).

14,299 samples were investigated in the year 2010-11. These included fine needle aspiration (5442), gynecologic (cervicovaginal smears) (6504) and non-gynecologic (fluid) cytology (2253), 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 2010-11, diagnostic workup of 28,586 patients was performed.

Central Lab and Superspecialty Lab (Clinical Pathology & Hematology Lab)

The OPD laboratory under the control of department of Pathology dealt with 119556 samples inclusive of hemogram, urine, stool and semen from the OPD patients in the main hospital as well as super specialty block.

Superspeciality block hematopathology laboratory dealt with 29,907 samples including routine hemogram, peripheral smear, urine, stool and fluid analysis.

Superspeciality block Renal histopathology laboratory dealt with 180 Immuno-fluorescence biopsies after the services were started in the month of October 2010.

Autopsy

30 autopsies were performed during the period from April 2010 – March 2011

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

1. Dr. N. Siddaraju received ‘Indira Gandhi Achievers Award’ by Dr. H.T. Sangliana, the Vice Chairperson for Minorities, Government of India at New Delhi on 26th November 2010.

2. Dr. N. Siddaraju received ‘Rajiv Gandhi Excellence Award’ with a Certificate of Excellence by Iqbal Singh, the Lt. Governor of Puducherry, at New Delhi on 8th September 2010.

3. Dr. N. Siddaraju received ‘Glory of India Gold Medal’ from India International friendship Society (IIFS), New Delhi on 8th September 2010

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. Surendra Kumar Verma

- Head of the Department Since October 2008
- Incharge of the Cytopathology, Neuropathology and Nephropathology divisions.
• Organized TAPCON 2010, Annual conference of Tamilnadu and Pondicherry chapter of IAPM in August 2010.
• MD, DNB and MBBS Examiner (both as Internal and External)
• MCI Inspector for MBBS and MD Pathology Courses
• Conducted DNB Examination in Pathology at JIPMER
• Member of the Organizing Committee for various conferences held in JIPMER
• Chaired sessions and judged presentations at various National Conferences and CMEs
• Conducted monthly Clinico-Pathology Conference in the Institute and regular interdepartmental meetings in various specialities

Dr. Bhawana Badhe
• Special interest in Breast and Oncopathology
• Organizing Secretary of TAPCON 2010, Annual conference of Tamilnadu and Pondicherry chapter of IAPM in August 2010.
• Conducted National Board Diplomat (DNB) examination in Pathology at JIPMER
• Internal Examiner of MBBS, MD and B.Sc. MLT examinations
• External examiner for MD (Pathology) examination in Maharashtra.
• Guiding several research students, both Undergraduate and Postgraduate in intra and extra mural projects.
• Involved in curriculum development and planning for augmentation of infrastructure for starting DM Hematology course in collaboration with Department of Medicine.

Dr. N. Siddaraju
• Field of Interest is Cytopathology
• Overall In-Charge of Out Patient Department (OPD) Laboratory and In-Charge of Cytology Division
• Participation in undergraduate and postgraduate teaching
• Officer-in-charge for condemnation of unserviceable equipments in the departments of Orthopedics & Dentistry
• Member of the examination committee at JIPMER
• Guide and co-guide for dissertations and co-investigator in one of the research projects
• Internal examiner for MBBS
• Reviewed and published several articles
• Editorial Boards of Indian Journal of Dental Research (IJDR); Cytopathology; Pathology and Laboratory International; and Head and Neck Pathology
• Received 3 eminent awards and figured in “A biographic record” in ‘Who’s Who in the World 2010-2011’ published by the Marquis’ Who’s Who Publication Board.
• Participated in interdepartmental activities such as Orthopedic tumor clinics
• Journal of Cytology; Melanoma research; International Journal of Infectious diseases and Southern Medical journal.

Dr. Debdatta Basu
• Incharge of Hematopathology Division, with special interest in Bone Marrow Biopsy and Lymphoma
• In-charge of undergraduate (MBBS) classes
• Invited speaker at various CMEs and conferences held at national levels
• 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.
• Deputy Warden of Postgraduate Hostel in JIPMER.
• Member of the CRAFT Committee.
• Internal Examiner for MBBS
• Member of organizing committee of various National Conferences and Convocation Day held in JIPMER
• Editorial Board of Indian Journal of Cancer, Indian Journal of Pathologists and Microbiologists, Biomedicine, Indian Journal of Surgery, Melanoma Research
• Actively participated in all intra- and interdepartmental activities
• Involved in curriculum development and planning for augmentation of infrastructure for starting DM Hematology course in collaboration with Department of Medicine.
• Member of the curriculum development committee for upgradation of laboratory attenders

Dr. Rakhee Kar
• Field of Interest is Hematopathology with special interest in Lymphoma and Coagulation
• Involved in undergraduate and post-graduate teaching (MD Pathology) and research projects in the department
• Involved in curriculum development and planning for augmentation of infrastructure for starting DM Hematology course in collaboration with Department of Medicine.
• In-charge of Hematology and Clinical Pathology Laboratory in the super specialty block (SSB) of JIPMER.
• Involved in interdepartmental clinicopathological conferences.
Dr. Pampa.Ch.Toi

- In-Charge of OPD laboratory
- In-charge of B.Sc. MLT classes
- Internal examiner for B.Sc. MLT (JIPMER-2010)
- Member of the organizing committee of the second convocation held at JIPMER
- Involved in undergraduate and postgraduate teaching
- Involved in interdepartmental clinicopathological conferences
- Independently reported in “Hematology”, “Cytology”, “Histopathology” and “Clinical Pathology” Divisions
- Handling 2 research projects,
  a. Evaluation of estrogen and progesterone receptors and Her 2 neu expression in fine needle aspirates of patients with breast carcinoma as principal investigator
  b. Evaluation of platelet activation based on platelet indices, platelet aggregability, soluble P-selectin and platelet oxidative stress in chronic urticaria as co-investigator

Dr. Rajesh NG

- Special area of Interest: Breast, Renal and Dermatopathology
- Dedicated specialization in Dermatopathology and Renal pathology in JIPMER
- Standardized Immunofluorescence Laboratory in JIPMER for Renal and Dermatopathology Division
- Involved in independent reporting of Surgical Pathology
- In charge of Super-specialty block hematopathology and Renal histopathology laboratory.
- In charge for BSc program for Dialysis technology, Medical Radiation Technology, Operation Theatre technology, Cardiothoracic technology and Neurosciences technology.
- Involved in curriculum planning and designing of the course material for BSc program in Dialysis technology, Medical Radiation Technology, Operation Theatre technology and Cardiothoracic technology.
- Internal examiner for Dialysis technology, Medical Radiation Technology, Operation Theatre technology and Cardiothoracic technology.
- Doctoral committee member for PhD program in Renal Research and Biotechnology at Vellore Institute of Technology.
- Involved in undergraduate and postgraduate teaching.
- Involved in interdepartmental clinicopathological conferences.
- Handling research project entitled Histopathologic and immunophenotypic analysis of basal like breast carcinoma as principal investigator.
**Dr. Shramana Mandal**
- Independent reporting of Surgical Pathology and Cytopathology.
- Involved in Undergraduate and Postgraduate teaching.
- Involved in interdepartmental clinicopathological conferences.
- Involved in research project Role of p16 and CISH in detection of HPV in oral squamous cell carcinoma.

**Dr. Sajini Elizabeth Jacob**
- Joined as Assistant Professor on permanent basis on 30.8.2010
- Actively involved in UG/PG teaching
- Actively involved in intra-and interdepartmental activities
- Independently reported in “Hematology”, “Cytology”, “Histopathology” and “Clinical Pathology” Divisions
- Involved in research project Role of p16 and CISH in detection of HPV in oral squamous cell carcinoma.

**SIGNIFICANT EVENTS IN THE DEPARTMENT**

**New equipments added:**
Grossing station was added in the division of Histopathology
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, pharmacokinetic studies 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. A Drug Information Centre was established in 2007. The Adverse Drug Reaction Monitoring Centre, under the Pharmacovigilance Programme of India (PvPI), started functioning in the department from November 2010. 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, B.Sc. Nursing, B.Sc. MLT, B.Sc. Perfusion Technology, B.Sc. Dialysis Technology, B.Sc. Operation Theatre Technology 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.

C. **Higher Speciality Courses**

The department of pharmacology has a DM clinical pharmacology course with an intake of one student per year.

D. **Research Courses**

Each year four 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.

E. **Other Courses**

The department also trains students of the Emergency Medical Technician Course (EMTC) and Medical Records Officer (MRO) Course.

Dr. Sushma Sharma, Senior Resident, Dept. of Neurology had undergone a short term training in the techniques of Pharmacogenomics from 16.03.2011 to 31.03.2011.

**CONTINUING MEDICAL EDUCATION PROGRAMS**

Dr. C Adithan

- He was the Organizing Secretary for the ICMR sponsored “Seventh National Workshop on Basic Techniques in Molecular Biology and Bioinformatics in Pharmacogenomics” organized by the ICMR Centre for Advance Research in Pharmacogenomics, Dept. of Pharmacology jointly with the Vector Control Research Centre (VCRC) and Bio-informatics Centre, Pondicherry University on August 16- 21, 2010. He delivered a lecture on “Pharmacogenomics: Basics and its applications in Clinical Practice” during the workshop.

- He was the Organizing Secretary for the “National workshop on Good Clinical Practice in Clinical trials” conducted in collaboration with Pfizer, India on September 25, 2010. During the workshop, he delivered a lecture on “Adverse events & Pharmacovigilance”.

- Acted as the Organizing Secretary for the “Pharmacovigilance Awareness Programme 2011” conducted by the Division of Clinical Pharmacology and Dept of Pharmacology from February 21- 23, 2011. He delivered a talk on “Pharmacovigilance Programme of India (PvPI) - Present status in JIPMER” during the programme.

- He was the Organizing Chairman for the “Workshop on Pharmacovigilance” organized on 29th and 30th of March 2011 by the Pharmacovigilance Unit, Dept. of Pharmacology. During the workshop he gave a lecture on “Pharmacovigilance programme of India (PvPI)- National & JIPMER status”.

- Delivered a lecture on “organisation of Pharmacovigilance Centre: Problems and Suggestions” in the ICMR sponsored Pharmacovigilance Programme organised in Vivekananda College of Pharmacy, Thiruchengode on 10, February, 2011.
Dr. S C Pradhan

- Chaired a session in the “National workshop on Good Clinical Practice in Clinical trials” on September 25, 2010.
- Chaired a session on “Drug Therapy and Pharmacogenomics of Epilepsy” in the CME organised by the Dept. of Neurology, JIPMER on November 17, 2010.

Dr. D G Shewade

- He was the Joint Organizing Secretary for the “Seventh National Workshop on Basic Techniques in Molecular Biology and Bioinformatics in Pharmacogenomics”. During the workshop he delivered a lecture on “Real Time PCR”.
- Chaired a session in the “National workshop on Good Clinical Practice in Clinical trials” on September 25, 2010.
- Resource person at the ‘CME on Pharmacovigilane Training’ held at KIMS, Narketpally, Andhra Pradesh on October 30, 2010
- Delivered a talk on “Methods of collection of ADR reports” in the “Workshop on Pharmacovigilance” on March 29, 2011.

Dr. R Raveendran

- Delivered a lecture cum demonstration in the workshop on ‘PowerPoint Presentation’ conducted in JIPMER by Centre for Research and Academic Facilities and Training (CRAFT) on 11 April 2010.
- Resource person for the workshop on “III yr PG orientation Programme on Research Methodology-2010” in JIPMER held in April 12-16, 2010.
- Delivered a talk on “Animal Alternatives in Education” for the refresher course participants in Zoology by the Anna University, Tiruchirapalli on April 14, 2010.
- Resource person at the Workshop on Medical Writing organised by the PSG Institute of Medical Sciences and Research, Coimbatore on June 9, 2010.
- Resource person at the PG Orientation Workshop held at JIPMER and conducted sessions on July 29 & 30, 2010.
- Chaired a session in the “National workshop on Good Clinical Practice in Clinical trials” on September 25, 2010.
- Delivered a talk in a workshop on ‘Research Methodology, Biomedical Ethics & Medical Writing’ on September 25, 2010 at Sri Manakula Vinayagar Medical College and Hospital, Pondicherry.
- Delivered a lecture and demonstrated CAL software in a program on “Alternatives to use of animals in pharmacy education” conducted at Ultra College of Pharmacy, Madurai on 26 Nov 2010.
- Conducted a session on “Biostatistics” in the pre-conference workshop on Research Methodology conducted during the 62nd Indian Pharmaceutical Congress 2010 held at Manipal University, Manipal, Karnataka on December 15, 2010.
Delivered a talk on “Use of alternatives in life sciences’ in SRM University in Chennai on 26 Feb 2011.

Delivered a lecture on “Introduction to pharmacovigilance” during the “Pharmacovigilance Awareness Programme 2011” on February 23, 2011.

Resource person at the “Interns orientation programme” conducted by Department of Medical Education, JIPMER on 5th Jan 2011.

Dr. Steven A Dkhar

He was the Joint Organizing Secretary for the “National workshop on Good Clinical Practice in Clinical trials” conducted in collaboration with Pfizer, India on September 25, 2010. He also chaired one of the sessions.

He was the Organizing Secretary for the “Workshop on Pharmacovigilance” and delivered a lecture on “Standard operating procedures for ADR monitoring”.

Delivered a lecture on “Functioning of pharmacovigilance center in JIPMER” during the “Pharmacovigilance Awareness Programme 2011” on February 22, 2011.

Attended the Workshop on Pharmacovigilance Programme of India conducted by the Central Drug Standard Control Organization (CDSCO) and Ministry of Health & Family Welfare, Govt. of India, on November 24 – 25 at AIIMS, New Delhi.

Chaired two sessions in the “World Stroke Day Public Awareness Programme” organised by the Department of Neurology, JIPMER on October 23, 2010

CONFERENCES

Dr. D G Shewade

Delivered a lecture on “Pharmacogenomics of warfarin therapy” in the Brain storming session on ‘Role of Pharmacogenomics in determining Pharmacodynamic activity’ during the 43rd Annual Conference of the Indian Pharmacological Society and the International Conference on “Pharmacology and Translational Research” conducted at the Food and Drug Toxicology Research Centre, National Institute of Nutrition, Hyderabad, on December 13 – 16, 2010.

Dr. R Raveendran

Participated in the ‘National Consultative Meeting on Pharmacology Curriculum Review for Undergraduate and Postgraduate Medical Studies in India’ at the Department of Clinical & Experimental Pharmacology, School of Tropical Medicine, Kolkata on September 29 & 30, 2010.

Attended the Advisory Board Meeting of Mahatma Gandhi Doerenkamp Center (MGDC) for Alternatives to Use of Animals in Life Science Education at Bharathidasan University, Trichy on October 1, 2010.

Dr. Steven A Dkhar

Attended and participated in the deliberations at the “International Conference on Pharmacovigilance systems and Rational Use of Medicines: An Integrated Approach” organised by the Indian Society for Rational Pharmacotherapeutics and Society of Pharmacovigilance (India) on November 26 – 28, 2010 at Lady Hardinge Medical College, New Delhi

JIPMER 2010-2011 / 322
## RESEARCH PROJECTS

### A. Funded Projects

#### Extramurally Funded Projects

<table>
<thead>
<tr>
<th>S.No</th>
<th>Duration</th>
<th>Funding</th>
<th>Co-Principal Investigator</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4 years</td>
<td>Rs 38.75 lakhs DST, Govt. of India, New Delhi.</td>
<td>Dr. C. Adithan</td>
<td>Association between CYP2C8, CYP2C9, CYP2J2 and eNOS gene polymorphisms and susceptibility to Acute Myocardial Infarction in South Indian population</td>
</tr>
</tbody>
</table>

#### Ongoing Projects

<table>
<thead>
<tr>
<th>S.No</th>
<th>Duration</th>
<th>Funding</th>
<th>Principal Investigator</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5 years</td>
<td>Rs. 1.58 crores ICMR, New Delhi.</td>
<td>Dr. C. Adithan</td>
<td>ICMR Center for Advance Research in Pharmacogenomics Phase-I clinical trial project of Thrombinase</td>
</tr>
<tr>
<td>2</td>
<td>2 years</td>
<td>Malladi Drugs &amp; Pharmaceuticals Limited, Chennai</td>
<td>Dr. R. Raveendran</td>
<td>Influence of CYP2C9, VKORC1 and CYP4F2 genetic polymorphism on plasma warfarin levels and development of algorithm for initiating warfarin therapy in South Indian population</td>
</tr>
<tr>
<td>3</td>
<td>2 years</td>
<td>ICMR-INSERM</td>
<td>Dr. D. G. Shewade</td>
<td>Influence of CYP2C9, VKORC1 and CYP4F2 genetic polymorphism on plasma warfarin levels and development of algorithm for initiating warfarin therapy in South Indian population</td>
</tr>
</tbody>
</table>

#### Intramurally Funded Projects

<table>
<thead>
<tr>
<th>S.No</th>
<th>Name of the Student</th>
<th>Title of Dissertation</th>
<th>Name of Guide</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mr. U. S. Chakradhra Rao</td>
<td>Characterization of 5’ regulatory region of CYP2C19 in a South Indian population. Effect of endothelial nitric oxide synthase gene (Glu298Asp) polymorphism on salbutamol induced endothelial response in healthy individuals.</td>
<td>Dr. D. G. Shewade</td>
</tr>
<tr>
<td>2</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>
</tr>
<tr>
<td>S.No</td>
<td>Name of the Student</td>
<td>Title of Dissertation</td>
<td>Name of Guide</td>
</tr>
<tr>
<td>------</td>
<td>--------------------------</td>
<td>----------------------------------------------------------------------------------------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td>1</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>
</tr>
<tr>
<td>2</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>
</tr>
<tr>
<td>3</td>
<td>Mr.G.Umamaheswaran</td>
<td>Gene expression and genetic variations of CYP19 gene as a predictive factor for letrozole response and toxicity in postmenopausal breast cancer patients.</td>
<td>Dr. Steven Aibor Dkhar</td>
</tr>
<tr>
<td>4</td>
<td>Mr.A.S.Arun Kumar</td>
<td>Influence of genetic factors on endothelial function with reference to risk of Myocardial infarction and atorvastatin response</td>
<td>Dr. C. Adithan</td>
</tr>
<tr>
<td>5</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. S C Pradhan</td>
</tr>
<tr>
<td>6</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>
</tr>
<tr>
<td>7</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>
</tr>
<tr>
<td>8</td>
<td>Dr. K. Subraja</td>
<td>Effect of CYP2C19 and MDR1 genetic polymorphisms on antiplatelet effects of clopidogrel in clinical settings</td>
<td>Dr. Steven. A. Dkhar</td>
</tr>
<tr>
<td>S.No</td>
<td>Name of the Student</td>
<td>Title of Dissertation</td>
<td>Name of Guide</td>
</tr>
<tr>
<td>------</td>
<td>--------------------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>------------------------</td>
</tr>
<tr>
<td>9</td>
<td>Dr. Rajani Anil Kanaiyalal</td>
<td>Influence of DPYD*2A mutation on 5-Fluorouracil/ Capecitabine induced toxicity</td>
<td>Dr. Steven. A. Dkhar</td>
</tr>
<tr>
<td>10</td>
<td>Dr. Mani Prabhu kumar</td>
<td>Effect of ABCB1 and ABCC1 polymorphism on the lipid lowering response and adverse effect profile of Atorvastatin</td>
<td>Dr. S C Pradhan</td>
</tr>
<tr>
<td>11</td>
<td>Dr. Priyadarshini R P</td>
<td>Evaluation of antihypertensive effect of Cleistanthin A and B in Sprague Dawley rats</td>
<td>Dr. R. Raveendran</td>
</tr>
<tr>
<td>12</td>
<td>Dr. Ravindra.B.K</td>
<td>Effect of doubling the dose of clopidogrel in non-responders with 75mg once daily dose and its relation to CYP2C19 genetic polymorphism in South Indian population</td>
<td>Dr. D G Shewade</td>
</tr>
<tr>
<td>13</td>
<td>Mrs. M. Aarthi</td>
<td>Pharmacogenomics of Pioglitazone therapy in south Indian type 2 Diabetes Mellitus</td>
<td>Dr. D G Shewade</td>
</tr>
<tr>
<td>14</td>
<td>Ms. M. Rupadevi</td>
<td>The role of stem cells and platelet derived growth factor on proliferation and differentiation</td>
<td>Dr. R. Raveendran</td>
</tr>
<tr>
<td>15</td>
<td>Ms. C. Indumathi</td>
<td>Pharmacogenomics of lipid lowering response of Atorvastatin among dyslipidemic Tamilian population</td>
<td>Dr. Steven. A. Dkhar</td>
</tr>
<tr>
<td>16</td>
<td>Mr. Jose Francis</td>
<td>Population pharmacokinetics and Pharmacogenetics of Imatinib mesylate in Chronic myeloid leukemia patients</td>
<td>Dr. S C Pradhan</td>
</tr>
</tbody>
</table>

**B. Departmental Projects Completed**

<table>
<thead>
<tr>
<th>S.No</th>
<th>Name of the Student</th>
<th>Title of Dissertation</th>
<th>Name of Guide</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dr. Madhav Rao</td>
<td>Effects of cleistanthin A and B on motor function in animal models</td>
<td>Dr. R. Raveendran</td>
</tr>
</tbody>
</table>


4. Damodaran SE, Pradhan P, Pradhan SC. Newer Approaches to Malaria Control. Trop Parasitol 2011 (accepted for publication)


JIPMER 2010-2011 / 326


PATIENT CARE SERVICES

a. Clinical
The department is providing clinical services like adverse drug reaction monitoring and drug information services. During the year 2010 – 2011, a total of 211 adverse drug reactions (ADR) has been reported to the ADR Monitoring Centre in the department.

b. Laboratory
The department is performing Therapeutic Drug Monitoring (TDM) for phenytoin, phenobarbitone and carbamazepine. During 2010-2011, 303 TDM assays have been performed. Urinary VMA assays are also carried out. TDM for immunosuppressants like methotrexate, cyclosporine and tacrolimus are being standardized to optimize therapy in renal transplant recipients.

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

• The first issue of the Journal of Pharmacology and Pharmacotherapeutics for which Dr. R. Raveendran, Professor, is the Chief Editor was released in June 2010.

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. C. Adithan

• Faculty in-charge, Division of Clinical Pharmacology
• Co-ordinator, ADR Monitoring Centre
• Co-ordinator, Drug Information Centre
• Chairman, JIPMER Ph.D. Studies committee
• Member-Secretary, Institute Ethics Committee (Human studies)
• Member-Secretary, Advisory Committee for establishing Multidisciplinary Advanced Research Centre, JIPMER
• Faculty-in-charge, Finance Division, JIPMER
• Vice-Chairman, Drug Purchase and Utilization Monitoring Committee
• Warden - Lister, Osler and Aschoff House (UG Men's Hostel), JIPMER
• Member, Board of Examinations, JIPMER
• Member, Committee for assessing man power requirements of JIPMER
• Member, Institute core committee for starting renal transplantation at JIPMER
• Member, Editorial Board – JIPMER News
Dr. S. C. Pradhan
- Vigilance officer of JIPMER
- Undergraduate and Postgraduate teaching in-charge

Dr. D. G. Shewade
- Officer in-charge of purchase, JIPMER
- Teacher in-charge for Emergency Medical Technician Course

Dr. Raveendran
- Officer in-charge of Pharmacy
- Teacher in-charge for B.Sc. Nursing
- The officer-in-charge of CRAFT (Centre for Research and Academic Facilities and Training)
- Chairman of JIPMER departmental canteen.

Dr. Steven A. Dkhar
- Officer in-charge of Linen and laundry sections, JIPMER hospital
- Officer in-charge of stores, Dept. of Pharmacology
- Teacher in-charge for MRO
- Sub Co-ordinator, ADR Monitoring Centre

Mr. R. Kesavan
- Officer in-charge (Assistant), Dept. of Pharmacy

SIGNIFICANT EVENTS IN THE DEPARTMENT

1. The Adverse Drug Reaction Monitoring Centre, under the Pharmacovigilance Programme of India (PVPI), started functioning in the Department of Pharmacology, JIPMER from November 2010. It is one of the ten centres functioning under the PVPI. The centre collects information about adverse drug reactions and feeds them into the database of the Uppsala Monitoring Centre, Sweden.

Professor Flaminio Cattabeni, from Center for Excellence on Neurodegenerative disease, Department of Pharmacological Sciences, University of Milano, Italy delivered a guest lecture on “Alzheimer’s disease: hope for cure” on 11th January, 2011 at the Dept. of Pharmacology, JIPMER. The Physiotherapy Section in JIPMER was established in the year 1966 with limited staff and equipment.

It 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].
8.28 Physical Medicine and Rehabilitation

8.28.1 Physiotherapy

Professor & Incharge
D.K. Patro

Assistant Professor
Srikumar Venkataraman

Senior Physiotherapist
V. Kaleeswaran

BACKGROUND INFORMATION OF THE DEPARTMENT

The Physiotherapy Section in JIPMER was established in the year 1966 with limited staff and equipment. It 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 a 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.

STAFF PATTERN

01. Senior Physiotherapist
02. Junior Physiotherapist - 5 Nos
03. Physiotherapy Technician Gr.I
04. Physiotherapy Technician
05. Physiotherapy Attendant.

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.

JIPMER 2010-2011 / 329
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

- PMR
- Orthopaedic Surgery
- Surgery
- Neurology
- Neuro Surgery
- Paediatrics
- Paediatric Surgery
- Radiotherapy
- Oncology
- Obstetrics
- Gynecology
- Immunology
- Plastic Surgery
- Dermatology
- ENT
- General Medicine
- DTCD

Are evaluated and taken up for regular therapy [pain management & rehabilitation] and follow-up.

**In-Patients Service**

Patients referred from various wards and attended bedside and given rehabilitative exercise. Patient 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
2. Electro Therapy
   a. Conductive Heating
      • Wax bath
      • Contrast bath
      • Hot compression therapy
   b. Conversion Heating
      • Short wave diathermy
      • Micro wave diathermy
   c. Cryotherapy
      • Ice packs
      • Ice-massage
   d. Mechanical
      • Ultra-red radiation
      • Traction
      • Phonophoresis
   e. Radiation
      • Infra-red radiation
      • Ultra violet radiation
      • Laser
   f. Medium Frequency Currents
      • Interferential therapy
      • TENS
   g. Low Frequency Currents
      • Electrical stimulation
      • Iontophoresis
      • Electro-diagnosis
   h. Continuous Passive Mobilisers
      • Lower Limb-hip, knee
      • Upper limb-shoulder, elbow, forearm.
   i. Gymnasium Equipments
      • Multi gym [9 seater]
      • Mariner’s wheel
      • Quadriceps table
      • Treadmill
      • Static cycle
      • Bubble Inclino meter
      • Shoulder campass
      • Ankle exercise
      • Finger exercise
      • Forearm & wrist mobiliser.
# Statistics of the year

Physiotherapy Annual Census [2010-2011] Out/In-Patient’s Attendance

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Month</th>
<th>Year</th>
<th>OPD</th>
<th>In-Patients</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>New cases</td>
<td>Old cases</td>
<td>Male</td>
</tr>
<tr>
<td>01.</td>
<td>April</td>
<td>2010</td>
<td>729</td>
<td>2735</td>
<td>113</td>
</tr>
<tr>
<td>02.</td>
<td>May</td>
<td>2010</td>
<td>909</td>
<td>2441</td>
<td>396</td>
</tr>
<tr>
<td>03.</td>
<td>June</td>
<td>2010</td>
<td>942</td>
<td>2882</td>
<td>286</td>
</tr>
<tr>
<td>04.</td>
<td>July</td>
<td>2010</td>
<td>936</td>
<td>2682</td>
<td>324</td>
</tr>
<tr>
<td>05.</td>
<td>Aug.</td>
<td>2010</td>
<td>1136</td>
<td>2217</td>
<td>318</td>
</tr>
<tr>
<td>06.</td>
<td>Sept.</td>
<td>2010</td>
<td>939</td>
<td>2665</td>
<td>381</td>
</tr>
<tr>
<td>07.</td>
<td>Oct.</td>
<td>2010</td>
<td>990</td>
<td>2178</td>
<td>249</td>
</tr>
<tr>
<td>08.</td>
<td>Nov.</td>
<td>2010</td>
<td>926</td>
<td>2939</td>
<td>573</td>
</tr>
<tr>
<td>09.</td>
<td>Dec.</td>
<td>2010</td>
<td>932</td>
<td>2689</td>
<td>171</td>
</tr>
<tr>
<td>11.</td>
<td>Feb.</td>
<td>2011</td>
<td>1062</td>
<td>2961</td>
<td>147</td>
</tr>
</tbody>
</table>

**GRAND TOTAL** 51857

### AWARDS, HONOURS AND PERSONAL ACHIEVEMENTS

**Mr. V. Kaleeswaran**

- Completed MHSC [PT] Degree from Annamalai University, 2010.
- Attended a seminar and debate on “Parts and Path to Chronic Pain“ in MTPG & RIHS, Pondicherry.
- Attended in CME in “Handling of Chemotherapy Management, extravasation management and Lymphoedema Care” conducted by RCC, JIPMER.
- Attended A CME programme on “Falls Screening, prevention and evidence based Management” conducted by CDPTA at Cuddalore.
- Attended “Cardio-respiratory fitness, awareness Camp” at MTPG & RIHS, Pondicherry.
SIGNIFICANT EVENTS

• Mr. J. Mohanakrishnan, Junior Physiotherapist, presented a paper in “International Yoga Conference” held at Coimbatore September 2011 on “Yoga in paralynepies for Disabled Child” and got published the same in the Magazine.

• Adding to the Institute’s privilege our 4 Junior Physiotherapists have completed Post-Graduate Degree in Physiotherapy in various specialties [3-in Orthopaedics and 1-in Cardio-respiratory]

  i. The following patient care services were provided
  ii. Computerized Lumbar and cervical traction using Chattanooga Auto traction Unit.
  iii. Continuous passive mobilization of upper limb using CPM shoulder, CPM elbow and forearm units.
  iv. Ultra Sound Therapy using ultra sound Unit with computerized sensor.
  v. Aerobic exercises for Cardiac fitness
  vi. Cryotherapy is introduced as an adjuvant in pain management.
  vii. Bio feed back as a preview has been used in treatment of Urinary in continence, and sports injury management.
  viii. Manual Lymphatic drainage and comprehensive decongestive therapy [MCD&CDT] is given as an intensive part of the treatment in lymphoederma patients[following mastectomy].
  ix. Apart from their routine patient care services our staffs find time for a weekly clinical discussion as part of academic accreditation.
  x. We also attend to the Health care camps, as a part of Community Health Services, organized by P&SM Department, JIPMER at various villages and also do the Health Camps conducted by Orthopaedic Surgery Department at Karaikal.

FUTURE PLANS

• Gait Lab [Rehabilitation Gait Training]
• EMG bio feed back unit
• Cardiac & Pulmonary Rehabilitation Unit
• Paediatric Rehabilitation
• Patients data base computerized
• Geriatric Rehabilitation
• Stroke rehabilitation unit
• Sports Rehabilitation unit
• To procure Iso-kinetic equipment.
8.28.2 Occupational Therapy Section

<table>
<thead>
<tr>
<th>Professor &amp; Incharge</th>
<th>D.K. Patro</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assistant Professor</td>
<td>Srikumar</td>
</tr>
<tr>
<td></td>
<td>Venkataraman</td>
</tr>
<tr>
<td>Senior Occupational Therapist</td>
<td>V. Brindha</td>
</tr>
</tbody>
</table>

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.

STAFF PATTERN

Category of Staff attached to Occupational Therapy Section

1. Senior Occupational Therapist
2. Junior Occupational Therapist - 5
3. Occupational Therapy Technician
4. Occupational Therapy Assistant
5. Craft Teacher
6. Blacksmith
7. Weaver
8. Occupational Therapy Attendant

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.
- In addition to routine duties we also attend special clinics like poliomyelitis, cerebral palsy clinical, Immunology clinic and stroke clinic.
- We also take part in Institute's Under-graduate MBBS[Intern] and B.Sc[Nursing] MRT[Medical Record Trainees] course.
Out-Patient Service

- Patient referred from various OPD’s.
- P.M.R.
- Orthopaedics Surgery
- Surgery
- Medicine
- Neurology
- Neurosurgery
- Paediatrics
- Paediatric Surgery
- Radiotherapy
- Oncology
- Obst. & Gynaecology
- Immunology
- Plastic Surgery
- Dermatology
- ENT
- General Medicine
- 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:

- Therapeutic approaches and activities
- Splintage
- Pre-vocational assessment and training
- Functional capacity evaluation and training

JIPMER 2010-2011 / 335
• Education and counseling to patients and care taken
• Hand function evaluation and rehabilitation
• Sensory motor evaluation and rehabilitation
• Cognitive perceptual evaluation and rehabilitation
• Sensory Integration Therapy
• Stress management and relaxation training
• Activities of daily living training
• Aids and adaptation

STATISTICS OF THE YEAR

Occupational Therapy Annual Census [2010-2011]

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Month</th>
<th>Year</th>
<th>OPD</th>
<th>IP</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>New cases</td>
<td>Old cases</td>
<td>Male</td>
</tr>
<tr>
<td>01.</td>
<td>April</td>
<td>2010</td>
<td>150</td>
<td>125</td>
<td>290</td>
</tr>
<tr>
<td>02.</td>
<td>May</td>
<td>2010</td>
<td>130</td>
<td>140</td>
<td>280</td>
</tr>
<tr>
<td>03.</td>
<td>June</td>
<td>2010</td>
<td>158</td>
<td>145</td>
<td>320</td>
</tr>
<tr>
<td>04.</td>
<td>July</td>
<td>2010</td>
<td>140</td>
<td>125</td>
<td>290</td>
</tr>
<tr>
<td>05.</td>
<td>Aug.</td>
<td>2010</td>
<td>135</td>
<td>140</td>
<td>270</td>
</tr>
<tr>
<td>06.</td>
<td>Sept.</td>
<td>2010</td>
<td>142</td>
<td>168</td>
<td>282</td>
</tr>
<tr>
<td>07.</td>
<td>Oct.</td>
<td>2010</td>
<td>155</td>
<td>137</td>
<td>291</td>
</tr>
<tr>
<td>08.</td>
<td>Nov.</td>
<td>2010</td>
<td>130</td>
<td>127</td>
<td>267</td>
</tr>
<tr>
<td>09.</td>
<td>Dec.</td>
<td>2010</td>
<td>147</td>
<td>132</td>
<td>262</td>
</tr>
<tr>
<td>11.</td>
<td>Feb.</td>
<td>2011</td>
<td>135</td>
<td>123</td>
<td>180</td>
</tr>
<tr>
<td>12.</td>
<td>Mar.</td>
<td>2011</td>
<td>180</td>
<td>121</td>
<td>251</td>
</tr>
</tbody>
</table>
AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Mrs V. Brindha, Sr. Occupational Therapist was an External Examiner for BOT course in Dr MGR University and Annamalai University.

RESEARCH PROJECTS

Completed

• Serial above knee plaster casts beneficial in management of spasticity in spastic cerebral palsy [Diplegic] children by Mr. S. Satishkumar, Junior Occupational Therapist at Annamalai University, Chidambaram under the guidance of Dr. Jagdish Menon, Associate Professor, JIPMER.

• Effect of ‘Task oriented intervention’ in post stroke U/E rehabilitation by Ms. J. B. Sujatha, Junior Occupational Therapist under the guidance of Dr. RN Sahoo, WHO Fellow in Neurology, JIPMER.

SIGNIFICANT EVENTS IN THE DEPARTMENT

• With increase in number of patients with sensory integration disorders, sensory integration therapy with its essential equipments was started in 2009 rendering services to patients with ADHD, Autism and various PDD.

• Biofeedback training.

• Pre and Post botox/alcohol injection assessment/therapy

FUTURE PLANS

• Biofeedback retraining

• Workstation for rehabilitation

• Community based rehabilitation

• Geriatric rehabilitation

• Stroke rehabilitation

• To start a GAIT Lab

• Upgradation of sensory Integration Therapy Unit

• To start Paediatric Hydrotherapy unit

• Computerized patient data base.

• Early intervention & infant stimulation programmes

• Assistive devices design and technology development

• Ergonomics consulting

• Accessibility promotion programmes

• Work hardening and return to work programmes

• Disability management services

• Project work to enhance evidence base of the profession

JIPMER 2010-2011 / 337
# 8.28.3 Orthotics Section

<table>
<thead>
<tr>
<th><strong>Professor &amp; Incharge</strong></th>
<th>D.K. Patro</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Assistant Professor</strong></td>
<td>Srikumar Venkataraman</td>
</tr>
<tr>
<td><strong>Orthotist</strong></td>
<td>Mr. K. Srikanth</td>
</tr>
</tbody>
</table>

## 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.

## STAFF PATTERN

- Orthotist
- Orthotic Technician -2
- Orthotic Craftsman -2
- Cobbler Gr.C -2
- Cobbler Gr.D -3

## PATIENT CARE SERVICES

Treating patients suffering from polio, cerebral palsy, spinal disorders scoliosis contraction of the toes, finger etc.

- Treating orthopaedically handicapped patient by providing orthoses.
- Treating patient with mental disorder spastic children by giving supportive orthoses.
- Providing walking aids
- Providing modern, light weight cap dated orthoses to the needy patient
- Providing orientation classes and explaining about the orthoses to Intern, Nursing students.

## Statistics

- New Cases – 2046
- Old Cases – 1180
- Upper and Lower limb Orthoses – 335
• Spinal Orthoses – 186
• Orthopaedic footwear – 154
• Footwear modification – 704
• Orthoses repair – 238

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

• Mr.K.Srikanth, Orthotist has attended the Expert Committee meeting for finalizing the P&O syllabus for the various institution on 12th and 13th January 2011 conducted by Rehabilitation Council of India.
• Mr.K.Srikanth, Orthotist has attended General body meeting of International Society of Prosthetics and Orthotics at Varanasi on 14th January 2011.
• Mr.K.Srikanth, Orthotist holding the following position in professional Association and Government.
  • Member of Composition of Artificial limb, rehabilitation appliances and equipmentation for the Disabled sectional committee in Bureau of Indian Standards [ISI], New Delhi.
  • Life member and National Treasurer of Orthotics and Prosthetic Association of India.
  • Registered Professional of Rehabilitation Council of India[RCI]
• Mr.K.Srikanth Orthotist has 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.
• Orthotic Section in JIPMER is only and one of the biggest section in South India, providing modular Orthoses with latest technology by taking measurement/cast from each patient issuing free of cast [based on Income certificate] to patient.

SIGNIFICANT EVENTS IN THE DEPARTMENT

• Orthotic Section has updated with latest equipments and machineries. Staff at par with rehabilitation Council of India guidelines to conduct Degree course for Prosthetic and Orthotics [BPO].

FUTURE PLANS

• Planning to have Vaccum Moulding Technology.
• Planning to purchase Infra-red Aligner to check the deformity correction after fitment of Orthoses.
• Planning to purchase sensory gait analyzer to know about pressure for Orthoses after fitting to the patient.
• Planning to incorporate pressure garments to treat the post burns scars, varicose vein, surgical scars and for post delivery abdominal belts.
• Planning to incorporate silicon gel pad sheets/neuropathy patients, leprosy patient, to treat post surgical scars.
• Planning to purchase components for fabricating halo braces for cervical and spinal braces.
• Planning to purchase Foot scanner since we are treating lot of foot problems.
8.28.4 Prosthetics Section

<table>
<thead>
<tr>
<th>Professor &amp; Incharge</th>
<th>D.K. Patro</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assistant Professor</td>
<td>Srikumar Venkataraman</td>
</tr>
<tr>
<td>Prosthetist</td>
<td>K.Mathivanan</td>
</tr>
</tbody>
</table>

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.

STAFF PATTERN

- Prosthetist
- Prosthetic Technician - 2
- Prosthetic Craftsman
- Carpenter
- Workshop Attendant [P&O]

PATIENT CARE SERVICE

- Axillary Crutches to amputees
- Elbow crutches to amputees
- Upper limb prosthesis amputees
- Lower limb Prosthesis amputees
- Upper limb repair work on old prosthesis
- Lower limb repair works on old prosthesis
- Gait training to amputees on trial limb
• In-patient and out-patient prosthetic evaluation assessment for new patients.
• B.Sc. Nursing [JIPMER] students and MBBS [JIPMER] Interns are being taught the prosthetic subjects along with practical demonstration.

Statistics

• Average New Cases attended – 182
• Average Old cases attended – 220
• Prosthesis issued – 26
• Prosthetic repair work attended – 32
• Axillary and elbow crutch issued – 47
• Crutches repair work done – 80

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

• Mr.K.Mathivanan is Registered Professional Member (A 0209) in Rehabilitation Council Of India (RCI).
• Mr.K.Mathivanan is Life Member in Indian Association of Prosthetist and Orthotist.
• Mr.K.Mathivanan is Life member in Indian Orthotists and Prosthetists Association.
• Mr.K.Mathivanan is the Organising Secretary for 2 CME programme conducted in JIPMER and Scientific paper presented on “Cervical stenois and its orthotic management”.
• Mr.K.Mathivanan is technical adviser for CME Hands on workshop.
• Simple mould holding vice (device) designed and used extensively without assistance of other in work.
• Endo skeletal Prosthesis is below knee and above knee fabricated and fitted.
• 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.
• IAPO- Professional National Conference conducted by the Staff as organizers in JIPMER.
• IOPA- Professional CME conducted in JIPMER in MAY 2010 on “ADVANCEMENT IN PROSTHETICS”.
• Staff are holding Chief Executive posts in various professional associations.

FUTURE PLAN

• Rural Camp to be conducted to extend the service on community based rehabilitation with additional technical staff.
• Advanced prosthetic components such as Hydralic joint and materials to be purchased to provide maximum prosthetic function to the amputees.
• To conduct/have hands on workshop on advanced technology of outsource companies.
• To implement social welfare / ALIMCO’S ‘ADIP’ scheme to provide more devices to patients on free of cost.
• To purchase laser liner equipments for prosthetic alignment and checkout procedure.
• To purchase electronic router for prosthesis grinding and trimming.
• To purchase active wrist and ankle joint components, energy storing leaf spring prosthetic foot and reusable advanced prosthetic knee joints to fit for amputees.
• Bionic artificial Below- elbow components to purchase for demonstration to U.G & P.G students.
• Special section to be started for Geriatric prosthetic fabrication .fitting and training.
• Cosmetic hand fabrication lab- to be started to cuter silicon rubber used finger & hand molding.
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 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 (two semesters), which includes MBBS, B. Sc. (Nursing) and B. Sc. (Medical Laboratory Technology) B. Sc. (AMS) – Dialysis Technology / Medical Radiation Technology / Operation Theatre Technology/ Perfusion 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 Ph D candidates have joined in the current year.
D. Other courses

Medical Records Technician (six month course), Medical Records Officers (One year course), Emergency Medical Training Course (nine months course).

CONTINUING MEDICAL EDUCATION PROGRAMS

Dr. Madanmohan Trakroo

- Organizing Chairman, National Workshop-cum-Seminar on “Role of yoga in prevention and management of Diabetes Mellitus” at JIPMER, March 2011.
- Conducted CME on Pulmonary Function Test at Kamineni Institute of Medical Sciences, Andhra Pradesh.
- Participated as a delegate in CME on Yoga organized by Sathya Sai Institute of Medical Sciences, held at Kanchipuram on 17th January 2011.
- Participated as a delegate in the Workshop on “Role of yoga in respiratory tract disorders” at Jamnagar, Gujarat on 10th March 2011.

Dr. G. K. Pal

- Participated as a delegate in the Seminar on “Role of Education in Modern India” on 7th April 2010 at New Delhi.
- Participated as a delegate in the pre-conference Workshop titled “Basic Concepts in Molecular Biology” held on 14th December 2010 at St. John’s Medical College, Bengaluru.
- Participated as a delegate in Pre-Conference CME on “Innovations in Teaching” and on “Pain” in the 56th Annual National Conference of Physiologists and Pharmacologists of India (APPI) held from 21st December 2010 at J.N. Medical College, Sawangi, Wardha.
- Organizing Secretary, National Workshop-cum-Seminar on “Role of yoga in prevention and management of Diabetes Mellitus” at JIPMER, 01st–2nd March 2011.
- Participated as a delegate in “Short Course on Basic Epidemiology” organized by Department of Preventive and Social Medicine (PSM), JIPMER, Pondicherry from 07th–12th March 2011.

Dr. G S Gaur

- Attended CME on “Approach to management of thyroid disorders” held at Department of Endocrinology, JIPMER on 18th April 2010.
- Attended CME on “Pediatric and adolescent endocrinology update” held at JIPMER on 31st October 2010.
- Participated in pre-conference National CME on “Innovation in teaching” and in Pain held at JN Medical College, Wardha, India from 21st December 2010.
- Chaired a Scientific session in National Workshop-cum-Seminar on “Role of yoga in prevention and management of Diabetes Mellitus” conducted by ACYTER and Department of Physiology, JIPMER on 1st and 2nd March 2011.
- Attended CME on “issues in HIV” organized by Department of Microbiology JIPMER and AIDS control society, Pondicherry on 7th March 2011.

JIPMER 2010-2011/344
Dr. Pravati Pal

- Participated as a delegate in the Seminar on “Role of Education in Modern India” on 7th April 2010 at New Delhi.
- Attended CME on “Approach to management of thyroid disorders” held at Department of Endocrinology, JIPMER on 18th April 2010.
- Attended the “Assessors’ training Workshop” conducted by MCI at New Delhi on 29th November 2010.
- Attended the pre-conference Workshop titled “Novel Techniques in Body Composition studies and Mineral Metabolism” held on 14th December 2010 at St. John’s Medical College, Bengaluru.
- Attended the Pre-Conference CME on “Innovations in Teaching” and on “Pain” in the 56th Annual National Conference of Physiologists and Pharmacologists of India (APPI) held from 21st December 2010 at J.N. Medical College, Sawangi, Wardha.
- Chairman of inauguration committee and delegate in the National Workshop-cum-Seminar on “Role of yoga in prevention and management of Diabetes Mellitus” at JIPMER, 01st-2nd March 2011.

