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2011-2012

Jawaharlal Institute of Postgraduate Medical Education & Research
Puducherry – 605 006.
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Jawaharlal Institute of Postgraduate Medical Education and Research (JIPMER)

Jawaharlal Institute of Postgraduate Medical Education and Research originated as École de Médecine de Pondichéry 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, ten 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 1432 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. The daily average number of outpatients treated was 5,766 and daily average number of inpatients treated was 1642. Under the Rashtriya Arogya Nidhi (RAN) forty four patients were benefited and Rs.27,01,619 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
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1. Director’s Review/Executive Summary

It is my privilege and honour to head one of the nation's leading medical institutions.

Our vision: JIPMER seeks to be a model for health systems in India through innovations in education, patient oriented research, population health and service excellence.

Our mission: Our mission is to develop compassionate, ethically sound health professionals and provide service of the highest order across the health care continuum, through innovations in education that yield lifelong learners and leaders in health care, Original research in basic sciences and patient oriented discoveries, Encouraging creative young minds to reach their fullest potential, Clinical transformation across the organization that is patient centered, safe, effective, accountable and transparent, emphasis on quality and value in all endeavours, partnerships with organizations encompassing congruent ideals, advocacy for community wellness and public health with a focus on socio-economic disparities.

The origin of JIPMER dates back to 1823 when the French Government established a medical school called École de Médecine de Pondichéry to give medical diplomas. At the time of de facto transfer of Pondicherry to Government of India, the medical school was taken over by the Government of India and was converted into a medical college and named as Dhanvantari Medical College. Later, in the year 1964, it was upgraded to Regional Postgraduate Institute and named after our first Prime Minister, Pandit Jawaharlal Nehru, as Jawaharlal Institute of Postgraduate Medical Education and Research (JIPMER). Its campus is spread over 195 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 socially accountable 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. The admission to first year MBBS course in JIPMER is through All India Entrance Examination. A total of 37,906 applications were received and 28,104 candidates appeared in the Entrance Examination for the first year MBBS Course, 2011-2012 session. Out of the 18,796 candidates who qualified in the
Entrance Examination, 98 candidates were admitted based on their category merit rank. Seventeen candidates were nominated for the Academic Session 2011-2012 by the Government of India.

While consistently ranked in the top ten medical colleges in the country over decades, in 2011-12, JIPMER secured its highest ranking of being third in the country.

Figure 1.

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 2011-2012 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 2011-2012, 28 candidates were admitted to this 3 year course. JIPMER also conducts EMT (Emergency Medical Technician) certificate course with the annual intake of 20 students and 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 were admitted during the year 2011-12 for this 12 month course.

Post graduate courses (M.D. / M.S.) are conducted in 22 disciplines. A total of 124 seats are available for the 22 postgraduate courses. At present Super Speciality Programmes (D.M. / M.Ch.) are conducted in 10 disciplines. A total of 18 seats are available for these 10 Super Speciality Programmes.

PhD programmes are conducted in 7 disciplines and a total of 16 seats are available for these 7 PhD programmes. JIPMER has been conducting M.Sc. (Medical Biochemistry) course for the last 33 years. For the academic year 2011-2012, 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 twenty seven research projects for faculty and sixty eight MD/MS/PhD/MSc dissertation and thesis projects. Several research projects with extramural funds have also been started.

The accompanying figure 2 deposits growth in intramural & extramural funding during the last three years since JIPMER became an autonomous Institute. The research productivity, also measured by the number of publications has been highest in JIPMER's history, with a total of 467 publications (Figure 3)

![JIPMER – RESEARCH FUNDING](image)

**Figure 2**

![JIPMER Publications (2011-12)](image)

**Figure 3**

JIPMER Hospital has daily average number of outpatient attendance 5,766 and daily average number of inpatient attendance 1642. Under the Rashtriya Arogya Nidhi (RAN) forty four patients were benefited and Rs. 27,01,619/- was utilized during the year. In the year 2011-2012, a total of 17,00,062 outpatients were treated in JIPMER Hospital. In the year 2011-2012, a total of 66,252 admissions were made in the Hospital. A total of 34,10,958 investigations were carried out in the year 2011-2012. Total numbers of deliveries conducted were 14,307. Total numbers of operations performed were 34,310. The total attendance in Emergency Medical Service (Main Casualty) was 2,10,182 and the total attendance in OG Casualty was 21,187. 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.

Various infrastructural 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 last stages 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. After completion of the phase II projects, phase III projects including Multi disciplinary Advanced Research Centre, Learning Resources Centre, Screening OPD and Geriatric Unit, Super Speciality Block Annex, Modernization of Old Hospital block and Institute Block, International Students’ Hostel, RCC phase III and Additional power supply to JIPMER campus (110 KV substation) will be started. In addition to construction works filling of various posts of faculty and other staff is also being undertaken. During the year 2011-2012, 29 Group A faculty, 24 Group B staff and 59 Group C staff have been recruited.

On the academic side, the total number of seats in P.G. programs (M.D / M.S.) has been increased from 88 to 124. New courses started during the year 2011-12 included B.Sc. Neuro-Technology (intake of 4 students), D.M. Clinical Haematology (intake of 1 student), M.Ch. Surgical Gastroenterology (intake of 2 students) and Fellowship Course in Tropical Parasitology (intake of 1 student).