Dr. Vivek Kumar Sharma

- Participated as a delegate in CME organized by Department of Medicine, JIPMER, Pondicherry, on 13th of November 2010.
- Participated and delivered a lecture on “Effect of yoga on autonomic functions” during National Workshop-cum Seminar on “Role of yoga in prevention & management of Diabetes Mellitus” held on 1st and 2nd of March 2011 at JIPMER.
- Participated in “Short Course on Basic Epidemiology” organized by Department of Preventive and Social Medicine (PSM), JIPMER, Pondicherry from 07th – 12th March, 2011.
- Delivered a lecture on “Pathophysiological basis of Acid base disorders” during CME on “Clinical Physiology” organized by Department of Physiology, MMC & RI, Mysore, Karnataka.

Dr. S Velkumary

- Participated as a delegate in CME organized by Department of Medicine, JIPMER, Pondicherry, on 13th of November 2010.
- Participated and delivered a lecture on “Effect of yoga on pre-diabetes” during National Workshop-cum Seminar on “Role of yoga in prevention & management of Diabetes Mellitus” held on 1st and 2nd of March 2011 at JIPMER.
- Participated in “Short Course on Basic Epidemiology” organized by Department of Preventive and Social Medicine (PSM), JIPMER, Pondicherry from 07th – 12th March, 2011.
CONFERENCES

Dr. Madanmohan Trakroo

- Chaired a session on “Role of yoga in the management of hypertension” during International Yoga Festival organized by Govt. of Pondicherry on January 2011.
- Attended the International Yoga Week held at New Delhi in February 2011.

Dr. G. K. Pal

- Delivered a lecture in a special panel discussion on “Relevance of Physiology in Medical Curriculum” and participated as a delegate and in the 22nd Annual Conference of Physiological Society of India (PSI) and 2nd Biennial Conference of South Asian Association of Physiologists (SAAP) from 15th–17th December 2010 at St. John’s Medical College, Bengaluru.
- Delivered the oration lecture on “Defining the Role of Physiologists in Medical Education” and delivered a guest lecture on “Importance of Sympathovagal homeostasis achieved by mind-body relaxation” and participated as a delegate in the 56th Annual National Conference of Physiologists and Pharmacologists of India (APPI) held from 21st–24th December 2010 at J.N. Medical College, Sawangi, Wardha.
- Delivered a guest lecture on “Importance of sympathovagal imbalance in pathophysiology and management of pregnancy-induced hypertension” and participated as a delegate in the 98th Indian Science Congress from 3rd–7th January 2011 at SRM University, Chennai.

Dr. G S Gaur

- Participated as delegate and presented a paper entitled “Posture affects the myocardial oxygen consumption but not the cardiac autonomic responses” at the 56th National Conference of Physiologists and Pharmacologists of India held at JN Medical College, Wardha, India from 22nd–24th December 2010 and also chaired a session in APPICON 2010.
- Attended International conference on “Yoga for health and social transformation” held at university of Patanjali, Haridwar, UP, India from 2nd – 5th January 2011.

Dr. Pravati Pal

- Judged two poster sessions and participated as a delegate in the 22nd Annual Conference of Physiological Society of India (PSI) and 2nd Biennial Conference of South Asian Association of Physiologists (SAAP) from 15th–17th December 2010 at St. John’s Medical College, Bengaluru.
- Judged the undergraduate oral prize paper session and participated as a delegate in the 56th Annual National Conference of Physiologists and Pharmacologists of India (APPI) held from 21st–24th December 2010 at J.N. Medical College, Sawangi, Wardha.
- Judged the poster sessions in Physiology and participated as a delegate in the 98th Indian Science Congress from 3rd–7th January 2011 at SRM University, Chennai.
Dr. Vivek Kumar Sharma

- Participated as a delegate in the conference on “Health Professional Education: Current trends and future direction” held at Saveetha University, Chennai, from 06th to 07th August 2010.
- Participated as a delegate in the first International conference on “Yoga for health & social transformation”, organized by University of Patanjali, Haridwar, Uttarakhand, from 2nd to 5th January 2011.

Dr. S Velkumary

- Participated as a delegate in the conference on “Health Professional Education: Current trends and future direction” held at Saveetha University, Chennai, from 06th to 07th August 2010.
- Participated as a delegate in the first International conference on “Yoga for health & social transformation”, organized by University of Patanjali, Haridwar, Uttarakhand, from 2nd to 5th January 2011.

RESEARCH PROJECT

A. Funded Projects

Intramural funded project

Completed

- 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. Sebanti Dev (PG), guided by Dr. Pravati Pal. (Amount: Rs. 1,08,000).

Ongoing

- Assessment of autonomic functions in patients with polycystic ovary syndrome: correlation with body mass index, insulin resistance, lipid profile and thyroid profile.
- Gender difference in the role of VMH in sucrose-induced and high fat diet-induced obesity in albino rats of Wistar strain: correlation with insulin resistance, lipid profile and thyroid profile.
- 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.
- Gender difference in adiposity and immunological parameters in ventromedial hypothalamus and posterodorsal amygdala lesioned albino Wistar rats.
- Effect of yoga therapy on cardiac autonomic function and oxidative stress in prehypertensive subjects: A randomized controlled study.
- Effect of gender on autonomic dysfunction in hypothyroidism and its correlation with BP, BMI, immunological and inflammatory markers.
B. Departmental Projects

Completed

- Study of flash evoked potentials in healthy young adults.

Ongoing

- Effect of 12-week yoga therapy on cardiac autonomic functions in patients of essential hypertension – a randomized control study.
- Effect of yoga training on cognitive and autonomic parameters in healthy subjects. In collaboration with ACYTER, JIPMER
- Effect of yoga on autonomic and cognitive parameters in patients of major depression.
- Effect of yoga therapy on psycho physiological parameters in primary care givers of patients undergoing treatment for alcohol dependence.
- Heart rate variability and classical cardiovascular autonomic function tests in children: correlation with anthropometric parameters
- Effect of slow and fast pranayamas on pulmonary function, handgrip strength in young healthy volunteers – A randomized controlled study.
- Effect of yoga training on autonomic functions and reaction time in different phases of menstrual cycle.
- Effect of yoga therapy on cardiac function, response to exercise, oxidative stress and quality of life in heart failure patients: A randomized controlled study.

(i) Collaborative Projects

Ongoing

- Effect of yoga training on cognitive and autonomic parameters in healthy subjects. In collaboration with ACYTER, JIPMER.

PUBLICATIONS

Journals


Books

PATIENT CARE SERVICES
Laboratory
1. Electrophysiology laboratory
   I. Nerve conduction studies ... 844
   II. Electromyography ... 51
   III. Evoked potential ... 406
2. Autonomic Function Test Laboratory
   I. Autonomic Function Tests ... 82
   II. Tilt Table Tests ... 77
3. Pulmonary Function Tests ... 154

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS
Dr. G. K. Pal
- Received Prof. M. L. Gupta Memorial Award for substantial contribution in the field of Medical Education and Technology with special reference to Physiology in the 56th Annual National Conference of Physiologists and Pharmacologists of India (APPI) held from 21st-24th December 2010 at J.N. Medical College, Sawangi, Wardha.
- Editor (Physiology) of Indian Journal of Physiology and Pharmacology for the year 2009-2011
- Received “Bharat Jyoti” Award with a certificate of Excellence by Dr. Bhisma Narain Singh at a seminar on “Role of education in modern India” at New Delhi on 7th April, 2010

Dr. G S Gaur
- Has been nominated for WHO fellowship on “Health impact assessment” to be held at the University of Liverpool U.K for the year 2010-2011

Dr. Pravati Pal
- Received “Shiksha Ratan Puraskar” with a certificate of Excellence by Dr. Bhisma Narain Singh at a seminar on “Role of education in modern India” at New Delhi on 7th April, 2010
- Associate Editor of Indian Journal of Physiology and Pharmacology for the year 2009-2011.

Dr. Vivek Kumar Sharma
- Life Member of Indian Association of Biomedical Scientists (IABMS).
- Life Member of Indian Federation of Sports Medicine.
Dr. S Velkumary

• Life Member of Indian Association of Biomedical Scientists (IABMS).

Dr. Sebanti Dev

• Under the guidance of Dr. Pravati Pal, was awarded the first prize for oral presentation for her abstract entitled “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” in the 22nd Annual Conference of Physiological Society of India (PSI) and 2nd Biennial Conference of South Asian Association of Physiologists (SAAP) from 15th-17th December 2010 at St. John’s Medical College, Bengaluru.

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. Madanmohan

1. MCI inspector in Kolkata and Gorakhpur, UP
2. Chairman of Official Language Implementation Committee
3. Chairman of JIPMER Condemnation Committee
4. Member of purchase committee, JIPMER.
5. External examiner for MD, Ph D, MBBS and other paramedical courses at JIPMER and other institutes/universities.
6. Guided two Ph D students and one MD student and co-guide for one MD student during this period.
7. Recognized Ph. D. guide

Dr. G.K. Pal

1. Elected as Vice–President of South Asian Association of Physiologists (SAAP) in the 2nd Biennial Conference of SAAP held from 15th-17th December 2010 at St. John’s Medical College, Bangalore.
2. Officer-in-Charge of Central Workshop and Engineering Divison of JIPMER.
3. Member secretary for committee for condemnation of old and obsolete books in the central library of JIPMER.
4. Member of JIPMER staff canteen management committee since 2007.
5. Member of JIPMER news and annual report committee.
6. Member of JIPMER telephone committee and central workshop purchase committee.
7. Officer In-Charge of Department store for more than 15 years,
8. Officer In-charge of departmental PG programme and Ph.D. Programme.
9. Chairman of scientific committee of workshop cum seminar on Role of Yoga in prevention and management of Diabetes Mellitus held at JIPMER in March 2011.

JIPMER 2010-2011 / 351
10. Member of the International advisory board of Al-ameen Journal of Medical Sciences indexed in pub med).
11. Examiner for DNB courses in Physiology at National Board of Examinations, New Delhi.
12. 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, Bengaluru, Karnataka.
13. Guided and two M D students and is co-guide for one Ph D student during this period.
14. Author of four textbooks of Medical Physiology and two textbooks of Practical Physiology.
16. Conducted MCI inspection at Himalayan Institute of Medical Sciences, Dehradun.
17. Examiner for M. B. B. S., M. D. and Ph.D. courses in Tamilnadu Dr. M. G. R. Medical University, Rajiv Gandhi University Health Sciences, Bengaluru, Annamalai University, Chidambaram, Tamilnadu, Pondicherry University and medical colleges in Orissa, Maharashtra, Kerala, Gujarat and Calcutta University.
18. Recognized Ph.D. guide

**Dr. G S Gaur**

1. MCI inspector for verifying facilities available for starting MBBS course at People's Medical College and Research Center Bhopal and Malda Government Medical College, Malda.
2. Guided one M.D. student and was co-guide for one M.D. student and one Ph.D. student.
3. External examiner on panel for various UG and PG courses for Pondicherry University, T N Dr. M.G.R. Medical University and Rajiv Gandhi University of Health sciences.
5. Examiner on panel for Diplomat National Board (DNB) New Delhi.
7. Chairman of transport and accommodation committee for organizing workshop-cum-seminar on yoga for prevention and management of diabetes mellitus during March 2011 at JIPMER, Pondicherry.
8. Teaching- in- charge for B Sc Nursing and also Officer-in-charge for human pulmonary function laboratory that carry out pulmonary function for hospital patients.

**Dr. Pravati Pal**

1. Member of advisory board of Biomedicine, the journal of Indian Association of Biomedical Scientists for the year 2010.
2. Reviewer for Indian Journal of Physiology and Pharmacology, Biomedicine and Al-AMEEN Journal of Medical Sciences during this period.
3. Guided one M.D. student and one Ph.D. student and was co-guide for one M.D. student and one Ph.D. student during this period.

4. Chairman of inauguration committee of workshop-cum-seminar on Role of Yoga in prevention and management of Diabetes Mellitus held at JIPMER in March 2011.

5. Member for book exhibition held in August in JIPMER and for selection of books for various departments of JIPMER.

6. Examiner for M.B.B.S., M.D. and Ph.D. courses in Tamilnadu Dr. M.G.R. Medical University, Rajiv Gandhi University Health Sciences, Bengaluru, Annamalai University, Chidambaram, Tamilnadu, Pondicherry University, and Calcutta University.

7. Teaching- in- charge for MBBS and M.Sc. (Medical Biochemistry)

8. Officer-in-charge for animal research laboratory

9. Recognized Ph.D. guide

Dr. Vivek Kumar Sharma

1. Dr. Vivek Kumar Sharma has worked as the Chairman of Catering services committee for organizing workshop-cum-seminar on “Role of yoga in prevention & management of diabetes mellitus” held at JIPMER in March 2011.

2. Designated as co-guide for one M.D. student.

3. Officer-in-charge for department library.

Dr. S Velkumary

1. Dr. S Velkumary was appointed as external examiner for various paramedical courses by Pondicherry University.

2. Appointed as a co-guide for one M.D. student.


SIGNIFICANT EVENTS IN THE DEPARTMENT

- Visiting Professor Programme was organized in our department on 11th and 12th October 2010. Dr. T.R. Raju, Professor and Head of the Department of Neurophysiology, NIMHANS, Bangalore was the visiting professor. Dr. Raju delivered a lecture for the scientific society on the topic “Motor neuron disease: Insights through translational research”.

JIPMER 2010-2011 / 353
BACKGROUND INFORMATION OF THE DEPARTMENT

The Department of Plastic Surgery has a long history in JIPMER. Initially the department was functioning under the Department of Surgery in 60s and 70s. Dr. I. N. Tiwari was the first Plastic Surgery faculty who started performing Plastic Surgery procedures in JIPMER in late 60s.

After his departure there was a long gap without a plastic surgeon in the department. However, Dr. Sathyaprakash, Professor and Head of the Department of General Surgery was looking after the Plastic Surgery work and the department was functioning under his stewardship.

In the mid 80s Dr. A. Kumar joined as Senior Resident/Assistant Professor of Plastic Surgery and later on Dr. Mita Prasanna joined as Assistant Professor of Plastic Surgery. However, there were no independent beds or Operation Theatre for the Plastic Surgery procedures.

In 1983-84 Dr. P.A. Vinod Kumar, joined as Assistant Professor of Plastic Surgery and was later promoted as Associate Professor in 1984. During his tenure, an independent Department of Plastic Surgery was started and progressed remarkably. He was trained in Micro Surgery and Aesthetic Surgery from the UK. On 1st September 1986 Dr. Karoon Agrawal joined as Assistant Professor of Plastic Surgery. In December 1987 Dr. Vinod Kumar left the department and Dr. Karoon Agrawal, Assistant Professor became the Head of the department of Plastic Surgery. Dr. Sathya Narayana Mishra was posted in the department of Plastic Surgery as Medical Officer from 2nd February 1989 to 7th May 1992.

Later Dr. K.N. Panda was posted as Medical Officer in the Department of Plastic Surgery who worked till his superannuation i.e. till 30th June 2010.

Dr. Karoon Agrawal was promoted as Professor and Head of the Department of Plastic Surgery on September 1994 and worked in that post till 15th April 2010. He was transferred to Safdarjung Hospital, Department of Burns and Plastic Surgery w.e.f. 16th April 2010.

The department started as General Plastic Surgery Department. Dr. P.A. Vinod Kumar developed the department and started performing all types of surgery. Dr. Karoon Agrawal was interested in cleft and craniofacial surgery, Hypospadias Surgery, Vitiligo Surgery, apart from other plastic surgical procedures. Hence the department has become known for high quality of cleft and craniofacial surgery, Hypospadias Surgery.

During the year 2009 the Institute became autonomous and there was improvement in the infrastructure and simultaneously micro surgery facilities, laser surgery and aesthetic surgery were started with state of art equipment.
In early 2010 three Assistant Professors joined the department viz. Dr. Friji M.T., Dr. Devi Prasad Mohapatra and Dr. Dinesh Kumar. S and took over the new sub specialties in the department.

BED STRENGTH: The department started with 14 General Ward Beds. In 1987 it was 18 Beds, inclusion of 4 ICU beds. After shifting to the Super Specialty Block, the department is functioning with 24 General Beds, 6 ICU Beds and 3 Special ward beds with a total of 33 beds.

CONTINUING MEDICAL EDUCATION PROGRAMS

Workshops Attended by Faculties:

• Workshop on Distracture osteogenesis
• Workshop on Laser Therapy
• Workshop on Bracial Plexus Injury Management
• Workshop on Craniomaxilofacial trauma management
• Tutorials in Aesthetic Plastic Surgery

CONFERENCES

Dr. Deviprasad Mohapatra

• National conference for Association of Plastic Surgery of India at Goa.

Dr. Friji. M. T

• Participated in the 18th Kerala plastic surgery association instructional course and 3rd annual conference of Sushrutha institute of Plastic, Reconstructive & Aesthetic surgery held on 11th & 12th September 2010 at Trichur, Kerala.
• Attended 45th Annual conference of Association of Plastic surgeons of India held from 25th to 29th October 2010 at Goa.
• Attended AOCMF Course in Principles in Craniomaxillofacial fracture management from 5th to 7th March 2011 in Lucknow.

Dr. Dinesh Kumar

• Attended 4th Biennial Meeting of Brachial Plexus Surgery Group Of India from 16th to 18th February 2011 in Bangalore.

RESEARCH PROJECTS

1. Association of Cleft Lip & Palate with handedness among Patients with Cleft Lip & Palate in South Indian Population- Hand dominance in children with cleft palate and lip – under process of review –

2. Epidemiology, Quality of life & Health status of Patients with Scars - Psychological assessment- cosmetic surgery.

3. Role of Limited access dressing in the management of Type III compound fracture leg.
PUBLICATIONS

Dr. Deviprasad Mohapatra

- Inner table of Calure as a source of primary Bone Graft in Craniomaxillofacial in EUROPEON JOURNAL OF PLASTIC SURGERY.
- Spectrum of primary Bone grafting in Craniomaxillofacial Trauma in Indian Journal of Plastic Surgery.

Dr. Friji. M.T


PATIENT CARE SERVICES

A. Clinical

OPD : Two times in a week i.e., is on Tuesday and Thursday.
OT : Three times in a week ie Monday, Wednesday, Friday & alternate Tuesdays
Laser OT : Once in a week
Minor OT : Everyday
Nasal Endoscopy - Saturday

Supportive Services to Different Departments including Department of Surgery, Oncology, Paediatric Surgery, Urology and Obst and Gynaecology.

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Memberships – Professional Bodies:
- Dr. Devi Prasad Mohapatra obtained Associate Membership for the American Society of Craniofacial Surgeons (ASCFS)
- Dr. Devi Prasad Mohapatra obtained membership of Indian Society for Facial Plastic Surgery (ISCFPS)

Dr. Friji. M.T.

- Life Member of Indian Society for Facial Plastic Surgery (ISCFPS)
SIGNIFICANT EVENTS IN THE DEPARTMENT

(a) Inauguration and functioning of LASER Unit with 4 lasers

- Nd YAG
- Co2 Laser
- IPL
- Diode

Range of diseases treated includes Excessive body hair, abnormal scars, cutaneous lesions and vascular disorder. More than 50 patients have been successfully treated in the 1st year.

(b) OT:

1. Regular Microvascular free tissue transfer started in the department including 15 free flaps for cancer reconstruction and traumatic limb reconstruction, replantation of amputated wrist, thumb and finger, Microvaricocelectomy for the management of infertility and A-V fistula creation for the management of chronic renal failure patients on regular dialysis.

2. Autologus Bone graft Cranioplasty for Craniofacial defects started in the department.

3. Hair transplantation procedures started in the department

4. Massive volume (8-10 Lts) liposuction for obesity started.

5. Elective OT days increased in number from 2 ½ days to 3 ½ days.

6. Craniofacial distraction procedures started for complex craniofacial defects.

7. Minor OT started in Minor OT Complex for minor surgical procedures twice a week.

8. Speech Therapist and Microvascular Technician joined the Department. Speech Therapist started Dysphagia assessment & Therapy for cancer patients apart from speech assessment therapy for cleft lip palate.
8.31 Preventive and Social Medicine

Director, Senior Professor & Department In-Charge
K S V K Subba Rao

Professors
Gautam Roy    KC Premarajan

Assistant Professors
Sonali Sarkar   Ganesh Kumar S   Sitanshu Sekhar Kar

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 includes medical and paramedical disciplines like laboratory sciences and medical records. Several hundreds of quality research publications and over 50 postgraduate dissertations have been completed. The Department has also completed several internationally funded research projects on Maternal Health by Ford Foundation and ‘Model Geriatric Care’ 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 facilitates family centered teaching, training and follow up health care services. The Department has put up a proposal for a full fledged JIPMER School of Public Health which has been cleared by the Institute Body.

EDUCATIONAL COURSES

Undergraduate

The Department continues with its undergraduate teaching programs which includes MBBS (till seven semesters) and BSc MLT (one semester). Concepts of Public Health, Preventive and Social Medicine is taught to the students with various 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, behavioral Science, Health Economics and Home economics. They visit Rural Health Centre to learn the importance of Primary Health Care. They are trained to plan, prepare and conduct Health Education for school students on various topics. In the third and fourth semester, students are taught on General Epidemiology, Nutrition and Demography and Biostatistics. In addition, during the third semester students are taken to visit places related to environmental health (VCRC, Water works, JIPMER & Ashram kitchen, Sewage treatment plant etc). In the same third semester students are given training for research methodology through Community Diagnosis posting. Under the Family Health Advisory Programme (FHAP), 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. 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 sixth and seventh semester, Public Health Administration concepts are dealt in detail. During Community Diagnosis posting at fifth 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.

Postgraduate

Total numbers of PGs are 11. PG academic activities carried out in the department are Seminars, Journal club and PG lectures and exercises. Faculty take sessions for PG students every week to clarify the important concepts in Epidemiology, Public Health Management, Sociology and Epidemiological Software etc. As a part of the PG training, Residents are posted in departments like Pediatrics, Obstetrics & Gynecology, and Microbiology to improve their skills. Residents are also posted in Urban and Rural health centers to understand, monitor and evaluate the structure and functions of these centers.

Postgraduate Diploma in Public Health Management (PGDPHM)

Twelve candidates for PGDPHM course was sponsored by Tamil Nadu, Kerala and Pondicherry State Government for the year 2010 – 11. The PGDPHM course is an initiative undertaken by NRHM to build the Public Health Management capacity of the medical officers working in state government. The course duration is one year, divided into three terms with a field project work in their respective states. Medical officers are oriented to Basic Epidemiology and Biostatistics principles, concepts of Health Management and Health system & Behavioral sciences through lectures, group discussions, workshops and tutorials. They also participate in the postgraduate discussion in seminars and journal clubs. External faculty from Puducherry and Tamil Nadu working in Health sector/ National Health Programs are invited for experience sharing. The project works conducted by the candidates are presented in the Annual National IAPSM conference.

CONTINUING MEDICAL EDUCATION PROGRAMS

Dr. Gautam Roy

1. Dr. Gautam Roy, delivered a Guest Lecture on Prevention of HIV on the occasion of World AIDS Day (01.12.10) conducted by the Mother Teresa Institute, Puducherry.

2. Dr. Gautam Roy, delivered a Guest Lecture in February 2011, on “Behavior Change Communication” for Medical Officers on training of HIV at Vector Control Research Center, Puducherry.

3. Dr. Gautam Roy acted as the Resource Person in the Refresher Course for skill augmentation of field staff of UHC and RHC on 20th and 21st November 2010.

4. Dr. Gautam Roy acted as the Resource Person in the “Short Course on Basic Epidemiology” conducted by the department of PSM from 7th to 12th March 2011.

JIPMER 2010-2011 / 359
Dr. K.C. Premarajan

1. Dr. KC Premarajan acted as the Resource Person in the Refresher Course for skill augmentation of field staff of UHC and RHC on 20th and 21st November 2010.

2. Dr. KC Premarajan acted as the Resource Person in the “Short Course on Basic Epidemiology” conducted by the department of PSM from 7th to 12th March 2011.

Dr. Sonali Sarkar

1. Dr. Sonali Sarkar delivered a lecture on “Epidemiology of Tuberculosis” on the CME conducted by Dept of Microbiology, JIPMER, on the occasion of world TB day on 24.03.11.

2. Dr. Sonali Sarkar acted as the Resource Person in the Refresher Course for skill augmentation of field staff of UHC and RHC on 20th and 21st November 2010.

3. Dr. Sonali Sarkar acted as the Resource Person in the “Short Course on Basic Epidemiology” conducted by the department of PSM from 7th to 12th March 2011.

Dr. Ganesh Kumar S

1. Dr. Ganesh Kumar S participated in the 62nd National Course on Educational Science for Health Professionals held at JIPMER, Puducherry from 09th February to 19th February 2011.

2. Dr. Ganesh Kumar S acted as the Resource Person in the Refresher Course for skill augmentation of field staff of UHC and RHC on 20th and 21st November 2010.

3. Dr. Ganesh Kumar S acted as the Resource Person in the “Short Course on Basic Epidemiology” conducted by the department of PSM from 7th to 12th March 2011.

4. Dr. Ganesh Kumar S attended the CME conducted by Dept of Microbiology, JIPMER, on the occasion of World TB day on 24.03.11.

Dr. Sitanshu Sekhar Kar

1. Dr. Sitanshu Sekhar Kar participated in the 62nd National Course on Educational Science for Health Professionals held at JIPMER, Puducherry from 09th February to 19th February 2011.

2. Dr. Sitanshu Sekhar Kar delivered a talk on “Influenza A H1N1: Things we need to know” at Integra Company on 14.10.10. About 500 employees attended the program.

3. Dr. Sitanshu Sekhar Kar, participated in training workshop for PHC medical Officers regarding Mass Drug Administration for Filariasis control conducted by DHFWS – NVBDCP Office, Pondicherry on 11.11.10 at VCRC, Pondicherry.

5. Dr Sitanshu Sekhar Kar, chaired a session on “Gender and Equity” at 38th Annual National IAPSM Conference held at Berhampur, Odisha on 23rd Feb 2011.

6. Dr Sitanshu Sekhar Kar delivered a talk on “Repositioning of IUD in Gujarat: The Model Works!” at the dissemination meeting conducted by Population Council, New Delhi, at Lucknow on 25.02.11.

7. Dr Sitanshu Sekhar Kar Participated in CME conducted by Dept of Microbiology, JIPMER, on the occasion of World TB day on 24.03.11.

8. Dr Sitanshu Sekhar Kar acted as the Resource Person in the Refresher Course for skill augmentation of field staff of UHC and RHC on 20th and 21st November 2010.

9. Dr Sitanshu Sekhar Kar acted as the Resource Person in the “Short Course on Basic Epidemiology” conducted by the department of PSM from 7th to 12th March 2011.

NATIONAL AND INTERNATIONAL CONFERENCES

- Dr. Sonali Sarkar attended and presented a scientific paper on “Maternal health scenario” in Odisha at 38th National Conference of IAPSM at Berhampur, Orissa from 22.02.11 to 24.02.11.
- Dr Ganesh Kumar S attended “International Conference on Health System Strengthening” held at Mamallapuram, Tamil Nadu, India, 6th–10th May 2010.
- Dr Ganesh Kumar S attended and presented a scientific paper on “Contraceptive use among women in reproductive age in UHC service area, JIPMER” at 55th National Conference of IPHA at Belgaum, Karnataka from 28.01.11 to 30.01.11
- Dr Sitanshu Sekhar Kar attended “International Conference on Health System Strengthening” held at Mamallapuram, Tamil Nadu, India, 6th -10th May 2010.
- Dr. Sitanshu Sekhar Kar attended and presented a scientific paper on “Child health scenario in Odisha” at 38th National Conference of IAPSM at Berhampur, Orissa from 22.02.11 to 24.02.11.

RESEARCH PROJECTS

Ongoing

1. JIPMER consented to be a part of Maternal, Newborn, Child Health and Nutrition (MNCHN) Research Priority Setting in India: An ICMR-INCLEN joint initiative. Department of PSM, Pediatrics and Obstetrics and Gynecology will take part in this initiative. From department of PSM, Dr Gautam Roy and Dr Sitanshu Sekhar Kar will coordinate and be involved in this activity.

2. Trend of permanent sterilizations in women after implementation of family planning insurance scheme (Investigator- Dr Sonali Sarkar, approved by JSAC & Institute Ethics Committee)
3. Prevalence of depression and its associated factors using Beck’s Depression Inventory among undergraduate medical students of JIPMER, Puducherry (Investigator- Dr Ganesh Kumar S, approved by JSAC & Institute Ethics Committee)

4. Contraceptive prevalence rate and factors associated with unmet need for family planning among currently married women of reproductive age group in Puducherry (Investigator- Dr Ganesh Kumar S, approved by JSAC & Institute Ethics Committee)

5. Prevalence of injuries among rural and urban population of Puducherry (Investigator- Dr Sitanshu Sekhar Kar, approved by JSAC & Institute Ethics Committee)


7. Quality of life in cervical cancer patients on follow up care in the regional cancer center in JIPMER. Saishree Pradhan, Dr Sonali Sarkar (Guide). Approved by ICMR Short Term Studentship proposal

8. Prevalence of occupational injuries and its associated factors among welders in Puducherry. A Dharanipriya, Dr Ganesh Kumar S (Guide). Approved by ICMR Short Term Studentship proposal


Following Postgraduate thesis works are guided by the faculty.

<table>
<thead>
<tr>
<th>S. No</th>
<th>Name of the Resident</th>
<th>Thesis Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr. Ghorpade Arun Gangadhar</td>
<td>Incidence of Diabetics Mellitus in Rural, Pondicherry.</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Dhruv K Pandey</td>
<td>Services Evaluation of Day time and 24 hour Primary Health Centres of Pondicherry and Tamil Nadu.</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Punithakumary, P</td>
<td>Magnitude and Determinants of attempted suicide in Pondicherry and Tamil Nadu.</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. Suguna, E</td>
<td>Prevalence and determinants of hearing impairment among school children aged 5 – 14 years in Pondicherry.</td>
</tr>
<tr>
<td>5.</td>
<td>Dr. Sahana, C. M.</td>
<td>Prevalence of cardiovascular morbidities and Risk factors among adults &gt; 30 years of age in Rural area of Pondicherry.</td>
</tr>
<tr>
<td>6.</td>
<td>Dr. Hemalatha, K</td>
<td>Parental stress, copying, social support and nutritional status among mentally retarded children.</td>
</tr>
</tbody>
</table>
## PGDPHM Research Project Works

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Name</th>
<th>Title of Project work</th>
<th>Name of Guides and co-guides</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dr. S. R. Ganesh</td>
<td>Formation and Decision making process in village water and Sanitation Committee</td>
<td>Dr. Ganesh Kumar S, Dr. Sonali Sarkar, Dr. Sitanshu Sekhar Kar</td>
</tr>
<tr>
<td>2</td>
<td>Dr. A. Anbarasi</td>
<td>Profile of HIV Positive Mothers and their Children in a Rural Area in Villupuram District of Tamilnadu</td>
<td>Dr. Gautam Roy, Dr. Sonali Sarkar</td>
</tr>
<tr>
<td>3</td>
<td>Dr. R. Aarthi</td>
<td>Prevalence of Cataract among adults above 50 years in Rural Community of Villupuram, Tamilnadu</td>
<td>Dr. Gautam Roy, Dr. Sitanshu Sekhar Kar, Dr. Renuka Srinivasan</td>
</tr>
<tr>
<td>4</td>
<td>Dr. A. Thamizharasi</td>
<td>Reasons for Default in Tuberculosis Treatment</td>
<td>Dr. KC Premarajan, Dr. Sonali Sarkar</td>
</tr>
<tr>
<td>5</td>
<td>Dr. R. Anil Das</td>
<td>Morbidity and functional limitations among geriatric population in Vellarada area of Trivandrum, Kerala</td>
<td>Dr. Gautam Roy, Dr. Ganesh Kumar S</td>
</tr>
<tr>
<td>6</td>
<td>Dr. V. Vinod</td>
<td>Perceptions of Doctors regarding their Working conditions in Primary Health Centre's in Malappuram District of Kerala</td>
<td>Dr. Ganesh Kumar S, Dr. Sonali Sarkar, Dr. Sitanshu Sekhar Kar</td>
</tr>
<tr>
<td>7</td>
<td>Dr. Jinu Annie Jose</td>
<td>Utilization of Maternal Health Care Services by Tribal Women in Wayanad, Kerala</td>
<td>Dr. Sonali Sarkar, Dr. Ganesh Kumar S, Dr. Sitanshu Sekhar Kar</td>
</tr>
<tr>
<td>8</td>
<td>Dr. T. Mini</td>
<td>Prevalence of Dental Caries among 12 year old rural school going children</td>
<td>Dr. Gautam Roy, Dr. Sitanshu Sekhar Kar</td>
</tr>
<tr>
<td>9</td>
<td>Dr. A. Mridulal</td>
<td>Performance Assessment of Junior Public Health Nurses on Maternal &amp; Child Health Services at Rural Sub-Centres, Malappuram Dt., Kerala</td>
<td>Dr. KC Premarajan, Dr. Ganesh Kumar S</td>
</tr>
<tr>
<td>10</td>
<td>Dr. Deepa V.K.</td>
<td>Use and pattern of personal protection measures Against Mosquitoes at Anappara (Rural) and Kulathoor (Urban) Wards in Trivandrum District of Kerala</td>
<td>Dr. KC Premarajan, Dr. Sitanshu Sekhar Kar</td>
</tr>
<tr>
<td>11</td>
<td>Dr. [Major] K. Sivagnanam</td>
<td>Socio-cultural factors affecting non scalpel vasectomy at Sathyavijayanagaram service area, Thiruvannamallai district, Tamil Nadu</td>
<td>Dr. Sonali Sarkar, Dr. Ganesh Kumar S, Dr. Sitanshu Sekhar Kar</td>
</tr>
<tr>
<td>12</td>
<td>Dr. S Kumar</td>
<td>Iron Folic Acid intake among pregnant women in PHC Anumanthai of Villupuram, Tamil Nadu</td>
<td>Dr. Sitanshu Sekhar Kar, Dr. Sonali Sarkar, Dr. Ganesh Kumar S</td>
</tr>
</tbody>
</table>
PUBLICATIONS

A. Journals


B. Chapters in Books


**PATIENT CARE**

**FIELD PRACTICE AREAS OF DEPARTMENT OF P&SM**

Jawaharlal Institute Urban Health Centre, the field practice area and training cum demonstration centre in Community Health of the Department of Preventive and Social Medicine was established as an extension unit of JIPMER in May 1959. It has been functioning in Kurusukuppam, Vazhaikulam and Chinnaiyapuram areas of Puducherry, in the existing building since 1964. The service was extended to Vaithikuppam since 1983. The MBBS students are allotted families in urban areas as a part of the Family Health Advisory Programme.

Jawaharlal Institute Rural Health Centre, Ramanathapuram is the field practice area and training cum demonstration centre in Community Health for the Department of P&SM, JIPMER. It has been functioning since 1966 and provides comprehensive health care for the population, 24 x 7 and residential training for interns in Community Medicine. These centers provide teaching and training opportunity for MBBS and Nursing students.

**Patient care details for April 2010 to March 2011**

<table>
<thead>
<tr>
<th>S.No</th>
<th>Service</th>
<th>JIRHC</th>
<th>JIUHC</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>No of Service area</td>
<td>4</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>2</td>
<td>Population</td>
<td>9200</td>
<td>8630</td>
<td>17830</td>
</tr>
<tr>
<td>3</td>
<td>OPD Attendance</td>
<td>19689</td>
<td>33372</td>
<td>53061</td>
</tr>
<tr>
<td></td>
<td>Average per month</td>
<td>656</td>
<td>1112</td>
<td>4422</td>
</tr>
<tr>
<td>4</td>
<td>Emergencies</td>
<td>4439</td>
<td>–</td>
<td>370</td>
</tr>
<tr>
<td></td>
<td>Average per month</td>
<td>370</td>
<td>–</td>
<td>370</td>
</tr>
<tr>
<td>5</td>
<td>Chronic Illness Clinic conducted</td>
<td>52</td>
<td>52</td>
<td>104</td>
</tr>
<tr>
<td></td>
<td>Patients attending clinic every month</td>
<td>243</td>
<td>315</td>
<td>558</td>
</tr>
<tr>
<td>6</td>
<td>TB Report</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>A. DOTS – Category 1</td>
<td>12</td>
<td>4</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>DOTS – Category 2</td>
<td>6</td>
<td>3</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>DOTS – Category 3</td>
<td>2</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>B. NON-DOTS</td>
<td>0</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>20</td>
<td>10</td>
<td>30</td>
</tr>
<tr>
<td>7</td>
<td>Antenatal Clinics Conducted</td>
<td>52</td>
<td>51</td>
<td>103</td>
</tr>
<tr>
<td></td>
<td>New ANC Registered</td>
<td>212</td>
<td>148</td>
<td>360</td>
</tr>
<tr>
<td>8</td>
<td>Under-five clinics Conducted</td>
<td>48</td>
<td>52</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>New Under-five children registered</td>
<td>157</td>
<td>139</td>
<td>296</td>
</tr>
</tbody>
</table>

JIPMER 2010-2011/365
<table>
<thead>
<tr>
<th>S.No</th>
<th>Service</th>
<th>JIRHC</th>
<th>JIUHC</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</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>154</td>
<td>112</td>
<td>266</td>
</tr>
<tr>
<td></td>
<td>TT 2 dose</td>
<td>96</td>
<td>108</td>
<td>204</td>
</tr>
<tr>
<td></td>
<td>B. Children</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>DPT +OPV 1 dose</td>
<td>137</td>
<td>96</td>
<td>233</td>
</tr>
<tr>
<td></td>
<td>DPT +OPV 2 dose</td>
<td>171</td>
<td>106</td>
<td>277</td>
</tr>
<tr>
<td></td>
<td>DPT +OPV 3 dose</td>
<td>147</td>
<td>122</td>
<td>269</td>
</tr>
<tr>
<td></td>
<td>DPT +OPV Booster</td>
<td>154</td>
<td>124</td>
<td>278</td>
</tr>
<tr>
<td></td>
<td>Hepatitis B 1 dose</td>
<td>140</td>
<td>96</td>
<td>236</td>
</tr>
<tr>
<td></td>
<td>Hepatitis B 2 dose</td>
<td>137</td>
<td>106</td>
<td>243</td>
</tr>
<tr>
<td></td>
<td>Hepatitis B 3 dose</td>
<td>147</td>
<td>122</td>
<td>269</td>
</tr>
<tr>
<td></td>
<td>Measles</td>
<td>165</td>
<td>119</td>
<td>284</td>
</tr>
<tr>
<td></td>
<td>MMR</td>
<td>155</td>
<td>122</td>
<td>277</td>
</tr>
<tr>
<td></td>
<td>C. School Children</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>DT at 5 yrs</td>
<td>131</td>
<td>13</td>
<td>144</td>
</tr>
<tr>
<td></td>
<td>TT at 10 yrs</td>
<td>160</td>
<td>36</td>
<td>196</td>
</tr>
<tr>
<td></td>
<td>TT at 16 yrs</td>
<td>112</td>
<td>56</td>
<td>168</td>
</tr>
</tbody>
</table>

Laboratory services include basic investigations like hemoglobin estimation, blood sugar, urine examination and pregnancy tests. A total of 5624 investigations were done in both the centres during the period of April 2010 to March 2011.

Special activities conducted in the centres include Intensified Pulse Polio Immunization, MDA program for Filariasis, World Tuberculosis day, World Breastfeeding week and Malaria awareness month. The field staff attended Immunization Training, Health information management system training and Integrated Disease Surveillance Project Training conducted by NRHM, Puducherry.

**AWARDS, HONOURS AND SIGNIFICANT EVENTS**

- Dr Gautam Roy, Professor has been nominated as Reviewer in Medical Teacher, Journal of Association of Physicians of India and Indian Journal of Community Medicine
- Dr K C Premarajan, Professor, has been nominated as Statistical Reviewer in Indian Journal of Dermatology, Venereology and Leprology
- Dr Sonali Sarkar, Assistant professor, has been nominated as reviewer in Indian Journal of Public Health and Journal of Pharmacology and Pharmacotherapeutics.
- Dr Ganesh Kumar, Assistant Professor, has been nominated as reviewer in Indian Journal of Pediatrics, Journal of Epidemiology and Public Health and Indian Journal of Medical Science.
• Dr Sitanshu Sekhar Kar, Assistant Professor, has been nominated as reviewer in Indian Journal of Public Health and Journal of Pharmacology and Pharmacotherapeutics

• Dr Sitanshu Sekhar Kar, Assistant Professor, has been nominated as Executive Member of the Governing council of IAPSM to represent South Zone for the year 2011-12.

ADMINISTRATIVE, EDUCATIONAL, RESEARCH and OTHER ASSIGNMENTS

Dr. Gautam Roy
1. Member of Core Committee for Intern’s orientation program.
2. Member of core committee for Intern’s orientation program.
3. Member of Hospital Nutrition Committee.
4. Member of House Allotment Committee.
5. Member of task force for implementation of RNTCP for Medical officers.
7. MCI inspector for 10 educational institutions.
8. External examiner for UG and PG to Orissa, RGUHS Karnataka, MGR University.

Dr. KC Premarajan
2. Assessor for Medical Council of India for 2 medical colleges.
3. Faculty In Charge of undergraduate teaching programs of the department of PSM and Rural Health Center, Ramanathapuram.
6. External examiner of MBBS at Ramachandra University, Porur, Chennai.
7. National consultant of ICDS project.
8. Internal examiner of MD and MBBS at JIPMER.

Dr. Sonali Sarkar
1. In charge of Postgraduate studies
2. Dr Sonali Sarkar has been enrolled as the life member of the International Epidemiological Association

JIPMER 2010-2011 / 367
3. Dr Sonali Sarkar has been actively engaged in UG, PG and PGDPHM teaching activities
4. Assisted in smooth functioning of RHC activities
5. Monitored the ICDS activities in Union Territory of Puducherry

**Dr Ganesh Kumar S**
1. Coordinator of ICDS project activities.
2. In charge of PGDPHM course.
3. National Consultant of ICDS project.
4. Enrolled as a life member of Indian Journal of Public Health
5. External evaluator for Undergraduate MBBS course in Pondicherry University
6. Actively engaged in PG and PGDPHM teaching.
7. Assisted in smooth functioning of RHC activities

**Dr Sitanshu Sekhar Kar**
1. Influenza A H1N1 Nodal Officer and Member of the Influenza A H1N1 coordination committee at JIPMER, Puducherry for the year 2010-11.
2. In charge of Integrated Disease Surveillance Project activities and the department of PSM acts as the nodal department for IDSP activities.
3. Actively engaged in UG (MBBS, BSc MLT), PG and PGDPHM teaching and assisted in planning and implementation of Community Diagnosis postings
4. Enrolled as the life member of the International Epidemiological Association
5. Monitored the ICDS activities in Union Territory of Puducherry
6. Assisted in smooth functioning of UHC activities

**SIGNIFICANT EVENTS IN THE DEPARTMENT**
1. Refresher Course was conducted for skill augmentation of RHC and UHC staff on 20.11.11 and 21.11.2011. The course objectives were to augment the skills required for field based health care services, to strengthen the services in implementation of national health programs, to identify the strategies for better community participation and to prepare an action plan to strengthen the services at these centers.
2. Short Course On Basic Epidemiology: First Short course on Basic Epidemiology was conducted by Dept of PSM, JIPMER, from 07.03.11 to 12.03.11. The objectives of the course were to learn the basic principles in epidemiology and apply the same in planning and conducting research, understand and interpret the results of screening tests and their importance in clinical practice, respond appropriately to a situation of outbreak or epidemic of any disease, get sensitized to the use of statistical software programs.
like SPSS and OpenEpi. The course consisted of 15 sessions over 5&1/2 days (30 hours of interaction). The sessions consisted of Lectures of 45 minutes duration in which the main ideas and methods were summarized followed by a practical session with discussions in groups on related exercises for 1 hour. A total of 31 participants (faculty) attended this course from various medical colleges of Puducherry. Dr Gautam Roy, Dr K C Premarajan, Dr Sonali Sarkar, Dr Ganesh Kumar S, and Dr Sitanshu Sekhar Kar, from department of PSM, JIPMER, acted as resource persons for this course. Dr K C Premarajan was the course coordinator for this short course.

3. 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.

4. Multispecialty health camp conducted at Ginjee on 14.10.10. 600 patients attended the camp and basic investigations done wherever required. 3rd semester UG students also attended the camp.

5. Department of PSM acted as the nodal department for Influenza AH1N1 surveillance activities. The roles were to notify and assist in investigation of any H1N1 positive cases to DDPH office of Puducherry and Tamil Nadu respectively.

6. Department has carried out detailed outbreak investigation of Cholera at four places (Alankuppam, Keezhkoothappakka, Thantanchavady and Kollar) and follow-up actions were initiated in liaison with the local health authorities of the respective places.

7. The Anti-Malaria month was observed in Urban Health Center on 16th June 2010. Health Education Session was presented by interns on awareness of vector borne diseases.

8. Three Health Camps were organized by the Department as a part of Community Diagnosis posting for students learning of organization and planning of health camp, in collaboration with Departments of Medicine, Surgery, Orthopedics, Physiotherapy, Cardiology, Ophthalmology, ENT, Obstetrics and Gynecology, Psychiatry, Dermatology, Pediatrics, Biochemistry and Dentistry. Health education was given in the camps by the Undergraduates. Department of PSM participated in WHO National Polio Surveillance Project activities at Pondicherry.
BACKGROUND INFORMATION OF THE DEPARTMENT

The Department of Psychiatry in JIPMER was started in 1962. It is involved in clinical care, training and research activities. Professor N.C. Surya, the first Head of the Department, conducted the first epidemiologic study of mental health in India in the year 1964. The Department has played a key role in drafting of the model undergraduate curriculum for psychiatry in India. Along with regular clinical services, the Department has set up various specialty clinics. Apart from the general hospital psychiatry unit, it participates in community mental health care activities. This Department has been designated as one of the six Regional Centers for drug and alcohol deaddiction in India. The ‘Child guidance clinic’ is run in collaboration with Department of Pediatrics, and is one of the few such initiatives in the country for attending to the mental health needs of children aged 12 years and below. The Department has conducted pioneering research in the field of mental health.

Important milestones in the Department

1962 - Inauguration of mental health clinic
1962 - Introduction of Electroconvulsive Therapy (ECT)
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
2001-2004 - Projects on attempted suicide
2002-2006 - Part of World health Organisation (WHO) study on prevalence of common mental disorders.
2005 - Participation in Tsunami rehabilitation work
2010 - Increase in M.D. (Psychiatry) seats to 2 candidates per year

JIPMER 2010-2011 / 370
EDUCATIONAL COURSES

A. Undergraduate Courses

The undergraduate teaching in psychiatry for MBBS students includes theoretical knowledge through lectures on various aspects of psychiatry, and clinical training in the department for 15 days of clinical postings in the psychiatry ward and OPD during the VI semester. They are taught skills in the assessment and management of psychiatric disorders which include the ability to diagnose common psychiatric conditions, making a differential diagnosis, managing psychiatric disorders and emergencies, and common psychological tests and psychological interventions. Every year, two MBBS students are selected (on the basis of a qualifying test) by the Department for participation in the undergraduate quiz programme organized by the Indian Psychiatric Society. Weekly quiz questions are posted for students in the Department (Quiz Corner) as a teaching activity, which is an innovative approach in education. Feedback is regularly taken from the students. There is a Prize Medal psychiatric test for MBBS students held every year at JIPMER. This year it was held in November 2010. The Department also imparts training in psychiatry to B.Sc Nursing students over one semester, which includes clinical as well as theory classes. The Department also conducts training on psychiatric terminology and classification to trainees in Medical Record Officer courses at this Institute. From this year onwards, the Department is also taking part in modular teaching for students of the Diploma in Emergency Medical Technology (EMT) of JIPMER.

B. Postgraduate Courses

The Department has four postgraduate students pursuing MD courses currently. The intake of one postgraduate per year for MD in Psychiatry has been increased to two candidates from this academic year onwards. Regular academic programs including case conferences, journal clubs, seminars and faculty presentations are conducted for the postgraduate students.

C. Other Courses

Four students of M.Sc. Applied Psychology from Pondicherry University, Puducherry, underwent training in this Department for one month. Three students of Pondicherry University underwent two months training and did their project work in the Department after completing their M.Sc course in Applied Psychology.

Two students from the Department of Social Work, Pondicherry University underwent field work and clinical training in this Department for two months.

CONTINUING MEDICAL EDUCATION PROGRAMMS

CME Programmes organized by the Department

1. A 2-day CME Programme entitled “Update on Sexual medicine” was organized by the Department of Psychiatry on 26th and 27th November 2010, with an eminent speaker on the topic Prof. TSS Rao, Professor and Head, Department of Psychiatry, J.S.S. Medical College, Mysore, and Editor-In-Chief, Indian Journal of Psychiatry.
2. A 2-day CME Programme on “Crisis Intervention” was organized by the Department of Psychiatry on 20th and 21st December 2010 by eminent psychologist Prof KB Kumar, Professor of Clinical Psychology, SWEEKAR Rehabilitation Academy, Hyderabad, and Member, Rehabilitation Council of India (RCI).

**Dr. M.K. Srivastava**

- Attended the “Teaching course in cognitive neurology” organized by the World Federation of Neurology Research Group on Aphasia and Cognitive disorder(WFNRGAD) & Alzheimer’s and related disorder Society of India, Deccan chapter, from 13 to 14 December 2010 at Nizam’s Institute of Medical sciences, Hyderabad.

**Dr. Shivanand Kattimani**

- Presented a lecture on ‘sildenafil and beyond’ at the interdepartmental CME on sexual medicine, on 27th Nov 2010, JIPMER, Puducherry, India
- Underwent the teacher training program for medical health professionals conducted by the National Teachers Training Centre (NTTC), from 15-25th September 2010, Puducherry, India
- Attended a workshop, “Short course on basic epidemiology” from 7th to 12th March 2011 conducted at JIPMER, Puducherry, India.

**Dr. Ravi Philip Rajkumar**

- Delivered a guest lecture on “Clinical drug trials in psychiatry” for residents and students of the Department of Pharmacology, JIPMER on 12th October 2010.
- Conducted a discussion on “Psychosocial issues in infertility” for faculty and residents of JIPMER as part of the interdepartmental CME on Sexual Medicine on 27th November 2010.
- Made a presentation on “Serious adverse drug reactions” as part of a 2-day Workshop on Pharmacovigilance organized by the Department of Pharmacology, JIPMER on 22nd February 2011.
- Made a presentation on “The neuropsychiatry of HIV infection and AIDS” as part of the CME on “Issues in HIV” organized by the Department of Microbiology, JIPMER AIDS Cell, and Pondicherry AIDS Control Society on 7th March 2011.
- Gave a talk on “The impact of pharmacovigilance on clinical practice” as part of the CME Programme on Pharmacovigilance organized by the Department of Pharmacology, JIPMER, on 30/3/2011.

**CONFERENCES**

**Dr. M.K. Srivastava**

- Attended the 6th National conference on geriatric mental health, GERON 2010 held from 4-5th September 2010 at Mumbai.
- Attended the Annual National conference of Indian Psychiatric Society (ANCIPS-2011) held from 16th to 19th January 2011 at New Delhi.

JIPMER 2010-2011 / 372
Dr. Shivanand Kattimani

- Attended the National conference of Indian Association for Social Psychiatry (NCIASP), held from 19th to 21st November 2010 at Cochin,
- Attended the National symposium on research methodology held on 25th September 2010, organized by SMVMCH, at Puducherry, India.
- Attended Annual National Conference of Indian Psychiatric Society (ANCIPS), held on 16th to 19th January 2011 at New Delhi.
- Delivered a talk during the symposium on maternal mental health, at the National Conference of Indian Association for Social Psychiatry (NCIASP), held from 19th to 21st November 2010, at Cochin, on “Clasification of postportum mental health disorders”.
- Presented a scientific poster on ‘Narcotherapy for psychological aphonia: case series’, at the Annual National Conference of Indian Psychiatric Society (ANCIPS) held on 16th to 19th January 2011 at New Delhi.

RESEARCH PROJECTS

A. Departmental projects

*Completed*

1. A hospital based case-control study of total plasma homocysteine level estimation in depression and schizophrenia

*Ongoing*

1. Comparative study of components of metabolic Syndrome in drug-naïve persons with schizophrenia and their first-degree relatives
2. “Control study of impulsivity in children of persons with alcohol dependence”
3. Predictors of suicide – comparison between Puducherry and Tamil Nadu and estimation of suicide prevalence
4. Short-term follow-up study of children with ADHD

PUBLICATIONS

A. Journals

PATIENT CARE SERVICES

A. Clinical

The main aim of this Department is to provide mental health care of highest standard using a multi-disciplinary approach. The department of psychiatry uses a bio-psycho-social approach in the evaluation and management of psychiatric illnesses. The clinical psychologists, psychiatric social workers, psychiatric nurses and occupational therapist form an integral part of the multidisciplinary team. Equal importance is given to both pharmacological and psychosocial interventions. Behaviour therapy, cognitive therapy, couples therapy, family therapy, group therapy, yoga therapy, occupational therapy and counseling are also offered. They are combined with biological methods including pharmacotherapy and ECT for maximum benefit to patients. Families with children suffering from chronic illnesses, alcohol dependent patients and families with an AIDS affected member are specially targeted for family therapy intervention. The Department provides round the clock 24 hours psychiatry emergency services and consultation-liaison services besides regular clinical care to patients.

Special clinics are run for schizophrenia, affective disorders and neuropsychiatry. The child guidance clinic runs in collaboration with the Department of Pediatrics and focuses on developmental and behavioral problems in children and adolescents. Crisis intervention services in the form of the Crisis Intervention Clinic is available specially for suicide prevention, including supportive counseling for those who attempted suicide and survived with medical interventions. 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 Puducherry.

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 alcohol and substance abuse disorders. It offers extension services in rural areas through orientation training program for medical and paramedical professionals and through participation in community health camps. An elaborate database is maintained to facilitate research in this area.

Creation of awareness regarding mental health issues among public is one of the priority areas of this Department. Frequent talks are given by the faculty and staff of the Department in schools and through media like radio and newspaper. Psycho-education of patients and their relatives is taken by the residents at individual level. The Psychologist and social worker engage groups for the same. Patient education materials, information pamphlets, and audio-visuals are used for topics related to substance abuse in drug-deaddiction clinic. Brief pulse electroconvulsive therapy machine and psychological test materials for assessing intelligence and diagnostic psychometry are available in the Department.

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 to 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, run in collaboration with department of Pediatrics mainly caters to needs of academically poor performing, emotionally and behaviorally disturbed children. Marital and Psychosexual Disorders Clinic manages patients with sexual dysfunction and marital discord. The Memory Clinic assesses and treats patients with dementia and other neurocognitive disorders.

**Special clinic Days**

Monday       Marital and Psychosexual Clinic  
Tuesday      Affective Disorder Clinic  
Wednesday  Child Psychiatry forum  
           Memory Clinic  
Thursday Crisis Intervention Clinic  
           Child Guidance Clinic  
Friday  Schizophrenia (follow up) Clinic  
Saturday  Neuropsychiatric Clinic  
          Drug Deaddiction Clinic

Inpatient services include wards with a bed strength of 27 facility for occupation therapy and recreational activities. Special equipment available in the department is a Brief Pulse Electro Convulsive Therapy machine, with facility of Electro Convulsive Therapy under general anesthesia. Total number of patients that attended OPD during the period of report (one year)

A. General clinics

<table>
<thead>
<tr>
<th></th>
<th>New cases</th>
<th>Old cases</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>New cases:</td>
<td>5267</td>
<td>55308</td>
<td>60575</td>
</tr>
</tbody>
</table>

B. Special clinics

1. **Affective disorders clinic**

<table>
<thead>
<tr>
<th></th>
<th>New Cases</th>
<th>Old Cases</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Cases:</td>
<td>1243</td>
<td>18543</td>
<td>19786</td>
</tr>
</tbody>
</table>

2. **Schizophrenia clinic**

<table>
<thead>
<tr>
<th></th>
<th>New Cases</th>
<th>Old Cases</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Cases:</td>
<td>934</td>
<td>17192</td>
<td>18126</td>
</tr>
</tbody>
</table>

3. **Drug de-addiction clinic**

<table>
<thead>
<tr>
<th></th>
<th>New Cases</th>
<th>Old cases</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Cases:</td>
<td>558</td>
<td>1300</td>
<td>1858</td>
</tr>
</tbody>
</table>
4. **Crisis Intervention clinic**
   New Cases: 240
5. **Marital and psychosexual clinic**
   New Cases: 26
6. **Memory clinic (and neuropsychiatry clinic)**
   New Cases: 977
   Old cases: 11964
   Total: 12941

B. **Laboratory**
   The laboratory in the Department of Psychiatry carries out routine investigations including:
   - Hemoglobin (Hb%)
   - Total and differential WBC count (TC/DC)
   - Erythrocyte Sedimentation Rate (ESR)
   - Urine routine (albumin, sugar)
   - Stool examination

   Serum lithium analyzer is available for lithium estimation. Serum lithium estimation was done for 216 patients in the year 2010-11.

**AWARDS, HONORS AND OTHER PERSONAL ACHIEVEMENTS**

- Dr. Arun Kumar, Senior Resident, Department of Psychiatry stood first runner up at the national level competition 'Torrent Young Scholar Award (TYSA) in Psychiatry', conducted for psychiatry residents all over India by Torrent pharmaceutical company.

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

- Dr. M.K. Srivastava was invited to participate in the meeting of South Regional Consultation of Mental Health Act 1987 (Amendment- draft) held on 28th July 2010 at NIMHANS, Bangalore.
- Dr. M.K. Srivastava continued as Officer on special duty (OSD) of Institute Administration and Vice-chairman of JIPMER official Language implementation committee, and Officer Incharge Hindi Cell JIPMER, and Secretary. Town Official Language Implementation Committee Puducherry.
- Dr Shivanand Kattimani was appointed as member of the Alcohol Policy committee, State of Puducherry.
- Dr Ravi Philip Rajkumar was appointed as member of the Anti-Ragging committee, State of Puducherry.
SIGNIFICANT EVENTS IN THE DEPARTMENT

1. Inagural psychiatry quiz for undergraduates “PsyQuiz 2010” was conducted by the Department on 14th October 2010 to spread awareness about mental health disorders and interest towards psychiatry.

2. Collaborated with the College of Nursing, JIPMER to celebrate World Mental Health Day on 10th October 2010 by means of role play, elocution competition, quiz competition, essay-writing and poster-making competitions.

3. Visit made at Fraternal Life Services Home (FLSH) an NGO on 8th January 2011, which looks after the rehabilitation of mentally ill adults in Puducherry. Patients were examined and recommendations for treatment and follow-up were made for the inmates.

4. Education and awareness programme through media: Talk on depression for common public, through All India Radio, Puducherry, on 8th February 2011.

5. Marital and psychosexual disorder clinic started on 7th April 2010 to manage patients with sexual dysfunction and marital discord

6. Memory clinic started 7th April 2010 to manage patients with dementia and neurocognitive disorders.
8.33 Pulmonary Medicine

Professor & Head
S. Vinod Kumar

Assistant Professor
Manoj Kumar Panigrahi

BACKGROUND INFORMATION OF THE DEPARTMENT

Post-graduate Course (M.D. PULMONARY MEDICINE) was started in April 1994.

EDUCATIONAL COURSES

Undergraduate Courses

The Department continues with its undergraduate UG teaching programmes which include M.B.B.S. (VI and VII semesters).

Post graduate Courses

The Department continues with its postgraduate (M.D. Pulmonary Medicine) PG teaching programmes.

CONFERENCES

Dr. S. Vinod Kumar


Dr. Manoj Kumar Panigrahi

- Attended National Conference on Trends in Interventional Pulmonology (T I P) 2010 from 31st July 2010 to 1st August 2010 at Kovai Medical Centre and Hospital, Coimbatore.
- Attended STF (State Task Force) meeting on RNTCP at Puducherry on 27/08/2010.
- Presented a case of ‘Severe Community Acquired Pneumonia with sepsis/ MODS and emphasized the role of EGDT in management of Sepsis in Puducherry Chest Society Meet on 21/11/2010.
- Delivered a talk (Guest Lecture) on COPD on the eve of the World COPD Day at Mother Teresa Post Graduate Research Institute and Health Sciences, Puducherry on 19/11/2010.
PUBLICATIONS


PATIENT CARE SERVICES

A. Clinical:

1. OPD :
   - New Cases: 5856
   - Old Cases: 24172
   - TOTAL: 30028

2. Total Cases Referred to DOT Centres:
   - Pulmonary Tuberculosis: 413
   - Extra Pulmonary: 245
   - TOTAL: 658

1. Special Clinic: Respiratory Allergy and Immunotherapy Clinic (Friday 2 pm. to 4.30 pm.)
   - New Cases: 866
   - Old Cases: 4477
   - TOTAL: 5343

2. HIV / AIDS:
   - New Cases: 19
   - Old Cases: 5
   - TOTAL: 24

5. Bronchoscopy:
   - Fiberoptic Flexible Bronchoscope Performed: 181

6. Respiratory Physiotherapy: 2302

Laboratory:

- Pulmonary Function Test:
  - Spirometry Procedures: 389
  - Diffusion Capacity Estimation: 10
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 of the R.N.T.C.P. (Revised National Tuberculosis Programme) Core-committee, JIPMER, Puducherry.
4. DPC (Departmental Promotion Committee) member as SC/ST representative in JIPMER and in Census operation department, Puducherry, India.
5. Member in Vidyalaya Management committee for KV -1, JIPMER Campus.

Dr. Manoj Kumar Panigrahi

• Life member, Indian Society of Critical Care Medicine (ISCCM)
• Life member of Indian Chest Society (I.C.S.).
• Fellow American college of chest (FCCP), USA

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS:

Dr. S. Vinod Kumar

3. Visited Deccan College of Medical Sciences, Hyderabad on 24/01/2011 as MCI Inspector for starting of M.D. (Pulmonary Medicine) course.
4. Attended as Examiner (National Board of Examinations) for the practical examination in the subject of Respiratory Diseases in the L R S Institute of Tuberculosis, Delhi from 11th to 14th April 2011.
8.34 Radiodiagnosis

<table>
<thead>
<tr>
<th>Professor</th>
</tr>
</thead>
<tbody>
<tr>
<td>S. Elangovan</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Assistant Professor</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Ramesh</td>
</tr>
</tbody>
</table>

**BACKGROUND INFORMATION OF THE DEPARTMENT**

**Landmark events:**

- Robotic CT tool positioner (PIGA CT) was installed in the CT scan complex at Super Specialty Block and put to use. Complex CT guided interventional procedures like FNAC, biopsy and nerve blocks can be done easily with this tool.

- B.Sc. (Medical Imaging Technology) Para Medical Course was started during the year 2010–11. Four students are admitted every year and they will undergo both theoretical and practical training in the departments of Radiodiagnosis and Radiotherapy.

**EDUCATIONAL COURSES**

- Post Graduate Courses MD (Radiodiagnosis). Three MD candidates were admitted this year.

- Dr. Padhmini and Dr. Vijaya Karthikeyan appeared for M.D. and Dr. Jayachandra Nayaka for DMRD examination held in March 2011 with 100% pass result.

**CONFERENCES**

**Dr. S. Elangovan, Professor and Head participated:**

- As delegate in the 9th Congress of Asian Federation of societies for Ultrasound in Medicine and Biology held at New Delhi from 18–21, November, 2010

- As session chairperson in the 64th National Conference of IRIA held at New Delhi from 28th to 31st of Jan. 2011

- Presented an oral paper in the 64th National Conference of IRIA held at New Delhi from 28th to 31st of Jan. 2011, titled Assessment of clinical, radiological and historical response of bone tumors to neoadjuvant chemotherapy.

**Dr. A. Ramesh, Assistant Professor participated:**

- 5th Cardiac CT & MRI Training course during 28th & 29th of August, 2010 held at Bangalore organised by Radiology education foundation.

- The 63rd State Annual Conference of TN & PY Chapter of IRIA 2010 from 10-12th Dec, 2010 at Madurai organised by Meenakshi Medical Mission Hospital and G.H. Madurai.

- CME on Gynaecological Malignancies organised by RCC, JIPMER on 4th April, 2010.

JIPMER 2010-2011 / 381
RESEARCH PROJECTS

A. Departmental Projects

Completed Projects

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

Ongoing Projects

1. 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. Gopala Krishnan
   Co-Guide : Dr. S. Elangovan

2. 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. Syed Habeebullah
   Co-Guide : Dr. S. Elangovan
   Dr. Bhawana Ashok Badhae

3. Anatomical variation of splanchnic vasculature studies with 64 –row CT angiography in a south Indian population.
   Investigators:
   Dr. A. Ramesh
   Dr. S. Elangovan
   Dr. Harichandrakumar K.T.

4. Abdominal organ dimensions and volumes. A comparison of Ultrasound and CT measurements.
   Investigators
   Dr. A. Ramesh
   Dr. S. Elangovan
   Dr. Harichandrakumar K.T.
5. Characteristics of focal liver lesions by contrast enhanced Ultrasound in comparison to CECT - Dr. Sandeep B.S.

Guide : Dr. R. P. Swaminathan
Co-guide : Dr. S. Elangovan
          Dr. A. Ramesh
          Dr. Surendrakumar Varma

6. MRI evaluation of response of breast cancer to neoadjuvant chemotherapy/hormone therapy – Diffusion weighted imaging in comparison with dynamic CEMR – Dr. Santhosh

Guide : Dr. D. Kadambari
Co-guide : Dr. S. Elangovan
          Dr. A. Ramesh
          Dr. Surendra Kumar Varma

7. Role of MR virtual cystoscopy in the diagnosis of carcinoma bladder – Dr. Pallavi. S

Guide : Dr. L. Durairajan
Co-guide : Dr. S. Elangovan
          Dr. A. Ramesh

C. Collaborative Projects

Completed

Dr. S. Elangovan is the co guide for the following extra departmental Research Projects.

1. Assessment of clinical radiological and histological response of bone tumours to neo adjuvant chemotherapy – Dr. Amit, Department of Orthopedics.

2. Effect of positioning from supine and left Lateral to 15 degree lateral on maternal blood flow velocities and waveforms in full term pregnant women – Dr. Jaya, Department of Anesthesiology.

3. 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.

Ongoing

1. Randomized controlled clinical trial comparing fluoroscopy versus flexible nephroscopy for confirming stone clearance in percutaneous nephrolithotomy. Dr. L. Durairajan, Professor of Urology

2. Role of intrapleural streptokinase in empyema in complicated parapneumonic effusion - Double blinded randomized controlled study. - Dr. Venugopal, Dept. of Pulmonary Medicine.

3. Study of effectiveness of letrazole as neoadjuvant hormonal therapy in postmenopausal estrogen receptor positive breast carcinomas. Dr. Sreelakshmi Dept. of surgery.

PUBLICATIONS


**PATIENT CARE SERVICES**

We cater diagnostic services like radiography, special radiological 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.

Statistics for the period from April 2010 to March 2011

<table>
<thead>
<tr>
<th>X-rays</th>
<th>1. Routine</th>
<th>60402</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2. Emergency</td>
<td>40648</td>
</tr>
<tr>
<td></td>
<td>3. M.L.C.</td>
<td>4289</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>105339</td>
</tr>
</tbody>
</table>

<p>| Spl. investigation | 1. IVP         | 565  |
|                   | 2. Barium studies | 678  |
|                   | 3. MCU          | 749  |
|                   | 4. RGU          | 117  |
|                   | 5. HSG          | 142  |
|                   | 6. Oral Contrast Studies | 65  |
|                   | 7. Loopogram    | 36   |
|                   | 8. Fistulogram  | 82   |
|                   | 9. Sinogram     | 78   |
|                   | 10. Venogram    | 10   |
| 11. DCG           |                 | 37   |
| 12. Miscellaneous (Cystogram, Cavitogram, percutaneous Nephrogram, Cholangiogram) | 65 |
| Total             |                 | 2124 |</p>
<table>
<thead>
<tr>
<th>Ultrasound</th>
<th>Routine</th>
<th>Gen. USG</th>
<th>17629</th>
<th>ANC</th>
<th>3763</th>
<th>Total</th>
<th>21392</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Emergency</td>
<td>Gen. USG</td>
<td>7178</td>
<td>ANC</td>
<td>1579</td>
<td>Total</td>
<td>8757</td>
</tr>
<tr>
<td>USG Guided</td>
<td>procedures</td>
<td>Routine</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Emergency</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1909</td>
</tr>
<tr>
<td>CT</td>
<td>Routine</td>
<td></td>
<td>7213</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Emergency</td>
<td></td>
<td>3512</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td></td>
<td>10725</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MRI</td>
<td></td>
<td></td>
<td>1094</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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 Indian Radiological and Imaging Association
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. MCI Inspector for various Medical Collages.

**Dr. A. Ramesh**

1. Member Indian Radiological and Imaging Association.
2. Nominated as member of Medical Board for conducting medical Examination for confirmation of age for sportsperson.
8.35 Radiotherapy

**Director RCC, Professor & HOD**
Dr. K.S. Reddy

**Professor**
Dr. S. Vivekanandam

**Assistant Professors**
Dr. V. Parthasarthy
Dr. Shyama Sudha Prem
Dr. Gunaseelan. K
Dr. Ashutosh Mukherji

**Lecturers in Radiology (Medical Physics)**
Mr. N. Vijayaprabhu
Ms. Sharika Venugopal Menon
Mr. K. Saravanan
Mr. 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 3500 cancer patients annually. Daily, more than 180-200 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 ICU, 20 special ward beds), outpatient facilities, day care centre, minor operation theatre etc. has been done. 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.

At Regional Cancer Centre, hi-tech therapy equipments like High-energy Linear Accelerator with IMRT/IGRT Treatment facility, new HDR Brachy Therapy, CT Simulator, Treatment Planning System etc. to accommodate the increase in load of cancer patients treated and to impart quality training program to PG students in Radiation therapy & Medical Physics are available.

JIPMER 2010-2011 / 386
EDUCATIONAL COURSES

Undergraduate

The department continues with its undergraduate and post graduates teaching programmes which includes M.D (Radiotherapy), Postgraduates from Dept. of Obstetrics & Gynecology, ENT, MBBS and B.Sc. Nursing. For Post graduates students interactive lectures, clinical bed side case discussions, demonstration on treatment planning and execution on cancer patients are conducted. Lectures also cover basic Medical physics and its clinical applications.

B.Sc. Radiation Technology course have commenced since 2010 and four students have joined. The main objective is to train and educate students in the field of radiation (Both Diagnostic and Therapeutic) in order to handle diagnostic equipments as well as treatment equipments in a more skill full manner.

The following are the training programmes conducted so far.

1. Basic teaching curriculum and practical classes have been planned and executed.
2. Lecture classes to cover basic radiation physics and basic clinical subjects
3. Practical classes in basic radiation physics

For B.Sc. Nursing interactive lectures, patient care training programs, practical training in drug administration and palliative training in oncology practice are 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.

Postgraduate

Two Postgraduate students have joined for MD Radiotherapy in April 2009 (First Batch). The second batch of two postgraduate students for MD Radiotherapy have joined on April 2010. At present the total seats has increased to four per year. So a total of 8 PG students have joined and following are the training programmes organized at regular intervals at our Department.

- Regular lecture classes and clinics in clinical subjects and Medical physics
- Seminars & Case discussions done twice weekly
- Bedside discussion and grand rounds weekly on every Monday
- Treatment planning decisions and discussions on every Thursday
- Hands on training for treatment planning done at monthly postings
- Compulsory peripheral postings to the allied subjects in relation to oncology were allotted at monthly basis
- Maintaining Log books and regular review of log books.
Short term training

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 Indira Gandhi Government Medical College, Puducherry for 1 month duration, featuring with interactive lectures, seminars and clinical bed side case discussions.

The department has also imparted short term training and guided in the Project works carried out by M.Sc. (Medical Physics) students from Anna University and Bharathiyar University for a period of one month.

CONTINUING MEDICAL EDUCATION PROGRAMS

The Department has conducted four CME till March 2011.


Dr. K.S. Reddy
- Moderated a session for the topic “Role of concurrent chemo-radiation in carcinoma cervix” at JIPMER CME on Gynecological Malignancies, April, Pondicherry, 2010.

Dr. S. Vivekanandam
- Moderated a session for the topic “Role of hormone therapy in breast cancer” at JIPMER CME on Early and Locally Advanced Breast Cancers, August, Pondicherry, 2010.

Dr. Gunaseelan. K
- Delivered an oral presentation on “Role of concurrent chemo-radiation in carcinoma cervix” at JIPMER CME on Gynecological Malignancies, Pondicherry, 2010.
- Delivered an oral presentation on “Concurrent Chemoradiation in Head and Neck Cancer” at Head and Neck Malignancies CME organized by JIPMER at Puducherry on 8th August, 2010.
Dr. Ashutosh Mukherji


Mr. Vijayaprabhu

- Delivered an oral presentation on topic “Advances in modern Radiotherapy” at JIPMER CME on Gynecological Malignancies, Pondicherry, 2010.

CONFERENCES

Dr. Gunaseelan. K


Dr. Ashuotsh Mukherji

- Jan’11: Lymphoma Update 2011, 8-9 Jan 2011, Cancer Institute, Adyar, Chennai.
- Nov’10: International conference on Clinical Practice Guidelines Oncology 2010, Sri Ramachandra University, 28th Nov Chennai

Dr. Shyama Prem


RESEARCH PROJECTS

Departmental Projects

Ongoing

- “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).
- “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, Radiodiagnosis, JIPMER).
- Mono-isocentric Technique in the Teletherapy Treatment of Post-Operative Carcinoma Breast.
- 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.

JIPMER 2010-2011 / 389
• Optimal source position for 2D – based HDR treatment planning of cancer of uterine cervix using ring applicator
• Role of Extra-Corporeal Irradiation for bone tumors (With the Department of Orthopedics, JIPMER).
• Role of surface mould Brachytherapy in the Treatment of Carcinoma Breast.

PUBLICATIONS

Journals
JIPMER Cancer Update (JCU) bulletin - Editor in Chief – K. S. Reddy


JIPMER 2010-2011 / 390


**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 – 8, Single bed special ward – 12 and Double bed special ward – 10.

Cancer statistics for the year 2010 -2011 is furnished below.

<table>
<thead>
<tr>
<th>Malignancy</th>
<th>Male</th>
<th>Female</th>
<th>Total</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Head and Neck</td>
<td>780</td>
<td>370</td>
<td>1150</td>
<td>36.40</td>
</tr>
<tr>
<td>Gynecologic</td>
<td>–</td>
<td>1125</td>
<td>1125</td>
<td>35.61</td>
</tr>
<tr>
<td>Breast</td>
<td>–</td>
<td>350</td>
<td>350</td>
<td>11.07</td>
</tr>
<tr>
<td>GIT</td>
<td>61</td>
<td>68</td>
<td>129</td>
<td>4.08</td>
</tr>
<tr>
<td>Thorax</td>
<td>39</td>
<td>19</td>
<td>58</td>
<td>1.83</td>
</tr>
<tr>
<td>Hematology</td>
<td>41</td>
<td>26</td>
<td>67</td>
<td>2.21</td>
</tr>
<tr>
<td>Urology</td>
<td>42</td>
<td>1</td>
<td>43</td>
<td>1.36</td>
</tr>
<tr>
<td>CNS</td>
<td>25</td>
<td>24</td>
<td>49</td>
<td>1.55</td>
</tr>
<tr>
<td>Thyroid</td>
<td>13</td>
<td>6</td>
<td>19</td>
<td>0.60</td>
</tr>
<tr>
<td>Unknown Primary</td>
<td>60</td>
<td>29</td>
<td>89</td>
<td>2.81</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>47</td>
<td>33</td>
<td>80</td>
<td>2.53</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>1108</td>
<td>2051</td>
<td>3159</td>
<td>100</td>
</tr>
</tbody>
</table>
RADIOTHERAPY TREATMENT STATISTICS FOR THE YEAR 2010 - 2011

High Energy Linear Accelerator (External Beam Radiation)

- Male: 2098
- Female: 18697
- Total: 20795

Cobalt Theratron – 780 C (External Beam Radiation)

- Male: 8507
- Female: 7893
- Total: 16400

High Dose Rate Brachytherapy (HDR) Ir. 192

- Male: 54
- Female: 2368
- Total: 2422

Special equipments available for patient care are

(i) 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.

(ii) Telecobalt Unit

  - Model: Theratron 780C

(iii) Brachytherapy Unit

  - Model: MicroSelectron HDR

(iv) Simulator

  - Model: Acuity iX

  - Features: Amorphous Silicon Technology, X-ray, Fluoroscopic modes, Carbon fibre table top

(iv) TPS

  - ASHA 3D TPS & Oncentra Brachy Planning System

Telemedicine

Department of Telemedicine has commenced since January 2011. This service is carried out in collaboration with Onconet which provides technical assistance as well as man power. This teleconference is networked with General Hospital (Yanam), Kidwai Memorial Institute of Oncology (Bangalore), General Hospital (Mandia), Arignar Anna General Hospital (Kanchipuram) and government hospital (Arakonam). Nearly 20 cases have been consulted with the networked hospitals which are mentioned above.
ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. K. S. Reddy

- Dean of JIPMER and Director of Regional Cancer Centre (RCC) JIPMER.
- Selected as a chairman of the following committees: the sub committee on Human ethics for Post-graduate Thesis / dissertation program; Animal ethics committee.
- Selected as vice-chairman for “Centre for Research and Academic Facilities and Training” (CRAFT) JIPMER, Pondicherry
- 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.
- 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.
- Editor in chief for JIPMER cancer update (JCU) bulletin and have released three bulletins on gynecological malignancies, breast cancer, head and neck cancer and a comprehensive booklet on “Principles of Nursing Care in Oncology Practice”
- Designated as guide for two Ph.D. Scholars. Topics are
  i. Mono-isocentric Technique in the Teletherapy Treatment of PostOperative Carcinoma Breast.
  ii. 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.
- Designated as guide for ongoing PG (MD) dissertations entitled
  1. Study of radiation induced DNA damage in patients with oral cavity cancer on radiotherapy using comet assay on peripheral blood lymphocytes.
  2. Dosimetric comparison of tandem and ovoid versus tandem and ring applicator for HDR brachytherapy of carcinoma cervix.
  3. Early cardiac changes due to doxorubicin based chemotherapy and radiotherapy in early stage and locally advanced carcinoma breast.
  4. Effect of source strength of Iridium HDR 192 Brachytherapy in carcinoma cervix association with local control and late rectal complications.
- Designated as Co-guide for PG (MD) dissertations entitled
  Influence of CYP2D6 genotype in the recurrence of breast cancer in patients receiving Tamoxifen as adjuvant therapy.

JIPMER 2010-2011 / 393
Dr. Vivekanandam. S

- Executive Editor for JIPMER CANCER UPDATE (JCU) bulletin and have released three bulletins on gynecological malignancies, breast cancer, head and neck cancer and a comprehensive booklet on “Principles of Nursing Care in Oncology Practice”
- Life member of Association of Radiation Oncology of India (AROI) and Association of Medical Physicist of India (AMPI).
- Selected as a member of the Drug purchase committee and editorial board of JIPMER CANCER UPDATE (JCU) bulletin.
- Designated as chief Superintendent of examination, JIPMER 2010.
- Designated as Co-guide for PG (MD) dissertations entitled
  a. Dosimetric comparison of tandem and ovoid versus tandem and ring applicator for HDR brachytherapy of carcinoma cervix.

Dr. V Parthasarthy

- Life member of Association of Radiation Oncology of India (AROI)
- Member of editorial board for JIPMER CANCER UPDATE (JCU) bulletin.
- 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

- Life member of Association of Radiation Oncology of India (AROI), life member of North Zone Association of Radiation Oncology of India (NZ-AROI)
- Associate Editor for JIPMER CANCER UPDATE (JCU) bulletin on gynecological malignancies, breast cancer, head and neck cancer and a comprehensive booklet on “Principles of Nursing Care in Oncology Practice”
- Organizing secretary for 2nd CME Regional Cancer Centre JIPMER held on 4th April 2010 on Gynecological malignancies and Nursing Care for Cancer patients.
- Part of organizing committee of 3rd CME Regional Cancer Centre JIPMER held on 8th August 2010 on Early and Locally Advanced Breast Cancers.
- Organizing secretary for 4th CME Regional Cancer Centre JIPMER held on 14th November 2010 on Head and Neck Malignancies.

Dr. Ashutosh Mukerji

- Life member of Association of Radiation Oncology of India (AROI), life member of North Zone Association of Radiation Oncology of India (NZ-AROI).
- Member of editorial board for JIPMER CANCER UPDATE (JCU) bulletin.
• Part of organizing committee of 2nd CME Regional Cancer Centre JIPMER held on 4th April 2010 on Gynecological malignancies and Nursing Care for Cancer patients as well as compering for and hosting of discussions for Gynecological CME.

• Designated as principal co-ordinator for palliative care in RCC, JIPMER.

• Designated as course co-ordinator for B.Sc Medical Radiation Technology course.

• Part of organizing committee of 3rd CME Regional Cancer Centre JIPMER held on 8th August 2010 on Early and Locally Advanced Breast Cancers.

• Part of organizing committee of 4th CME Regional Cancer Centre JIPMER held on 14th November 2010 on Head and Neck Malignancies.

Dr. Shyama Prem

• Part of organizing committee of 2nd CME Regional Cancer Centre JIPMER held on 4th April 2010 on Gynecological malignancies and Nursing Care for Cancer patients

• Part of organizing committee of 3rd CME Regional Cancer Centre JIPMER held on 8th August 2010 on Early and Locally Advanced Breast Cancers.

• Part of organizing committee of 4th CME Regional Cancer Centre JIPMER held on 14th November 2010 on Head and Neck Malignancies as well as for compering

Mr. Vijayaprabhu. N

• Life member of Association of Medical Physicist of India (AMPI)

• Member of editorial board for JIPMER CANCER UPDATE (JCU) bulletin.

• Was appointed as external supervisor to the viva-voce examination in June 2011 for the M.Sc. (Medical Physics) students of Anna University, Chennai.


• Part of organizing committee of 2nd CME Regional Cancer Centre JIPMER held on 4th April 2010 on Gynecological malignancies and Nursing Care for Cancer patients

• Part of organizing committee of 3rd CME Regional Cancer Centre JIPMER held on 8th August 2010 on Early and Locally Advanced Breast Cancers.

• Part of organizing committee of 4th CME Regional Cancer Centre JIPMER held on 14th November 2010 on Head and Neck Malignancies

Mr. Saravanan. K

• Life member of Association of Medical Physicist of India (AMPI)

• Member of editorial board for JIPMER CANCER UPDATE (JCU) bulletin.


JIPMER 2010-2011 / 395
Part of organizing committee of 2nd CME Regional Cancer Centre JIPMER held on 4th April 2010 on Gynecological malignancies and Nursing Care for Cancer patients

Part of organizing committee of 3rd CME Regional Cancer Centre JIPMER held on 8th August 2010 on Early and Locally Advanced Breast Cancers.

Part of organizing committee of 4th CME Regional Cancer Centre JIPMER held on 14th November 2010 on Head and Neck Malignancies

Ms. Sharika V. Menon

Guided final year student of M.Sc. (Medical Physics) of Bharathiar University, Coimbatore, for the project titled “Analysis Of The Effect Of Source Step Sizes On The Bladder And Rectum During Hdr Intracavitary Brachytherapy Of Carcinoma Cervix”.

Part of organizing committee of 2nd CME Regional Cancer Centre JIPMER held on 4th April 2010 on Gynecological malignancies and Nursing Care for Cancer patients

Part of organizing committee of 3rd CME Regional Cancer Centre JIPMER held on 8th August 2010 on Early and Locally Advanced Breast Cancers.

Part of organizing committee of 4th CME Regional Cancer Centre JIPMER held on 14th November 2010 on Head and Neck Malignancies

Mr. R. Seenisamy

Is a life member of Association of Medical Physicist of India (AMPI)

Guided final year student of M.Sc. (Medical Physics) of Anna University, Chennai, for the project titled “Comparison Of 2D- Versus 3D – Based Treatment Planning During Interstitial HDR Brachytherapy For Ca. Tongue”.

Part of organizing committee of 2nd CME Regional Cancer Centre JIPMER held on 4th April 2010 on Gynecological malignancies and Nursing Care for Cancer patients

Part of organizing committee of 3rd CME Regional Cancer Centre JIPMER held on 8th August 2010 on Early and Locally Advanced Breast Cancers.

Part of organizing committee of 4th CME Regional Cancer Centre JIPMER held on 14th November 2010 on Head and Neck Malignancies
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 members, 12 senior residents and 28 postgraduates. The Department has four units which provide out-patient services, elective and emergency surgical services and diagnostic services.

Patient care services include General Surgical OPD on six days of the week and a multidisciplinary cancer care and 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 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.

Bed strength: 4 general wards with a total of 154 beds including ICU beds.

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 and Operation Theatre Technology) 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 (PG) per year are admitted for the MS Course and the seats were increased to 13 from the year 2011-12. 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 1 year course to train Emergency Medical Services 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 EMT technicians.

CONTINUING MEDICAL EDUCATION PROGRAMS

Dr. K. Srinivasan

- Chaired a session in CME on Head and Neck Malignancies held on 14.11.2010 at RCC JIPMER.
- Chaired a session in CME on Complicated Urinary tract and Abdominal infections held on 05.12.2010.
- Chaired a session in CME on Breast Cancer held in August 2010 at RCC, JIPMER.

Dr. S Sarath Chandra

- Chaired a session during CME on Breast Cancer in August 2010 at RCC JIPMER.
- Chaired a session during CME on Head and Neck Malignancies held on 14.11.2010 at RCC JIPMER.

Dr. D. Kadambari

- Resource person for the CME on Breast Cancer in August 2010 at RCC JIPMER.
- Resource person in the NTTC national workshops held in Sept 2010 and Feb 2011.

Dr. G.S. Sreenath

- Delivered a Guest Lecture in Urological (Bladder) Cancer, CME on Genito urinary cancers, at RCC JIPMER.
- Attended the Basic Laparoscopic Training conducted by ETHICON, Chennai on 29.11.2010.
- Attended the National Teachers training course, JIPMER as participant from 18.09.2010 to 25.09.2010.

Dr. Muthukumarassamy

- Attended the National Teacher's training course held at JIPMER for medical faculty in educational science as participant from 18.09.2010 to 25.09.2010.
CONFERENCES

Dr. S. Jagdish

- Delivered a Lecture on Septic Diabetic Foot at the Annual Conference of the International College of Surgeons held at Puducherry in July 2010.
- Gave a lead talk on ‘Trauma and Public Health’ at the JIPMER Scientific society in October 2010.
- Gave a Guest lecture on “Diabetic Foot – General Surgical management “ at the Annual meeting of the Tiruchi Chapter of the Tamilnadu and Puducherry branch of the Association of Surgeons of India in February 2010.
- 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 Madurai in August 2010
- Attended the Hernia workshop conducted by the Hernia society of India at Bangalore in June 2010
- Presented 2 papers and chaired one scientific session in the Annual conference of the Tamilnadu and Pondicherry Chapter of Indian Association of Paediatric Surgeons at Mahabalipuram in July 2010.
- Attended the annual conference of The Tamilnadu and Pondicherry chapter of the Indian Association of Surgeons at Madurai in August 2010.

Dr. Vikram Kate

- Attended the CME -2010 as invited faculty 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. Delivered a lecture on “Enterocutaneous Fistula” and participated in Case Discussions.
- Attended the 11th Annual Conference of the Society of Gastrointestinal Endoscopy of India and the International Live G.I. Endoscopy Workshop as invited faculty from 23rd to 25th July 2010 at Chennai and moderated a session on therapeutic endoscopy of upper GI tract for esophageal stenting, endotherapy of esophageal varices, achalasia cardia dilatation and laparoscopic cardiomyotomy.
- Attended the Annual Intercollegiate Surgery Quiz competition “SURGENIUS – 2010” as Chief Guest on 6th August 2010 organized by Department of Surgery, Aarupadai Veedu Medical College & Hospital, Pondicherry.
- Attended the JIPMER Cancer update organised by the Regional Cancer Centre, JIPMER on “Current Management of Early and Locally advanced Breast Cancer” on August 8 2010 and Chaired a guest lecture on “Role of endocrine therapy in early and locally advanced breast cancer”.

JIPMER 2010-2011 / 399
• Attended the 34th Annual Conference of the Tamil Nadu and Pondicherry Chapter of the Association of Surgeons of India held at Madurai, Tamil Nadu from 13th to 15th August 2010 as invited faculty.
  i. Delivered the prestigious Dr. Mathias Oration and spoke on “Gastroduodenal ulcers and Helicobacter pylori – continued threats of an old friend”.
  ii. Chaired the Sundaram best paper award session and the Dr. V. Jegannathan best paper award session.
  iii. Chaired a free paper session.
• Attended the XXth National Conference of the Indian Association of Surgical Gastroenterology held at Hyderabad from 7th to 10th October 2010.
  i. Delivered a guest lecture in the CME on “Esophageal perforations: Choosing the right surgical option”.
  ii. Participated as an expert on “Meet the Expert session” on “Upper G.I. disorders”.
  iii. Judged the poster session on “Stomach & Intestinal disorders”.
• Attended the Apollo Surgical Course -2010 as invited faculty organized by the Department of General Surgery, Apollo Hospitals, Chennai for the MRCS/MS/DNB postgraduate students in Surgery from 12th to 14th November 2010. Participated in Panel discussion on Obstructive jaundice & Portal hypertension, viva-voce for Postgraduates and GE- Case Discussions.
• Attended the “International conference on the Stomach- a multi-disciplinary approach to diseases of The Stomach” as invited faculty organized by the Department of General Surgery, Saifee Hospital, Mumbai from 3rd to 5th December 2010. Delivered guest lectures on “Helicobacter pylori and peptic ulcer disease – a Surgeons’ perspective” and “Options: Upper Gastrointestinal Bleeding”.

Dr. G.S. Sreenath
• Attended 34th Annual Conference of the Tamil Nadu and Pondicherry Chapter of the Association of Surgeons of India held at Madurai, Tamil Nadu from 13th to 15th August 2010 as delegate.

Dr. Muthukumarassamy
• Attended the XXth National Conference of the Indian Association of Surgical Gastroenterology held at Hyderabad from 7th to 10th October 2010.

RESEARCH PROJECTS
Ongoing
Dr. S. Jagdish
• Clinic-microbiological profile of septic diabetic foot with special reference to anaerobic infections
• The role of fine needle aspiration microbiology in the management of raw areas.

JIPMER 2010-2011 / 400
• Comparison of bone biopsy with aspiration wound swab in infected diabetic foot.
• Clinico microbiological profile of perforated peptic ulcer with special reference to anaerobic organisms.

Dr. K. Srinivasan
• The role of ultrasound in predicting severity of acute pancreatitis.
• Study of effect of Letrozole in postmenopausal estrogen receptor positive breast cancer.
• The effect of exercise on shoulder function post mastectomy.
• Detection of candida in perforation peritonitis and the effect of Flucanozole on its outcome.
• Molecular subtyping of breast cancer; its correlation to clinical stage, and its correlation to response of locally advanced breast cancer to neoadjuvant chemotherapy or hormone therapy.

Dr. Sarath Chandra. S
• The role of imprint smear in H pylori detection in comparison with urease test.
• Impact of MRSA decolonization on SSI following elective general surgical operations.
• Comparison between standard pressure and normal pressure pneumoperitoneum in laparoscopic cholecystectomy.
• Effect of perioperative systemic lignocaine on postoperative pain in patients undergoing elective open abdominal surgeries – a randomized controlled trial.

Dr. Vikram Kate
• 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.
• The role of early enteral feeding in acute pancreatitis.
• Spectrum of small bowel perforation in a tertiary care hospital of South India: predictors of morbidity and mortality.

Dr. D. Kadambari
• P-glycoprotein expression as a predictor of response to neoadjuvant chemotherapy in breast cancer – a prospective study.
• Study of association between breast disease and hypothyroidism and the effect of eltroxin therapy on symptom relief.
• Study of the relationship between polymorphic variants of the CYP1A1 gene and efficacy of aromatase inhibitor letrozole advanced breast cancer.
• Effect of Zoledronic Acid on disseminated tumor cells in women with locally advanced Breast Cancer – a Randomised Controlled trial.

JIPMER 2010-2011 / 401
Dr. Nandakishore Maroju

- Role of preoperative abdominal drains in patients with peritonitis unfit for early surgery.

Dr. Vishnu Prasad

- Acute upper gastrointestinal bleeding at JIPMER – a descriptive study

PUBLICATIONS


JIPMER 2010-2011 / 402


Book Chapters


PATIENT CARE SERVICES

1. Out patient services – 7500 cases.
2. Side Lab facility with 2 Technical Assistants and 1 Lab. Technician
   a) Blood – 21200
   b) Unit – 15200
   c) Stools – 650
3. Endoscopy lab
   a) Diagnostic – 3030 Cases
   b) Upper GI – 2903 cases
   c) H pylori – 248 cases
   d) Lower GI – 127 cases
   e) Therapeutic – 560 cases
4. Minor O.T. -25000

JIPMER 2010-2011 / 403
AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr. S. JAGDISH

• Member of expert committee constituted by MCI for modification of Undergraduate curriculum and attended the meeting for the same in March 2011 at New Delhi.

• He conducted Inspections of various institutions for the National Board of Examinations[NBE] and Medical Council of India.[MCI]

• He was also member of the Interview board for recruiting faculty for NEIGRIHMS, Shillong.

Dr. D.KADAMBARI

• Course Co-ordinator for B.Sc Operation Theatre Technology Course.

• Has conducted inspections of various Medical Colleges in the country for the MCI.

DR. MUTHUKUMARASSAMY

• Has been selected for Master’s Program in Hepato-bilio-pancreatic surgery at the prestigious Henri Bismuth Institute, Paris, France.

• An expert member-Surgeon for the NGO- “Doctors without Borders”

Dr. Manwar Ali:

• Nodal Facilitator for O.T. Technology course.
8.37 Surgical Gastroenterology

<table>
<thead>
<tr>
<th>Professor &amp; Head</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vikram Kate</td>
</tr>
<tr>
<td>Additional Professor</td>
</tr>
<tr>
<td>Vishnu Prasad. N.R</td>
</tr>
<tr>
<td>Assistant Professor</td>
</tr>
<tr>
<td>Ranjit Hari</td>
</tr>
</tbody>
</table>

BACKGROUND INFORMATION OF THE DEPARTMENT

The department of Surgical Gastroenterology at JIPMER was started in March 2010 with the recruitment of new assistant professors and with Professor Dr. Vikram Kate taking over as Professor & Head. Currently there are four members of faculty & three senior residents in the department.

Bed strength: 11 beds
- 6 general ward beds
- 2 ICU beds
- 3 special ward beds

CONTINUING MEDICAL EDUCATION PROGRAMS

Dr. Vishnu Prasad N.R

Successfully completed three year training on 14th January 2010, as a sponsored trainee in Department of G I Surgery & Liver transplantation, AIIMS, New Delhi

CONFERENCES

Dr Vikram Kate

- Attended the CME -2010 as invited faculty 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. Delivered a lecture on “Enterocutaneous Fistula” and participated in Case Discussions.

- Attended the 11th Annual Conference of the Society of Gastrointestinal Endoscopy of India and the International Live G.I. Endoscopy Workshop as invited faculty from 23rd to 25th July 2010 at Chennai and moderated a session on therapeutic endoscopy of upper GI tract for esophageal stenting, endotherapy of esophageal varices, achalasia cardia dilatation and laparoscopic cardiomyotomy.

- Delivered the prestigious Dr. Mathias Oration and spoke on “Gastroduodenal ulcers and Helicobacter pylori – continued threats of an old friend at the 34th Annual Conference of the Tamil Nadu and Pondicherry Chapter of the Association of Surgeons of India held at Madurai, Tamil Nadu from 13th to 15th August 2010.

JIPMER 2010-2011/ 405
• Attended the XXth National Conference of the Indian Association of Surgical Gastroenterology held at Hyderabad from 7th to 10th October 2010.
  a. Delivered a guest lecture in the CME on “Esophageal perforations: Choosing the right surgical option”.
  b. Participated as an expert in “Meet the Expert” session on “Upper G.I. disorders”.
  c. Judged the poster session on “Stomach & Intestinal disorders”.

• Attended the Apollo Surgical Course -2010 as invited faculty organized by the Department of General Surgery, Apollo Hospitals, Chennai for the MRCS/MS/DNB postgraduate students in Surgery from 12th to 14th November 2010. Participated in Panel discussion on Obstructive jaundice & Portal hypertension, viva-voce for Postgraduates and GE- Case Discussions.

• Attended the “International conference on the Stomach- a multi-disciplinary approach to diseases of the stomach” as invited faculty organized by the Department of General Surgery, Saifee Hospital, Mumbai from 3rd to 5th December 2010. Delivered guest lectures on “Helicobacter pylori and peptic ulcer disease – a Surgeons’ perspective” and “Options: Upper Gastrointestinal Bleeding”.

Dr Vishnu Prasad N.R

• Attended the ASICON 2010 – 70th Annual conference of Association of Surgeons of India, New Delhi on December 15-20, 2010 and presented a paper on “Pre-operative radiotherapy in carcinoma of rectum”.

• Attended the CME on complicated urinary tract and abdominal infections at JIPMER, urology Department.05/12/2010. Chaired a session on “ Rationale management of severe intra-abdominal infection”.

• Attended the 16th AMASI skill course & fellowship examination from 18th November to 21st November 2010 at Madurai, Tamilnadu.

• Attended the 3rd International conference and live workshop on bariatric and metabolic surgery at Chennai from 12th to 13th November 2010.

• Attended the 2nd Certificate course in Hepato-biliary pancreatic surgery at CMC, Vellore, from 30th August 2010 to 4th September 2010.

• Attended the 11th annual conference of society of Gastrointestinal Endoscopy of India. International live G I endoscopy workshop, 22-28th July 2010, Chennai

• Attended the 20th annual conference of the Indian association of surgical gastroenterology, 7th to 10th October 2010, Hyderabad, India

Dr Ranjit Hari V

• Attended the XXth National Conference of the Indian Association of Surgical Gastroenterology held at Hyderabad from 7th to 10th October 2010.
• Attended a workshop on good clinical practices and Randomised control trials, jointly organised by FHI and NHI, in Trivandrum from 2nd to 5th December 2010


• Attended Joint meeting of Indian pancreas club and International Pancreatology Association, at Cochin from Feb. 10 to 13th 2011.

PUBLICATIONS

Dr Vikram Kate


• Parthasarathy G, Vikram Kate, Ananthakrishnan N. Chronic corrosive injuries of the stomach-a single unit experience of 109 patients over thirty years. World Journal of Surgery 2010; 34: 758-64.


• Kate V. Enterocutaneous Fistula. eMedicine from WebMD. Updated June 1, 2010. Available at: http://emedicine.medscape.com/article/1372132-overview.


Dr Vishnu Prasad N.R

• Quality of life following oesophagectomy for carcinoma of oesophagus. Tropical gastroenterology 2010; 31(3) Suppl: S12-13

JIPMER 2010-2011 / 407
Dr. Ranjit Hari V


PATIENT CARE SERVICES

A. Clinical

Admitted and treated as IP, 200 patients in 2010/2011

OPD : 1000

OT : 120 surgeries performed. (including liver resection, pancreatico duodenectomies, esophagectomies and basic laparoscopic procedures.

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr Vikram Kate

- Dr. Vikram Kate, was awarded the Fellowship of the Royal College of the Surgeons of England (F.R.C.S. - Eng.) – Fellowship ad eundem by the President and the Council of the Royal College on October 14 2010.
- Dr. Vikram Kate, was awarded the “Dr. Mathias Oration- 2010” by the Tamil Nadu and Pondicherry Chapter of the Association of Surgeons of India.
- Fellow of
  i. Royal College of Surgeons of England
  ii. Royal College of Surgeons of Edinburgh
  iii. Royal College of Surgeons of Glasgow
  iv. American College of Gastroenterology
  v. American College of Surgeons
  vi. Member of the American Society of Colon and Rectal Surgeons
  vii. Association of Surgeons of India
  viii. Indian Association of Surgical Gastroenterology
  ix. National Academy of Medical Sciences
  x. International Medical Sciences Academy

Dr Vishnu Prasad N.R

- Obtained FMAS (Fellow in Minimal Access Surgery) in Nov 2010, from Association of Minimal Access Surgeons, section of ASI, India.

JIPMER 2010-2011 / 408
• Done four liver resections (two major & two minor). These procedures were not initially done at JIPMER.
• Member of Indian Association of Surgical Gastroenterology
• Member of Association of Minimal Access Surgeons of India

Dr. Ranjit Hari V
• Life member of Indian chapter of IHPBA (International Hepato Pancreatic and Biliary Association)

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. Vikram Kate
• Appointed to the Panel of Examiners for the Intercollegiate MRCS Examination by the Royal College of Surgeons of Edinburgh, UK.
• Examiner for evaluation of Ph.D. thesis and conduct of Viva Voce examination at PGIMER, Chandigarh.
• Appointed Inspector to conduct inspection of the department of Gastrointestinal Surgery for the purpose of accreditation by the National Board of Examinations, New Delhi.
• Contributed MCQs to the Union Public Service Commission, JIPMER and Jammu University for MCh entrance examinations.
• Has been appointed as a Member on the Editorial Board of the “World Journal of Critical Care Medicine”, international journal published from Beijing, China.

Dr. Ranjit Hari V
Appointed inspector to conduct inspection of Surgical Gastroenterology course under NTR University, Andhra Pradesh, for Sri Narayana medical college, Nellore Andhra Pradesh.
• Contributed MCQs for NTR University Andhra Pradesh, MCh Surgical Gastroenterology course.

SIGNIFICANT EVENTS IN THE DEPARTMENT

Visiting Professor
Dr. Mohamed Rela, Senior liver transplant surgeon King’s College & Hospital, London & Head of the Department for Institute of Liver, Pancreas diseases and Transplantation, Global Hospitals Chennai visited the department of Surgical Gastroenterology JIPMER on 25th August 2010 and had an interactive session with the faculty & residents of the departments of Surgical Gastroenterology and General Surgery.
BACKGROUND INFORMATION OF THE DEPARTMENT

The department of Surgical Oncology at JIPMER was started on 10 May 2010.

Bed strength: 11 beds
- 6 general ward beds
- 2 ICU beds
- 3 special ward beds

CONTINUING MEDICAL EDUCATION PROGRAMS

Dr. R. Aravind
- Participated and delivered a talk on the surgical management of locally advanced breast cancer in the CME on Breast cancer organized by the Regional Cancer Centre, JIPMER on 08-08-2010
- Participated and delivered a talk on the surgical management of oral cancer in the CME on Head and Neck Cancer organized by the Regional Cancer Centre, JIPMER on 14-11-2010

CONFERENCES

Dr. R. Aravind
- Attended the IFHNOS World Tour at Bangalore / 10th FHNO Annual Conference Current concepts in Head and Neck Surgery and Oncology – in October 2010
- Attended the Basic Course on Microsurgical Techniques at Chennai in December 2010

PUBLICATIONS


PATIENT CARE SERVICES

OPD – Monday and Wednesday
OT – Thursday and Alternate Tuesday

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

- Dr. R. Aravind is a reviewer for the journal Laryngoscope

JIPMER 2010-2011 / 410
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


7. Delivered a lecture on ‘Concept of complicated UTI’ in the C.M.E. on Complicated Urinary Tract & Abdominal Infections held in JIPMER, Puducherry on 5th December 2010.

**Dr. L.N. Dorairajan**

1. Organising Secretary of the C.M.E. on Complicated Urinary Tract & Abdominal Infections held in JIPMER, Puducherry on 5th December 2010.

2. Chaired a session on “Current concepts in the management of UTI of the upper urinary tract.” In the C.M.E. on Complicated Urinary Tract & Abdominal Infections held in JIPMER, Puducherry on 5th December 2010.

**Dr. Muruganandham. K**

1. Delivered a lecture on ‘Systemic Inflammatory Response Syndrome (SIRS) in complicated UTI’ In the C.M.E. on Complicated Urinary Tract & Abdominal Infections held in JIPMER, Puducherry on 5th December 2010.

2. Chaired a session on ‘UTI in diabetes mellitus’ in the C.M.E. on Complicated Urinary Tract & Abdominal Infections held in JIPMER, Puducherry on 5th December 2010.

3. Delivered a lecture on “Organ donation” at an awareness programme conducted by Integra Software Services, Puducherry in association with Lions Club International on 29.04.2010.


**Dr. R. Manikandan**


2. Delivered a lecture on ‘Complicated UTI of the lower urinary tract’ in the C.M.E. on Complicated Urinary Tract & Abdominal Infections held in JIPMER, Puducherry on 5th December 2010.

CONFERENCES

Dr. L. N. Dorairajan

1. Participated as a faculty in the symposium on Chronic Pelvic Pain Syndrome conducted as the Annual Conference of the Urological Society of India (USICON), held in Kolkata on January 2011 and delivered a lecture on ‘Etiopathogenesis of chronic pelvic pain syndrome’ in the same symposium.

2. Participated as a faculty in the symposium on “Lower urinary tract endoscopic surgery: complications and management update” and delivered a lecture on “The problems in TURBT for a large tumor” at the Annual Conference of the South Zone Chapter of the Urological Society of India (SZUSICON) at Thrissur in August 2010.

Dr. Muruganandham. K

1. Attended the 21st Annual Conference of Urological Society of India South Zone Chapter (SZUSICON) 2010 at Thrissur from 6th to 8th August 2010.


Dr. R. Manikandan


The following papers were presented from the Department of Urology at the Annual Conference of the Urological Society of India (USICON 2011), held in Kolkata in January 2011.


RESEARCH PROJECTS

Departmental Project

i. Completed

a. Comparison of tamsulosin monotherapy versus combination of tamsulosin and oxybutynin in the medical management of BPH: a randomized controlled trial.

b. Comparison of the effect of pre-operatively administered finasteride and dutasteride on TURP complications: A placebo controlled randomized trial.

c. Self-reported sexual functioning and quality of life in male and female partners attending infertility clinic.

ii. Ongoing

a. Randomised clinical trial comparing intracorpus spongiosum block versus topical anesthesia for performing internal urethrotomy in urethral stricture.

b. Randomized controlled trial comparing fluoroscopy versus flexible nephroscopy for confirming stone clearance in percutaneous nephrolithotomy.

PUBLICATIONS

Journals:


1. Patient Care Services

A. Clinical

• OPD services.

• In patient urological care.

• Open operations.

• Endoscopic upper and lower urinary tract diagnostic and therapeutic procedures.

• Laparoscopic ablative and reconstructive procedures.

• Extracorporeal shock wave lithotripsy service.
• Outpatient urological surgery and endoscopy.
• Image guided urological interventions.
• Surgery for male infertility and sexual dysfunction.

B. Laboratory
• 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 and JIPMER Annual Report.
3. Dr. L.N. Dorairajan continued as a Member of the Editorial Committee of the Indian Journal of Urology.
4. Dr. L.N. Dorairajan was the Vice President of the JIPMER Scientific Society for the year 2010-11.

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 Article Purchase Committee.
4. Member of Postgraduate Training Committee.
5. Member of OT Efficiency Monitoring Committee.

Dr. L.N. Dorairajan
1. Member of the ‘Hospital Sutures and Disinfectants Monitoring Committee.’ JIPMER, Puducherry.
2. Member of the Core Committee for the Implementation of the RNTCP in JIPMER, Puducherry.
3. Member of the Inspection Team of the Directorate General of Health Services, New Delhi for inspecting and recommending suitability for performing renal transplant surgery for Pondicherry Institute of Medical Sciences, Pondicherry.
4. Vice President of the JIPMER Officers’ Club for the year 2010-11.

SIGNIFICANT EVENTS IN THE DEPARTMENT
1. Male infertility and sexual dysfunction treatment services were started.
2. The annual intake of students for the M.Ch. (Urology) course was increased to three per year.
9. DIVISIONS

9.1 Clinical Immunology

Professor & Head
V.S. Negi

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 academic year (2009-2010), two postdoctoral teaching and training programs, DM (Clinical Immunology) and PhD (Immunology) have been started in the specialty. We are now in the process of establishing facilities for stem cell transplantation (SCT) and immunotherapy for allergic, autoimmune and malignant disorders. It is hoped that with the establishment of these services, JIPMER will be one of the leading centers in India to offer immunotherapy for autoimmune diseases.

EDUCATIONAL COURSES

A. Higher Specialty Courses
   • DM (Clinical Immunology) since academic year 2009. Intake one student per year. Total number of students enrolled: 2 (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. Total number of students enrolled: 4.
   • Start of an international joint PhD program with University of Paris 7

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.

JIPMER 2010-2011 / 416
CONTINUING MEDICAL EDUCATION PROGRAMS
Dr. V.S. Negi
Guest Lecture

CONFERENCES
Dr. V.S. Negi
- Attended Annual Conference of the Indian Rheumatology Association (IRACON), November 26-28, 2010, Bhubaneswar, India.

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></td>
<td></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>
</tbody>
</table>

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</td>
<td>CCRK</td>
<td>23.00</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td>227.04</td>
</tr>
</tbody>
</table>
Total Research Grants generated by division till March 2011: Rs. 227.04 Lakh.

PhD Scholar enrolled : 4

Research personnel employed under the research projects:

1. Senior Research Fellow (SRF) : 4
2. Laboratory Technician : 1
3. Laboratory Attendant : 1

B. Departmental Projects

   a. Completed : 2
   b. Ongoing : 2

C. Collaborative Projects

   a. Completed : 1
   b. Ongoing : 4

PUBLICATIONS

1. Role of HLA DR-DQ in susceptibility of Systemic Lupus Erythematosus: Report from Tamil Nadu South India.
2. Influence of HLA DRB1 and DQB1 genes on susceptibility to Rheumatoid Arthritis in South Indian Tamils.
3. Hypokolemic paralysis as initial presentation in female patients with primary Sjogern’s Syndrome – a case series.
4. Intravenous Zoledronic acid for osteoporosis in patients with various Systemic autoimmune disease – JIPMER experience.

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, Immunoblot) and molecular (PCR- HLA B27, DR-DQ) tests for early and specific diagnosis of autoimmune disease 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.

JIPMER 2010-2011 / 418
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 2010-2011 was 17,615. In addition, 23,660 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 2010-2011</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A. Patient care services</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>I. Diagnostic Services</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>ELISA</td>
<td>5,015</td>
</tr>
<tr>
<td>2.</td>
<td>Indirect Immunoflorescence (IIF)</td>
<td>1,364</td>
</tr>
<tr>
<td>3.</td>
<td>Nephelometry</td>
<td>5,986</td>
</tr>
<tr>
<td>4.</td>
<td>Immunoblot</td>
<td>2,800</td>
</tr>
<tr>
<td>5.</td>
<td>PCR (HLA B27, DR, DQ)</td>
<td>936</td>
</tr>
<tr>
<td>6.</td>
<td>Allergy test (SPT)</td>
<td>125</td>
</tr>
<tr>
<td>7.</td>
<td>Joint aspirations</td>
<td>80</td>
</tr>
<tr>
<td>8.</td>
<td>Tissue Biopsies</td>
<td>138</td>
</tr>
<tr>
<td>9.</td>
<td>Miscellaneous</td>
<td>85</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>16,529</strong></td>
</tr>
<tr>
<td><strong>II. Therapeutic procedures</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>Immunotherapy (SLIT)</td>
<td>5</td>
</tr>
<tr>
<td>2.</td>
<td>Intra-articular injections</td>
<td>1,081</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>1,086</strong></td>
</tr>
<tr>
<td><strong>Total Patient care services</strong></td>
<td></td>
<td><strong>17,615</strong></td>
</tr>
<tr>
<td><strong>B. Research activities</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>Cytokine estimation (ELISA)</td>
<td>8,176</td>
</tr>
<tr>
<td>2.</td>
<td>DNA extraction</td>
<td>292</td>
</tr>
<tr>
<td>3.</td>
<td>PCR</td>
<td>6,474</td>
</tr>
<tr>
<td>4.</td>
<td>Real time PCR</td>
<td>8,648</td>
</tr>
<tr>
<td>5.</td>
<td>Spectratyping</td>
<td>50</td>
</tr>
<tr>
<td>6.</td>
<td>Cell culture studies</td>
<td>20</td>
</tr>
<tr>
<td><strong>Total research</strong></td>
<td></td>
<td><strong>23,660</strong></td>
</tr>
<tr>
<td><strong>Total (A + B)</strong></td>
<td></td>
<td><strong>41,275</strong></td>
</tr>
</tbody>
</table>
AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr. V.S. Negi visited INSERM unit 640, Hospital St. Louis, Paris, France for a period of 15 days from 13.12.2010 under the ICMR-INSERM collaborative research project.

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. V.S. Negi

National

1. Member, MCI core committee on development of curriculum for DM, Clinical Immunology.

Institutional

1. Member Multidisciplinary Advanced Research Centre (MARC)
2. Member, PhD monitoring committee

SIGNIFICANT EVENTS IN THE DEPARTMENT

1. Establishment of New Research Facilities

M Christina Mary, PhD student visited Hospital Saint Louis, Paris, France from 3rd October 2010 to 31st December 2011 for a period of three months under the ICMR-INSERM collaborative research program in Medical Sciences between the Govt. of India and France.

Equipment: Installation and commissioning of Step one plus Real Time PCR procured under ICMR-INSERM Research Project

2. Visiting of International Faculty

Dr. Ryad Tamouza, Dr. Krishnamoorthy Rajagopal and Dr. Helene moier & Teepe Research Scientists from INSERM, Govt. Of France visited the division of Clinical Immunology from 18th March- 1st April 2011 to conduct collaborative research in the field of immunology.

3. Visits of Indian Faculty

Dr. RN Misra, Senior Professor and Head, Department of Clinical Immunology, SGPGIMS, Lucknow visited the Division of Clinical Immunology between 5-18th September, 2010.

4. Visiting Professors

Dr. (Major General) Ved Chaturvedi, Director General, Medical Research and Consult in Immunology-Rheumatology, Armed Forces, Govt. of India, New Delhi visited the department from 13-17th March 2011 as visiting professor.
BACKGROUND INFORMATION OF THE DEPARTMENT

Clinical pharmacology is the scientific discipline that involves all aspects of the relationships between drugs and humans. Clinical pharmacologist is a physician with specialized knowledge of clinical pharmacology and the necessary skills and competence to ensure safe and effective use of pharmaceutical products in individual patients as well as in patient populations, participate in and guide the process of new drug development, undertake pharmacovigilance, pharmacoepidemiology and pharmacoeconomic activities. The discipline has a major role in contributing towards drug related issues in the academia, government and pharmaceutical industry. Currently India is emerging as a hub for clinical research and there are very few clinical pharmacologists available to fulfil the growing demands of 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, JIPMER started DM Clinical Pharmacology course in 2009. On 25th September, 2010, the division conducted workshop on Good clinical practice and clinical trials in collaboration with Pfizer, to train physicians from various parts of the country in conducting clinical trials. Currently, division of Clinical Pharmacology is playing a leading role in the functioning of Adverse Drug Reaction monitoring centre and drug information service.

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 post was made against the post of senior resident. The candidate is 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.

CONTINUING MEDICAL EDUCATION PROGRAMME

- Organized a one day National workshop on Good Clinical Practice (GCP) in Clinical trials on September 25, 2010 in collaboration with Pfizer, India with the objective of training the participants with the essential skills and knowledge needed in designing and carrying out clinical trials. Dr. C Adithan delivered a talk on “Adverse events and Pharmacovigilance”.

- In collaboration with the Department of Pharmacology, Pharmacovigilance Awareness Programme 2011 was conducted for Consultants, Residents, MBBS students, Nurses and Pharmacists of JIPMER for three days from February 21- 23, 2011. Dr. C. Adithan, delivered a talk on “Pharmacovigilance Programme of India (PvPI) - Present status in JIPMER” during the programme. Dr. Steven Aibor Dkhar, gave a talk on “Functioning of Pharmacovigilance centre in JIPMER.”
• Conducted Pharmacology quiz as a part of Pharmacovigilance Awareness programme 2011 for MBBS students and interns of all medical colleges in Pondicherry on 21st Feb 2011
• In collaboration with the Department of Pharmacology, “Workshop on Pharmacovigilance” was organized on 29th and 30th of March 2011. During the workshop Dr. C. Adithan, Chairman gave a lecture on “Pharmacovigilance programme of India (PvPI)- National & JIPMER status”. Dr. Steven, Organizing Secretary delivered a lecture on “Standard operating procedures for ADR monitoring”.
• Conducted a quiz programme in JIPMER Nursing College for the nursing students of Pondicherry on the occasion of World Health day on the theme of antimicrobial drug resistance.

CONFERENCES

Dr. C Adithan
• Delivered a lecture on “Organisation of Pharmacovigilance Centre: Problems and Suggestions” in the ICMR sponsored Pharmacovigilance Programme organised in Vivekananda College of Pharmacy, Thiruchengode on 10, February, 2011.

Dr. Steven Aibor Dkhar
• Attended the Workshop on Pharmacovigilance Programme of India conducted by the Central Drugs Standard Control Organization (CDSCO) and Ministry of Health & Family Welfare, Govt. of India, on November 24 – 25 at AIIMS, New Delhi.

RESEARCH PROJECTS

A. Funded Projects
   a. Extramurally Funded

_Ongoing_

Departmental
• Effect of Nebivolol on endothelial dysfunction in coronary artery disease.

Interdepartmental collaborated research projects
• Part of “Effect of nitroglycerin in stroke (ENOS)” multicentric trial conducted by Dept of Neurology, JIPMER.

PUBLICATIONS
• Drug alert, an official News letter of “Adverse drug reaction monitoring centre” was released during March, 2011.
PATIENT CARE SERVICES

Polysomnography studies are being conducted in Division of Clinical Pharmacology, with effect from December 2011. A total of seven studies had been done so far in patients with symptoms suggestive of obstructive sleep apnoea/hypopnoea syndrome.

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. C. Adithan

- Faculty-in-charge, Finance Division, JIPMER
- Chairman, JIPMER Ph.D. Studies committee
- Member, Board of Examinations, JIPMER
- Vice-Chairman, Drug Purchase and Utilization Monitoring Committee
- Member-Secretary, Advisory Committee for establishing Multidisciplinary Advanced Research Center, JIPMER
- Member Secretary, Institute Ethics Committee (Human studies)
- Warden - Lister, Osler and Aschoff House (UG Men's Hostel), JIPMER
- Member, Committee for assessing man power requirements of JIPMER
- Member, Institute core committee for starting renal transplantation at JIPMER
- Member, Editorial Board – JIPMER News
- Co-ordinator, Regional Pharmacovigilance Center
- Co-ordinator, Drug Information Center

Dr. Steven A. Dkhar

- Professor in – charge of Division of Clinical Pharmacology
- Officer in-charge of stores, Dept. of pharmacology
- Teaching in-charge for MRO
- Sub co-ordinator, ADR monitoring centre

SIGNIFICANT EVENTS IN THE DEPARTMENT

- Professor Flaminio Cattabeni, from Center for Excellence on Neurodegenerative disease, Department of Pharmacological Sciences, University of Milano, Italy delivered a guest lecture on “Alzheimer’s disease: hope for cure” on 11th January, 2011.
- Cubicle no 1 in Ward no 26 has been allotted to Division of Clinical Pharmacology for conducting clinical trials.
PATIENT CARE SERVICES

A. Clinical

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 JIPMER Casualty are mainly related to road traffic accidents, assault injuries, suicidal poisoning, poisonous snake bites and other medical surgical emergencies.

Casualty Medical team consisting of 4 Nos. of Casualty Medical Officers, 6 Nos. of Assistant Casualty Medical Officers, Nurses assisted by Pre Trauma Technicians, Student Nurses, Dressers, Nursing Attendants, Safaiwala and other ancillary hospital staffs. The EMS Department is provided with 2 ambulances equipped with life supporting equipments for bringing sick patients to JIPMER and taking sick patient to other hospitals wherever necessary.

The referral patients from the Casualty Medical Officer are taken care of by various teams of medical specialty like Orthopeadics, 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 I-floor in EMSD for continuation of treatment, beds totaling to 40 Nos. including both Male & Female separately. A specially allotted Burns Room is functioning with additional Paramedical workers for burns affected patients.

Emergency OT situated in the 2nd floor of Emergency Medical MSD, maintaining 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.

Statistics of patients attended Casualty during 2010 – 2011

<table>
<thead>
<tr>
<th>Month &amp; Year</th>
<th>No. of patient attended Casualty</th>
</tr>
</thead>
<tbody>
<tr>
<td>April, 2010</td>
<td>1296</td>
</tr>
<tr>
<td>May, 2010</td>
<td>1328</td>
</tr>
<tr>
<td>June, 2010</td>
<td>1462</td>
</tr>
<tr>
<td>July, 2010</td>
<td>2817</td>
</tr>
<tr>
<td>August, 2010</td>
<td>2690</td>
</tr>
<tr>
<td>September, 2010</td>
<td>2714</td>
</tr>
<tr>
<td>October, 2010</td>
<td>2638</td>
</tr>
<tr>
<td>November, 2010</td>
<td>2883</td>
</tr>
<tr>
<td>December, 2010</td>
<td>2627</td>
</tr>
<tr>
<td>January, 2011</td>
<td>2722</td>
</tr>
<tr>
<td>February, 2011</td>
<td>2319</td>
</tr>
<tr>
<td>March, 2011</td>
<td>2345</td>
</tr>
</tbody>
</table>
Future Plans: to expand the 4th floor for Trauma Care with Trauma OT and also the 5th floor plan to establish a fully equipped burns unit which is going to be one of the best in India.

B. Laboratory

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, haemoglobin estimation, packed cell volume serum ALP, total protein, etc.

Statistics of Laboratory Services during 2011 – 2010

Biochemical Laboratory

<table>
<thead>
<tr>
<th>Month &amp; Year</th>
<th>Total samples received</th>
<th>Total Investigations conducted</th>
</tr>
</thead>
<tbody>
<tr>
<td>April, 2010</td>
<td>3982</td>
<td>20678</td>
</tr>
<tr>
<td>May, 2010</td>
<td>4331</td>
<td>22346</td>
</tr>
<tr>
<td>June, 2010</td>
<td>4121</td>
<td>20896</td>
</tr>
<tr>
<td>July, 2010</td>
<td>4205</td>
<td>21083</td>
</tr>
<tr>
<td>August, 2010</td>
<td>4260</td>
<td>29693</td>
</tr>
<tr>
<td>September, 2010</td>
<td>4734</td>
<td>25696</td>
</tr>
<tr>
<td>October, 2010</td>
<td>4714</td>
<td>25596</td>
</tr>
<tr>
<td>November, 2010</td>
<td>4151</td>
<td>25732</td>
</tr>
<tr>
<td>December, 2010</td>
<td>4174</td>
<td>25985</td>
</tr>
<tr>
<td>January, 2011</td>
<td>4569</td>
<td>26340</td>
</tr>
<tr>
<td>February, 2011</td>
<td>4300</td>
<td>23990</td>
</tr>
<tr>
<td>March, 2011</td>
<td>3652</td>
<td>25595</td>
</tr>
</tbody>
</table>

Administrative, Educational, Research and Other Assignments

The administrative head of EMS Department is monitoring the patient care services rendered at EMSD. He is arranging for essential equipments, consumables & non-consumables required for patient care services and maintaining proper functioning of the Department.
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)

Dr. Adhisivam has joined as Assistant Professor in neonatology after Dr. Sriram has left.

DM Neonatology course was commenced on August 2009 with an intake of one student per year. PhD course in neonatology was started in September 2010. In addition to the routine academic teaching, our neonatology division also conducts regular neonatal resuscitation training for doctors and workshops for nurses on essential newborn care. Every year, one or two paediatric postgraduates are 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
   a. The undergraduate teaching of the department comprises of M.B.B.S. course (two batches). The number of students in each batch is 116.

B. Postgraduate Courses
   • M.D. (Paediatrics) 10 students per academic year from 2011

C. Research Courses
   • D.M. (Neonatology) – 1 student per academic year
   • Ph.D. in neonatology – currently one Ph.D. scholar is pursuing a study titled “Effect of Therapeutic hypothermia on DNA damage in term babies with perinatal asphyxia”.

CONTINUING MEDICAL EDUCATION PROGRAMMES

• Essential newborn care for nurses
• Neonatal resuscitation program (NRP) for medical students and nurses
CONFERENCES

Dr. B. Vishnu Bhat

- Attended RIPE 2010 at Sri Ramachandra Medical College, Porur, Chennai on 27th & 28th November 2010 and delivered a lecture cum case demonstration on ‘Examination of newborn’.

- Attended a CME on complicated urinary tract and abdominal infections on 05th December 2010 at JIPMER and chaired a session on UTI in children.

- Attended CME on glomerular disease at JIPMER, and chaired a session on ‘Proteinuria in pregnancy’ on 20th January 2011.

- Faculty for National Teacher Training Course at JIPMER, held in September 2010 and February, 2011.

- Delivered a talk at the Pharmacovigilance awareness programme at JIPMER on the clinical implications of adverse drug reaction in children held in February 2011.

- Chaired a talk on Allergic disease in children delivered by Dr. Major Nagaraju from Chennai at Pondicherry - 27.2.2011.


- Intensive clinical training programme in paediatrics at the Institute of child health - talk on examination of newborn on 4.3.2011.

- Participated in “Informal Consultation on Clinical Trials in Children Registered in the Clinical Trials Registry India” – (CTRI) organized by WHO - IGMCH on 11.3.2011.

- Doctoral committee meeting at SRM Medical College, Chennai on 25.10.2010 for conducting Ph.D. course.

- Delivered a talk on breast feeding at Mahatma Gandhi Medical College and Research Institute, Puducherry on 6.8.2010.


- Mehar SS et al. Erythrocytic catalase activity in cases of Down’s syndrome ·


- Dr. Mehar’s paper was given the best paper award.

Papers presented at JIPMER NEOCON 2010 at Pondicherry, November 19-21, 2010 :

i. Chacko J, Bhat BV, Sridhar MG. Nonprotein nitrogenous (NPN) substances in cord blood and urine as predictor of neurodevelopmental outcome in perinatal asphyxia.

ii. Shruthi BK, Bhat BV. Therapeutic hypothermia for term neonates with perinatal asphyxia.

iii. Femitha P, Bhat BV. Immediate outcome of late preterm babies.

JIPMER 2010-2011 / 427
iv. Chacko J, Bhat BV, Sridhar MG. Nonprotein nitrogenous (NPN) substances in cord blood and urine of healthy and asphyxiated babies.


Dr. B. Adhisivam
- Attended the certificate course on “Infant and young child feeding and nutritional counseling for children with HIV, Hindupur, Andhra Pradesh November 2010.
- Participated in “Essential newborn care in community” – National Neonatology forum (Annual meet) – Ahmedabad, October 2010

RESEARCH PROJECTS
Departmental Projects

Completed
1. Early neonatal outcome in caesarean section
2. Outcome of late preterm babies
3. DNA damage in perinatal asphyxia
4. Chromosome breakage in Down’s syndrome

Ongoing
1. Therapeutic hypothermia in perinatal asphyxia.
2. Therapeutic hypothermia on oxidative stress among term neonates with Hypoxic Ischemic Encephalopathy.
3. Inflammatory mediators as markers of infection and predictors of Outcome in Perinatal Asphyxia
4. Probiotics therapy for prevention of Necrotising Enterocolitis (NEC) in preterm infants – a randomized controlled trial
5. Oxidative stress and antioxidant status in neonates born to pre eclamptic mothers and their effect on early neonatal outcome.
6. Postnatal counseling on exclusive breast feeding using video
7. Effect of therapeutic hypothermia on DNA damage in term neonates with perinatal asphyxia.

Collaborative Projects
Dr. Bhat BV is co-guide for inter-departmental research project with the department of Anatomy.
1. DNA Damage in Phototherapy.
2. DNA Damage in neural tube defects
3. Immunoglobulin level in Down’s syndrome

JIPMER 2010-2011 / 428
4. Oxidative stress in Down’s syndrome
5. Chromosomal breakdown in Down’s syndrome
6. Oxidative stress in perinatal asphyxia

PUBLICATIONS

JIPMER 2010-2011 / 429


A. Chapters in Books

Dr. B. Vishnu Bhat


JIPMER 2010-2011 / 430


PATIENT CARE SERVICES
A. Clinical
1. Average daily deliveries:
   Total: 50
   Instrumental: 15
   Caesarian Sections: 10
2. Average daily admissions to NICU: 10
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 Paediatrics).

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS
Dr. B. Vishnu Bhat
1. Editor - Current Paediatric 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. Secretary, NTTC Alumni Association

Dr. B. Adhisivam
1. Treasurer of JIPMER Alumni Association

Teaching facilities

<table>
<thead>
<tr>
<th>Number</th>
<th>Seating capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seminar Rooms (Common to Paediatrics)</td>
<td>1</td>
</tr>
</tbody>
</table>

JIPMER 2010-2011 / 431
Audiovisual Aids:
   Computer with internet and LCD Projector – 1 No.
   Overhead Projector – 1 No.
   Writing Board – 2 Nos.

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
- Conducted annual conference of the National Neonatology Forum – Tamil Nadu state branch at JIPMER in November, 2010
- Conducted two workshops of 3 days each for nurses on essential newborn care.
- Awards won by Junior Residents in the department

In JIPMER NEOCON 201, a total of 21 free scientific papers (6 oral and 15 posters) were presented. The Department of Pediatrics, JIPMER presented 6 and shared 1 with the Department of Anatomy. Out of the 4 prizes, 3 were bagged by the Residents from the Department of Pediatrics, JIPMER as follows.

<table>
<thead>
<tr>
<th>Prize</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral – I</td>
<td>Immediate outcome of late preterm babies</td>
<td>Femitha P, Vishnu BV</td>
</tr>
<tr>
<td>Oral – II</td>
<td>Therapeutic Hypothermia for Term Neonates with Perinatal Asphyxia</td>
<td>Shruthi K Bharadwaj, Vishnu BV</td>
</tr>
<tr>
<td>Poster – II</td>
<td>Non-Protein Nitrogenous Substances in Cord Blood and Urine of Healthy and Asphyxiated Babies</td>
<td>Chacko J, Bhat BV, Sridhar MJ.</td>
</tr>
</tbody>
</table>
9.5 Transfusion Medicine

Additional Medical Superintendent
S.P. Subbiah

Assistant Professor
Pratul Sinha

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 blood units per annum. HIV testing and HCV testing of blood donors were started in the year 1988 and 2000 respectively. Plateletpheresis and plasma exchange programme using cell separator is running successfully since 2002.

Department of Transfusion Medicine was created in February’ 2009. Post Graduate Course (MD in Immunohaematology and blood transfusion) is offered from the Academic year 2009-2010 with an intake of one student per annum and two students are undergoing 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.

Autologous stem cell therapy will be made available shortly.

More than 50 voluntary blood donation camps are conducted per annum and nearly 85% of the total collection is from voluntary blood donors. Present annual turnover is about 12,000 units of blood and 98% of total collection is separated into blood components such as PRBC, FFP, Platelets and Cryo. Advanced procedures such as plasma exchange, Plateletpheresis, Leucopheresis etc are being carried out in good numbers.

EDUCATIONAL COURSES

A. Undergraduate Courses
   Training of M.B.B.S, B.Sc M.L.T, B.Sc. Nursing and BMRT students

B. Postgraduate Course
   MD Immunohaematology and blood transfusion

CONTINUING MEDICAL EDUCATION PROGRAMS

Dr. SP. Subbiah gave a talk on Blood donation in Surya FM Radio, Rainbow FM and Community FM on 14th June’ 2010.

CONFERENCES

• Dr. SP. Subbiah chaired session on investigation of bleeding disorders on 17th March’ 2011 at JIPMER.
• Dr. Mohandoss. M, II yr PG, Mr. Rajish Ramanath, Technical Assistant attended workshop on Advanced Immunohaematology at Hyderabad on 9 & 10 September 2010.

• Dr. Mohandoss. M, II yr PG, Mr. Rajish Ramanath, Technical Assistant attended TRANSCON 2010 conference at Hyderabad on 11-13 September 2010.

RESEARCH PROJECTS

Ongoing

• Blood transfusion practice in Obstetrics at tertiary care hospital.
  Guide: Dr. S. Soundhararaghavan, Prof., Dept. of Obstetrics and Gynaecology, JIPMER.
  Coguide: Dr. SP. Subbiah, Head, Dept. of Transfusion Medicine, JIPMER.

• Frequencies of Rh and Irregular antibodies among pregnant women and its implications.
  Guide: Dr. S. Soundhararaghavan, Prof., Dept. of Obstetrics and Gynaecology, JIPMER.
  Coguide: Dr. SP. Subbiah, Head, Dept. of Transfusion Medicine, JIPMER.

Departmental Projects

Ongoing

• Autologous platelet concentrates injection for accelerating bone union in delayed union.

• Efficacy of Autologous platelet-rich fibrin (PRF) over moist sterile saline dressing in chronic trophic ulcers in Hansen’s disease patients-a Randomized Control Trial.

PATIENT CARE SERVICES

A. Clinical

1. Plasma Exchange 0009
   Issues
   PRBC 9872
   2. FFP 9819
      Random Donor Platelets 6764
      Cryoprecipitate 0400
   3. Single Donor Platelets 0033

B. Laboratory

1. Blood Grouping, Rh typing 45699
2. Compatibility testing 11697
3. In-direct Antiglobulin Test 01286
4. Direct Antiglobulin Test 00680
5. Irregular Antibody screening 15210
6. Investigation of auto immunohaemolytic anemia 00520
7. Transfusion Reaction 00041
AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

50 Voluntary Blood Donation Camps were organized with the help of voluntary agencies. More than 85% 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

The department organizes frequent programs for creating awareness towards blood donation in the general public and honoring our blood donors and camp organizers. In this connection, the following programs were organized in 2010-2011.

a. Blood donation awareness umbrella rally on 26.11.2010 at 09:30 am. The rally will proceed from Gandhi statue, Puducherry beach to Kamban kalai arangam. About 150 students participated in the rally holding red umbrellas. It was given vide coverage by print and visual medias.

b. To celebrate world youth day a voluntary blood donation camp was organized on 09.01.2011 at blood bank, JIPMER.

c. As part of month long celebration of world youth day a Quiz competition was organized on blood transfusion for nursing students on 25.01.2011 at JIPMER auditorium. 30 students from 10 nursing colleges from Puducherry participated. The prizes were awarded to the winners by Dr. K.S.V.K. Subba Rao, Director, JIPMER.

d. For honoring women and to create awareness about Blood donation especially among women, we held a mega voluntary blood donation Camp on 08.03.2011 at blood bank, JIPMER.

Column Agglutination Technology based semi automated gel card equipment was procured for the department. This technology allows for a more sensitive method for detection of alloimmune antibodies and subgroup detection.
10. College of Nursing

<table>
<thead>
<tr>
<th>Principal</th>
<th>S. Revathi</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vice Principal</td>
<td>Kumari, M.J.</td>
</tr>
<tr>
<td>Lecturers</td>
<td>R.S. Ramesh, Manju Dhandapani, R. Lakshmi, Padmavathi Nagarajan, D. Vetriselvi</td>
</tr>
</tbody>
</table>

**BACKGROUND INFORMATION OF THE DEPARTMENT**

College of Nursing, JIPMER was started on 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-year undergraduate B.Sc. Nursing degree course. The college aims to prepare nursing graduates to assure responsibilities as professionally competent nurse and midwife in providing holistic care. Students are provided with classroom 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 multispecialty hospital spread over 195 acres with 1628 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 a computer lab with 15 internet connections. Residential facilities in the hostel are excellent for ideal development of students. After completion of four-year degree course, JIPMER offers one year optional internship programme which is equivalent to one year clinical experience.

**EDUCATIONAL COURSES**

**Undergraduate courses**

- Four-year B.Sc. Nursing course was started in August 2006 with an annual intake of 75 students.

**CONTINUING NURSING EDUCATION PROGRAMME**

- Nine nursing faculty members of College of Nursing, JIPMER have been trained as GFATM Trainers by INC. From April 2010 to March 2011, fourteen workshops have been organized and 424 staff nurses have been trained.
- Staff Development Programmes at College of Nursing have been organized for Faculty members on all third Thursday's afternoon in which one faculty member presents a topic on current issues in nursing.
• Dr. Mrs. S. Revathi, Principal, College of Nursing presented a paper on Prevention and Management of Epidemics after Disasters in a National Workshop on “Disasters and Mass Casualty – A Challenge to Health Professionals” conducted by AL Shifa College of Nursing, Perintalmanna, Kerala on 07.04.2011 and 08.04.2011

• Mrs. R. Lakshmi, Lecturer presented a paper on “Multi parameters – monitor used in ICU” in continuing nursing education programme organized by Sabari College of Nursing, Puducherry on 6.04.2011.

CONFERENCES

Dr. S. Revathi

• Was a member of the scientific committee to scrutinize the Research abstracts for 8th National Conference conducted by Society of Midwives India, Puducherry Chapter held from 12.11.10 to 14.11.10.

• Attended the CME Programme on “Current Management of Early and Locally Advanced Breast Cancer” organized by Regional Cancer Centre, JIPMER on 8th August 2010.

• Has attended the cross learning workshop for the GFATM Trainers of South Zone at Manipal College of Nursing, Mangalore on 4th and 5th September 2010 conducted by Indian Nursing Council.

• Attended the 8th National Conference of Society of Midwives India as a Resource person and also presented a Paper on “BMI and knowledge on obesity among the Adolescents”, and chaired a session on “From pregnancy to post partum women’s entitlement – Midwives” during conference held at Puducherry from 12.11.10 to 14.11.10.

• Attended “Orientation Programme on Revised Module on GFATM at CMC, Vellore from 1.12.10 to 3.12.10

• Attended the National Seminar on “Nursing and Midwifery Regulations for Education and Practice: Trends and Issues” at NIHFW, New Delhi which was organized by Indian Nursing Council, New Delhi from 13.12.10 to 14.12.10.

• Attended a Workshop on Roles and Responsibilities of GFATM staff from 29th January to 30th January 2011 at Visakhapatnam organized by Indian Nursing Council, New Delhi.

Mrs. M.J. Kumari

• Attended the CME Programme on “Current Management of Early and Locally Advanced Breast Cancer” organized by Regional Cancer Centre, JIPMER on 8th August 2010.

• Attended a CME Programme on “Nursing Care in Oncology” organized by Regional Cancer Centre, JIPMER on 4.4.10.

• Attended the 8th National conference of society of Midwives India and presented a paper on “A study to assess the practice of women during menstruation” and facilitated a session during the conference held at Puducherry from 12.11.10 to 14.11.10.
• Presented a paper on “A-Z of Best Practice to prevent diabetic Foot Ulcer” in 3rd International Nursing Conference on Quality Assurance in Nursing 2010” at Apollo College of Nursing, Chennai on 17th and 18th December 2010.

• Attended “Orientation Program on Revised Module on GFATM at CMC, Vellore from 20.12.10 to 22.12.10.

Mr. R. S. Ramesh

• Attended a CME Programme on Head and Neck Cancers conducted by Regional Cancer Centre, JIPMER, Puducherry on 14.11.10.

• Attended training on “Public Health Nutrition” in NIHFW, New Delhi from 10th January to 14th January 2011.

• Attended State Conference on “Standards and Pathways for Professional Excellence in Nursing Education” at College of Nursing, Pondicherry Institute of Medical Sciences, Puducherry on 21.2.2011.

• Attended “Orientation Program on Revised Module on GFATM at CMC, Vellore from 20.12.10 to 22.12.10.

Mrs. Manju Dhandapani

• Attended a workshop on Global Funding for the fight against AIDS, TB and Malaria from 26.4.2010 to 30.04.2010 at College of Nursing, CMCH, Vellore organized by Indian Nursing Council, New Delhi.

• Attended a GFATM sponsored Workshop as a Resource Person at CMC Vellore on 15th and 16th July 2010.

Mrs. Lakshmi. R

• Presented a paper on “Patient Record System” in the State level Conference organized by Padmashree Institute of Nursing, Bangalore on 26.11.10.

• Participated and presented a paper on “Effectiveness of Normal saline Vs Tap water in irrigation of chronic wounds” in the 7th Internal Nurses Conference conducted at Sri Ramachandra University from 3rd to 5th January, 2011.

Mrs. Padmavathi Nagarajan

• Attended “Orientation Programme on Revised Module on GFATM at CMC Vellore from 4.1.11 to 7.1.11.

• Attended the 24th GFATM Workshop for Training of Nurses under GFATM project at College of Nursing, Madurai from 11.3.11 to 12.3.11 as a Resource Person.

Mrs. D. Vetriselvi

• Attended the workshop on “Essential New Born Nursing” as facilitator held at College of Nursing, JIPMER, Puducherry on 20.11.10.
• Attended the cross learning workshop for the GFATM Trainers of South Zone at Manipal College of Nursing, Mangalore on 4th and 5th September 2010 conducted by Indian Nursing Council.
• Attended “Orientation Programme on Revised Module on GFATM at CMC, Vellore from 1.12.10 to 3.12.10.

PUBLICATIONS
• Kumari MJ. Make the weight go away. Nightingale Nursing Times 2010; 6(5): 57
• Kumari MJ. Smile Please. Journal of Nursing Perspectives 2011; 1(2): 11-14

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS
• Dr. Mrs. S. Revathi, received Certification of Appreciation for Outstanding Training skills in the training program of HIV/AIDS and ART Training for nurses under GFATM-7 from Indian Nursing Council New Delhi.
• Mrs. D. Vetri Selvi received Certification of Appreciation for Outstanding Training skills in the training program of HIV/AIDS and ART Training for nurses under GFATM-7 from Indian Nursing Council, New Delhi.

Membership in Professional Associations
1. Dr. Mrs. S. Revathi is a member in Sigma Theta Tau International, University of Wisconsin, Oshkosh, USA
2. Dr. Mrs. S. Revathi Mrs. M.J.Kumari, Mr. R.S. Ramesh, Mrs. Lakshmi. R, Mrs. Padmavathi Nagarajan and Mrs. D. Vetri Selvi are members in Trained Nurses Association of India.
3. Society of Midwives India, Puducherry Chapter
   Dr. Mrs. S. Revathi, Mrs. Kumari. M.J and Sister Tutors Mrs. Porkodi Rabindran and Mrs. P. Bakkiyalatchimi
4. Indian Society for Psychiatry Nurses
   Mrs. D. Veni – Sister Tutor
5. Red Cross Society of India, Puducherry branch
   Mr. R.S. Ramesh – Lecturer

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS
Ph.D. Guideship
• Dr. Mrs. S. Revathi, has been recognized as Ph.D. guide under Ph.D. Consortium conducted by Indian Nursing Council in collaboration with Rajiv Gandhi University, Bangalore and currently guiding five students.
• Dr. Mrs. S. Revathi, has attended proposal defence for three Ph.D., candidates at CMC, Vellore which is one of the Ph.D., Study centres under Indian Nursing Council Ph.D. consortium on 30th November 2010.
Examinership

- Dr. Mrs. S. Revathi went as External Examiner for M.Sc. (N) Nursing education practical examination at Sri Ramachandra University, Chennai from 12.04.10 to 14.4.10.
- Dr. Mrs. S. Revathi went as External Examiner for M.Sc. (N) Dissertation valuation on 19.04.10 at M.A. Chidambaram College of Nursing, Chennai under Tamilnadu Dr. MGR Medical University.
- Dr. Mrs. S. Revathi went as External Examiner for M.Sc. Nursing Practical examination for Dissertation valuation and Nursing Education on 20.04.10 and 21.04.10 at Dr. G. Sakunthala College of Nursing, Trichy under Tamilnadu Dr. MGR Medical University.
- Dr. Mrs. S. Revathi went as External Examinership for practical examination of M.Sc. Nursing conducted by Dr. MGR Medical University from 4.10.10 to 5.10.10 at Dhanvantri College of Nursing, Erode and Shannmuga College of Nursing, Salem.
- Dr. Mrs. S. Revathi evaluated Ph.D. thesis and conducted a Ph.D. Public Viva Voce under the Tamilnadu Dr. MGR Medical University, Chennai on 15.11.10.
- Dr. Mrs. S. Revathi attended Viva Voce examination of Ph.D. student Ms. J.J. Nalini at Sri Ramachandra University, Chennai on 20.1.11 as her Research Advisory Committee member.
- Mrs. M.J. Kumari, went as a External Examiner for M.Sc. Nursing students under the Tamil Nadu Dr. M.G.R. Medical University at college of nursing, Madras Medical College, Chennai from 7th-10th of October 2010 and Vivekanandha College of Nursing, Tiruchengodu on 5th and 6th April 2011.
- Mrs. R. Lakshmi went as External Examiner for B.Sc. (N) III year Medical Surgical Nursing – II at All India Institute of Medical Sciences, New Delhi in May 2010.

Membership in Research Committee

- Dr. Mrs. S. Revathi is recognized as Advisory Research Committee member for guiding two Ph.D. students in Nursing under Sri Ramachandra University, Chennai.

Others

- Mr. R.S. Ramesh, Lecturer was sponsored as External monitor for IPPI Round II from 27th February to 1st March 2011 by JIPMER

SIGNIFICANT EVENTS IN THE DEPARTMENT

- The Indian Nursing Council has sanctioned a sum of Rs.10 Lakhs under GFATM Project to refurbish GFATM classroom at College of Nursing, hostel including A/C installation, library furniture. Two guest rooms in the hostel have been air conditioned to accommodate GFATM workshop External Resource Persons.
- The GFATM class room after refurbishment was formally inaugurated by Dr. K.S.V.K. Subba Rao, Director, JIPMER on 14th February 2011.
- World Health Day was celebrated at College of Nursing, JIPMER on 07.04.10.
- B.Sc. (N) students, JIPMER won 2nd prize in the Inter College Quiz competition conducted by College of Nursing, PIMS, Puducherry as part of the WHO day event.
• International Nurses Day 2010 was celebrated at College of Nursing, JIPMER on 12th May 2010. The principal, college of Nursing, Nursing faculties, and B.Sc. Nursing students attended the programme. Speech was given by principal and students on the theme – Delivering Quality, Serving Communities: Nurses Leading Chronic Care.

• Mass Health Education Programme on Hypertension has been organized by B.Sc. (Nursing) VI semester students on 14th May 2010 at Kurusukuppam, Urban Health Centre, JIPMER, Puducherry.

• B.Sc. (N) Students participated in Breast Feeding Week celebration organized by the Department of Paediatrics, JIPMER and participated in the Rally on awareness of Breast Feeding and Quiz competition on 6th August 2010.

• World Mental Health Day was celebrated at College of Nursing, JIPMER on 8th October 2010. Quiz, poster and elocution competitions have been conducted based on the theme “Mental Health and chronic physical illness - the need for continued and integrated care”.

• The Lamp Lighting ceremony of the 5th batch of College of Nursing was held on 1.11.2010 in JIPMER Auditorium. 75 B.Sc. Nursing students dedicated themselves to the nursing profession and recited the Nightingale’s pledge to uphold the values of the profession along with Principal. Dr. Mrs. G. Josphine R Little Flower, Registrar, Tamilnadu nurses & midwives council, Chennai was the Chief guest of the program.

• Students Nurses Association (SNA) unit under Trained Nurses Association of India, New Delhi was formulated for which Mrs. Lakshmi Ramamoorthy, Lecturer was nominated as Advisor in November 2010 by the Principal.

• B.Sc. (N) students along with the faculty have participated in the Diabetes walk in World Diabetes Day on 15th November 2010 conducted by the Department of Diabetology, JIPMER and also in blood donation awareness camp on 26th November 2010 which had been organized by Department of Transfusion Medicine, JIPMER.

• World Tuberculosis Day 2011 was observed on 23rd March 2011 at College of Nursing, JIPMER. Dr. K.V. Raman, State Tuberculosis Control Officer, Puducherry gave speech on RNTCP and nurses’ role. Quiz competition and poster competition have been conducted among II, III & IV year students. II year B.Sc. (N) students conducted Mass Health Education Programme on Tuberculosis at Medicine OPD (Male and Female) and Surgery OPD (Male and Female). Nearly 500 patients were benefited by this health education programme.

• Students Nurses Association celebrated Christmas on 24th December 2010 and Pongal festival on 14th January 2011 at College of Nursing.

• Students Nurses Association of JIPMER organized awareness programme on “Cutting Global Warming” on 5th February 2011 at College of Nursing. Principal gave a speech on Global Warming. Plantation was done inside the JIPMER campus and a rally was conducted as part of the programme by the B.Sc. Nursing students.

• Faculty of VIII semester B.Sc. (N) and students organized 100th International Women’s Day celebration on 8th March 2011 at Obstetrics and Gynecology Ward, JIPMER. Quiz competition has been conducted among mothers and distributed prizes for winners. B.Sc. Nursing VIII semester students performed role play and gave speech on “Equal Education and Right to Women”.

JIPMER 2010-2011 / 441
11. Central Facilities

11.1 Advanced Centre for Yoga Therapy, Education & Research (ACYTER)

Programme Director & Professor
Madanmohan Trakroo

Programme Co-ordinator
Ananda Balayogi Bhavanani

BACKGROUND INFORMATION

The Advanced Centre for Yoga Therapy Education and Research (ACYTER), a collaborative venture between JIPMER, Puducherry and Morarji Desai National Institute of Yoga (MDNIY), New Delhi was established by MOU between JIPMER and MDNIY on 7 June 2008. This advanced centre will focus primarily on the role of yoga in the prevention and management of cardiovascular disorders and diabetes mellitus.

The aims and objectives are

- To bridge the gap between yoga and modern medicine
- To introduce yoga in medical curriculum and facilitate an awareness of the therapeutic potential of yoga amongst the medical professionals
- To provide quality yoga and lifestyle consultation and standardized yoga therapy to patients of JIPMER
- To conduct collaborative research projects with MDNIY
- To conduct seminars, workshops, symposia and conferences
- To standardize yoga techniques and procedures
- To conduct yoga classes for JIPMER staff, students and general public
- To create an awareness about the art and science of yoga amongst the people of Pondicherry and surrounding regions

PATIENT CARE SERVICES

Yoga therapy OPD is functioning in Super Specialty Block of JIPMER. Yoga therapy and lifestyle consultation is given by Dr. Ananda Balayogi Bhavanani, Programme co-ordinator and Dr. Zeena Sanjay, SRF from 10 AM to 1 PM on Monday, Wednesday and Friday and 10 AM to 4 PM on Tuesday and Thursday.

Group and individual Yoga therapy sessions for diabetes, cardiovascular diseases and other conditions are being conducted every day from 10 AM to 1 PM and 3 to 4.30 PM in the ACYTER Yoga Hall situated in 3rd floor of institute block. The sessions are supervised by Sri E Jayasettiaaseelon, SRF.
5250 patients of various psychosomatic ailments includes diabetes mellitus, hypertension, musculoskeletal disorders, respiratory disorders, stress and psychological disorders, endocrine disorders, coronary artery disease, urology, gynecological disorders and ENT disorders attended consultations and therapy sessions in 2010 while 2328 patients had benefited in 2009 & 5488 patients in 2011 till date.

A senior citizen clinic is being conducted every Thursday from 11 AM to 12 noon and Mrs. Meena Ramanathan, Guest faculty is conducting the special sessions that have been well appreciated by the senior citizens of Pondicherry. 373 participants attended these sessions in 2010 while 222 senior citizens had benefited in 2009.

Regular yoga classes are being conducted from 6.30 to 7.30 AM and 4.30 to 5.30 PM on Monday, Wednesday and Friday at the ACYTER Yoga Hall situated in 3rd floor of institute block. The Yoga Institutors, Sri G Dayanidy and Selvi L Vithiyalakshmi are conducting the classes for JIPMER staff, students and their family members on a regular basis and 866 participants attended these sessions in 2010 while 157 attended in 2009.

CONTINUING MEDICAL EDUCATION PROGRAMME

- ACYTER conducted National workshop – cum seminar on Role of yoga in prevention & management of diabetes mellitus, organized at JIPMER on March 1&2, 2011. Released proceedings of previous workshop – “National workshop cum seminar on role of yoga in prevention and management of hypertension”. Also released Tamil books on “yogic management for diabetes Mellitus”, “yogic management in cardio vascular disorders” and also released a booklet on “normal healthy diet”.

Dr. Madanmohan

- One month Foundation Course in yoga for Medical and Paramedical Professionals and Students was conducted at JIPMER from 18 October to 20 November 2010. 63 medical doctors, paramedical professionals, students and staff members of JIPMER participated in the training programme. The theory lectures were conducted in Bernard Theatre and practice sessions in the auditorium of the Nursing College.

- Attended the CME on Physiological Effects of Yoga, organized by Department of Physiology, Sri Satya Sai Medical College and Research Institute, near Chennai on January 17, 2011 and presented an overview of “Yoga and Physiology”.

- Invited to give talks and workshops during the Golden Jubilee National Seminar cum Workshop cum on “Role of Yoga in Respiratory Tract Disorders” on January 20-21, 2011. The event was organized by the Advanced Centre for Yoga Education and Research, Gujarat Ayurved University, Jamnagar and MDNIY, New Delhi.

- Attended the yoga week conducted at MDNIY New Delhi on February 12-18 2011 and chaired the academic sessions and gave a talk at the valedictory function of yoga week.

- Conducted a workshop on yoga at Kasturba Medical College at Manipal in March 2011.

JIPMER 2010-2011 / 443
Dr Ananda Balayogi

- Invited to present a lecture on “Yoga for women” in the 8th National Conference hosted by Puducherry Chapter of Society of Midwives on 13 November 2010.

- Invited to present a lecture on “Principles & Practice of Yoga Therapy for Geriatric Psychiatric Disorders” in the one day workshop on “Yoga Therapy for Psychiatric Disorders” held at the Advanced Centre for Yoga, NIMHANS, Bangalore on 5 December 2010. The event was organized jointly by the Advanced Centre and Morarji Desai National Institute of Yoga, New Delhi.

- Participated in the 18th International Yoga Festival Conducted by the Government of Pondicherry from 4-7 January 2011.

- Attended the CME on Physiological Effects of Yoga, organized by Department of Physiology, Sri Satya Sai Medical College and Research Institute, near Chennai on January 17, 2011 and gave a talk on “Therapeutic Potential of Yoga”.

- Invited to give talks and workshops during the Golden Jubilee National Seminar cum Workshop cum on “Role of Yoga in Respiratory Tract Disorders” on January 20-21, 2011. The event was organized by the Advanced Centre for Yoga Education and Research, Gujarat Ayurved University, Jamnagar and MDNIY, New Delhi.

- Attended the yoga week conducted at MDNIY New Delhi and gave invited talk on “Yoga for general well being” on February 12-18 2011.

RESEARCH PROJECTS

Completed

Pilot studies

- Immediate effect of sukha pranayama on heart rate and blood pressure of patients with hypertension
- Immediate cardiovascular effects of kaya kriya in normal healthy volunteers
- Immediate effect of shavasana and savitri pranayama on heart rate and blood pressure of hypertensive patients
- Immediate effect of chandra nadi pranayama on heart rate and blood pressure of hypertensive patients
- Immediate cardiovascular effects of shavasana and pranava pranayama on heart rate and blood pressure of hypertensive patients
- Immediate effects of yoga nidra on heart rate and blood pressure
- Immediate effect of yoga practices on blood pressure

Case studies

- Effect of yoga on subclinical hypothyrodism
- Effect of yoga in newly diagnosed hypertension
- Effect of yoga in a patient of long standing diabetes and hypertension
- Case report on COAD in an adult
- Case report on bronchial asthma in a 4 year old child

JIPMER 2010-2011 / 444
**Ongoing**

- Effect of Yoga therapy on patients of type II diabetes mellitus with neuropathy” plans to investigate the physiological, bio-chemical, psychological and clinical effects of 6 months yoga therapy in patients of diabetes mellitus with neuropathy – Dr. Madanmohan

- Effect of yoga therapy on autonomic function and biochemical profile of patients of essential hypertension” plans to investigate the autonomic and biochemical effects of 6 months yoga therapy in patients of essential hypertension – Dr. Madanmohan

**Ph.D. Theses**

- Effect of yoga therapy on cardiac autonomic functions and oxidative stress in prehypertensive subjects: a randomized controlled study.

- Effect of yoga therapy on cardiac function, response to exercise, oxidative stress and quality of life in heart failure patients: a randomized controlled trial.

**MD Dissertations**

- 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.

- Effect of yoga therapy on cardiac autonomic function in patients of essential hypertension – A randomized controlled study.

- Effects of slow and fast pranayams on pulmonary function, handgrip strength and endurance in young healthy volunteers – A randomized controlled trial.

- Effect of yoga training on autonomic functions and reaction time in young healthy females during different phases of menstrual cycle.

**M.Sc. Dissertations**

1. Effect of yoga training on heart rate, blood pressure and lipid profile of patients with essential hypertension.

2. Effect of yoga training on reaction time, blood glucose and lipid profile and of female diabetes mellitus patients.

3. Effect of yogic training on physical and biochemical variables of type 2 diabetes mellitus patients.

**Other research projects**

1. Effect of yoga therapy on autonomic function and biochemical profile of patients of essential hypertension.

2. Effect of yoga therapy on patients of type II diabetes mellitus with neuropathy.

3. Effect of mid trimester yoga on the incidence of preeclampsia in high risk women.


*JIPMER 2010-2011 / 445*
5. Effect of slow and fast pranayams on cognitive and autonomic parameters in young healthy subjects.

6. Effect of yoga therapy on relationship among cardiac autonomic functions, endothelial functions, oxidative stress parameters and eNOS gene polymorphism in prehypertensive subjects.

SIGNIFICANT EVENTS

• A delegation of yoga teachers from Italy visited ACYTER on 11\textsuperscript{th} December and expressed their admiration for the programme and its activities. They were especially appreciative that Indian Government was bringing Yoga into the mainstream health care system through advanced centers at JIPMER, NIMHANS, DIPAS, Gujarat Ayurveda University & at Government Medical College, Jammu.

• Staff of ACYTER also participated in the 18\textsuperscript{th} International Yoga Festival Conducted by the Government of Pondicherry from 4-7 January 2011. Invited talks were given by Dr Ananda Balayogi, Programme Coordinator ACYTER and free consultation on yoga and healthy living was provided to 102 delegates and members of the public in the ACYTER stall.

• Sri G Dayanidy, Yoga Instructor ACYTER won first place in the 25-35 age category and was selected to participate in the Final Championship Round at 18\textsuperscript{th} International Yoga Festival Conducted by the Government of Pondicherry from 4-7 January 2011.

• Staff of ACYTER presented talks and lecture demonstrations during the CME on Physiological Effects of Yoga, organized by Department of Physiology, Sri Satya Sai Medical College and Research Institute, near Chennai on January 17, 2011. Dr Zeena Sanjay gave a talk on “Yoga research” that also highlighted the activities of ACYTER, while Sri G Dayanidy gave a spectacular demonstration of various Yoga Asanas with commentary by Dr Ananda.

• As part of the pre-hypertension research project, yoga therapy sessions are being conducted for staff members of Kendriya Vidyalaya from the second week of January. Screening of the participants for pre-hypertension was done by Mr Ram Kumar, Phd Scholar, Dept of Physiology while Shri G Dayanidy is conducting the sessions on Tuesday, Thursday and Saturday from 3 – 4 PM at the school premises. All staff members have shown great interest in attending the sessions regularly.

• Started yoga therapy sessions for pregnant ladies as part of a pre–eclampsia prevention study. Screening of the patients is being done by Dr Manikandan, Asst Professor in OBG, JIPMER and Selvi L Vithiyalakshmi is conducting the yoga sessions on Tuesdays and Thursdays from 3- 4 PM at the ACYTER yoga hall.

• Other studies are being conducted at present by staff members and residents of Department of Physiology and staff of ACYTER in patients of diabetes mellitus and hypertension.
11.2 Biomedical Waste Management

Medical Superintendent & Senior Professor
A.K. Das

Additional Medical Superintendent
A. Tumbanatham

Officer-in-charge, C.M.O. (NFSG)
Betsy Methai

BACKGROUND INFORMATION OF THE DEPARTMENT

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 has 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.

4. Auto disabled (AD) syringes have been procured this year to be used in all ICU’s and Infections diseases wards.

5. All infections disposable plastic waste is treated in the Microwave disinfection device (Medister 160) and then shredded and disposed in landfills along with general waste.

STATISTICS OF THE YEAR

The quantum of biomedical waste generated in JIPMER Hospital between 2010 – 11 was 5,44,512 kgs. The quantum of Bio Medical Waste treated in the Hospital itself between 2010 – 11 was 81,936 kgs. The remaining noninfectious waste was sent to the dumping yard within the JIPMER Campus itself.

JIPMER 2010-2011 / 447
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.

3. A Medical waste shredder for shredding the disinfected plastic waste so that this waste can be sent for recycling.
11.3 Canteen

**Professor & Chairman**
R. Raveendran

**Chief Social Scientist & Secretary**
P. Rajendran

**BACKGROUND INFORMATION**

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. In 1991 the canteen was annexed as a section of JIPMER following the takeover of the same by the central government. After JIPMER was declared as an Institute of National Importance, the Canteen renamed “JIPMER Departmental Canteen” in 2005.

**Administrative Hierarchy**

The Canteen is managed by the Canteen Management Committee consisting of the Director, JIPMER as its Parton, 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. Raveendran, professor of Pharmacology</td>
<td>Chairman</td>
</tr>
<tr>
<td>Shri P. Rajendran, Sr., Chief Social Scientist</td>
<td>Secretary</td>
</tr>
<tr>
<td>Shri M. Krishna Rao, Law officer</td>
<td>Joint Secretary</td>
</tr>
<tr>
<td>Shri M. Balasubramanian, Lab Attendant</td>
<td>Member</td>
</tr>
<tr>
<td>Dr. Gopal K Pal, Professor of Physiology</td>
<td>Member</td>
</tr>
<tr>
<td>Shri S. Gandhirajan</td>
<td>Member</td>
</tr>
<tr>
<td>Shri S. Kandasamy, scientist II</td>
<td>Member</td>
</tr>
<tr>
<td>Shri L. Outchadeven, Manager, canteen</td>
<td>Member</td>
</tr>
<tr>
<td>Shri M. Pannerselvam</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>

**STAFF PATTERN**

The Day-to-day working of the Canteen is currently managed by a fourteen members team consisting of manager, Clerks, Halwai, bearers, coffee-tea makers and cleaners. Out of the 19 sanctioned posts, 14 are filled. In place of vacant posts with 4 coolies are being sanctioned.
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 eatable is carried out. In the super Specialty block, an AC canteen is functioning to serve snacks and drinks. A bunk located near main the main gate also caters the needs of the employees. The canteen also provided training to 22 internship Students of Dietetics. 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</td>
</tr>
<tr>
<td></td>
<td>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</td>
</tr>
<tr>
<td></td>
<td>Hot and cold drinks, snacks, ice creams</td>
</tr>
<tr>
<td>Bunk</td>
<td>7 AM to 5:30 PM</td>
</tr>
<tr>
<td></td>
<td>Packed breakfast and lunch, hot and cold</td>
</tr>
<tr>
<td></td>
<td>Drinks, snacks, ice creams</td>
</tr>
</tbody>
</table>

Canteen 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 other 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. The canteen is proposed to be upgraded to “4A type” canteen which will get additional sanction of 15 various posts to enable the canteen to provide services at par with fast expansion of JIPMER. A building for a new canteen with Ac dining halls has been proposed. A separate production units is being planned. For centralised production 4 Cooks on contract basis is sanctioned.
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 01.04.2010 was:
- Mice: 350
- Rats: 150
- Guinea Pig: 29
- Rabbits: 67

The closing stock as on 31.03.2011 was:
- Mice: 360
- Rats: 300
- Guinea Pig: 30
- Rabbits: 55

A total of 703 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>SNo.</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>92</td>
<td>241</td>
</tr>
<tr>
<td>2.</td>
<td>Mice</td>
<td>293</td>
<td>6</td>
</tr>
<tr>
<td>3.</td>
<td>Rabbits</td>
<td>50</td>
<td>–</td>
</tr>
<tr>
<td>4.</td>
<td>Guinea Pig</td>
<td>21</td>
<td>–</td>
</tr>
</tbody>
</table>

The facility housed 7 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

JIPMER 2010-2011 / 451
11.5 Central Library

Professor of Biometrics & Faculty-in-charge
Ajit Sahai (Till 05/10/2010)

Assistant Professor of Educational Technology & Officer-in-charge
Z. Zayapragassarazan (From 12/10/2010)

Assistant Library and Information Officer
Kalyani Sathiyakumar (From 09/12/2010)

BACKGROUND INFORMATION
The Central Library, JIPMER was established in the year 1957 at the erstwhile Medical college Buildings at Puducherry. 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.

STAFF PATTERN
1. Library Clerks – 6 nos.
2. Library Attendants – 3 nos.

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 Senior Faculty members and Accounts Officer as members of the Committee. The Officer In-charge of Central Library is an ex-officio Member Secretary of the Library Committee.

1) Dr. K. S. Reddy, DEAN – Chairman
2) Dr. S. Srinivasan, Director Professor & HOD of Pediatrics – Member
3) Dr. S. C. Parija, Director Professor & HOD of Microbiology – Member
4) Dr. S. Soundararaghavan, Professor of Obst & Gynecology – Member
5) Dr. S. Mahadevan, Professor of Pediatrics & Prof. (Academic) – Member
6) Dr. M.G. Sridhar, Professor of Biochemistry – Member
7) Dr. Vinod Kumar, Professor & HOD of Pulmonary Medicine – Member
8) Dr. Mrs. D. Kadambari, Professor of Surgery – Member
9) Registrar (Academic) – Member
10) Accounts Officer – Member
11) Dr. Ajit Sahai (Till 05/10/2010)
    Director-Professor of Biometrics & Faculty-in-charge – Member Secretary
12) Mr. Z. Zayapragassarazan (From 12/10/2010)
    Asst. Professor of Educational Technology & Officer-in-charge of Central Library

JIPMER 2010-2011 / 452
SUB COMMITTEE ON BOOKS AND JOURNALS PROCUREMENT

1) Dr. K. S. Reddy, Dean – Chairman
2) Dr. S. C. Parija, Director Prof. & HOD of Microbiology – Member
3) Dr. S. Soundararaghavan, Prof. of Obst & Gynecology – Member
4) Dr. C. Adithan HOD, Pharmacology – Member
5) Mrs.Kalyani Sathiakumar – Member Secretary

Eligible users

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 Officer-in-Charge is also considered.

Timings & Holidays

The Working Hours of the Central Library is from 9AM to 10PM and it is open round the year except national holidays and other seven festival holidays in a year.

SERVICES

Issue Section

The issue section has 3693 books as on 31.03.2011 and are displayed in 27 shelves for issue to the eligible members of the Library

Reference Section

The reference section has 3104 books as on 31.03.2011 in the medicine and allied subjects arranged in the order of basic subjects followed by clinical subjects and super specialty subjects which are available for reference to the eligible members of the Library. The books published during the last 5 years are kept in the reference section.

Old Books Section

There are about 6343 books arranged in the rear end of the issue section in chronological sequence from 1971 to 1990 for scrutiny by the Subcommittee on condemnation of old obsolete books for disposal.

Book Bank

There is a separate Book Bank from which books are issued to the SC/ST student’s term basis through an additional membership card provided to them. About 50 students are currently availing this facility.

Current Journals and periodicals Section

269 (Two hundred and sixty nine) journals from national and international publishers was subscribed for the financial year 2010-11. They are displayed in the display racks subject-wise in alphabetical order.
WHO Publications

A separate section of WHO publications is maintained in the library. There are 2687 WHO publications available in the library and they are displayed in the racks. The Central Library subscribed to WHO Global Subscription Package for a sum of Rs. 50,000/- during the FY 2010-11. An updated catalogue book providing all the WHO publication details is available in the Library and it may be provided on request of the end users.

Thesis Section

There is a separate section for the maintenance of theses and there are about 1900 theses / dissertations arranged according to their accession number and displayed in the racks provided in the Thesis section. An updated reference book containing all the dissertations/theses is maintained in the thesis section which will be available on request by the users.

Online Journals

MD Consult an online data base published by Elsevier Science publishers, USA was procured by the Library. The cost of the database was 15,000/- US dollar [Indian Rs.6,96,600/-]. MD Consult provides Online access to standard reference books, Yearbooks, Clinics of North America Series, Full text Journal articles published by Elsevier Science publishers, USA, Practical guidelines to physicians in the treatment of several diseases, Patient handouts, Medical News and Drug Information, CME. Thus it provides common platform for accessing a variety of medical resources which are not available in other online databases. JIPMER is one of the member institutions of the e-Journal Consortium of National Medical Library (NML), New Delhi. Through NML about 250 e-Journals were accessed through online (through JIPMER IP address) free of cost.

Computer Lab & Internet services

The Central Library has a seminar hall cum computer lab with 31 computer terminals. Steps were initiated from 23-2-2010 to procure new computers with latest configuration and the process was completed on 3-3-2011 with the issue of supply order to procure 31 new computers. The computer lab with the upgraded computers was formally inaugurated by Dr. K. S. Reddy, Dean & Chairman of Library Committee on 23rd March 2011. Internet facility is available free of cost to the users during the working hours.

Audio-visual Services

The seminar hall of the Central Library has modern audio visual services including LCD projectors and sound systems which are made available for other departments to conduct Training programmes, orientation programmes, seminars, conferences and extra classes for B.Sc M.L.T., students and other UG and PG students.

The following academic programmes were conducted in the Library Seminar Hall by various departments during the financial year 2010-11.
<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Organizing Department</th>
<th>Date</th>
<th>Programme</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Nursing College</td>
<td>On all Saturdays</td>
<td>Computer Class for B.Sc., Nursing</td>
</tr>
<tr>
<td>2</td>
<td>Centre for Research</td>
<td>11.04.10</td>
<td>Workshop on “Effective Power point and Academic Presentation”</td>
</tr>
<tr>
<td></td>
<td>and Academic Facilities and Training (CRAFT)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Department of Medical Education</td>
<td>12,13,15.04.10 &amp; 16.04.10</td>
<td>PG Orientation on Research Methodology</td>
</tr>
<tr>
<td>4</td>
<td>Department of Pharmacology</td>
<td>07.06.10,14.06.10 &amp; 21.06.10</td>
<td>Practical Class for MBBS V Semester Students</td>
</tr>
<tr>
<td>5</td>
<td>Department of Pharmacology</td>
<td>20.08.10 &amp; 21.08.10</td>
<td>Seventh National Workshop on Basic Techniques in Molecular Biology &amp; Bioinformatics</td>
</tr>
</tbody>
</table>

**SIGNIFICANT EVENTS IN THE DEPARTMENT**

**Library committee Meeting**

The Library committee meeting was held on 06.08.2010 under the chairmanship of Dr.K.S. Reddy, Dean and Chairman of Library Committee. The following agenda were taken for discussion and decisions taken accordingly with the approval of the Library Committee members:

1) Restructuring of current staff position and filling up of vacant posts
2) Improve the physical infrastructure and library facilities
3) Upgradation of the utilization of computer lab with internet facility.
4) Follow up with Library Automation Proposal
5) Review the current status of books
6) Procurement of Books through Book Exhibition (2010-2011)
7) Condemnation and disposal of old books.
8) Review the current status of journals
9) Procurement of journals for the year 2011
10) Review the subscription of online journals.

**Book Fair 2010**

Books are procured for the library through book exhibition which is conducted in the month of August/September every year. The book exhibition for the financial year 2010-11 was organized from 16.09.2010 to 18.09.2010 at the Banting Hall, JIPMER. 7 nationally reputed book sellers from different states of India took part in the Book Exhibition. A total of 1550 Books were purchased for Central Library, Department Library and Book Bank for SC/ST students.

JIPMER 2010-2011 / 455
Future proposals

Two proposals covering Electrical & Civil and Air-conditioning repairs dated 11/8/2009 & 26/10/2009 were submitted to the Administration. The proposals include the following repairs and Glass partitioning in the following areas of the library:

1) Waiting hall and adjoining areas (Four Glass partitions)
2) Reference section and book counter (Four Glass Partitions) Journal section of the library. (Two Glass Partitions)
3) Basement of the library (Four glass Partitions)
4) Vinyl Flooring (four places)
5) New Air conditioners (Split A/C)

<table>
<thead>
<tr>
<th>Statistics for the Year 2010-11 (as on 31.03.2011)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Members</strong></td>
</tr>
<tr>
<td>New members</td>
</tr>
<tr>
<td>Members issued no due certificate</td>
</tr>
<tr>
<td><strong>User Statistics (Library)</strong></td>
</tr>
<tr>
<td>Faculty</td>
</tr>
<tr>
<td>SRs, JRs</td>
</tr>
<tr>
<td>Students</td>
</tr>
<tr>
<td>Staff Members</td>
</tr>
<tr>
<td>Members from other institutes</td>
</tr>
<tr>
<td>Total</td>
</tr>
<tr>
<td><strong>User Statistics (Computer Centre)</strong></td>
</tr>
<tr>
<td>Faculty</td>
</tr>
<tr>
<td>SRs, JRs</td>
</tr>
<tr>
<td>Students</td>
</tr>
<tr>
<td>Staff Members</td>
</tr>
<tr>
<td>Total</td>
</tr>
<tr>
<td><strong>Budget (in Rupees)</strong></td>
</tr>
<tr>
<td>Books</td>
</tr>
<tr>
<td>Journals</td>
</tr>
<tr>
<td>Online Subscriptions</td>
</tr>
<tr>
<td>Binding</td>
</tr>
<tr>
<td>Computers</td>
</tr>
</tbody>
</table>

JIPMER 2010-2011 / 456
<table>
<thead>
<tr>
<th>Books</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Central Library</td>
<td>605</td>
</tr>
<tr>
<td>SC/ST Book Bank</td>
<td>300</td>
</tr>
<tr>
<td>Reference books</td>
<td>3104</td>
</tr>
<tr>
<td>Books transferred to departments</td>
<td>645</td>
</tr>
<tr>
<td>Books procured</td>
<td>1550</td>
</tr>
<tr>
<td>Total no. of books condemned</td>
<td>15000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Journal Subscriptions</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Renewed</td>
<td>270</td>
</tr>
<tr>
<td>Unsubscribed</td>
<td>26</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Computer section</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Computers procured</td>
<td>31</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bound volume section</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total no. of bound volumes</td>
<td>33,700</td>
</tr>
<tr>
<td>New Bound Volumes added</td>
<td>400</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Book Fair</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of Publishers Participated</td>
<td>7</td>
</tr>
<tr>
<td>Value purchased</td>
<td>Rs. 54,67,492</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Income earned under different headings</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Overdue Penalty (Rs.)</td>
<td>Rs. 1804</td>
</tr>
<tr>
<td>Book fair entry fee (Rs.)</td>
<td>Rs. 70000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Manpower</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Assistant Library &amp; Information Officer</td>
<td>1</td>
</tr>
<tr>
<td>Library Clerks</td>
<td>7</td>
</tr>
<tr>
<td>Library Attendants</td>
<td>2</td>
</tr>
<tr>
<td>Coolies</td>
<td>5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>New facilities added</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Water coolers</td>
<td>2 Nos</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Renovation works</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Weathering course applied above the ceiling of computer Lab</td>
<td></td>
</tr>
</tbody>
</table>
11.6 Central Stores

<table>
<thead>
<tr>
<th>Officer-in-charge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rajan Swain</td>
</tr>
<tr>
<td>Stores Officer</td>
</tr>
<tr>
<td>A. Chinnapparaj</td>
</tr>
</tbody>
</table>

The Central Stores procures and issues most materials required for the hospital and institute other than medicines. The Central Stores has consists of 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.

**STAFF PATTERN**

The staffing of the Central Stores is as follows:

- Officer-in-charge – Generally a group A officer.
- Stores Officer - A group B gazetted officer.
- Stores Superintendent - A group B non-gazetted post.
- Stock Verifiers - Two posts of stock verifiers are existent.
- Storekeepers - One for each of the different sections.
- Supportive staff - Three daily rated temporary staff are employed for loading, unloading, issues, general help and sanitation.

**PERFORMANCE**

**Contingent & Sanitary stores**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total funds allocated</td>
<td>Rs. 55,00,000</td>
</tr>
<tr>
<td>Total expenditure booked</td>
<td>Rs. 58,80,000</td>
</tr>
</tbody>
</table>

**Furniture Stores**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total funds allocated</td>
<td>Rs. 60,00,000</td>
</tr>
<tr>
<td>Total expenditure booked</td>
<td>Rs. 57,20,000</td>
</tr>
</tbody>
</table>

**Condemnation Stores**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total revenues received by disposal of condemned items</td>
<td>Rs. 8,15,000</td>
</tr>
</tbody>
</table>

**Instrument Stores**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total funds allocated</td>
<td>Rs. 7,50,00,000</td>
</tr>
<tr>
<td>(Common pool for Pharmacy, CSSD and Central Stores)</td>
<td></td>
</tr>
<tr>
<td>Total expenditure booked</td>
<td>Rs. 3,97,00,000</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 surplus funds for the benefit of the Institute and the Hospital.
AUGMENTATION PLANS

- Centralization of the purchase and issue of numerous instruments, chemicals, glassware and miscellaneous items that are currently being procured by various departments.
- A modern, optimally constructed Stores Block for safe and efficient storage and issue of materials.
- Augmentation of staff for initiating the newer services.
- Procurement of motorized trolleys for transport of materials to and from the wards.
- Procurement of motorized moving equipment for stacking and moving stores items.
- Establishment of satellite stores in the Super-specialty Block and the upcoming Maternity and Child Health Blocks.
11.7 Central Workshop

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

STAFF PATTERN

(a) Work shop division
1. Senior Refrigerator Mechanic – 01 no
2. Senior carpenter – 01 no.
3. Mechanic – 01 no.
4. Refrigerator mechanic – 01 no.
5. Carpenter – 01 no.
6. Electro mechanic – 01 no.
7. Sheet metal maker – 01 no.
8. Arc gas welder – 01 no.
10. Fitter – 01 no.
11. Work shop attender – 01 no
12. Re-canner – 01 no
13. Store Keeper – 01 no.

(b) Engineering Division
1. Engineer in charge – 02 nos.
2. Junior engineer – 05 nos.

SERVICES
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.

JIPMER 2010-2011 / 461
Repair and Maintenance
The repairing of refrigerators, water coolers, deep freezer, cold room, ice machine, cold storages, trolleys, sterilizers. Geysers, wooden items, re-canning, 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, sandering machine, saw machine, etc. were kept available for day to day works of Central Workshop. The consumable and non consumable items for repairing and fabrications 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.

Engineering Division
The newly formed Engineering Division is located at Central Workshop and has undertaken the jobs allocating the works of store keeper and workshop foreman (falls vacant). In additional to these works, Engineering works of civil and electrical maintenance inside hospital are estimated and executed as and when instructed by the Director, JIPMER.

STATISTICS
About 5000 repairing works were done in the year 2010-2011 in the central workshop of JIPMER.

Engineering division work (Electrical)
1. Replacement of Tube lights by Energy Savings lights in selective two rooms at Special Wards (AC deluxe) JIPMER
2. Provision of 5 New Water purifiers in ADMIN Block JIPMER
3. Replacement defective 11W CFL fittings- Provision of flood light fitting, Exhaust fans in EMSD at JIPMER, Puducherry
4. Replacement of damaged Air curtain, provision of insulations to chilled water pipes (out side) and alignment of defective fall ceiling. At EMSD, JIPMER.
5. Replacement of Worn - out /Damaged of tube light fittings at Passage from Pharmacy Block to EMSD, Kitchen, Central Stores-JIPMER
7. Provision of 7 nos. of New Water purifiers in (AC, special ward, Ramanthapuram, CWS, Driver chamber, Director, Kurichkuppam)-JIPMER

JIPMER 2010-2011 / 462
8. Laying New Telephone Lines for Auditorium and KV school
9. Repairs to the non functioning of 8 nos. of defective Air Curtains in EMSD and installed in good condition
10. Renovation of Board Room Public Addressing Systems
11. Provision of New Water purifier in Dean Office, JIPMER
12. Renovation of Institute Council Room Public Addressing Systems
13. Comprehensive repairs and improvements done in ward B21 & 22
14. Provision of new Air Curtains at Injection store and Medicine rooms at Pharmacy - JIPMER

**Engineering division work (Civil)**

1. Urgent repairs and improvement to Central workshop, including reconstruction of approach road, replacing barbed wire fencing with compound wall etc at JIPMER in Puducherry. Status: administrative approval waited.
2. Comprehensive repairs and improvements to special wards B21 and B 22 and service shaft near toilet care. Status: work nearing completion
3. Replacing the damaged hydraulic door closer floor door stopper and windows curtain rods with new one at AC Deluxe wards. Status: Work Completed
4. Providing and fixing one number detachable MS grill fencing at staff car parking bay at Admin block Status: Work Completed
5. Increasing the height of Flag post in front of the Admin block from 18 feet to 27 feet Status: Work Completed.
6. Installation of available two water coolers that are procured and supplied to central Library Status: Work Completed
7. Construction of 12 nos. individual toilets for servants of CII type quarters at JIPMER Status: Not approved
11.8 Computer Facilities

11.8.1 Administrative Information System (AIS)

Professor of Biometrics & Vice Chairman (AIS Advisory Committee) & Faculty-in-charge
Ajit Sahai (Till 05/10/2010)

Professor of Biochemistry & Vice President (AIS Advisory Committee) & Faculty-in-Charge
P. H. Ananthanarayanan (From 06/10/2010)

Sub-systems-in-Charge

<table>
<thead>
<tr>
<th>Establishment &amp; Estate</th>
<th>Finance &amp; Accounts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sudha V. (DDA)</td>
<td>Viswanathan R. (F &amp; CAO)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Academics</th>
</tr>
</thead>
<tbody>
<tr>
<td>James Terrance.Sekar (Registrar)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Officer-in-charge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unnikrishnan C.B., Admin. Officer (HR)</td>
</tr>
</tbody>
</table>

BACKGROUND INFORMATION

The computerization of administrative activities of the Institute was started during 1987, with two Desktop systems. It was done with the idea to develop a suitable Management Information System (MIS) for JIPMER. During 1994 the computer oriented Management Information System (MIS) for hospital was launched with the inputs from the National Informatics Centre (NIC) and its Regional Office at Hyderabad. The minimum required Hardware, Peripherals and Software was provided to this unit that also had two “486-servers” with 64 terminals located in various Wards, Labs and the Medical Records Department. All these terminals were connected with line-driver and RS-232 serial cable technology. A system study was carried out by the regional office of NIC, Hyderabad after interactions with the faculty and staff members of the Institute for developing appropriate software for Hospital Information System (HIS) as well as for Administrative Information System (AIS) in 1994. The faculty and staff members concerned were visiting the NIC office, Hyderabad till the beginning of 1994. Subsequently many programme modules were developed for computerized registration of inpatients and outpatients; Patient Enquiry System at Reception; RICU events summary; OT list; Discharge Summary Reports; Patients Referral Letters; Lab. Reports of Histopathology, Biochemistry, Pathology and Microbiology; entire operations of Blood Bank; data entry and processing of data from the other hospital units etc.

Based on the experience of the previous five years, the project of JICMIS (JIPMER Integrated Computerised Management Information System) was initiated during 1998-99 with an objective to integrate Management Information through Hospital Information System (HIS) Unit and Administrative Information System (AIS) Unit and their affiliated sub-systems. The entire gamut of activities in the hospital area i.e. out-patients’ registration through MRD, in-patient
care in Wards, OTs and Casualty, Pharmacy services, Diagnostic and Lab services as well as hospital administration including nursing care, CSSD, Central Stores and other allied services etc. were linked with the HIS Unit. At the same time, the important activities of the administrative block of the Institute in Establishment sections, Finance, Accounts, Education and Research were entrusted to be coordinated by the AIS Unit.

In November 1999 the JICMIS organizational structure was further fine tuned to match physical infrastructure of the available facilities. As a result a separate Centre for Research and Academic Facilities and Training (CRAFT) was established in the library building with the objective of promoting distribution and creation of media through CDs, provision of Internet and E-mail facilities to the Institute, installation of fax machines, collection of biometrical and research information and to extend computer facilities to all the academic departments. The birth of CRAFT was also meant 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 are reviewed periodically by the Advisory Committees headed by the Vice-Chairman, Medical Superintendent & Dean respectively. A combined annual review meeting takes place under the Chairmanship of Director, who is also the chairman of all the three committees. The meeting reviews the performance of each unit. Administrative approvals of new projects along with decisions to allot funds to these units for their developmental activities are taken care with a collective outlook and in consultation with the members of all the three committees. A flow-chart of the functional linkages for sharing information between AIS, HIS and CRAFT is shown below:

![Flow Chart](image-url)
EXISTING INFRASTRUCTURE

Presently the AIS Unit is having in its control four Servers, 146 P.Cs (Standalone terminals or with network connectivity), 29 Laser Printers, including A3 and multi-function colour printers, 68 Dot Matrix Printers including line matrix & heavy duty printers, 6 scanners, 86 UPS, 18 Network Switches, One IBM Storage Device of 6 TB Capacity, four 12 U Racks, 15 Laptops, 5 LCD Projectors, 2 Laser Printers having Blue tooth connectivity for mobile printing and One Photocopier Machine. New pay roll software has been provided to the pay bills section which is in the testing stage at present. It is developed in such way as to link it with overall software to be developed for all sections which in on the anvil. Steps have been taken to install modular furniture and new workstations along with networking and intercom facilities in all sections of the Administrative Block as has been done in the Bills Section, Accounts & Budget & Purchase Sections earlier. Along with this upgradation of the furnishing of the rooms of senior officers will also be done. Steps have also been taken to install comprehensive software for administrative, finance and purchase sections to bring about e-governance in line with the IT policy of the Government of India. It is expected that within a period of one year the renovation of the rooms and installation of the software will be completed and the Institute may be able to change over to IT enabled administration.

SERVICES PROVIDED

Administrative Information System Unit (AISU) is supporting the computerization of Administration, Establishment, Finance, Accounts and Education Sections. The important tasks undertaken by this Unit so far is detailed below:

- Computerisation of employee pay bills, GPF applications for withdrawals and advance, issue of sanction orders and preparation of bills, organization of nominal rolls as a part of preparation of Budget documents –RE & BE w.e.f 1999, settlement of all arrears.
- Computerisation of service matters of the employees, information and reports on the existing staff position, seniority lists, incumbency position, updating of various periodic reports, modification of Recruitment Rules and computerization of court cases replies and related matters.

SOFTWARE MODULES DEVELOPED

Recruitment

Software has been developed and implemented for processing of applications for recruitments to all posts under Group A, B & C.

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). Since this programme has become outdated a new software for pay roll has been developed and is in the final testing stage at present. It is expected that this software may be merged with the comprehensive software to be developed for administration, purchase and finance sections in the near future.
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.

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, Relief details, Appointment details etc.

Cheque forwarding
Software has also been developed and implemented for cheque forwarding to various firms and outside departments.

STAFF
The institution is not having any posts of I.T. personnel till date. Even after repeated requests to the Ministry no such posts have been created. But it is expected that we may get some of the posts in the near future. At present all the three units namely AIS, HIS & CRAFT are being managed by staff and faculty having an orientation and enthusiasm towards computers and technology. The linkage between JIPMER and NIC, Puducherry has become scarce at present and hence the Institute is not getting any technical support from NIC. This has created an urgent situation that warrants immediate outsourcing of skilled I.T. professionals for maintenance and technical support for the routine functioning of the Institute. It has been proposed to hire adequate number of I.T. professionals on contract basis for all the three units till necessary IT posts are created. Proposals for creation of posts of System Analyst, Programmers & Data Processing Assistants are pending for sanction from the Ministry till date.

FUTURE PLANS
Upon review of the existing units it was decided to create independent sub-systems for the three wings of activities like Finance & Accounts Division, Establishment & Estate Sections and Academic Wing. Accordingly, under the purview of AIS two subsystems namely one for ‘Establishment & Estate’ and another for ‘Finance & Accounts’ were created. They have been given the independent charge of these sub-systems under the respective heads of offices like Deputy Director (Admn.) and Finance & Chief Accounts Officer. 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 for better management of further computerisation of these sub-systems. The Academic sub-system has been separated from AIS Unit, considering the fact that the Academic wing is directly supervised by Dean’s Office with the support of the Registrar. It is proposed to provide additional computers with modular furniture and networking facilities to all the units in the administrative wing for which the steps have already been taken. Steps to procure comprehensive software for all the sub-systems have also been done and is expected to be completed during the financial year 2011-12.
11.8.2 Centre for Research & Academic Facilities & Training (CRAFT)

Professor & Officer-in-charge
R. Raveendran

BACKGROUND INFORMATION

The Centre for Research & Academic Facilities & Training (CRAFT) was formed in the year 2001 to cater to 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 Subba 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. Basu, Addl. Prof. of Pathology</td>
<td>Member</td>
</tr>
<tr>
<td>Dr. R. Raveendran, Prof. of Pharmacology</td>
<td>Member-Secretary cum Officer i/c</td>
</tr>
</tbody>
</table>

Services Provided

- Providing IT equipment such as computers, printers and accessories to academic departments, faculty members and common facilities/centres providing academic services.
- Providing Internet facility to academic departments, administrative sections, hospital sections of JIPMER, Central Library, Nursing College and residential quarters in the JIPMER campus.
- Maintaining the JIPMER website www.jipmer.edu and www.jipmer.edu.in.
- Announcing the course application details, entrance examination schedules, hall ticket information and results and also purchase-tender information on the website.
- Conducting training programmes on statistics, research methodology, biomedical communication for faculty and resident doctors of JIPMER.
- Institutional access to literature database services such as MD Consult is being provided through the academic network.
- Providing Audio-Visual equipment to the academic departments.
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, firewallsing 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.

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

Forty laser printers (multifunction devices) have been purchased and 1 each was given to all departments. High end desktop PCs (50 nos.) were purchased and provided to different departments. Eight PCs were given to Dept of Biometrics to set up a facility for faculty members and residents for using SPSS statistics package. A Student’s PC lab with 25 PCs was set up in the Department of Pharmacology for conducting practical classes. Micro PCciilin Antivirus software with 210 licenses was purchased and installed in the PCs in the departments. SPSS ver 19.0 with 10 user license and AMOS ver 19.0 with 3 user license were purchased and given to the Dept of Biometrics. Campus licenses for Microsoft software products such as Windows, Office suit, Server OS, SQL were obtained and distributed to users in the institute.

FUTURE PLANS
- Campus-wide wireless network will be established.
- The Internet bandwidth will be doubled.
BACKGROUND INFORMATION

The Hospital Information Services Unit (HISU) was formed to computerize the record-keeping of hospital and patients’ information and manage a network linking of all the hospital wards, OPDs, OTs, Blood Bank, Laboratory Investigation Services, Pharmacy, other 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, Blood Bank, Laboratory services departments such as Pathology, Bio-chemistry, Microbiology, Central Labs and other 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 deployed and is expected to facilitate the medical record-keeping of the hospital vastly once it is fully used after linking of wards in main hospital and in Super Specialty Block.

PERFORMANCE

During the past year, nearly ninety desktop computers and printers have been procured and issued to various user areas. The majority of them are networked through the HIS network.

The HMIS Software through the HIS network has been deployed and is being used in the department of:

- Medical Records Department for Registration (Out-Patient, Emergency-24x7hrs and SSHC), Admissions, Medico-legal cases and other In-Patient works.
- Pathology for the data entries and generation of biopsy reports
- Hematology for the data entries and generation of reports
- Central Lab for the data entries and generation of reports
- Blood Bank for the issues, donors and stock maintenance of blood

It is also being extended to other departments such as Biochemistry, Microbiology and Radio-diagnosis.
AUGMENTATION PLANS

• Setting up of hospital-wide state of the art local area network for computerizing and interlinking of all the wards in main hospital and wards in Super Specialty Block, OTs, OPDs, laboratories and departments.

• Procurement and commissioning of high-end rack mounted 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 manager, computer programmers and Data Processing Assistants for keeping the HISU network running smoothly 24 x 7 x 365, with zero downtime.
11.9 Central Sterile Supplies Department (CSSD)

<table>
<thead>
<tr>
<th>Chief Medical Officer &amp; In-charge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rajan Swain (Till 10.10.2010)</td>
</tr>
<tr>
<td>Betsy Methai (11.10.2010)</td>
</tr>
<tr>
<td>Nursing Sister</td>
</tr>
<tr>
<td>S. Jammuna Rani</td>
</tr>
</tbody>
</table>

BACKGROUND INFORMATION

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 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 near 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 up to 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

Syringes
- Disposable (2, 5, 10, 20 and 50ml) 6000
- Reusable (assorted) 500

Gloves
- Sterile disposable surgical 2000 pairs
- Sterile disposable examination 2000
- Unsterile disposable, 5000

IV sets (disposable) 600

Dressing materials
- Dressing bins (contain cotton, gauze and pads) 150
- OT and ward packs, 250

Treatment trays (21 varieties) 275

BUDGETARY PERFORMANCE

Total funds allocated for surgical items (for all items including cotton, gauze, bandages etc, mostly procured by the Pharmacy) Rs.2,30,00,000

Total expenditure booked by the CSSD Rs.2,29,88,110

Plasma sterilizer (accessories) Nil

SIGNIFICANT EVENTS IN THE DEPARTMENT

The Central Sterile Supplies Department conducted a Workshop / seminars on 28th June 2010, on monitoring of Steam Sterilization processes in Hospitals.

AUGMENTATION PLANS

1. Filling up of vacant posts and creation of new posts for expansion to the newly-built blocks.
2. Setting-up of satellite units of the CSSD in the new blocks of the hospital.
3. Procurement of 2 new sterilizers to (1 steam Sterilizer and 1 ETO Sterilizer)
11.10 Dietetics

<table>
<thead>
<tr>
<th>Officer In-charge</th>
</tr>
</thead>
<tbody>
<tr>
<td>K. Pal Ravindran</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Senior Dietician</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revathi Srinivasan</td>
</tr>
</tbody>
</table>

BACKGROUND INFORMATION

Establishment of the department

The Dietetics Department in the JIPMER was established in the year 1966 along with the hospital. The Dietetics Department is one of the essential departments to provide healthy diet to all the in-patients. The dietetics department supplies both therapeutic and normal diet to the patients.

Location

The Dietetics Department is located in the eastern side of the campus in between Pharmacy and the Central Stores Department. 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 – new, old
- Grinder (wet) – 2
- Electrical milk heater – 2
- Eggs boiler – 1000 eggs can be boiled at a time
- Vegetable peeler – 2
- Whipping machine – 1
- Tray washing machine – 1

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, soymilk congee, mixed cereal porridge, raw egg and biscuits.

**Lunch**


3 P.M: Milk for children, tea and wheat payasam for therapeutic and special diet.

**Dinner**

Raw rice / Boiled rice / Wheat rice / Idly, Sambhar, Poriyal, Extra poriyal, Sundal, Curd etc.

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 Once in a week
- Idly once in a week
- Wheat rice for diabetic patients
- Soya milk Conjee

**SERVICE PROVIDED**

Supply of nutritious health food for the indoor patients of the hospital according to the daily need of all inpatients and blood bank.

<table>
<thead>
<tr>
<th>Total number of inpatients</th>
<th>1064</th>
</tr>
</thead>
<tbody>
<tr>
<td>Super specialty block</td>
<td>383</td>
</tr>
<tr>
<td>Total</td>
<td>1447</td>
</tr>
</tbody>
</table>

**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
Academic Service Provided

- Conducting regular nutrition classes for B.Sc., Nursing 1st year students with practical classes (weekly 2 classes). Number of nursing students trained in the year 2010-2011. (75 Nos.)
- Internship training for post graduate students given 1 month for each academic year. No. of students (18) from Pondicherry University and Barathidasan women’s college and 1 student from IGNOU, Chennai. Conducted classes for MRT/MRO Trainees.

Diet Counseling For The Patients

i. Monday and Tuesday – Diabetic clinic in OPD SS block (1300 patients.)

ii. Individual Diet advice to patients as directed by the doctor (both indoor and out door) – 660 patients.

iii. Awareness program for well baby clinic (week days)

iv. Regular ward rounds & diet counseling every day to indoor patients.

STATISTICS OF THE YEAR 2010-2011

- Total No. of indoor patient is 4,34,193 whom diet is supplied for the year 2010-2011
- Budget utilized/allocated for the year 2010-2011 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>2010</td>
<td>34,206</td>
<td>12,39,714</td>
</tr>
<tr>
<td>2</td>
<td>May</td>
<td>2010</td>
<td>36,522</td>
<td>12,54,293</td>
</tr>
<tr>
<td>3</td>
<td>June</td>
<td>2010</td>
<td>35,882</td>
<td>12,96,446</td>
</tr>
<tr>
<td>4</td>
<td>July</td>
<td>2010</td>
<td>37,185</td>
<td>13,43,817</td>
</tr>
<tr>
<td>5</td>
<td>August</td>
<td>2010</td>
<td>36,789</td>
<td>12,71,401</td>
</tr>
<tr>
<td>6</td>
<td>September</td>
<td>2010</td>
<td>35,740</td>
<td>12,62,883</td>
</tr>
<tr>
<td>7</td>
<td>October</td>
<td>2010</td>
<td>37,680</td>
<td>12,55,146</td>
</tr>
<tr>
<td>8</td>
<td>November</td>
<td>2010</td>
<td>35,597</td>
<td>12,60,902</td>
</tr>
<tr>
<td>9</td>
<td>December</td>
<td>2010</td>
<td>36,941</td>
<td>14,68,294</td>
</tr>
<tr>
<td>10</td>
<td>January</td>
<td>2011</td>
<td>35,924</td>
<td>14,54,356</td>
</tr>
<tr>
<td>11</td>
<td>February</td>
<td>2011</td>
<td>33,669</td>
<td>14,26,266</td>
</tr>
<tr>
<td>12</td>
<td>March</td>
<td>2011</td>
<td>38,058</td>
<td>11,62,938</td>
</tr>
<tr>
<td></td>
<td>Annual Total</td>
<td></td>
<td>4,34,193</td>
<td>1,56,96,456</td>
</tr>
</tbody>
</table>
Chart detailing the diet served per day (1293 diets / day)

Normal 137
Milk & bread 12
Fluid diet 138
High protein diet 858
Therapeutic diet 148

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
- Tray washing service : 58,000/- per anm
- Solutions for tray washing : 1,00,000/- per anm
- Boiler service 2 Nos : 31,000/- per anm
- Light diesel oil : 1,50,000/- per anm
- Gas range service : 6,000/- per anm
- Steam cooking range : 10,000/- per anm
(With out AMC)

SIGNIFICANT EVENTS
1. Dietician and Junior Dietician participated in workshop on Integrated food law at Pondicherry University on 3rd September 2010.
2. Senior Dietician participated in the conference on Clinical nutrition update-2010 on 17th & 18th September 2010.
3. Dietician delivered a guest lecture about Nutritional deficiency diseases and preventive measures in Pondicherry University on 26th October 2010.

JIPMER 2010-2011 / 477
4. Senior Dietician and Dietician delivered an awareness talk to diabetic patients on World Diabetic Day (November 9th).

5. Senior Dietician, Dietician and Junior Dieticians participated International Conference on Traditional foods-2010 on 1st & 3rd December 2010.

6. Healthy life style centre conducted camp on 11th & 12th March 2010. Senior Dietician and Dietician gave awareness talk about obesity at Sri Venkateswara Medical College and Research Centre.

7. Senior Dietician plan diet for Ischemic heart diseases patients on 28th February 2011.

8. Dietician delivered lecture on modular teaching about Nutrition in Health & Diseases for MBBS students on 24th March 2011.


10. Participated as a Refreshment Committee for Hospital Day on 30th October 2010 (800 - 1000 people.)

11. Dietetics Department received award as best Ancillary Service rendered

FUTURE PLANS

- 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.

- Planning to start short term training course in food service and management. (hospital diet oriented)

- Planning to conduct research work.

- To conduct various awareness programmes and nutrition exhibition.

- For installation of many new types of equipments to minimize the workload as well as to reduce time consumption are in process. It helps to minimize man power and to supply diet at the right time to the patients. Firewood for emergency purpose is also available in case of non-availability of electricity and gas.
11.11 Hindi Cell and Official Language Implementations

Professor of Biometrics & Faculty-In-Charge
Ajit Sahai

BACKGROUND INFORMATION

Hindi Cell, with sanctioned staff strength of a Hindi Officer, a Senior Hindi Translator (SHT), three Junior Hindi Translators (JHT) and a Typist; is functioning in this Institute from the very inception to Implement the Official Language (Rajbhasha) Policies of the Department of Official Language (DOL), Ministry of Home Affairs (MHA), Government of India (GOI) as per the Acts and Rules pertaining to them. Out of the six posts sanctioned currently one SHT and one JHT along with one Data Entry Operator (DEO) are functional to manage the entire working in Hindi cell. The Cell undertakes all works related to translation which is required as per Official Language act and assists in preparation of 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. The concept of inducting a Teaching Faculty to coordinate the affairs of Hindi Cell, in absence of Hindi Officer, was evolved very recently, otherwise, as per the guidelines of DOL, during the past several decades the Hindi Cell was being directly supervised by Deputy Director (Administration) or CMO-OSD (Administration).

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 and Hindi Cell. 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 help in creating interest for learning Hindi.

WEBSITE OF JIPMER IN HINDI

Hindi version of Website of JIPMER (www.jipmer.edu) is updated periodically. On this Website information regarding JIPMER is available in Hindi. Preparation of Bilingual Website is one of the achievements as per the target of the Annual Programme issued by the Department of Official Language.

HINDI TRANSLATIONS

Hindi Cell undertakes the translation work of all the Official Reports, Circulars, Office Memorandum, Standard Forms, Notifications, Performance Budget, Annual Report, Citizens
Charter etc., and coordinates in issuing all in bilingual form (Hindi & English). It also translates and coordinates in making all the name boards, sign boards, rubber stamps, letter heads, logos, etc., in bilingual form. So far, more than 70 forms were received from MRD and Purchase Section and have been translated and nearly 200 standard forms were translated and available in bilingual form. The Hindi translation work of the Annual Report of the Institute for the year 2009-10, was undertaken by Hindi Cell and more than 75% of translation assignment was completed indigenously by SHT and JHT with support of some other staff as per the advice of CMO-OSD (Administration) in a short period of 45 days.

**Town Official language Implementation Committee (TOLIC)**

This Institute continued to function as Secretariat of Town Official language Implementation Committee (TOLIC) of Pondicherry and the Director of the Institute is designated as Chairman of this Committee since 1986. In accordance to official language rules this committee was constituted for official language implementation in all the Offices of Central Government, Public sector/undertakings, Banks and Insurances in Pondicherry. The Official language Implementation programme, has its Regional Implementation Office (South-West), at Cochin, Kerala, under Department of Official Language (DOL), Ministry of Home Affairs (MHA), Government of India.

Apart from holding regular biannual meetings 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 the honor of receiving the award of ‘Rajbhasha Shield’ in the year 1986-87 and again in 1994-95 from DOL, MHA, 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 and has been adjudged third among the TOLIC of southern west region in promoting Official language Implementation work in Pondicherry.

Hindi Cell, JIPMER, is also extending co-operation to the member offices of TOLIC in connection with implementation of Official Language. Under its auspices in the mark of Hindi day, every year a Hindi Fortnight is celebrated at this institute during the 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 propagating and promoting Hindi. During the period of report Hindi fortnight is celebrated from 01.09.2010 to 15.09.2010. The details are as follows;
### COMPETITIONS:

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Name of the Competition</th>
<th>Date</th>
<th>No. of Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Sundar-Likhavat</td>
<td>01.09.2010</td>
<td>76 (4 Level)</td>
</tr>
<tr>
<td>2</td>
<td>Shrut-Lekhan</td>
<td>02.09.2010</td>
<td>09 (1 Level)</td>
</tr>
<tr>
<td>3</td>
<td>Shabda-Sakthi Praiyogita</td>
<td>02.09.2010</td>
<td>18 (2 Level)</td>
</tr>
<tr>
<td>4</td>
<td>Match The Pair</td>
<td>02.09.2010</td>
<td>19 (2 Level)</td>
</tr>
<tr>
<td>5</td>
<td>Story Writing</td>
<td>03.09.2010</td>
<td>26 (2 Level)</td>
</tr>
<tr>
<td>6</td>
<td>Essay Competition</td>
<td>06.09.2010</td>
<td>30 (3 Level)</td>
</tr>
<tr>
<td>7</td>
<td>Hindi Singing Competition</td>
<td>07.09.2010</td>
<td>21 (3 Level)</td>
</tr>
<tr>
<td>8</td>
<td>Kavitha Path Pratiyogita</td>
<td>08.09.2010</td>
<td>54 (5 Level)</td>
</tr>
<tr>
<td>9</td>
<td>Elocution Competition</td>
<td>09.09.2010</td>
<td>22 (3 Level)</td>
</tr>
<tr>
<td>10</td>
<td>Quiz</td>
<td>10.09.2010</td>
<td>19 (2 Level)</td>
</tr>
<tr>
<td>11</td>
<td>Masouda Lekhan</td>
<td>13.09.2010</td>
<td>03 (1 Level)</td>
</tr>
<tr>
<td>12</td>
<td>Translation Competition</td>
<td>13.09.2010</td>
<td>03 (1 Level)</td>
</tr>
<tr>
<td>13</td>
<td>Variety Programme</td>
<td>17.09.2010</td>
<td>170 (1 Level)</td>
</tr>
</tbody>
</table>

1. Educational Institutions:
   (a) Schools                        305
   (b) College and University        62
2. Officers/Employees of member offices 94
3. Wards of the employees of member offices 09

Total No. of Participants 470

### PRIZES

I. 1. First Prize 33
   2. Second Prize 30
   3. Third Prize 37
   4. Consolation Prizes 25

II. Variety Programme - Shield
   1. First Prize 02
   2. Second Prize 02
   3. Third Prize 01
   4. Consolation Prizes 04

III. RAJBHASHA SHIELD – (For member offices)
   CENTRAL GOVT. OFFICES CATEGORY
   1. Jawahar Avodaya Vidyalaya, I Prize
   2. Directorate of Census Operations, II Prize
   3. Kendriya Vidyalaya No. 1., III Prize

JIPMER 2010-2011 / 481
BANKS AND INSURANCE COMPANY CATEGORY
1. Corporation Bank I Prize
2. Central Bank of India II Prize
3. Bank of Maharashtra III Prize
AUTONOMOUS & UNDERTAKINGS CATEGORY
1. BSNL I Prize
2. GAIL India Limited II Prize
3. Doordarshan Kendra III Prize

JIPMER HINDI DIWAS CELEBRATIONS - 2010

Hindi Diwas is observed at JIPMER every year on 14th September, and various competitions on the Official Language policies and implementation are conducted. As usual various competitions in Hindi were organised during the celebration period August-September, 2010. The details of these programmes and competitions are as follows:

<table>
<thead>
<tr>
<th>Sl.No</th>
<th>Name of the Competition</th>
<th>Date</th>
<th>No. of Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Sundar Likhavat</td>
<td>27-8-2010</td>
<td>18</td>
</tr>
<tr>
<td>2</td>
<td>Shrut Lekhan</td>
<td>27-8-2010</td>
<td>13</td>
</tr>
<tr>
<td>3</td>
<td>Shabda Shakti Pratiyogita</td>
<td>30-8-2010</td>
<td>09</td>
</tr>
<tr>
<td>4</td>
<td>Essay Writing</td>
<td>30-8-2010</td>
<td>07</td>
</tr>
<tr>
<td>5</td>
<td>Masoudha Lekhan</td>
<td>31-8-2010</td>
<td>09</td>
</tr>
<tr>
<td>6</td>
<td>Anuvad Pratiyogita</td>
<td>31-8-2010</td>
<td>09</td>
</tr>
<tr>
<td>7</td>
<td>Hindi Singing Competition</td>
<td>07-9-2010</td>
<td>06</td>
</tr>
<tr>
<td>8</td>
<td>Hindi Typing Competition</td>
<td>13-9-2010</td>
<td>02</td>
</tr>
<tr>
<td>9</td>
<td>NOTING AND DRAFTING</td>
<td>14-9-2010</td>
<td>01</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td>74</td>
</tr>
</tbody>
</table>

The Valedictory Function of these celebrations of TOLIC was jointly held with JIPMER Hindi Diwas celebrations of JOLIC on 25th October, 2010 at Hunter Theatre, JIPMER. Speaking on this occasion the Chief Guest, Dr. K.S.V.K. Subba Rao, Director, JIPMER and Chairman Town Official Language Implementation Committee, Puducherry, appreciated the activities of TOLIC. Shri. Dheenabandu Soran, Dy. General Manager (O&M), GAIL India Limited, Puducherry, the Guest-of-Honor and Dr. M. M. Trakroo, Professor and HOD, Department of Physiology & Chairman JIPMER Official Language Implementation Committee, also spoke on the occasion. Dr. Manohar Kant Srivastava, Chief Medical Officer-SAG & O.S.D (Administration) & In-Charge Hindi Cell, JIPMER and Secretary, Town Official Language Implementation Committee (TOLIC), presented the annual report and also the report about the activities of the Town Official Language Implementation Committee, Puducherry. Prizes to the winners along with the Certificates of respective competitions were distributed by the Chief-Guest and Guest-of-Honor. Shri. P. Ananda Raj, Assistant Director, National Archives’ of India, Puducherry proposed vote of thanks. Then the function came to an end with National Anthem.
JIPMER Official Language Implementation Committee (JOLIC)

As per the schedule of Official language rule, JIPMER Official Language Implementation Committee (JOLIC) at the level of Institute holds meetings 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 GOI the computers in the Institute are having facility of Hindi software and also the facility to work in bilingual form. Dr. M. M. Trakroo, Professor and Head, Department of Physiology, in the year 2006, was nominated as Chairman of the Committee, as well Overall-In-charge of HTS, had been leading the activities in coordination with CMO-OSD and DDA (Administration)

HINDI TEACHING SCHEME (HTS)

This Institute is designated as centre for Hindi teaching under DOL, Ministry of Home Affairs, Government of India, with its regional office of Hindi Teaching Scheme (HTS) 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 and a 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, especially, during the periods the Hindi Teacher or Pradhyapak is not posted under HTS. 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 activities are as follows.

The position regarding the working knowledge of Hindi of the Officers and Staff working at various levels are maintained through a training roster. The number of staff who have already been trained up to the level of Prabodh / Praveen / Pragya courses, and also who are yet to be trained in Hindi are sorted out and nominated by Hindi cell for each session of these courses. Incentives for acquiring working knowledge in Hindi, by passing the prescribed examinations, are sanctioned by respective administrative sections as per the eligibility of the candidates who passed examinations and following the norms prescribed by GOI.

HINDI TYPE WRITING TRAINING

As per the assurance given to the Parliamentary Committee 11 LDC’s are to be trained in Hindi Typewriting. Hindi Cell initiated the works to enroll them in the training programme of the Hindi Teaching Scheme, through, DOL, New Delhi (Correspondence Course), and first time JIPMER conducted Hindi Typewriting Examination at Puducherry. So far 24 staff members were trained in Hindi Typewriting.

TEACHING

During the period under report quite encouraging number of Staff of JIPMER had enrolled for the Hindi training under correspondence courses conducted by Central Hindi Directorate, Ministry of Home affairs, Hindi Teaching Scheme, New Delhi during the first session, for examination schedule of MAY – 2010;
During the second session, for examination schedule of November-2010, the staff of JIPMER enrolled as private candidates under the training courses conducted by Hindi Teaching Scheme, Chennai;

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of the Exam</th>
<th>Enrolled</th>
<th>Exam passed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Prabodh</td>
<td>56</td>
<td>26</td>
</tr>
<tr>
<td>2</td>
<td>Praveen</td>
<td>04</td>
<td>01</td>
</tr>
<tr>
<td>3</td>
<td>Pragya</td>
<td>02</td>
<td>–</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of the Exam</th>
<th>Enrolled</th>
<th>Exam passed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Prabodh</td>
<td>85</td>
<td>63</td>
</tr>
<tr>
<td>2</td>
<td>Praveen</td>
<td>23</td>
<td>18</td>
</tr>
<tr>
<td>3</td>
<td>Pragya</td>
<td>08</td>
<td>07</td>
</tr>
</tbody>
</table>
11.12 Horticulture

Accounts Officer & Officer-in-charge
A. Selvam

Superintendent Horticulture
S. Sakthivel

BACKGROUND INFORMATION

In JIPMER Geographical area is nearly 197 acres, the whole area covered with Buildings, Garden and few grooves of 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.

The following places we are maintains garden
1. Opposite Admn 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.

STAFF PATTERN

The Horticulture department has 2 Head gardeners, 14 Asst. Gardeners and 10 DRLs working to maintain the garden in the entire campus.

JIPMER 2010-2011 / 485
SERVICES

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.
12. Arrangement of flower vase, bokhais and floral Rangoli.
13. Cultivation of cut flower (Gladiolus, Chrysanthemum) and other Annuals.

STATISTICS OF THE YEAR

1. Flower vase arrangement – 4000 Nos in a Year
2. Bouquet – 90 Nos in a Year
3. Interior stage decoration – 8 Times in a year
4. Wreath arrangements – 14 nos in a year

ACHIEVEMENTS / SIGNIFICANT EVENTS IN THE DEPARTMENT

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.
   ix. Separate office building inaugurated by the Director, JIPMER on 01.07.2011.
   x. Sprinkler irrigation system installed at Auditorium garden.
   xi. High mast illumination system fixed at Gandhi Park.
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 kind.
   iv. Auditorium Garden

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.

JIPMER 2010-2011 / 487
## 11.13. Hostels

<table>
<thead>
<tr>
<th>Hostel</th>
<th>Warden</th>
<th>Deputy Warden</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Aschoff House Hostel</strong></td>
<td>Latha Chaturvedula, (Prof, of Obstetrics and Gynaecology)</td>
<td>Jharna Mandal (Asst. Prof, of Microbiology)</td>
</tr>
<tr>
<td><strong>Blackwell House Hostel</strong></td>
<td>Latha Chaturvedula, (Prof, of Obstetrics and Gynaecology)</td>
<td>Jharna Mandal (Asst. Prof, of Microbiology)</td>
</tr>
<tr>
<td><strong>Curie House Hostel</strong></td>
<td>Latha Chaturvedula, (Prof, of Obstetrics and Gynaecology)</td>
<td>Jharna Mandal (Asst. Prof, of Microbiology)</td>
</tr>
<tr>
<td><strong>Lister House Hostel</strong></td>
<td>C. Adithan, (Prof. &amp; Head, Department of Pharmacology)</td>
<td>K.C. Premarajan, (Professor of Preventive and Social Medicine)</td>
</tr>
<tr>
<td><strong>Osler House Hostel</strong></td>
<td>C. Adithan, (Prof. &amp; J lead. Department of Pharmacology)</td>
<td>K.C. Premarajan, (Prof, of Preventive and Social Medicine)</td>
</tr>
<tr>
<td><strong>Harvey House Hostel</strong></td>
<td>Syed Habeebullah, (Prof. &amp; Head. Department of Obstetrics and Gynaecology)</td>
<td>Deb Dutta Basu (Prof, of Pathology)</td>
</tr>
<tr>
<td><strong>Nursing College Hostel</strong></td>
<td>M.J. Kumari. Vice Principal. College of Nursing.</td>
<td></td>
</tr>
</tbody>
</table>

The Hostels are situated in the campus of the Institute. There are several halls of residents with capacity of 75 triple rooms, 189 double rooms and 544 single rooms.
RESIDENCES

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Hostels</th>
<th>Single Room</th>
<th>Double Room</th>
<th>Reading Room</th>
<th>Entertainment Room</th>
<th>Mess Room</th>
<th>Total Rooms</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>GENTS HOSTELS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>ASCHOFF</td>
<td>–</td>
<td>45</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>48</td>
</tr>
<tr>
<td>2</td>
<td>HARVEY</td>
<td>200</td>
<td>–</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>204</td>
</tr>
<tr>
<td>3</td>
<td>LISTER</td>
<td>54</td>
<td>64</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>121</td>
</tr>
<tr>
<td>4</td>
<td>OSLER</td>
<td>54</td>
<td>64</td>
<td>1</td>
<td>–</td>
<td>1</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>LADIES HOSTELS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>CURIE</td>
<td>97</td>
<td>16</td>
<td>–</td>
<td>–</td>
<td>1</td>
<td>114</td>
</tr>
<tr>
<td>6</td>
<td>BLACK WELL</td>
<td>64</td>
<td>–</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>69</td>
</tr>
<tr>
<td>7</td>
<td>NURSING</td>
<td>75</td>
<td>75 (Triple Rooms)</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>155</td>
</tr>
</tbody>
</table>

GENERAL FACILITIES

1. Hostel facilities are provided to MDBS, 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 in mates 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.
11.14 Linen & Laundry

Professor & Officer-in-charge
Steven A. Dkhar

Storekeeper
K. Djivanandame

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’ (EARSTWHILE) personnel (Nursing Attendant, Saffaiwala, Security Guard etc.) and coats for all doctors and aprons for technicians etc. Stitching in the tailoring unit is done only for staff aprons. The uniforms of group ‘D’ (EARSTWHILE) personnel are stitched outside the institute and payment is 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 2010-2011

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stitched items (Bed sheet, Dhothi &amp; Pt. Saree)</td>
<td>8,422 nos</td>
</tr>
<tr>
<td>Unstitched items (Popline, Casement, Kada etc.)</td>
<td>36,648 meters</td>
</tr>
<tr>
<td>Uniform items (Wt.TC pant, Shirt, Wt.Saree etc.)</td>
<td>Male – 292 nos Female – 141 nos</td>
</tr>
</tbody>
</table>

FUTURE PLANS

- New sewing machines to be procured for the tailoring unit.
- Computerization of linen stocks.
- 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 specialty block, trauma care, RCC)
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. We are adding Dettol at the end of washing process.
4. All the washed linens are completely squeezed with the help of Hydro extractor.
5. The squeezed linens are shifted to drying yard for drying in the open sunlight.
6. The dried linens 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 wards & O.T's at their door steps.
8. Linen condemnation is being done monthly twice. We will get replacement against our condemnation from linen store.
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 61 wards including 17 I.C.U's (i.e. daily issue wards). The linen supply is made on alternative days to the rest of wards.
2. We are issuing linen to 20 OT tables.
3. For wards, we are issuing more than 2500 pcs per day. For OT'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.</th>
<th>Capacity</th>
<th>Quantity available (Nos)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Washing machine</td>
<td>100 kgs</td>
<td>2</td>
</tr>
<tr>
<td>Washing machine</td>
<td>50 kgs</td>
<td>1</td>
</tr>
<tr>
<td>Hydro extractor</td>
<td>15 kgs</td>
<td>1</td>
</tr>
<tr>
<td>Boiler</td>
<td>50 kgs</td>
<td>2</td>
</tr>
<tr>
<td>Dryer</td>
<td>0.5 ton</td>
<td>2</td>
</tr>
<tr>
<td>Drying tumblers</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Drying chamber</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>(During rainy season only)</td>
<td>160 bed sheet/hr</td>
<td>1</td>
</tr>
<tr>
<td>Dryer</td>
<td>50 kgs</td>
<td>2</td>
</tr>
<tr>
<td>Sewing machine</td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

JIPMER 2010-2011 / 491
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 setup 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 and money.
9. We are planning to implement the OZONE treatment method in washing soiled linen.
10. We are planning to add concentrated perfume at the end of washing process to rid off the foul smell.
11.15 Medical Illustration Division (MID)

<table>
<thead>
<tr>
<th>Professor &amp; In-charge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Santosh Kumar</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Assistant Professor of Educational Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z. Zayapragassarazan</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Technical Supervisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bharathi Balakumar</td>
</tr>
</tbody>
</table>

BACKGROUND INFORMATION OF THE DEPARTMENT

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 official functions like Institute Day, Sports Day, VIP visits
- 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 : 66 Nos
2. Scientific society : 31 Nos
3. Passport photos : 22 Nos
4. Clinical & research photographs : 26 Nos
5. Issue of photography print : 45 Nos

JIPMER 2010-2011 / 493
Artist section

1. Painting with oil colour : 4 Nos
2. Digital Banner : 8 Nos
3. Cloth Banner : 10 Nos
4. Full Size Poster : 90 Nos
5. Half Size Poster : 120 Nos
6. Display arrangement : 400 Nos
7. Medical drawings for Publication : 40 Nos

SIGNIFICANT EVENTS IN THE DEPARTMENT

• 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 are collected from various departments, the same is compiled and analyzed for preparation of Hospital Statistical Bulletin, which is discussed in the Medical Care Review Meeting.

ANNUAL PERFORMANCE FOR THE YEAR 2010-2011

<table>
<thead>
<tr>
<th>Category</th>
<th>Figures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total No. of New Cases</td>
<td>5,27,408</td>
</tr>
<tr>
<td>Total No. of Old Cases</td>
<td>10,66,806</td>
</tr>
<tr>
<td>Total No. of Old &amp; New Cases</td>
<td>15,94,214</td>
</tr>
<tr>
<td>Total No. of Admissions</td>
<td>67,265</td>
</tr>
<tr>
<td>Total No. of Discharges</td>
<td>64,858</td>
</tr>
<tr>
<td>Daily average no. of O.P. Attendance</td>
<td>5,315</td>
</tr>
<tr>
<td>Daily average No. of I.P. Attendance</td>
<td>1,384</td>
</tr>
<tr>
<td>Daily Average Bed Occupancy Rate</td>
<td>94.7</td>
</tr>
<tr>
<td>Total No. of Operations</td>
<td>33,853</td>
</tr>
<tr>
<td>Total No. of Investigations</td>
<td>25,33,442</td>
</tr>
<tr>
<td>Total no. of Deliveries</td>
<td>15,645</td>
</tr>
<tr>
<td>Total No. of Death below 48 hrs.</td>
<td>863</td>
</tr>
<tr>
<td>Total no. of Death above 48 hrs.</td>
<td>1,251</td>
</tr>
<tr>
<td>Gross Death Rate</td>
<td>3.16%</td>
</tr>
<tr>
<td>Net Death Rate</td>
<td>1.87%</td>
</tr>
</tbody>
</table>
B. Central Admission Office

Central admitting office is 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 5,400 patients visit JIPMER every day to nearly 23 specialties and more than 30 special clinics which are introduced in the afternoon as per the schedule. The average admission per day is 220 and bed strength 1650.

The patients who are all coming for treatment at first visit they are 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 & Gync. 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 on the basis of the sociological data 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 MRD Staff can issue the respective record immediately without any delay.

All the laboratory reports, ECG reports etc., are received from the various departments an 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 / MRD 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 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 purposed such as Total admissions, total discharges, consultation, total deaths (under 48 hrs, over 48 hrs) 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 Doctor’s 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 case records are supplied to the doctor for the attending Seminars/Conferences and their research works, these 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. : 3311
   b. Without M.L.R. : 4633

2. Total No. of Autopsies : 769

3. Total No. of Medical Certificate Issued : 1684

4. Court Cases Attended by Dr. & M.R.T. : 60

Medical Care Review Meetings

Ten Medical Care Review Meetings were conducted by every month during 2010-11.

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>2010-2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>I.C.D. and I.C.F.</td>
<td>CBHI., DGHS</td>
<td>7</td>
</tr>
<tr>
<td>2.</td>
<td>Health Information Management</td>
<td>CBHI., DGHS</td>
<td>4</td>
</tr>
<tr>
<td>3.</td>
<td>The Orientation on M.C.C.D.</td>
<td>Govt. of Puducherry</td>
<td>4</td>
</tr>
<tr>
<td>4.</td>
<td>Archive of Records</td>
<td>National Archive</td>
<td>1</td>
</tr>
</tbody>
</table>

Court Attendance

A total of 60 summons were attended by the Medical Record Personnel and Doctors in Pondicherry and Tamil Nadu.

ACHIEVEMENTS / SIGNIFICANT EVENTS IN THE DEPARTMENT

A. Computerization

Registration of new cases, admissions, census report and indices has been done through computer. Lab reports are also partially computerized

B. Establishment of Computer Laboratory

Establishment of Computer Laboratory is in progress of conducting the M.R.O. & M.R.T. Training programme.

C. The staff members who participated in the Workshop / National level Medical Record Conferences / Half Yearly Review Meeting and presented the papers on Medical Records are as follows.

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Workshop/Conference / Meeting</th>
<th>2010-11</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Medrecon – 2011: 11th Annual National Conference on Medical Records on Feb 2011 at Kamineni Hospital, Hyderabad</td>
<td>5 Staffs and 5 Trainees</td>
</tr>
<tr>
<td>2.</td>
<td>Half Yearly Review Meeting at Jaipur.</td>
<td>5</td>
</tr>
</tbody>
</table>

JIPMER 2010-2011 / 498
D. The Orientation was given to the 10 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.

E. **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.

   b. 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 125/- honorarium / day, the in-service candidates are not eligible. And the following numbers of candidates successfully completed the course till date.

<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>64</td>
<td>Jan-June 176</td>
<td>July-Dec 163</td>
</tr>
</tbody>
</table>

**FUTURE PLAN**

1. **Complete Computerization**

   The hospital statistics will be generated through computer and entire department is computerized and also gradually this department will function as a paperless department.

2. **Digitization and Archiving**

   Digitization and Archiving of In-patient records for 10 years will be done in the coming year.
11.17 Medico-Social Services

Medical Superintendent & Senior Professor
Ashok Kumar Das

Additional Medical Superintendent
A. Tumbanatham

Officer-in-charge
P. Stalin Sundara Raj

BACKGROUND INFORMATION

JIPMER is well known for its service to the poor patients. JIPMER is 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 Officers between Doctors and patients. Health Education, Motivation and counselling play a vital role for the patients having difficulty in following Doctors’ 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 18th March, 2009 and brought under the direct control of Medical Superintendent, JIPMER and supervised by Social Service Officer. This nodal point is known as Medico Social Services Wing (MSSW) and presently functioning in OPD Block where all the services are immediately available. The wing has been provided with intercom telephone with 0’dial facility, to remind and motivate the patients for regular follow up and a computer system with printer for office use.

SERVICES PROVIDED

For imparting scientific knowledge and communication skills to the patients, the following essential services are rendered to all the patients of JIPMER Hospital:

1. Guidance and Help.
2. Counselling to outpatients.
3. Health Education and Motivation.
4. Bedside counselling to inpatients.
5. Family intervention and Rehabilitation for inpatients.
6. Poor patient’s Chest fund for the procurement of life saving drugs/Laboratory investigation and travelling expenses.
8. Networking with State, Central Govt. organization, NGOs and private donors.

JIPMER 2010-2011 / 500
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 outpatient department and in the Super Specialty Block.

2. An average of 1600 out patients for a month was given counselling in various OPDs including Special Clinics.

3. An average of 800 inpatients for a month were given bedside counselling and Health Education.

4. To promote the healthy living among the diabetic patients a Medico-Social Worker is posted to work in the Diabetic clinic on all Mondays and Tuesdays. 100 to 120/monthly new diabetic cases are given Health education with particular emphasis on Diet, Drugs and Exercises. Intensive counselling and Family supportive counselling are being given individually. Small group approach is being adopted by utilizing power –point presentation to ensure strong motivation.

5. Regarding the Department of Medicine, Insight counselling to new cases of HIV around 12 in a month and remotivation to 40-50 patients as systematic follow –up, and ART counselling to 5-10 patients/month are given in the IEC clinic. Life-style modification counselling to patients with hypertension and obesity around 10-15 patients/ month. Rotahaler technique explained to patients (around 8 patients/ clinic)

6. Around 764/new/old T.B. patients/year and 24 new/old sero positive cases/year were given health education, motivation and counselling in the OPD, Wards and GHCD. Out of 764 T.B. cases, 708 patients were referred to RNTCP (local DOTS). Around 210 patients were remotivated for regular follow up. De-addiction and Tobacco /smoking cessation counselling were rendered to 200 patients.

7. Psycho-social intervention and counselling for Neurology and Urology patients rendered during respective clinics (350 patients/month)

8. A well trained and experienced Medical Social Worker is being deputed for “CRISIS INTERVENTION CLINIC” on all Thursdays in the Department of Psychiatry. (40-60 patients/month.)


10. Bedside counselling, health education and issue of Railway/Bus concession certificates are done daily at the Regional Cancer Center in the afternoons. Approximately 300 cancer patients get benefited by the regular visits of a Medical Social Worker
11. Details of the Family welfare compensation
   a. Amount received from
      National Rural Health Mission, Puducherry : 12,00,000
   b. Amount disbursed : 12,00,000
   c. Total numbers of Beneficiaries received compensation : 1520
   d. Compensation claimed for failure of sterilization (Rs.30,000 each) : 6 cases

12. In the Dept. of Pediatrics Health education was given to 312 patients, Family counselling given to 32 patients, Breast feeding motivation counselling given to 168 patients. 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.

13. With reference to the Surgery Department pre operative counselling and post operative counselling given to 150 patients. Insight counselling and supportive counselling given to 90 cancer patients. All the amputees were guided to get the State/Central Govt. assistance. Artificial limbs and crutches were provided through orthotics with the co-operation of PMRC.

14. ART counseling for 18 Retro positive patients, Health education and motivation for 315 STI patients, Insight counseling for 160 psoriasis patients, Individual and family counseling for 60 leprosy patients given in the Department of Dermatology.

ACHIEVEMENTS AND SIGNIFICANT EVENTS

1. A sum of Rs 16,730 was utilized under Poor Patients Chest Fund for purchase of life saving drugs, appliances, investigations etc., Out of this about 10 patients were benefited.

2. A sum of Rs 15,45,017/- has been utilized for treatment of 21 patients of various departments for the financial year 2010-2011 under the scheme of RAN.

3. 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.

4. Around 40 patients got the special certificates of medical, Treatment, Disability, Handicap for getting State/Central Government/NGOs assistance through the guidance of medical social workers.

5. Orientation to the 48 MSW students of Pondicherry University was given. In October 2010, classes were conducted to MRT/MRO trainees of JIPMER. 17 MSW students from Mannar Thirumalai Naicker College, Madurai, Visited the MSS wing as observational visit.

6. As part of management and learning process 4 MBA (Hospital management) students (Final year) of Meenakshi Mission Hospital (Madurai Kamaraj University) were given Training in patient care and supportive services.

7. A brief address was delivered on Medical social work-principles, methods, techniques, and available services of Medical Social Workers during the Interns Orientation programme.
8. As a part of Block placement and field work placement, training was given to MSW students from Bishop Heber College, Trichirapalli and Holi Cross College, Nagarkoil. Under the guidance of all Medical Social Workers, case work, group work and project work were performed by them.

9. All the MSWs actively had taken part in School Health Programme in Kendriya Vidyalaya, JIPMER campus.

10. Mrs. V. Chitrakala, Medical Social Worker has given a Health talk on diabetics to the diabetic patients on the occasion of Diabetic Day Celebration on 8th Nov’ 2010.

11. After availing the “O” Dial facility around 155 chronically ill patients were telephonically contacted for regular treatment. In this regard particular emphasis was given for T.B and HIV defaulters.

12. The following items were received from Donors with the co-ordination of MSSW.
   (a) 21” color television was donated to 02 ward.
   (b) Wall mounted LCD 32” TVs (2nos.) donated to Regional Cancer Centre.
   (c) 2 walkers were donated to Immunology ward.

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. Centralized and computerized issue of Travel (Bus/Train) concession certificates.
3. Fixing of few more poor patient’s chest boxes in prominent places (wards/OPDs) to raise the fund position for extension of monitory assistance to poor patients.
4. Priority for senior citizens for consultation and treatment in OPDs/wards.
5. Lobbying with State Government of Tamilnadu and Puducherry for issuing a government order on Bus concession for deserving patients.
6. Formation of separate cell to identify and locate the unknown patients/abandoned babies with the help of press and police.
7. Identifying the philanthropists to help the poor and needy patients.
8. Creation of additional post of Medical Social Workers to meet the increasing demand of services.
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.

Staff Pattern

Assistant Nursing Superintendent – 37
Sister Tutor – 2
Nursing Sister – 181
Staff Nurses – 435

SERVICES

The Nursing services are provided to all clinical departments and divisions, all wards and all OPDs in hospital and super specialty block, Trauma Care Centre, Regional Cancer Centre, Rural Health Centre at Kurichikuppam, and Ramanathapuram and related services and outreach camps in Karaikal.

STATISTICS OF THE YEAR

• Special training classes for OT Nurses were arranged by Ethicon Johnson and Johnson Company about latest trends in mesh plastic and suture materials. The total number of nurses attended this workshop – Nursing Superintendents, DNS-5, Nursing Sister – 15, Staff Nurses – 15.

• Deputed 50 nurses for workshop on ‘Essential Newborn Nursing’

• Deputed cath Lab Nurses Two Nursing Sisters, Two Staff nurses, to attend National conference of the Cardio Vascular Technologies at Bangalore.

• Indo – French Redial Intervention workshop conducted in Cath Lab held at JIPMER in the month of March – 2010.

• Deputed one nursing sister and three staff nurses for Higher Education courses like B.Sc and M.Sc. Nursing.
ACHIEVEMENTS

• Celebrated Nightingale day on May 12th with our Nursing personnel.

• Hospital day was celebrated on 14th December 2010 and the best ward awards were given to best OTs, Wards, ICUs and OPDs.

• Best Ward [Main Block]
  First Prize Ward – 21
  Second Prize Ward – 37
  Third Prize Ward _ 12

• Best Ward [SSB]
  First Prize Dailysis ward
  Second Prize Cardiology ward
  Third Prize Paed. Surgery ward

• Best Intensive Care Unit [Main Block]
  First Prize Pediatrics Intensive Care Unit [PICU]
  Second Prize Medicine Intensive Care Unit [MICU]
  Third Prize Respiratory Intensive Care Unit [RICU]

• Best Intensive Care Unit [SSB]
  First Prize Neurosurgery ICU
  [Shared by both] Regional Cancer centre ICU
  Third Prize Paed. Surgery – ICU

• Best OPD [Main Block]
  First Prize Pulmonary Medicine OPD
  Second prize Psychiatry OPD
  Third Prize Dental OPD
  Consolation Prize O and G OPD

• Best OPD [SSB]
  First Prize Cardiology OPD
  Second Prize RCC OPD
  Third Prize Nuclear Medicine OPD

• Best OT [Main block]
  First Prize OT 3 and 4
  Second Prize PP OT
  Third Prize OT 1 and 2
• Best OT [New block]
  First Prize       EMS OT
  Second Prize     Trauma OT [PMRC]
  Third Prize      SSB OT Complex

FUTURE PLAN

Planning to conduct CNE Programme/Workshop to update knowledge about latest trends in Nursing services.
BACKGROUND INFORMATION OF THE DEPARTMENT

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 Dhanvantary Medical College. Then the medical college was renamed as JIPMER.

The Department of Pharmacy is situated in the first floor of Pharmacy block with
1. Pharmacy Office,
2. Tablets Store
3. Injection Store
4. I.V. Fluids & Medical Gas Store
5. Chemicals stores

The Out Patients Department Pharmacy is situated on the ground floor of the main OPD block equipped with six dispensing counters. The Staff and Students Health Clinic Pharmacy (SSHCP) is situated near the OPD Pharmacy. The Preparation and Analysis wing of the Pharmacy is situated near the OPD Pharmacy.

The Super Specialty Pharmacy is situated on the ground floor of the Super Specialty block with six dispensing counters and a sub store for issue of IV fluids and surgical dressings.

DIFFERENT COMMITTEES

Drug Purchase Monitoring & Utilisation Committee (DPMUC)

This committee decides the quantification 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 aim of the LDPC is to make availability of life saving drugs for in-patients which are not stocked normally in the department.

The committee consists of following members

- **Chairman**: Medical Superintendent/ Addl. Medical 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

Pharmaceutical procurement is a complex process which involves many steps. Pharma public sector procurement should be limited to an essential drug list. Procurement and tender documents are list drugs by their International Nonproprietary name (INN) or generic name.

Pharmacy master procurement list consists of 926 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 new requirements of the individual departments. The master procurement list is compiled based on the WHO Essential drug List and JIPMER Essential Drug list. After quantification, the list 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 e-procurement method which is technically supported by the software provider Keonics. Receipt of tender quotation, preparation of comparative statements, evaluation of specification, evaluation of price, and preparation of final selection list which will be submitted to the drug purchase monitoring & utilization committee for further approval. Preparation of purchase proposals, generation of supply orders to the selected suppliers/firms, etc., will be done there after in pharmacy.

Budget allocation

The budget allotted to the pharmacy department is Rupees 9.7 crores. This includes Plan, Non-plan and DGS&D rate contract.

Selection of Pharmaceuticals

No public or private health care system in the world can afford to purchase all drugs circulating in the market within its given budget. Resources are limited and choices have to be made. The DPMUC will select the firms carefully to ensure quality, safety & efficacy. The list of drugs is based on choosing appropriate dosage forms, preparation with exact specification & packing. Ordering quantities is based on the reliable estimates of actual needs like monthly consumption and new requirements received from various departments. Pharmaceutical usage review programme is developed to ensure maximum patient benefit at the most economical basis. After getting final approval from DPUMC the list of drugs which includes approved drugs the single
quoted rate reasonable (SQRR), single quoted rate high (SQRH) and note quoted items (NQ) are now being sent to all clinical departments for their ready usage. SQ RR, SQ RH & NQ drugs are retendered again ie Tender-II.

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, market standing, financial viability and licence requirements. Procuring is done only from the registered firms which are reliable, licensed suppliers and manufacturers those comply with WHO - GMP and have good records of performance. The medicines procured should meet the required standards of quality. The qualification of suppliers are checked by networking with other procurement agencies like DGS&D, ESI corporation, TNMSC- Chennai and Drug Control Authorities of the concerned states, obtaining all certificates and laboratory testing of drugs received. The first supply of the item should accompany with manufacturing license/import license mentioning the name of the supplied items and photocopy of quality certificate from Govt. approved drug testing laboratory.

Supply of Medicines

The onus is on the supplier or distributor to ensure that all legal requirements are met, when medicines of scheduled items are supplied. Suppliers and distributors should ensure that accounts are opened or agreements entered only for the purpose 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 ie batch no, expiry date. etc. Detailed product specification including quality standards (B.P, I.P, U.S.P), proper labeling, nomenclature and packaging. For imported medicines WHO certificate, original import license should be enclosed.

STAFF PATTERN

Officer in Charge of Pharmacy – 1
Dy. Officer in Charge of Pharmacy – 1
Head Pharmacist – 1
Senior Pharmacists – 2
Superintendent of Stores – 1
Pharmacological Analyst – 1 – vacant
Chemist manufacturing – 1 – vacant
Pharmacists – 24
Pharmacists – 9 on daily rated basis
Upper Division Clerk – 1
Lower Division Clerk – 1
Store keeper – 1
Peon – 1
Helpers – 3
Safaiwalas – 7 on daily rated basis.

JIPMER 2010-2011 / 509
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 of the department. The generation of 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 and sending supply order through fax will be done here. The department office is equipped with modern office machines like fax machine, copier cum printer, network computers. All the units of pharmacy stores are network connected.

The following works are carried out in the pharmacy office:

1. To ensure speedy delivery of supply orders to the suppliers they are sent through postal mail, fax and e-mail.
2. Purchase proposals generated in the stores are converted into supply orders and countersigned by the officer in charge of Pharmacy and forwarded to the Purchase department.
3. Man power planning, leave management, substitution of employees, vehicle arrangements for collection of spirit from the government of Puducherry.
4. Arrangements to convene the Drug Purchase Monitoring and Utilization committee (DPMUC) meetings and Local Drug Purchase committee meetings.
6. Preparation of comparative statements, checking the company profiles like Registration, WHO, GMP, licence issued by the Drug Controller of India, balance sheet, financial capability etc.
7. Preparation of final selection list, list of single quoted, not quoted drugs are submitted for approval of the DPMUC.
8. Receipt of samples and sending the same for testing.
9. Monitoring of local purchase, issue of local purchase forms for the user departments depends upon the urgency and need.
10. Liaison with the suppliers, vendors, head of the departments and purchase department.
11. Letter correspondence with the departments, purchase and vendors and proper numbering and filing of correspondences.
12. Maintenance of AMC/CMC of the machineries installed in the department.
13. Sending of reminders after 7 days of the issue of supply orders. Receipt of supplier confirmation from the companies are forwarded to the concern stores. Tenderers are informed to execute the 25% of the total quantity of supply order within 10 days after the receipt of the supply order so that the firms which have the ready stock will be entertained & non availability of drugs may be curtailed to the minimum.
14. Placing telephonic local purchase supply orders to the registered local suppliers.

15. Arranging for spirit licence from the state excise department, narcotic licence from the office of the district collector and state drug control department.

16. Monitoring the issue of Not Available Certificates (NAC) for the staff members and their dependents.

17. Uploading the quality problems in the JIPMER web site www.jipmer.edu/pharmacy.

18. Every month, narcotic drugs utilization accounts are sent to Assistant Commissioner, Food & Drugs Administration, Govt. of Puducherry.

**Tablet stores**

In Tablet stores there are 271 drugs stocked. This includes eye and ear drops and ointments. Supdt. of Store (Pharmacy) and one Pharmacist are posted along with 3 helpers. The average indent issues per week is 130. The issue of drugs to the sub units and wards will be floor wise. For example, 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 for tablets, injections, surgical dressing items, chemicals and disinfectant will be prepared by the pharmacists posted in the respective stores which is 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, any quality and quantity issues found, will be brought to the notice of the officer in charge for further action.

The top five drugs procured in 2010-11 are Tab. Capecitabine Rs. 11,80,067/-, Beclomethasone Rotacaps Rs. 10,31,194/- Tab. Imatinib Rs. 3,12,000/- Cap. Cyclosporine Rs. 43,2000/- Salbutamol Rotacaps Rs. 3,26,415/-.  

**Injection Stores**

There are 345 injections stocked in the stores. Three Pharmacists along with 4 helpers are posted in the injections stores. The average indents issued per week is 360. The issue of injection, I.V. fluids and medical gases to the wards, operation theatres, emergency medical department, and injection room are done floor wise and day wise. Non availability certificates will be issued to the SSHC beneficiaries is done as same as it is in tablet store. Receipt of drugs is done as per the specifications of the supply orders. Incase of quality and quantity issues, it will be brought to the notice of the officer-in-charge of pharmacy time to time. The costlier injections are stocked as per the ABC/VEN analysis.

The top six drugs procured in the year of 2010-11 were Inj. Human Mixtard Insulin Rs. 29,74,048/-, Inj. Factor VIII Rs. 45,80,841/- Inj. Meropenem Rs. 24,06,780/- Inj. Granulocyte colony stimulating Factor (G-CSF) - 300mcg Rs. 8,80,308/- Inj. Human Albumin Rs. 1,64,5335/- Inj. Human IV Gammaglobullin Rs. 34,84,001/-.  

There are eight narcotic drugs 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. Before issue of narcotics, the signatures are verified with the specimen signatures. The narcotic drugs are purchased from the authorized firms after obtaining special permission from concerned excise department. The top drug procured was Tablet. Morphine for Rs. 1,20,000/- in the year.
Cold Storage

Cold Chain is a system of storing and transporting life saving drugs/vaccines at the recommended temperature range from the point of manufacture to point of use in order to provide potent and effective life saving drugs/vaccines to the beneficiaries. Three walk-in coolers are being used for storing life saving drugs. There are 80 life saving drugs stored in the walk-in coolers.

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 lakh was used for surgical dressing. 50000 rolls of Cotton was procured for the year of 2010-2011 with the value of Rs. 51,84,000.

Disinfectant and Chemical Stores

There are 15 Disinfectant solutions and 60 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 among which Lysol is also one of the costliest disinfectant. We have procured 24000 liters with the value of 18,96,960/.-.

Local purchase

The Department of Pharmacy has made an arrangement for emergency purchases of life saving drugs by entering into rate contract with local chemists through local tender, 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 obtaining the financial sanction from the Medical Superintendent and Director. A sum of Rs.33,14,268/- is utilized for local purchase of drugs for this year. The senior pharmacist posted in the Pharmacy office will be in charge of local purchase.

I.V. Fluids and Medical Gas Store

The IV fluids and medical gas store is 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 90 IV. fluids indents and 25 medical gas indents issued per week. The costlier items purchased were Inj. Sodium Chloride Rs. 2496450/-, Inj. Ringer lactate Rs. 890000/-, and Inj. Dextrose 5 % Rs. 572000/- per year.

OUT PATIENTS DEPARTMENTS

OPD Pharmacy

In the OPD pharmacy, there are 120 drugs stocked at an average of 2280 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 Solutions which are prepared by our hospital Pharmacy preparation section. As per our Hospital policy, we are issuing 4 days drugs to all patients.
attending 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 every week.

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 situated opposite to the OPD Pharmacy. The average attendance per day is 250, 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 prepared in this section out of which most of the drugs are not available in the open market. Some time 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 is prepared in this section are Lugol’s iodine, Schol’s solution, Jules solution, Eusol, Glycerin tannic acid, Magsulph glycerin, Piles injection etc., This section alone saves the expenditure of Rs. 5 lakhs per year. Liniments and ointments are likely to be made by homogenizer and mixer in near future which are made by man power.

Super Specialty Pharmacy (SSP)

The super specialty Pharmacy is situated in the ground floor of the super specialty 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 astroenterology and surgical gastroenterology clinic patients visit the super specialty 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 which is running within the super specialty pharmacy for issue of dressing items and IV fluids for the wards of the super specialty block on every Saturday forenoon. For collection of IV fluids & surgical items a battery vehicle is being used. The top 9 drugs distributed were Hydroxychloroquine, Sulphasalasine Pyridostigmine, Cisplatin, Granulocyte colony stimulating Factor (G-CSF), Cyclophosphamide, 5-Fluorouracil, Doxorubicin & Gemcitabine.

RCC Pharmacy

The Regional Cancer Center Pharmacy was functioning since July 2010 exclusively for cancer patients. The average attendance is 170 per day. Chemotherapy injections and drugs are directly issued to the patients as per the advice of the oncologist. Oncology and general drugs are issued to the Radiotherapy OPD, RCC-ICU and discharged patients. The Pharmacy is working from 9 a.m to 4.30 p.m. which is run by one pharmacist and one DRL pharmacist.
STATISTICS OF THE YEAR 2010-11

Patients attended for OPD Pharmacy : 1179494
Average attendance per day : 3842
Total Number of drugs Procured : 758
Annual budget allotted (Including Plan, Non- Plan and DGS&D Rate contract) : Rs. 9.7 crores
Drugs purchased through Local Purchase : Rs. 33,14,268/-

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 vials of Insulin are 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 Specialty 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 effected by the manufacturing process, packaging, transportation, storage conditions and other factors. Upon arrival, checking of 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 and if any quality problem is found and 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 3 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 80 drugs stored in the walk in cooler. insulin, anti cancer drugs, vaccines and sera, Anti thrombolytic agents are presently stored. The pharmacy stores are now air conditioned for maintaining appropriate temperature for storage of drugs.
**E-Tender**

From 1st January 2010, we are accepting drug tenders through online to enhance transparency and speed.

**FUTURE PLANS**

- To construct a separate pharmacy block consisting of Pharmacy stores, Office, OPD'S and other pharmacy related services under one roof.
- To establish a drug testing laboratory as per the WHO standards.
- To conduct state wise orientation programme for pharmacists of Puducherry and Tamil Nadu in collaboration with WHO.
- To start a community pharmacy to make drugs available at reasonably lower rates.
11.20 Printing and Stationery

Private Secretary & In-charge
A. Rajavelu

BACKGROUND INFORMATION

The department of Printing and Stationery was started in the year 1967 with 3 staff. Now this division has strength of 14 staff and a Manager.

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.

STAFF PATTERN

At present the department is headed by the Officer in charge. Apart from that one Storekeeper, one Proof Reader, two Machine Operators for different kind of operations, one Gestetner Operator one Offset Machine operator, one Compositor one Composer, four Book Binders one Press Helper and one Safaiwala who is doing the work of binding section under redeployment scheme are the other staff of this department.

SERVICES

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 IN THE DEPARTMENT

- 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 giant tic development of this institute. Hence the staff of this department has to be streamlined so as to enable this department as the best Ancillary Service of this institute.
11.21 Sanitary Unit

Sanitary Superintendent
C. Jesurajan

BACKGROUND INFORMATION
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.

THE STAFF PATTERN
The Sanitary Superintendent is the over all Supervisor of all the Four Sanitary Unit. The Senior Sanitary Inspector monitors the activities of the Hospital Sanitary Unit. The Sanitary Inspectors of each unit is assisted by Sanitary Assistants and Senior Safaiwalas. A team of Safaiwalas are there in each unit to carry out the task of cleaning and sanitation.

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 Dr. Ashok Kumar Das and the coordinator Dr. Betsy Mathai. 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°C to 1150°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.

A New Microwave Oven is installed near incinerator for disinfection of used Plastic syringes, Iv sets, Iv bottles and other infected plastic materials from OTs, MOTs, wards etc., before their disposal.

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 send it out of Campus.

JIPMER 2010-2011 / 518
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.

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 Superintendent and the Sanitary Inspector Campus Sanitary Unit. Cleaning part of Super Speciality Block is also outsourced.

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 are given by him periodically. He is involved in Medical Student’s Training in community medicine.

COMMUNITY HEALTH

Mobile rural Health Camps are arranged through PSM Department in which the Male Health Supervisor plays 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.
11.22 Security

**Additional Medical Superintendent & Officer-in-charge**  
A. Tumbanatham

**Security Officer**  
A. Massilamani

**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 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

**ONGOING WORKS**

Proposal for Comprehensive security system for entire JIPMER campus is under active consideration. EOI (expression of interest) has been obtained from 4 service provider who are interested to provide Electronic surveillance system along with manual security for the entire campus.
BACKGROUND INFORMATION

1. Vigilance Cell

The vigilance cell has been active in investigating the complaints received on alleged employees of JIPMER by Vigilance Officer. The Vigilance Officer has investigated and collected evidences by adopting various procedures relevant to the complaint. After thorough investigation, the Vigilance Officer submitted his reports to the Director, JIPMER for necessary action. The cases referred by Central Vigilance Commissioner (CVC) had been sent to CVC, New Delhi.

The contact telephone number, e-mail address are displayed at prominent places in the premises of the Institution and also at the JIPMER website for easy access.

2. Disciplinary Cell & Court Cases Cell

The Disciplinary Cell & Court Cases Cell is dealing with all the disciplinary cases against the Group A, B, C & D Officers of JIPMER. It is also handling all court cases for and against JIPMER. This section is playing proactive role in taking action against the employees suspected to be involved in criminal activities. It consists of 2 divisions. One is Disciplinary Cell which deals with disciplinary cases against employees of JIPMER. Another is Court Cases Cell which deals with cases filed by and against JIPMER in any court in India.

VIGILANCE AWARENESS WEEK

The vigilance awareness week was observed in this institute and Hospital (From 25th Oct 2010 to 1st Nov 2010) 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 if they were insisted on paying bribe or adopted corrupt practices.

4. Employees of the institute and hospital took pledge on this week and a report was sent to the Ministry, New Delhi.
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.

The section has the following staff

- Law Officer.
- Assistant (Litigation)
- U.D.C -2
- L.D.C-1
- Peon

Disciplinary cases dealt in this year are as follows

Break up of disciplinary cases

- Group A – 1
- Group B – 11
- Group C – 7
- Group D – 21

Court cases dealt with in this year are as follows

1. Consumer Courts – 2
2. Lower Courts (Judicial Magistrate Court, District Munsif Court, Sub Court) – 11
3. District Courts & Family Courts – 6
4. Labour Court/ W.C Magistrate Courts – 1
5. C A T – 22
6. High Court – 25
7. Supreme Court – 2
12. Finance Wing

Dr. C. Adithan
Faculty-in-Charge (Finance & Accounts)

R. Viswanathan
Finance & Chief Accounts Officer

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 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 Accounts Officer under the overall control of Finance and Chief Accounts Officer (F&CAO)/Faculty-in-Charge (Finance & Accounts).
## Balance Sheet as at 31st March 2011

<table>
<thead>
<tr>
<th>Schedule No.</th>
<th>CORPUS/CAPITAL FUND AND LIABILITIES</th>
<th>Current year 2010-11</th>
<th>Previous Year 2009-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>CORPUS/CAPITAL FUND</td>
<td>469442736.40</td>
<td>4606788645.91</td>
</tr>
<tr>
<td>2</td>
<td>RESERVES AND SURPLUS :</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>3</td>
<td>EARMARKED/ENDOWMENT FUNDS</td>
<td>120014939.00</td>
<td>54677848.00</td>
</tr>
<tr>
<td>4</td>
<td>SECURED LOANS AND BORROWINGS</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>5</td>
<td>UNSECURED LOANS AND BORROWINGS</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>6</td>
<td>DEFERRED CREDIT LIABILITIES</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>7</td>
<td>CURRENT LIABILITIES AND PROVISIONS</td>
<td>38784476.00</td>
<td>357846154.01</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td>5202287351.40</td>
<td>5019312647.92</td>
</tr>
</tbody>
</table>

## ASSETS

1) **FIXED ASSETS**

<table>
<thead>
<tr>
<th>Schedule No.</th>
<th>ASSET DETAILED</th>
<th>Current year 2010-11</th>
<th>Previous Year 2009-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>GROSS BLOCK as on 31-03-2011</td>
<td>3271693691.16</td>
<td>3860018296.71</td>
</tr>
<tr>
<td></td>
<td>Less Depreciation</td>
<td>285485056.97</td>
<td>0.00</td>
</tr>
<tr>
<td></td>
<td>NET BLOCK as on 31-03-2011</td>
<td>2986208634.19</td>
<td>3860018296.71</td>
</tr>
<tr>
<td>9</td>
<td>INVESTMENTS-FROM EARMARKED/ENDOWMENT FUNDS</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>10</td>
<td>INVESTMENTS-OTHERS (Investment Others)</td>
<td>108518949.00</td>
<td>108518949.00</td>
</tr>
</tbody>
</table>

2) **CURRENT ASSETS, LOANS, ADVANCES AND OTHER ASSETS**

<table>
<thead>
<tr>
<th>Schedule No.</th>
<th>ASSET DETAILED</th>
<th>Current year 2010-11</th>
<th>Previous Year 2009-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>TOTAL</td>
<td>2107559768.21</td>
<td>1159294351.20</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td>5202287351.40</td>
<td>5019312647.92</td>
</tr>
</tbody>
</table>

---

**R. VISWANATHAN**  
Finance & Chief Accounts Officer  
JIPMER, Puducherry

**Dr. K.S.V.K. SUBBA RAO**  
Director  
JIPMER, Puducherry
## Income and Expenditure Account for the year ended 31st March 2011

<table>
<thead>
<tr>
<th>DETAILS</th>
<th>Schedule No.</th>
<th>Currency Year 2010 – 11</th>
<th>Previous Year 2009 – 10</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>PLAN</td>
<td>NON PLAN</td>
</tr>
<tr>
<td>Income from Sales &amp; Services</td>
<td>12</td>
<td>54416701.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Grants from Government of India</td>
<td></td>
<td>1845000000</td>
<td>1340000000</td>
</tr>
<tr>
<td>Transfer from JIPMER receipts SBI AC. 504</td>
<td></td>
<td>81700000</td>
<td>0.00</td>
</tr>
<tr>
<td>Grant-In-Aid Received from Central Government (Grants) (A)</td>
<td>13</td>
<td>1927000000.00</td>
<td>1340000000.00</td>
</tr>
<tr>
<td>Institutions for welfare bodies (Subsidies) (B)</td>
<td></td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>LC-deposit Credited Back</td>
<td></td>
<td>26760000.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Income from Fees/Subscriptions</td>
<td>14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>i) Misc Receipts</td>
<td></td>
<td>21909993.00</td>
<td>0.00</td>
</tr>
<tr>
<td>ii) Hospital Receipts</td>
<td></td>
<td>11300869.00</td>
<td>0.00</td>
</tr>
<tr>
<td>iii) Guest House Receipts</td>
<td></td>
<td>67500</td>
<td>0.00</td>
</tr>
<tr>
<td>iv) Receipt through Bank</td>
<td></td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>CBHI</td>
<td></td>
<td>3000000.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Drug- De - Addiction</td>
<td></td>
<td>600000.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Recovery Account</td>
<td></td>
<td>53579614.00</td>
<td>204983769.00</td>
</tr>
<tr>
<td>a) Academic Fund SB A/C No.30986618233</td>
<td></td>
<td>0.00</td>
<td>467200.00</td>
</tr>
<tr>
<td>b) Academic Fund SB A/C No.30506194792</td>
<td></td>
<td>0.00</td>
<td>24133.00</td>
</tr>
</tbody>
</table>
## Income and Expenditure Account for the year ended 31st March 2011

<table>
<thead>
<tr>
<th>DETAILS</th>
<th>Schedule No.</th>
<th>Currency Year 2010 – 11</th>
<th>Previous Year 2009 – 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>GFATM (College of Nursing) A/C No.30832711903</td>
<td></td>
<td>3575083.00</td>
<td>0.00</td>
</tr>
<tr>
<td><strong>TOTAL (SCHEDULE - 14)</strong></td>
<td></td>
<td>94033059.00</td>
<td>205430102.00</td>
</tr>
<tr>
<td>Income from Investments</td>
<td>15</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Income from Royalty / Publications etc.</td>
<td>16</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td><strong>Interest Earned</strong></td>
<td>17</td>
<td></td>
<td></td>
</tr>
<tr>
<td>On Term Deposits: On savings Accounts - Scheduled Banks</td>
<td></td>
<td>683386.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Grant-in-aid</td>
<td></td>
<td>8720253.00</td>
<td>0.00</td>
</tr>
<tr>
<td>a) Academic Fund SB A/C No.30586618233</td>
<td></td>
<td>855088.00</td>
<td>0.00</td>
</tr>
<tr>
<td>b) Academic Fund SB A/C No.30506194792</td>
<td></td>
<td>210619.00</td>
<td>0.00</td>
</tr>
<tr>
<td>GFATM (College of Nursing) A/C No.30832711903</td>
<td></td>
<td>37744.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Recoveries A/C No.31545908658</td>
<td></td>
<td>61964.00</td>
<td>0.00</td>
</tr>
<tr>
<td><strong>Total Interest Earned (Schedule 17)</strong></td>
<td></td>
<td>10569066.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Interest Accured (Schedule 17)</td>
<td></td>
<td>2463938.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Other Incomes</td>
<td>18</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Increase (decrease) in stock(Medicine)</td>
<td>19</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td><strong>TOTAL INCOME (A)</strong></td>
<td></td>
<td>2115242764.00</td>
<td>1545430102.00</td>
</tr>
</tbody>
</table>
## Income and Expenditure Account for the year ended 31st March 2011

<table>
<thead>
<tr>
<th>DETAILS</th>
<th>Schedule No.</th>
<th>Currency Year 2010 – 11</th>
<th>Previous Year 2009 – 10</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PLAN</td>
<td>NON PLAN</td>
<td>TOTAL</td>
</tr>
<tr>
<td>Establishment Expenses</td>
<td>20</td>
<td>388172185.00</td>
<td>847826650.00</td>
</tr>
<tr>
<td>Others Administrative Expenses</td>
<td>21</td>
<td>546783035.00</td>
<td>344087256.00</td>
</tr>
<tr>
<td>Exp.Grants/Subsidies etc</td>
<td>22</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>
</tr>
<tr>
<td>Depreciation (Net corresponding to Schedule 8)</td>
<td>23</td>
<td>0.00</td>
<td>285485056.97</td>
</tr>
<tr>
<td>TOTAL EXPENDITURE (B)</td>
<td></td>
<td>934955220.00</td>
<td>285485056.97</td>
</tr>
<tr>
<td>Balance being Surplus carried to corpus/ Capital Fund (Income A - Expenditure B)</td>
<td></td>
<td>1180287544.00</td>
<td>67929139.03</td>
</tr>
</tbody>
</table>

---

**R. VISWANATHAN**  
Finance & Chief Accounts Officer  
JIPMER, Puducherry

**Dr. K.S.V.K. SUBBA RAO**  
Director  
JIPMER, Puducherry
## Form of Financial Statements (Non-profit Organisations)

**Jawaharlal Institute of Post Graduate Medical Education and Research**

**Schedules Forming Part of Balance Sheet for the year ended 31-03-2011**

<table>
<thead>
<tr>
<th>SCHEDULE 1:</th>
<th>(Amt-Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CORPUS/CAPITAL FUND:</strong></td>
<td>Current year 2010-11</td>
</tr>
<tr>
<td>Balance at the Beginning of the year 01-04-2010</td>
<td></td>
</tr>
<tr>
<td>A. Opening Bank Balances as on 01.04.2010</td>
<td>642208039.00</td>
</tr>
<tr>
<td>B. Value of Fixed Assets as on 01-04-2010 (Net)</td>
<td>(–) 3860018296.71</td>
</tr>
<tr>
<td>Total Opening Balance</td>
<td>3414109989.00</td>
</tr>
<tr>
<td>Add Contribution towards corpus / Capital Fund</td>
<td></td>
</tr>
<tr>
<td>1. Fixed Asset Added during 2010-11</td>
<td>0.00</td>
</tr>
<tr>
<td>2. Loans and Advances</td>
<td>2511169.00</td>
</tr>
<tr>
<td>3. Inventories as on 31.03.2011</td>
<td>26853317.62</td>
</tr>
<tr>
<td>4. Sundry Debtors</td>
<td>2634430.00</td>
</tr>
<tr>
<td>5. Frankling Machine Balance</td>
<td>102347.75</td>
</tr>
<tr>
<td>TOTAL (1 to 5)</td>
<td>32101264.37</td>
</tr>
<tr>
<td>Add: Balance of net income transferred from the Income &amp; Expenditure Account</td>
<td>1248216683.03</td>
</tr>
<tr>
<td>Balance at the year end 31.03.2011</td>
<td>4694427936.40</td>
</tr>
</tbody>
</table>
### SCHEDULE 2: RESERVES AND SURPLUS

<table>
<thead>
<tr>
<th>DETAILS</th>
<th>Current year 2010-11</th>
<th>Previous year 2009-10</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1. Capital Reserve:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>As per last Account</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Addition during the year</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Less: Deductions during the year</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td><strong>2. Revaluation Reserve:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>As per Last Account</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Addition during the year</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Less: Deductions during the year</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td><strong>3. Special Reserve:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>As per last Account</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Addition during the year</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Less: Deductions during the year</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td><strong>4. General Reserve:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>As per last Account</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Addition during the year</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Less: Deductions during the year</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>0.00</td>
<td></td>
</tr>
</tbody>
</table>
## SCHEDULE 3: REMARKED/ENDOWMENT FUNDS

<table>
<thead>
<tr>
<th>DETAILS</th>
<th>(Amt-Rs) Current year 2010-11</th>
<th>Previous year 2009-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) Opening balance of the funds:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. <strong>Specific Fund</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Opening Balance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SBI A/C No. 10100030209</td>
<td>6126183.00</td>
<td>4151879.00</td>
</tr>
<tr>
<td>(as per expenditure statement)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BOB A/C No. 983402000000001</td>
<td>47567745.00</td>
<td>4440343.00</td>
</tr>
<tr>
<td>SBI A/C No. 30832711903</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td><strong>Opening Balance Total</strong></td>
<td><strong>53693928.00</strong></td>
<td><strong>8592222.00</strong></td>
</tr>
<tr>
<td><strong>Receipts</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SBI A/C No. 10100030209</td>
<td>11038075.00</td>
<td>13869050.00</td>
</tr>
<tr>
<td>Add uncleared cheques</td>
<td>299150.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Total Receipts</td>
<td><strong>11337225.00</strong></td>
<td><strong>8592222.00</strong></td>
</tr>
<tr>
<td>BOB A/C No. 983402000000001</td>
<td>2785283.00</td>
<td>49884192.00</td>
</tr>
<tr>
<td>SBI A/C No. 30832711903</td>
<td>–</td>
<td>4611500.00</td>
</tr>
<tr>
<td><strong>Receipts TOTAL</strong></td>
<td><strong>14122508.00</strong></td>
<td><strong>68364742.00</strong></td>
</tr>
<tr>
<td><strong>Expenditure</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SBI A/C No. 10100030209</td>
<td>8043440.00</td>
<td>11894746.00</td>
</tr>
<tr>
<td>BOB A/C No. 983402000000001</td>
<td>48277006.00</td>
<td>6756790.00</td>
</tr>
<tr>
<td>SBI A/C No. 30832711903</td>
<td>3630416.00</td>
<td></td>
</tr>
<tr>
<td><strong>Expenditure Total</strong></td>
<td><strong>56320446.00</strong></td>
<td><strong>22251952.00</strong></td>
</tr>
<tr>
<td><strong>Closing Balance</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SBI A/C No. 10100030209</td>
<td>9419968.00</td>
<td>6126183.00</td>
</tr>
<tr>
<td>BOB A/C No. 983402000000001</td>
<td>2076022.00</td>
<td>47567745.00</td>
</tr>
<tr>
<td>SBI A/C No. 30832711903</td>
<td>983920.00</td>
<td>983920.00</td>
</tr>
<tr>
<td><strong>Closing Balance Total</strong></td>
<td><strong>11495990.00</strong></td>
<td><strong>54677848.00</strong></td>
</tr>
</tbody>
</table>
### SCHEDULE 3: REMARKED/ENDOWMENT FUNDS

<table>
<thead>
<tr>
<th>DETAILS</th>
<th>Current year 2010-11</th>
<th>Previous year 2009-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>i. Donations/Grants (Endowment Fund) (Cash Section FDR)</td>
<td>1954049.00</td>
<td></td>
</tr>
<tr>
<td>ii. Income from investments made on account of funds</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>iii. Other addition (Specify nature) (Purchase Section FDR)</td>
<td>777900.00</td>
<td></td>
</tr>
<tr>
<td>LC Deposits as on 31.03.2011</td>
<td>22787000.00</td>
<td></td>
</tr>
<tr>
<td>Specific Fund Fixed Deposit in BOB</td>
<td>45000000.00</td>
<td></td>
</tr>
<tr>
<td>Term Deposit From (504)</td>
<td>38000000.00</td>
<td></td>
</tr>
<tr>
<td>TOTAL (b)</td>
<td>108518949.00</td>
<td></td>
</tr>
<tr>
<td>(c) Utilisation/Expenditure towards objective of funds</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(i) Capital Expenditure</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fixed Assets</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Others</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>(ii) Revenue Expenditure</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salaries, Wages and allowances etc.</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Rent</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Other Administrative expenses</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>TOTAL (c)</td>
<td>0.00</td>
<td></td>
</tr>
</tbody>
</table>

**NET BALANCE AS AT THE YEAR-END (a+b-c)**

<table>
<thead>
<tr>
<th>Current year 2010-11</th>
<th>Previous year 2009-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>120014939.00</td>
<td>54677848.00</td>
</tr>
</tbody>
</table>

**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 2010-11</th>
<th>Previous year 2009-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Central Government</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>2 State Government (Specify)</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>3 Financial Institutions</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>(a) Term Loans</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>(b) Interest accrued and due</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>4 Banks:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(a) Term Loans</td>
<td></td>
<td></td>
</tr>
<tr>
<td>– Interest accrued and due</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>(b) other Loans (specify)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>– Interest accrued and the Other Loans (specify)</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>5 Other Institutions and Agencies</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>6 Debentures and Bonds</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>7 Others (Specify)</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>0.00</td>
<td></td>
</tr>
</tbody>
</table>

Note: Amounts due within one year
## SCHEDULE 5: UNSECURED LOANS AND BORROWINGS

<table>
<thead>
<tr>
<th>DETAILS</th>
<th>Current year 2010-11</th>
<th>Previous year 2009-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Central Government</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>2 State Government (Specify)</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>3 Financial Institutions</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>4 Banks:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(a) Term Loans</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>(b) Other Loans (specify)</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>5 Other Institutions and Agencies</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>6 Debentures and Bonds</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>7 Fixed Deposits</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>8 Others (Specify)</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>0.00</strong></td>
<td></td>
</tr>
</tbody>
</table>

Note: Amounts due within one year

## SCHEDULE 6: DEFERRED CREDIT LIABILITIES

<table>
<thead>
<tr>
<th>DETAILS</th>
<th></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>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>0.00</strong></td>
</tr>
</tbody>
</table>

Note: Amount due within one year
### SCHEDULE 7: CURRENT LIABILITIES AND PROVISIONS

<table>
<thead>
<tr>
<th>DETAILS</th>
<th>Current year 2010-11</th>
<th>Previous year 2009-10</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A. CURRENT LIABILITIES</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Acceptances</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>2 Sundry Creditors:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 Advances Received</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>4 Interest accrued but not due on:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(a) Secured Loans/borrowings</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(b) Unsecured Loans/borrowings</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 Statutory Liabilities:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 Other current Liabilities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(a) Income &amp; Expenditure Adjustment including outstanding payments</td>
<td>0.00</td>
<td>16947811.01</td>
</tr>
<tr>
<td>(b) GPF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>i) Group ‘D’</td>
<td>30809848</td>
<td>27253305.00</td>
</tr>
<tr>
<td>ii) Other than Group ‘D’</td>
<td>310706297</td>
<td>297116367.00</td>
</tr>
<tr>
<td>(c) Education Deposit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(d) Security Deposit / EMD</td>
<td>21184651.00</td>
<td>9968188.00</td>
</tr>
<tr>
<td>(e) Time Barred Cheques</td>
<td>370599.00</td>
<td>419107.00</td>
</tr>
<tr>
<td><strong>TOTAL (A)</strong></td>
<td>369607681.00</td>
<td>357346154.01</td>
</tr>
</tbody>
</table>
## SCHEDULE 7: CURRENT LIABILITIES AND PROVISIONS

<table>
<thead>
<tr>
<th>DETAILS</th>
<th>Current year 2010-11</th>
<th>Previous year 2009-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>B PROVISIONS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 For Taxation</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>2 Gratuity</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>3 Superannuation/Pension</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>4 Accumulated Leave Encashment</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>5 Trade Warranties/Claims</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>6 Others (Specify) Audit Fee</td>
<td>500000.00</td>
<td>500000.00</td>
</tr>
<tr>
<td>7 MACP arrear provision for retired employees</td>
<td>150000.00</td>
<td>0.00</td>
</tr>
<tr>
<td>8 Salary Difference (03/10 &amp; 03/11) (Adjustments)</td>
<td>17586795.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

**TOTAL (B)** | **18236795.00** | **500000.00** |

**TOTAL (A+B)** | **38784476.00** | **357846154.01**
| Sl. No. | Type of Assets | Jipmer IPAI IPAI Assets Net Assets added during Assets as at Rate of Assets as Rate of Assets added at 1/4/2010 valuation Valuation Net Block as at 2010-11 31-03-2011 of Depreciation 01-04-2009 the period 31-03-2001 |
|--------|----------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 1      | Land           | 120000.00     | 0.00           | 120000.00      | 0.00           | 120000.00      | 0.00%          | 0.00           | 0.00           | 120000.00      |
| 2      | Building Non-Residential | 2115080000.00 | –833347515.28 | 1281732484.72 | 12273091.00   | 1294005575.72 | 10.00%         | 128173248.47  | 1227309.10    | 1294005575.72 |
| 3      | Building Residential | 20140000.00  | 163897492.00  | 184037492.00  | 0.00           | 184037492.00  | 5.00%          | 9201874.60    | 0.00           | 9201874.60    |
| 4      | Machinery & Equipments |             |               |               |               |               |                |                |                |                |
|        | (a) General Equipments | 665150593.34 | –300401952.34 | 364748641.00  | 8781039.00    | 373529700.00  | 15.00%         | 54712296.15   | 1237137.00    | 55949433.15   |
|        | (b) Life Saving Equipments | 0.00       | 5258804.00    | 5258804.00    | 5743815.00    | 5743815.00    | 40.00%         | 2103521.60    | 15759299.00   | 17862820.60   |
|        | TOTAL M & E     | 665150593.34 | 295143148.34  | 370007445.00  | 60566070.00   | 370007445.00  | 0.00%          | 56815817.75   | 16996436.00   | 73812253.75   |
| 5      | Printing & stationary | 2325352.33  | –2325352.33   | 0.00           | 0.00           | 0.00           | 0.00%          | 0.00           | 0.00           | 0.00           |
| 6      | COMPUTER        |               |               |               |               |               |                |                |                |                |
|        | (1) AIS Unit    | 5660460.00    | –4963146.00   | 693714.00     | 1124173.00    | 1847857.00    | 60.00%         | 418388.40     | 672883.80     | 1091272.20    |
|        | (2) HIS Unit    | 2348034.60    | –2306216.60   | 41818.00      | 128115.00     | 169933.00     | 60.00%         | 25090.80      | 50469.00      | 75559.80      |
|        | (3) Furniture   | 1233104.41    | –1233104.41   | 0.00           | 0.00           | 0.00           | 0.00%          | 0.00           | 0.00           | 0.00           |
|        | TOTAL Computer  | 9241599.01    | 8502467.01    | 739132.00     | 1249588.00    | 1374526.00    | 15.00%         | 443479.20     | 723352.80     | 1166832.00    |
| 7      | Motor Vehicles  | 9107262.26    | –6659200.26   | 2448062.00    | 0.00           | 2448062.00    | 15.00%         | 367209.30     | 0.00           | 367209.30     |
| 8      | Central Library Books | 10096807.90 | –9193456.90  | 966341.00     | 5467491.00    | 6430942.00    | 60.00%         | 578010.60     | 2282865.00   | 2860675.60    |
| 9      | Central Library Journals | 0.00     | 0.00          | 0.00           | 0.00           | 0.00           | 100.00%        | 0.00           | 8163000.00  | 8163000.00    |
| 10     | Office Furniture | 19956092.59  | –6902698.59   | 13053394.00   | 5719035.00    | 18779450.00   | 10.00%         | 13053394.00   | 519131.00    | 1824470.40    |
| 11     | Electrical Installation | 421913614.28 | 0.00         | 421913614.28  | 0.00           | 421913614.28  | 13.91%         | 58688183.75   | 0.00           | 58688183.75   |
| 12     | Work in Progress | 496886975.00 | 0.00          | 496886975.00  | 397059403.16  | 893946378.16  | 0.00%          | 0.00           | 0.00           | 893946378.16  |
| TOTAL  |               | 3860018296.71 | 1088116346.71 | 2771901950.00 | 499791741.16  | 3271693691.16 | 255573163.07  | 2991893.90    | 285485056.97  | 2986208634.19 |
### SCHEDULE 9: INVESTMENTS FROM EARMARKED/ENDOWMENT FUNDS

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>DETAILS</th>
<th>Current year 2009-10</th>
<th>Previous year 2009-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>In Government Securities</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Other approved Securities</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Shares</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Debentures and Bonds</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Subsidiaries and Joint Ventures</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Others (to be specified)</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td><strong>0.00</strong></td>
<td></td>
</tr>
</tbody>
</table>

### SCHEDULE 10: INVESTMENT – OTHERS

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>DETAILS</th>
<th>Current year 2009-10</th>
<th>Previous year 2009-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>In Government Securities</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Other approved Securities</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Shares</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Debentures and Bonds</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Subsidiaries and Joint Ventures</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Others (to be specified) -</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>1)</td>
<td>Term Deposit (From 504)</td>
<td>38000000.00</td>
<td></td>
</tr>
<tr>
<td>2)</td>
<td>Fixed Deposit ( Purchase section)</td>
<td>1954049.00</td>
<td></td>
</tr>
<tr>
<td>3)</td>
<td>Fixed Deposit ( Cash Accounts)</td>
<td>777900.00</td>
<td></td>
</tr>
<tr>
<td>4)</td>
<td>LC Deposits as on 31.03.2011</td>
<td>22787000.00</td>
<td></td>
</tr>
<tr>
<td>5)</td>
<td>GFATM Fixed Deposit (BOB)</td>
<td>45000000.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL Fixed Deposit (BOB)</strong></td>
<td><strong>108518949.00</strong></td>
<td></td>
</tr>
</tbody>
</table>
Jawaharlal Institute of Post Graduate Medical Education and Research
Schedules Forming Part of Balance Sheet for the year ended 31-03-2011

**SCHEDULE 11: CURRENT ASSETS, LOANS, ADVANCES ETC.**

<table>
<thead>
<tr>
<th>SL No.</th>
<th>DETAILS</th>
<th>Current Year 2010-11</th>
<th>Previous Year 2009-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>INVENTORIES CLOSING STOCK (DRUGS)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Disinfectant Store</td>
<td>1955575.30</td>
<td>2782519.00</td>
</tr>
<tr>
<td></td>
<td>Surgical dressing Store</td>
<td>1248451.00</td>
<td>4810809.00</td>
</tr>
<tr>
<td></td>
<td>Chemical Store</td>
<td>225109.80</td>
<td>215841.00</td>
</tr>
<tr>
<td></td>
<td>Tablet Store</td>
<td>6777100.60</td>
<td>5670669.00</td>
</tr>
<tr>
<td></td>
<td>Injection Store</td>
<td>16647080.92</td>
<td>16772366.00</td>
</tr>
<tr>
<td></td>
<td><strong>SUB TOTAL</strong> (1)</td>
<td><strong>26853317.62</strong></td>
<td><strong>30252204.00</strong></td>
</tr>
<tr>
<td>2</td>
<td>SUNDARY DEBTORS: (DETAILS IN ANNEXURE A)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2634430.00</td>
<td>6232920.00</td>
</tr>
<tr>
<td>3</td>
<td>BANK BALANCES: WITH SCHEDULED BANKS</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cash at Bank Annexure (A)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cash in Hand</td>
<td>1653501.90</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cheque due for Payment</td>
<td>6693099.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Permanent Advance</td>
<td>80000.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Temporary Advance</td>
<td>15690729.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GIA Net Bank Balance</td>
<td>1135805298.00</td>
<td></td>
</tr>
<tr>
<td>1)</td>
<td>On Current Accounts</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>i) Grant-in-Aid SBI Account 30714702008</td>
<td>1159922628.00</td>
<td>551183838.00</td>
</tr>
<tr>
<td>2)</td>
<td>Misc Credits</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>i) JIPMER receipts Account 30749579504</td>
<td>25396972.00</td>
<td>57754137.00</td>
</tr>
<tr>
<td></td>
<td>ii) CBHI</td>
<td>1420342.00</td>
<td>13605.00</td>
</tr>
<tr>
<td></td>
<td>iii) Drug De-addiction (Due to salary Difference)</td>
<td>12734.00</td>
<td>284051.00</td>
</tr>
<tr>
<td></td>
<td>iv) Recovery Account 31545908658 (OLD.NO.30749579231)</td>
<td>54396576.00</td>
<td>754998.00</td>
</tr>
<tr>
<td></td>
<td>v) GFATM (College of Nursing) A/C No.30892711903</td>
<td>1103190.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>
Jawaharlal Institute of Post Graduate Medical Education and Research
Schedules Forming Part of Balance Sheet for the year ended 31-03-2011

**SCHEDULE 11: CURRENT ASSETS, LOANS, ADVANCES ETC.**

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>DETAILS</th>
<th>Current Year 2010-11</th>
<th>Previous Year 2009-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>3)</td>
<td>On Savings Accounts i) Academic Fund SBI Ac.No.30586618233</td>
<td>25256078.00</td>
<td>23933790.00</td>
</tr>
<tr>
<td></td>
<td>ii) Academic Fund SBI Ac.No.30506194792</td>
<td>6159928.00</td>
<td>5936650.00</td>
</tr>
<tr>
<td>4)</td>
<td>NPS outstanding</td>
<td>0.00</td>
<td>747101.00</td>
</tr>
<tr>
<td></td>
<td><strong>SUB TOTAL (3)</strong></td>
<td><strong>1273668448.00</strong></td>
<td><strong>1273668448.00</strong></td>
</tr>
<tr>
<td>4</td>
<td>Post Office-Savings Accounts</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>5</td>
<td>Specific Fund Balance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1)</td>
<td>Specific Fund SBI AC 30832711903</td>
<td>0.00</td>
<td>6126183.00</td>
</tr>
<tr>
<td>2)</td>
<td>Specific Fund BOB AC 98340200000001</td>
<td>2076022.00</td>
<td>47567745.00</td>
</tr>
<tr>
<td>3)</td>
<td>Specific Fund SBI AC 10100030209</td>
<td>9419968.00</td>
<td>983920.00</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL 5</strong></td>
<td><strong>11495990.00</strong></td>
<td><strong>11495990.00</strong></td>
</tr>
<tr>
<td>6</td>
<td>Frankling Machine Balance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Time Barred Cheques credit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Interest Accured</td>
<td>2463938.00</td>
<td>2463938.00</td>
</tr>
<tr>
<td>9</td>
<td>LC Payments</td>
<td>50294691.00</td>
<td>50294691.00</td>
</tr>
<tr>
<td><strong>TOTAL (A) CURRENT ASSETS (1 TO 9)</strong></td>
<td></td>
<td><strong>1367883761.37</strong></td>
<td><strong>732205199.20</strong></td>
</tr>
</tbody>
</table>
### Jawaharlal Institute of Post Graduate Medical Education and Research

**Schedules Forming Part of Balance Sheet for the year ended 31-03-2011**

#### SCHEDULE 11: CURRENT ASSETS, LOANS, ADVANCES ETC.

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>DETAILS</th>
<th>Current Year 2010-11</th>
<th>Previous Year 2009-10</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>B. LOANS, ADVANCES AND OTHER ASSETS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>LOANS &amp; ADVANCES (PAO)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. HBA</td>
<td>1415887.00</td>
<td>1823513.00</td>
</tr>
<tr>
<td></td>
<td>b. MCA</td>
<td>0.00</td>
<td>43280.00</td>
</tr>
<tr>
<td></td>
<td>c. OMCA</td>
<td>1095282.00</td>
<td>1781822.00</td>
</tr>
<tr>
<td></td>
<td>d. OTHER ADVANCE</td>
<td>0.00</td>
<td>7318.00</td>
</tr>
<tr>
<td></td>
<td><strong>Total A+B+C+D</strong></td>
<td>2511169.00</td>
<td>3655933.00</td>
</tr>
<tr>
<td>2</td>
<td>GPF &amp; Deposits</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. GROUP 'D'</td>
<td>30809848.00</td>
<td>27253305.00</td>
</tr>
<tr>
<td></td>
<td>b. OTHER THAN GROUP 'D'</td>
<td>310706297.00</td>
<td>297116367.00</td>
</tr>
<tr>
<td></td>
<td><strong>Total Education Deposit</strong></td>
<td>341516145.00</td>
<td>324369672.00</td>
</tr>
<tr>
<td></td>
<td>c. EDUCATION DEPOSIT (up to 2009)</td>
<td>5499286.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EDUCATION DEPOSIT (01.04.2009 to 31.03.2011)</td>
<td>1037093.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total Education Deposit</strong></td>
<td>6536286.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>d. SECURITY DEPOSIT</td>
<td>21184651.00</td>
<td>9968188.00</td>
</tr>
<tr>
<td></td>
<td><strong>Total A+B+C+D</strong></td>
<td>27720937.00</td>
<td>15609564.00</td>
</tr>
<tr>
<td>3</td>
<td>Income Accrued</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>4</td>
<td>Claims Receivable</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>5</td>
<td>Others (Specify)</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>6</td>
<td>Books and Journals</td>
<td>0.00</td>
<td>14597039.00</td>
</tr>
<tr>
<td>7</td>
<td>Research Activities Advance Payment</td>
<td>0.00</td>
<td>1188942.00</td>
</tr>
<tr>
<td>8</td>
<td>Letter of Credit Provision (M&amp;E)</td>
<td>0.00</td>
<td>67668082.00</td>
</tr>
<tr>
<td>9</td>
<td>Advance for GPF</td>
<td>0.00</td>
<td>23740210.00</td>
</tr>
<tr>
<td>10</td>
<td>Advance payment to HLL</td>
<td>344187545.84</td>
<td>344187545.84</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL (1 to 10)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>B. LOANS, ADVANCES AND OTHER ASSETS</strong></td>
<td>739676006.84</td>
<td>427089152.00</td>
</tr>
<tr>
<td></td>
<td><strong>GRAND TOTAL (A+B)</strong></td>
<td>2107559768.21</td>
<td>115924351.20</td>
</tr>
</tbody>
</table>
**SCHEDULE 12**
Income from Sales & Services 54416701.00 0.00 54416701.00 0.00 0.00 0.00

**SCHEDULE 13**
**GRANTS / SUBSIDIES**
(Receivables, Irrevocable Grants & Subsidies Received)
- Grants from Government of India 1843000000.00 1340000000.00 3183000000.00
- Transfer from JIPMER receipts SBI AC. 504 81700000.00 0.00 81700000.00
- Grant-In-Aid Received from Central Government (Grants) (A) 1927000000.00 1340000000.00 3267000000.00
- Institutions for welfare bodies (Subsidies) (B) 0.00 0.00 0.00

**SCHEDULE 14**
**FEES / SUBSCRIPTIONS**
- Misc Receipts 21909993.00 0.00 21909993.00 30091402.00 0.00 30091402.00
- Hospital Receipts 11300869.00 0.00 11300869.00 7099603.00 0.00 7099603.00
- Guest House Receipts 67500.00 0.00 67500.00 172434.00 0.00 172434.00
- Receipt through Bank 0.00 0.00 0.00 20392268.00 0.00 20392268.00
- CBHI 3000000.00 0.00 3000000.00 1000000.00 0.00 1000000.00
- Drug - De - Addiction 600000.00 0.00 600000.00 900000.00 0.00 900000.00
- Recovery Account 53579614.00 204938769.00 258518383.00 37329363.00 0.00 37329363.00
- Academic Fund SB A/C No.3058618233 0.00 467200.00 467200.00 0.00 16472286.00 16472286.00
- Academic Fund SB A/C No.30506194792 0.00 24133.00 24133.00 0.00 6252636.00 6252636.00
- GFATM (College of Nursing) A/C No.308327113903 3575083.00 0.00 3575083.00 0.00 0.00 0.00
**TOTAL (SCHEDULE - 14)** 94033059.00 205430102.00 299463161.00 96984346.00 22724922.00 119709268.00

**SCHEDULE 15**
INCOME FROM INVESTMENTS
(Income on Invest. From Earmarked / Endowment Funds transferred to Funds) 0.00 0.00 0.00 0.00 0.00 0.00

**SCHEDULE 16**
INCOME FROM ROYALTY, PUBLICATION ETC. 0.00 0.00 0.00 0.00 0.00 0.00
### Jawaharlal Institute of Post Graduate Medical Education and Research

#### Schedules Forming Part of Balance Sheet for the year ended 31-03-2011

<table>
<thead>
<tr>
<th>DETAILS</th>
<th>Current Year 2010-11</th>
<th>Previous Year 2009-10</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PLAN</td>
<td>NONPLAN</td>
</tr>
<tr>
<td><strong>SCHEDULE 17</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>INTEREST EARNED</td>
<td></td>
<td></td>
</tr>
<tr>
<td>On Term Deposits:</td>
<td>683398.00</td>
<td>0.00</td>
</tr>
<tr>
<td>On savings Accounts - Scheduled Banks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grant- in - aid</td>
<td>8720253.00</td>
<td>0.00</td>
</tr>
<tr>
<td>a) Academic Fund SBA/C No.30586618233</td>
<td>855088.00</td>
<td>0.00</td>
</tr>
<tr>
<td>b) Academic Fund SBA/C No.30506194792</td>
<td>210619.00</td>
<td>0.00</td>
</tr>
<tr>
<td>GFATM (College of Nursing) A/C No.30832711903</td>
<td>37744.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Recoveries A/C No.31545908658</td>
<td>61964.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Interest on Loans</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Total (SCHEDULE - 17)</td>
<td>10569066.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Interest Accured</td>
<td></td>
<td></td>
</tr>
<tr>
<td>a) Academic Fund SBA/C No.30586618233</td>
<td>218944.00</td>
<td>0.00</td>
</tr>
<tr>
<td>b) Academic Fund SBA/C No.30506194792</td>
<td>53400.00</td>
<td>0.00</td>
</tr>
<tr>
<td>GFATM (College of Nursing) A/C No.30832711903</td>
<td>10106.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Recoveries A/C No.31545908658</td>
<td>30982.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Interest on LC Deposit</td>
<td>213164.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Interest on Fixed Deposit ( SBI A/C ) 504</td>
<td>49392.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Interest on Fixed Deposit (BOB A/C) 209</td>
<td>1443750.00</td>
<td>0.00</td>
</tr>
<tr>
<td>TOTAL Interest Accured</td>
<td>2463938.00</td>
<td>0.00</td>
</tr>
<tr>
<td><strong>SCHEDULE 18</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OTHER INCOME</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td><strong>SCHEDULE 19</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Increase/ Decrease in stock (Medicine)</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>
Jawaharlal Institute of Post Graduate Medical Education and Research
Schedules Forming Part of Balance Sheet for the year ended 31-03-2011

<table>
<thead>
<tr>
<th>DETAILS</th>
<th>Current Year 2010-11</th>
<th></th>
<th>Previous Year 2009-10</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PLAN</td>
<td>NONPLAN</td>
<td>TOTAL</td>
<td>PLAN</td>
</tr>
<tr>
<td>Schedule 20</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Establishment Expenses (A)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pay</td>
<td>133978805.00</td>
<td>313788216.00</td>
<td>447767021.00</td>
<td>102932955.00</td>
</tr>
<tr>
<td>Grade Pay</td>
<td>40759828.00</td>
<td>87900373.00</td>
<td>128660201.00</td>
<td>31364091.00</td>
</tr>
<tr>
<td>Non Practicing Allowances</td>
<td>7241799.00</td>
<td>4650157.00</td>
<td>53291956.00</td>
<td>3197615.00</td>
</tr>
<tr>
<td>Personal Pay</td>
<td>920106.00</td>
<td>1984846.00</td>
<td>2904952.00</td>
<td>867160.00</td>
</tr>
<tr>
<td>Special Pay</td>
<td>306307.00</td>
<td>346189.00</td>
<td>652496.00</td>
<td>80560.00</td>
</tr>
<tr>
<td>Dearness Allowances</td>
<td>75017991.00</td>
<td>194273524.00</td>
<td>269291232.00</td>
<td>36281544.00</td>
</tr>
<tr>
<td>House Rent Allowances</td>
<td>29933957.00</td>
<td>57809527.00</td>
<td>87743484.00</td>
<td>23087473.00</td>
</tr>
<tr>
<td>Transport Allowances</td>
<td>11683056.00</td>
<td>34218831.00</td>
<td>45801987.00</td>
<td>788717.00</td>
</tr>
<tr>
<td>Patient Care Allowances</td>
<td>2137335.00</td>
<td>704532.00</td>
<td>2841857.00</td>
<td>249199.00</td>
</tr>
<tr>
<td>Post Graduate Allowances</td>
<td>7000.00</td>
<td>126200.00</td>
<td>133200.00</td>
<td>0.00</td>
</tr>
<tr>
<td>HGA</td>
<td>6452.00</td>
<td>40200.00</td>
<td>46652.00</td>
<td>2849.00</td>
</tr>
<tr>
<td>Nursing Allowances</td>
<td>15078769.00</td>
<td>1279783.00</td>
<td>27876532.00</td>
<td>12016774.00</td>
</tr>
<tr>
<td>Uniform Allowances</td>
<td>2370403.00</td>
<td>1982824.00</td>
<td>4353027.00</td>
<td>2529833.00</td>
</tr>
<tr>
<td>Washing Allowances</td>
<td>1809449.00</td>
<td>2299829.00</td>
<td>410931.00</td>
<td>143101.00</td>
</tr>
<tr>
<td>Academician Allowances</td>
<td>831170.00</td>
<td>1357152.00</td>
<td>2188662.00</td>
<td>47042.00</td>
</tr>
<tr>
<td>New Pension Scheme (NPS)</td>
<td>11905499.00</td>
<td>7367834.00</td>
<td>19273433.00</td>
<td>4212562.00</td>
</tr>
<tr>
<td>Others</td>
<td>45588878.00</td>
<td>6732307.00</td>
<td>112921955.00</td>
<td>48012827.00</td>
</tr>
<tr>
<td>Bonus</td>
<td>2170829.00</td>
<td>4288505.00</td>
<td>6467334.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Stipend</td>
<td>0.00</td>
<td>1127800.00</td>
<td>1127800.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Refund</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Less: Festival Advance</td>
<td>-685800.00</td>
<td>-1825000.00</td>
<td>-2510000.00</td>
<td>-711600.00</td>
</tr>
<tr>
<td>Less: Over Payment</td>
<td>-458100.00</td>
<td>-1660000.00</td>
<td>-2118000.00</td>
<td>-386273.00</td>
</tr>
<tr>
<td>LESS: Drug De-addiction</td>
<td>-900955.00</td>
<td>0.00</td>
<td>-900955.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Salary Difference (03/10 &amp; 03/11) (Adjustments)</td>
<td>8454355.00</td>
<td>9132800.00</td>
<td>17587155.00</td>
<td>6958109.00</td>
</tr>
<tr>
<td>Salary other adjustments (Transfer Entries)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>7940.00</td>
</tr>
<tr>
<td>Total Establishment Expenses (A)</td>
<td>388172185.00</td>
<td>847928650.00</td>
<td>1236100835.00</td>
<td>281022149.00</td>
</tr>
</tbody>
</table>
### Jawaharlal Institute of Post Graduate Medical Education and Research

**Schedules Forming Part of Balance Sheet for the year ended 31-03-2011**

<table>
<thead>
<tr>
<th>DETAILS</th>
<th>Current Year 2010-11</th>
<th>Previous Year 2009-10</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PLAN</td>
<td>NONPLAN</td>
</tr>
<tr>
<td><strong>SCHEDULE 21</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Others Administrative Expenses (B)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wages</td>
<td>2955822.00</td>
<td>8658973.00</td>
</tr>
<tr>
<td>Travel Expenses</td>
<td>999914.00</td>
<td>5593850.00</td>
</tr>
<tr>
<td>Office Expenses</td>
<td>10128273.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Supply &amp; Materials</td>
<td>63134009.00</td>
<td>206346743.00</td>
</tr>
<tr>
<td>Repair &amp; Maintenance</td>
<td>246195.00</td>
<td>615463.00</td>
</tr>
<tr>
<td>Books, Journals and Book Bank for SC/ST</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Motor Vehicle (Maintenance)</td>
<td>1339511.00</td>
<td>1767547.00</td>
</tr>
<tr>
<td>Machinery &amp; Equipments</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Others Charges</td>
<td>736343.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Information Technology</td>
<td>423900.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Rent &amp; Taxes</td>
<td>2511600.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Professional Services</td>
<td>0.00</td>
<td>1490060.00</td>
</tr>
<tr>
<td>Scholarship</td>
<td>0.00</td>
<td>2033765.00</td>
</tr>
<tr>
<td>Audit Fee provision</td>
<td>0.00</td>
<td>500000.00</td>
</tr>
<tr>
<td>MACP arrear provision for retired employees</td>
<td>0.00</td>
<td>150000.00</td>
</tr>
<tr>
<td>Maintenance of Building</td>
<td>0.00</td>
<td>9723824.00</td>
</tr>
<tr>
<td>Capital Major Works</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Advance for GPF</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>NPS Cleared old balance</td>
<td>0.00</td>
<td>747101.00</td>
</tr>
<tr>
<td>LC Payments</td>
<td>3255000.00</td>
<td>0.00</td>
</tr>
<tr>
<td><strong>G-I-AID Other Administrative Expenses (Total B1)</strong></td>
<td>21582247.00</td>
<td>344087256.00</td>
</tr>
<tr>
<td><strong>G-I-AID Expenses Total A + B1</strong></td>
<td>603994612.00</td>
<td>119201506.00</td>
</tr>
</tbody>
</table>
### Jawaharlal Institute of Post Graduate Medical Education and Research
#### Schedules Forming Part of Balance Sheet for the year ended 31-03-2011

#### SCHEDULE 21

**Others Administrative Expenses (B2)**

<table>
<thead>
<tr>
<th>Details</th>
<th>Plan</th>
<th>Nonplan</th>
<th>Total</th>
<th>Previous Year 2009-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Add Drug - De - Addiction</td>
<td>871317.00</td>
<td>0.00</td>
<td>871317.00</td>
<td>615949.00</td>
</tr>
<tr>
<td>2. CBHI</td>
<td>1593263.00</td>
<td>0.00</td>
<td>1593263.00</td>
<td>986395.00</td>
</tr>
<tr>
<td>3. Recovery Account 30749579231 New A/C (658) = E</td>
<td>204838769.00</td>
<td>0.00</td>
<td>204838769.00</td>
<td>36573641.00</td>
</tr>
<tr>
<td>4. Bank charges GIA 30714702008</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>11500.00</td>
</tr>
<tr>
<td>5. Bank charges 30749579504</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>1570.00</td>
</tr>
<tr>
<td>6. JIPMER Receipts 30749579504</td>
<td>120052228.00</td>
<td>0.00</td>
<td>120052228.00</td>
<td>0.00</td>
</tr>
<tr>
<td>7. Academic Fund SBI AC 30586618233</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>6485580.00</td>
</tr>
<tr>
<td>8. Academic Fund SBI AC 30506194792</td>
<td>11474.00</td>
<td>0.00</td>
<td>11474.00</td>
<td>1581529.00</td>
</tr>
<tr>
<td>9. GFATM (College of Nursing) A/C No.30832711903</td>
<td>3493557.00</td>
<td>0.00</td>
<td>3493557.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

**Total 1 to 7 (B2)**

<table>
<thead>
<tr>
<th></th>
<th>Plan</th>
<th>Nonplan</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>330960608.00</td>
<td>0.00</td>
<td>330960608.00</td>
</tr>
</tbody>
</table>

**Sch. 21 - Other Administrative Expenses**

<table>
<thead>
<tr>
<th>Plan</th>
<th>Nonplan</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>34087256.00</td>
<td>0.00</td>
<td>34087256.00</td>
</tr>
<tr>
<td>89087021.00</td>
<td>0.00</td>
<td>89087021.00</td>
</tr>
<tr>
<td>634734532.00</td>
<td>0.00</td>
<td>634734532.00</td>
</tr>
<tr>
<td>350635688.00</td>
<td>0.00</td>
<td>350635688.00</td>
</tr>
<tr>
<td>985379230.00</td>
<td>0.00</td>
<td>985379230.00</td>
</tr>
</tbody>
</table>

**Total Sch. 20 (A) + Sch. 21 (B1)+(B2)**

<table>
<thead>
<tr>
<th></th>
<th>Plan</th>
<th>Nonplan</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>944652120.00</td>
<td>1192015906.00</td>
<td>212821126.00</td>
<td></td>
</tr>
<tr>
<td>915766681.00</td>
<td>1262541872.00</td>
<td>2178307553.00</td>
<td></td>
</tr>
</tbody>
</table>

#### SCHEDULE 22

**Expenditure on Grants, Subsidies etc.**

| A) Grants given to institute/organisations | 0.00 | 0.00 | 0.00 | 0.00 |
| B) Subsidies given to Institutions/organisations | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Expenditure on Grants/Subsidies etc | 0.00 | 0.00 | 0.00 | 0.00 |

#### SCHEDULE 23

**Interest.**

| A) On Fixed Loans | 0.00 | 0.00 | 0.00 | 0.00 |
| B) On others Loans (Including Bank Charges) | 0.00 | 0.00 | 0.00 | 0.00 |
| C) Others (Specify) | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Interest (D) | 0.00 | 0.00 | 0.00 | 0.00 |

---

R. VISWANATHAN  
Finance & Chief Accounts Officer  
JIPMER, Puducherry

Dr. K.S.V.K. SUBBARAO  
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 31.03.2011

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 an 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 guide lines 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 of the Assets is in progress.

3. INVESTMENTS

The Grant-In-Aid received in nine Installments during the year 2010-11 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.

5.3. In respect of Assets 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.

JIPMER 2010-2011 / 546
6. **ACCOUNTING FOR SALES**

Sales include sale of application forms/prospectus.

7. **GOVERNMENT GRANTS/SUBSIDIES**

The Opening Balance as on 1-04-2010 is Rs. 55.17 crores (after including an Amount of Rs 615949/- being the expenditure for Drug-De-Addiction which was inadvertently included in the Receipts and Payments Account of Grant-In-Aid in the Annual Accounts of 2009-10) The Receipts / Payments for the allotment of Drug – De – Addiction is separately maintained.

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.

12. **VALUATION OF FIXED ASSETS**

The valuation of the fixed assets of JIPMER has been completed by the Institute of Public Auditors of India, Chennai Chapter. Based on the report, necessary corrections in the opening balance of fixed assets of 2010-11 have been incorporated and accordingly depreciation has been claimed in the Annual Financial Statement of F.Y 2010-11.
## Jawaharlal Institute of Post Graduate Medical Education and Research
### Receipts & Payments Account for the year 2010- 2011

<table>
<thead>
<tr>
<th>ITEMS</th>
<th>PLAN</th>
<th>NONPLAN</th>
<th>TOTAL</th>
<th>PLAN</th>
<th>NONPLAN</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPENING BALANCE ( A )</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1) GIA SBI A/C no. 2008 Cash at Bank (GIA)</td>
<td>252959208.00</td>
<td>298224630.00</td>
<td>551183838.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>OB Correction</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drug -De- Addiction</td>
<td>615949.00</td>
<td>0.00</td>
<td>615949.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Miscellaneous Classification in R&amp;P(wrongly Post in N.PLAN)</td>
<td>-1188942.00</td>
<td>1188942.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Mis.Classin R&amp;P</td>
<td>-2400000.00</td>
<td>2400000.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>OB Correction Total</td>
<td>-2972993.00</td>
<td>3588942.00</td>
<td>615949.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Corrected Opening Balance (1-4-2010)</td>
<td>249966215.00</td>
<td>301813572.00</td>
<td>551799787.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Jipmer Receipts 504</td>
<td>57754137.00</td>
<td>0.00</td>
<td>57754137.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>CBHI</td>
<td>13605.00</td>
<td>0.00</td>
<td>13605.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Drug -De- Addiction</td>
<td>284051.00</td>
<td>0.00</td>
<td>284051.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>a) Academic Fund SBA/C No.30586618233</td>
<td>23933790.00</td>
<td>0.00</td>
<td>23933790.00</td>
<td>1341616.00</td>
<td>0.00</td>
<td>1341616.00</td>
</tr>
<tr>
<td>b) Academic Fund SBA/C No.30506194792</td>
<td>5936650.00</td>
<td>0.00</td>
<td>5936650.00</td>
<td>1162061.00</td>
<td>0.00</td>
<td>1162061.00</td>
</tr>
<tr>
<td>GFATM (College of Nursing) A/C No.30832711903</td>
<td>983920.00</td>
<td>0.00</td>
<td>983920.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Recovery Account (231)</td>
<td>754988.00</td>
<td>0.00</td>
<td>754988.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Nps Out standing</td>
<td>0.00</td>
<td>747101.00</td>
<td>747101.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Opening Balance Cash at bank Total (A)</td>
<td>339647366.00</td>
<td>302560673.00</td>
<td>642208039.00</td>
<td>14578177.00</td>
<td>0.00</td>
<td>14578177.00</td>
</tr>
<tr>
<td>Investment (B)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>JIPMER Receipts 504 ( C )</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grants from Government of India</td>
<td>1845300000.00</td>
<td>1340000000.00</td>
<td>3185300000.00</td>
<td>1150000000.00</td>
<td>1600000000.00</td>
<td>2750000000.00</td>
</tr>
<tr>
<td>Transfer from JIPMER receipts SBI AC. 504</td>
<td>81700000.00</td>
<td>0.00</td>
<td>81700000.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Total</td>
<td>1927000000.00</td>
<td>1340000000.00</td>
<td>3267000000.00</td>
<td>1150000000.00</td>
<td>1600000000.00</td>
<td>2750000000.00</td>
</tr>
</tbody>
</table>
# Receipts & Payments Account for the year 2010-2011

## Jawaharlal Institute of Post Graduate Medical Education and Research

### RECEIPTS

<table>
<thead>
<tr>
<th>ITEMS</th>
<th>PLAN</th>
<th>NONPLAN</th>
<th>TOTAL</th>
<th>PLAN</th>
<th>NONPLAN</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC -deposit Credited Back</td>
<td>26760000.00</td>
<td>0.00</td>
<td>26760000.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Income from Sales &amp; Services</td>
<td>54416701.00</td>
<td>0.00</td>
<td>54416701.00</td>
<td>20392268.00</td>
<td>0.00</td>
<td>20392268.00</td>
</tr>
<tr>
<td>Income from Fees/Subscriptions</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>i) Misc Receipts</td>
<td>21909993.00</td>
<td>0.00</td>
<td>21909993.00</td>
<td>30091402.00</td>
<td>0.00</td>
<td>30091402.00</td>
</tr>
<tr>
<td>ii) Hospital Receipts</td>
<td>11300869.00</td>
<td>0.00</td>
<td>11300869.00</td>
<td>7099603.00</td>
<td>0.00</td>
<td>7099603.00</td>
</tr>
<tr>
<td>iii) Guest House Receipts</td>
<td>67500.00</td>
<td>0.00</td>
<td>67500.00</td>
<td>172434.00</td>
<td>0.00</td>
<td>172434.00</td>
</tr>
<tr>
<td>iv) Receipt through AO</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>CBHI</td>
<td>3000000.00</td>
<td>0.00</td>
<td>3000000.00</td>
<td>10000000.00</td>
<td>0.00</td>
<td>10000000.00</td>
</tr>
<tr>
<td>Drug -De- Addiction</td>
<td>600000.00</td>
<td>0.00</td>
<td>600000.00</td>
<td>9000000.00</td>
<td>0.00</td>
<td>9000000.00</td>
</tr>
<tr>
<td>Recovery Account old no(231) New A/C (658)</td>
<td>53579614.00</td>
<td>204938769.00</td>
<td>258518383.00</td>
<td>37328639.00</td>
<td>0.00</td>
<td>37328639.00</td>
</tr>
<tr>
<td>a) Academic Fund SB A/C No.30566618233</td>
<td>467200.00</td>
<td>0.00</td>
<td>467200.00</td>
<td>16472286.00</td>
<td>0.00</td>
<td>16472286.00</td>
</tr>
<tr>
<td>b) Academic Fund SB A/C No.30506194792</td>
<td>24133.00</td>
<td>0.00</td>
<td>24133.00</td>
<td>6252636.00</td>
<td>0.00</td>
<td>6252636.00</td>
</tr>
<tr>
<td>GFATM (College of Nursing) A/C No.30832711903</td>
<td>3575083.00</td>
<td>0.00</td>
<td>3575083.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Income from Investments</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Income from Royalty / Publications etc.</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Total Receipts</td>
<td>2102701093.00</td>
<td>1544938769.00</td>
<td>3647639862.00</td>
<td>1269709268.00</td>
<td>1600000000.00</td>
<td>2869709268.00</td>
</tr>
<tr>
<td>Interest Received</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>On Term Deposits:</td>
<td>683398.00</td>
<td>0.00</td>
<td>683398.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Grant -in- aid</td>
<td>8720253.00</td>
<td>0.00</td>
<td>8720253.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>a) Academic Fund SB A/C No.30566618233</td>
<td>855088.00</td>
<td>0.00</td>
<td>855088.00</td>
<td>530968.00</td>
<td>0.00</td>
<td>530968.00</td>
</tr>
<tr>
<td>b) Academic Fund SB A/C No.30506194792</td>
<td>210619.00</td>
<td>0.00</td>
<td>210619.00</td>
<td>103482.00</td>
<td>0.00</td>
<td>103482.00</td>
</tr>
<tr>
<td>GFATM (College of Nursing) A/C No.30832711903</td>
<td>37744.00</td>
<td>0.00</td>
<td>37744.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Recoveries A/C No.31545908658</td>
<td>61964.00</td>
<td>0.00</td>
<td>61964.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Other Incomes</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Increase/decrease in stock (Medicine)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>TOTAL Interest Received</td>
<td>1059066.00</td>
<td>0.00</td>
<td>1059066.00</td>
<td>634459.00</td>
<td>0.00</td>
<td>634459.00</td>
</tr>
<tr>
<td>TOTAL JIPMER Receipts + Interest (C)</td>
<td>2113270159.00</td>
<td>1544938769.00</td>
<td>3668208928.00</td>
<td>1270343718.00</td>
<td>1600000000.00</td>
<td>2870343718.00</td>
</tr>
<tr>
<td>Total A+B+C</td>
<td>2452917525.00</td>
<td>1847499442.00</td>
<td>4300416967.00</td>
<td>1284921895.00</td>
<td>1600000000.00</td>
<td>2884921919.00</td>
</tr>
</tbody>
</table>
# Receipts & Payments Account for the year 2010-2011

### Jawaharlal Institute of Post Graduate Medical Education and Research

## Receipts & Payments Account for the year 2010-2011

<table>
<thead>
<tr>
<th>Items</th>
<th>Current Year 2010-11</th>
<th>Previous Year 2009-10</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Salary Recoveries</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recoverable Advances</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HBA</td>
<td>86518.00</td>
<td>273928.00</td>
</tr>
<tr>
<td>HBA Interest</td>
<td>35040.00</td>
<td>73025.00</td>
</tr>
<tr>
<td>Scooter Advance</td>
<td>237800.00</td>
<td>448320.00</td>
</tr>
<tr>
<td>Scooter Advance Interest</td>
<td>15565.00</td>
<td>13100.00</td>
</tr>
<tr>
<td>Motor Car Advance</td>
<td>0.00</td>
<td>2825.00</td>
</tr>
<tr>
<td>Motor Car Advance Interest</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>PC Advance</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>PC Advance Interest</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Licence Fee</td>
<td>27972.00</td>
<td>941516.00</td>
</tr>
<tr>
<td><strong>RECOVERIES TOTAL (X)</strong></td>
<td>653995.00</td>
<td>1843139.00</td>
</tr>
<tr>
<td><strong>Others</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGEGIS</td>
<td>289940.00</td>
<td>524340.00</td>
</tr>
<tr>
<td>CGEIS</td>
<td>5500.00</td>
<td>3090.00</td>
</tr>
<tr>
<td>Professional Tax</td>
<td>0.00</td>
<td>125.00</td>
</tr>
<tr>
<td>NPS</td>
<td>2381038.00</td>
<td>1473868.00</td>
</tr>
<tr>
<td>PAO Suspense</td>
<td>214595.00</td>
<td>311933.00</td>
</tr>
<tr>
<td>PLI</td>
<td>0.00</td>
<td>15708.00</td>
</tr>
<tr>
<td>GPF Other than Group ‘D’</td>
<td>52394513.00</td>
<td>91477714.00</td>
</tr>
<tr>
<td>GPF ‘D’</td>
<td>8213631.00</td>
<td>31944448.00</td>
</tr>
<tr>
<td>LIC</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Income Tax (Salary)</td>
<td>16268056.00</td>
<td>43410776.00</td>
</tr>
<tr>
<td><strong>RECEIPTS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>PLAN</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>NONPLAN</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Receipts & Payments Account for the year 2010-11

### RECEIPTS

<table>
<thead>
<tr>
<th>ITEMS</th>
<th>Current Year 2010-11</th>
<th>Previous Year 2009-10</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PLAN</td>
<td>NONPLAN</td>
</tr>
<tr>
<td>Income Tax (Bills)</td>
<td>9665992.00</td>
<td>1483110.00</td>
</tr>
<tr>
<td>Education Cess (Salary)</td>
<td>295902.00</td>
<td>34825.00</td>
</tr>
<tr>
<td>Education Cess (Bills)</td>
<td>322066.00</td>
<td>954603.00</td>
</tr>
<tr>
<td>Sur Charge- Bills</td>
<td>423609.00</td>
<td>15674.00</td>
</tr>
<tr>
<td>Water Charge</td>
<td>10426.00</td>
<td>31100.00</td>
</tr>
<tr>
<td>Electricity Charges</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td><strong>RECOVERIES TOTAL (Y)</strong></td>
<td>111915188.00</td>
<td>185363424.00</td>
</tr>
<tr>
<td><strong>Total Recoveries (X) + (Y)</strong></td>
<td>112569183.00</td>
<td>187206563.00</td>
</tr>
<tr>
<td>Interest on Investment</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td><strong>GRAND TOTAL</strong></td>
<td>2565486708.00</td>
<td>2034706005.00</td>
</tr>
</tbody>
</table>

### PAYMENTS

<table>
<thead>
<tr>
<th>ITEMS</th>
<th>Current Year 2010-11</th>
<th>Previous Year 2009-10</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PLAN</td>
<td>NONPLAN</td>
</tr>
<tr>
<td>Pay &amp; Allowances (A) (Excluding Drug De addiction)</td>
<td>379717650.00</td>
<td>838796390.00</td>
</tr>
<tr>
<td>Others administrative Exp. (B)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wages</td>
<td>29558222.00</td>
<td>8655973.00</td>
</tr>
<tr>
<td>Travel Expense</td>
<td>999914.00</td>
<td>5433850.00</td>
</tr>
<tr>
<td>Office Expenses</td>
<td>4173469.00</td>
<td>6528318.00</td>
</tr>
<tr>
<td>Supply &amp; Material</td>
<td>63134909.00</td>
<td>2063467.00</td>
</tr>
<tr>
<td>Repair &amp; Matnec</td>
<td>24015195.00</td>
<td>615486.00</td>
</tr>
<tr>
<td>Books &amp; Journals</td>
<td>1445066.00</td>
<td>2147967.00</td>
</tr>
<tr>
<td>Motor Vehicle</td>
<td>1337511.00</td>
<td>1767547.00</td>
</tr>
<tr>
<td>Machinery &amp; Equipments</td>
<td>91019356.00</td>
<td>17914105.00</td>
</tr>
<tr>
<td>Others</td>
<td>736343.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Research Act</td>
<td>423900.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Infrom. Tech</td>
<td>7468290.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>
## Jawaharlal Institute of Post Graduate Medical Education and Research

**Receipts & Payments Account for the year 2010-2011**

<table>
<thead>
<tr>
<th>ITEMS</th>
<th>Payments Current Year 2010-11</th>
<th>Payments Previous Year 2009-10</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PLAN</td>
<td>NONPLAN</td>
</tr>
<tr>
<td>Rent &amp; Tax</td>
<td>2511600.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Prof. Services</td>
<td>0.00</td>
<td>15060600.00</td>
</tr>
<tr>
<td>Scholarship</td>
<td>0.00</td>
<td>2033765.00</td>
</tr>
<tr>
<td>Maintenance of Building</td>
<td>0.00</td>
<td>109506915.00</td>
</tr>
<tr>
<td>Cap Major Work</td>
<td>741246949.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Advance for GPF</td>
<td>0.00</td>
<td>23740210.00</td>
</tr>
<tr>
<td>LC - deposit</td>
<td>3255000.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Others administrative Expenses</td>
<td>991234124.00</td>
<td>485292646.00</td>
</tr>
<tr>
<td>Total A + B</td>
<td>1370951774.00</td>
<td>1324089036.00</td>
</tr>
<tr>
<td>Drug De- Addiction = C</td>
<td>871317.00</td>
<td>0.00</td>
</tr>
<tr>
<td>CBHI = D</td>
<td>1593263.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Recovery Account30749579231 New A/C (658) = E</td>
<td>0.00</td>
<td>204938769.00</td>
</tr>
<tr>
<td>JIPMER Receipts 30749579504 Payments = F</td>
<td>120052228.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Academic Fund SB AC 30586618233= G</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Academic Fund SB AC 30506194792= H</td>
<td>11474.00</td>
<td>0.00</td>
</tr>
<tr>
<td>GFATM (College of Nursing) A/C No.30832711903 = I</td>
<td>3493557.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Total C to I</td>
<td>126021839.00</td>
<td>204938769.00</td>
</tr>
<tr>
<td>Salary Recoveries</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HB A</td>
<td>85818.00</td>
<td>27328.00</td>
</tr>
<tr>
<td>HBA Interest</td>
<td>35040.00</td>
<td>73025.00</td>
</tr>
<tr>
<td>Scooter Advance</td>
<td>237800.00</td>
<td>448320.00</td>
</tr>
<tr>
<td>Scooter Advance Interest</td>
<td>15565.00</td>
<td>13100.00</td>
</tr>
<tr>
<td>Motor Car Advance</td>
<td>0.00</td>
<td>2825.00</td>
</tr>
<tr>
<td>Motor Car Advance Interest</td>
<td>0.00</td>
<td>90425.00</td>
</tr>
</tbody>
</table>
## Jawaharlal Institute of Post Graduate Medical Education and Research

**Receipts & Payments Account for the year 2010-2011**

<table>
<thead>
<tr>
<th>PAYMENTS</th>
<th>Current Year 2010-11</th>
<th>Previous Year 2009-10</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PLAN</td>
<td>NONPLAN</td>
</tr>
<tr>
<td>PC Advance</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>PC Advance Interest</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Licence Fee</td>
<td>279772.00</td>
<td>941516.00</td>
</tr>
<tr>
<td>Recovery TOTAL (x)</td>
<td>653985.00</td>
<td>1840139.00</td>
</tr>
<tr>
<td>Others</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGEGIS</td>
<td>289940.00</td>
<td>552430.00</td>
</tr>
<tr>
<td>CGEIS</td>
<td>5500.00</td>
<td>3090.00</td>
</tr>
<tr>
<td>Professional Tax</td>
<td>0.00</td>
<td>125.00</td>
</tr>
<tr>
<td>NPS</td>
<td>2381093.00</td>
<td>1473586.00</td>
</tr>
<tr>
<td>PAO Suspense</td>
<td>214595.00</td>
<td>31953.00</td>
</tr>
<tr>
<td>PLI</td>
<td>0.00</td>
<td>15708.00</td>
</tr>
<tr>
<td>GPF Other than Group ‘D’</td>
<td>52394513.00</td>
<td>91477714.00</td>
</tr>
<tr>
<td>GPF ‘D’</td>
<td>8213631.00</td>
<td>3194448.00</td>
</tr>
<tr>
<td>LIC</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Income Tax (Salary)</td>
<td>16288056.00</td>
<td>43400776.00</td>
</tr>
<tr>
<td>Income Tax (Bills)</td>
<td>9865992.00</td>
<td>1483110.00</td>
</tr>
<tr>
<td>Education Cess (Salary)</td>
<td>295902.00</td>
<td>34825.00</td>
</tr>
<tr>
<td>Electricity Charges</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Water Charge</td>
<td>10425.00</td>
<td>31000.00</td>
</tr>
<tr>
<td>Sur Charge (Bills)</td>
<td>423609.00</td>
<td>15674.00</td>
</tr>
<tr>
<td>Education Cess (Bills)</td>
<td>322066.00</td>
<td>95403.00</td>
</tr>
<tr>
<td>Electricity Charges</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Recovery TOTAL (Y)</td>
<td>11191158.00</td>
<td>18536342.00</td>
</tr>
<tr>
<td>Total Recoveries (X) + (Y) = K</td>
<td>112569183.00</td>
<td>187206563.00</td>
</tr>
<tr>
<td>NPS old balance cleared = L</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>TOTAL A+B+C to I+K+L=M</td>
<td>1609542796.00</td>
<td>1716981469.00</td>
</tr>
</tbody>
</table>
## Jawaharlal Institute of Post Graduate Medical Education and Research

### Receipts & Payments Account for the year 2010-2011

<table>
<thead>
<tr>
<th>ITEMS</th>
<th>Current Year 2010-11</th>
<th>Previous Year 2009-10</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PLAN</td>
<td>NONPLAN</td>
</tr>
<tr>
<td>CLOSING BALANCE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash at Bank Annexure (A)</td>
<td>1653501.90</td>
<td>0.00</td>
</tr>
<tr>
<td>Cash in Hand</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cheque due for Payment</td>
<td>6693099.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Permanent Advance</td>
<td>80000.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Temporary Advance</td>
<td>15690729.10</td>
<td>0.00</td>
</tr>
<tr>
<td>GIA Net Bank Balance</td>
<td>818080762</td>
<td>317724536</td>
</tr>
<tr>
<td>1. GIA SBI A/C No.30714702008</td>
<td>842198092.00</td>
<td>317724536.00</td>
</tr>
<tr>
<td>2. JIPMER receipts Account 30749579504 (Current Account)</td>
<td>25386972.00</td>
<td>0.00</td>
</tr>
<tr>
<td>3. Central Bureau of Health Intelligence</td>
<td>1420342.00</td>
<td>0.00</td>
</tr>
<tr>
<td>4. Drug De- Addiction</td>
<td>12734.00</td>
<td>0.00</td>
</tr>
<tr>
<td>5. Academic Fund SBI AC 30586618233</td>
<td>25256078.00</td>
<td>0.00</td>
</tr>
<tr>
<td>6. Academic Fund SBI AC 30506194792</td>
<td>6159928.00</td>
<td>0.00</td>
</tr>
<tr>
<td>7. GFATM (College of Nursing) A/C No.30832711903</td>
<td>1103190.00</td>
<td>0.00</td>
</tr>
<tr>
<td>8. Recovery Account Old no(231) New A/c 31545908658</td>
<td>54396576.00</td>
<td>0.00</td>
</tr>
<tr>
<td>SUB TOTAL 1 to 8 = N</td>
<td>955943912.00</td>
<td>317724536.00</td>
</tr>
<tr>
<td>10. Add NPS Out standing = O</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>SUB TOTAL N + O = P</td>
<td>955943912.00</td>
<td>317724536.00</td>
</tr>
<tr>
<td>GRAND TOTAL (M+P)</td>
<td>2565486708.00</td>
<td>2034706005.00</td>
</tr>
</tbody>
</table>

---

R. VISWANATHAN  
Finance & Chief Accounts Officer  
JIPMER, Puducherry  

Dr. K.S.V.K. SUBBA RAO  
Director  
JIPMER, Puducherry
## LIST OF SUNDRY DEBTORS (SCHEME CELL) AS ON 31.3.2011

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Bank Ac. No.</th>
<th>Funding Agency</th>
<th>Amount Sanctioned</th>
<th>Amount Received</th>
<th>Balance yet to be received</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>STATE BANK OF INDIA A/C NO. 10100030209 (Specific Fund)</td>
<td>WHO – APW Developing JIPMER as a Health Promoting Hospital</td>
<td>325000.00</td>
<td>81250.00</td>
<td>243750.00</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>Influence of CYPLC9, VKORCI and CYP4F2 Genetic Polymorphisms on Indian Population</td>
<td>1622160.00</td>
<td>831480.00</td>
<td>790680.00</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>CBHI</td>
<td>2500000.00</td>
<td>1500000.00</td>
<td>1000000.00</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>Drug- De- Addiction</td>
<td>1200000.00</td>
<td>600000.00</td>
<td>600000.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total</td>
<td>5647160.00</td>
<td>3012730.00</td>
<td><strong>2634430.00</strong></td>
</tr>
</tbody>
</table>
12.2 Audit Report

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 2011.

1. We have audited the attached Balance sheet of Jawaharlal Institute of Postgraduate Medical Education and Research (JIPMER), Puducherry as at 31 March 2011 and the Income & Expenditure Account / Receipts and Payment Account for the year ended on that date under Section 19(2) of the Comptroller & Auditor General’s (Duties, Power & 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 & Auditors General of India (CAG) on the accounting treatment only with regard to classification, conformity with best accounting practices, accounting standards and disclosure norms, etc., Audit observation 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, evidence 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 the Assets increased by Rs. 45.87 crore, Liabilities increased by Rs. 1.83 crore, Income increased by Rs. 0.25 crore and expenditure decreased by Rs. 87.87 crore.

JIPMER 2010-2011 / 556
B. Grants – In-Aid

JIPMER received grants – in – aid of Rs. 318.53 crore (Plan Rs. 184.53 crore and Non-Plan Rs 134 crore) during the year of which Rs.269.50 crore was spent leaving a balance of Rs. 115.00 crore (Including the opening balance of Rs. 55.12 crore, internal receipts of Rs. 08.17 crore and refund of LC deposit of Rs. 2.68 crore)

(v) Subject to our observations in the preceding paragraphs, we report that the Balance sheet and Income & Expenditure Account / Receipts & Payment Account dealt with by this report are in agreement with the books of accounts.

(vi) In our opinion and to the best of our information and according to the 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 2011; 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 (CA)

Place : Puducherry
Date : 05.03.2012
ANNEXURE

1. **Internal Audit System**
   No Internal Audit System is in existence in JIPMER. Though, there are nearly 50 departments functioning in JIPMER, action was not initiated to evolve any internal audit mechanism.

2. **Internal Control System**

3. **Physical verification of Fixed Assets**
   The Physical verification of assets was not done during the period 2007-2011.

4. **Regularity in Payment of Statutory dues**
   Payment of taxes (Value Added Tax) and other statutory dues are made by JIPMER in accordance with the provisions of Act/ Rule.

   **Deputy Accountant General**