The Third Convocation of JIPMER will be held on 30.06.2012. Honorable Prime Minister and Honorable Union Minister of Health & Family Welfare have consented to grace the occasion and distribute the degrees and awards to MBBS, PG (MD/MS), DM/MCh and PhD students who have successfully completed the course during the year 2011-12.

After nearly 200 years since its inception as Ecole de Medecine and almost 50 years since being named JIPMER, our institution is poised to drive transformation in health care. Our guiding principles are health equity, a milieu of continuous learning, new knowledge through research, innovation across the care continuum, leadership development and creation of a collaborative enterprise. Our PPP stands for patients, people and populations. We will strive for perfection in care by putting patients first and will change the lives of people by harnessing human potential. The goal ultimately is to attain better health/wellness for populations at affordable cost, driven by quality and value.

Dr. T.S. Ravikumar
Director, JIPMER.
2. The Institute Body and its Committees

The Institute Body

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

Ex-Officio Members

2. **Shri K. Chandramouli**
   Member
   Secretary to the Government of India
   Ministry of Health and Family Welfare

   **Shri. Anil Kumar**
   Member
   Secretary (Ayush)
   Ministry of Health and Family Welfare

   **Shri P.K. Pradhan**
   Member
   Secretary to the Government of India
   Ministry of Health and Family Welfare

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

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

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

   **Dr. Jagdish Prasad**
   Member
   Director General of Health Services
   Government of India.

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

   **Mrs. M. Sathiyavathy**
   Member
   Chief Secretary,
   Government of Puducherry

7. **Shri Naved Masood**
   Member
   Additonal Secretary cum Financial Advisor
   Ministry of Health and Family Welfare
   Government of India.
Shri Rajan Katoch  
Additional Secretary cum Financial Advisor  
Ministry of Health and Family Welfare  
Government of India.  

Shri R.K. Jain  
Additional Secretary cum Financial Advisor  
Ministry of Health and Family Welfare  
Government of India  
Member (Till Oct 2011)  
Member (From Oct 2011)  

8. Secretary to the Govt. of India or his nominee  
(not below the rank of Joint Secretary)  
Department of Higher Education  
Ministry of Human Resource Development.  

9. Dr. K.S.V.K. Subba Rao  
Director, JIPMER.  
Member Secretary  
Till 04.12.2011  

Dr. T.S. Ravikumar  
Director, JIPMER  
Member Secretary  
From 05.12.2011  

Nominated Members  

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

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

12. Prof. D. Viswanathan  
Former Vice-Chancellor, Anna University, Chennai.  
Member  

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

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

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

16. Prof. (Dr.) Suneeta Mittal  
Professor & Head  
Department of Obstetrics & Gynecology  
All India Institute of Medical Sciences, New Delhi.  
Member
17. **Prof. (Dr.) K.K. Talwar**
   Former Director, PGIMER, Chandigarh.

18. **Prof. (Dr.) D. Nagaraja**
   Former Director/ViceChancellor
   National Institute of Mental Health & Neuro Sciences, Bangalore.

19. **Prof. (Dr.) R. Surendran**
   Former 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.
   Chairman

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

3. **Shri K. Chandramouli**
   Secretary to the Government of India
   Ministry of Health and Family Welfare
   (Till 31.08.2011)
   Member

   **Shri. Anil Kumar**
   Secretary (Ayush)
   Ministry of Health and Family Welfare
   (From 01.09.2011 to 16.10.2011)
   Member

   **Shri P.K. Pradhan**
   Secretary to the Government of India
   Ministry of Health and Family Welfare
   (From 17.10.2011)
   Member

4. **Dr. R.K. Srivastava**
   Director General of Health Services
   Government of India.
   (Till 30.11.2011)
   Member

   **Dr. Jagdish Prasad**
   Director General of Health Services
   Government of India.
   (From 01.12.2011)
   Member

5. **Shri Naved Masood**
   Additonal Secretary cum Financial Advisor
   Ministry of Health and Family Welfare
   Government of India.
   (Till 31.07.2011)
   Member

   **Shri Rajan Katoch**
   Additonal Secretary cum Financial Advisor
   Ministry of Health and Family Welfare
   Government of India
   (Till Oct 2011)
   Member

   **Shri R.K. Jain**
   Additonal Secretary cum Financial Advisor
   Ministry of Health and Family Welfare
   Government of India
   (From Oct 2011)
   Member

6. **Shri R. Chandramohan**
   Chief Secretary
   Government of Puducherry.
   (Till 12.08.2011)
   Member

   **Mrs. M. Sathiyavathy**
   Chief Secretary
   Government of Puducherry
   (From 12.08.2011)
   Member

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

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

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

11. **Dr. S. Srinivasan**  
Member  
Professor & HOD, Paediatrics, JIPMER. (Till 30.11.2011)

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

13. **To be nominated by Government**  
Member

14. **To be nominated by Government**  
Member

15. **Dr. K.S.V.K. Subba Rao**  
Member Secretary  
Director, JIPMER. (Till 04.12.2011)

**Dr. T.S. Ravikumar**  
Member Secretary  
Director, JIPMER (From 05.12.2011)

**Special Invitee**  
Shri Debasish Panda  
Member  
Joint Secretary, Ministry of Health and Family Welfare
Standing Finance Committee

1. **Shri K. Chandramouli**
   Secretary to the Government of India
   Ministry of Health and Family Welfare
   Member (Till 31.08.2011)

   **Shri. Anil Kumar**
   Secretary (Ayush)
   Ministry of Health and Family Welfare
   Member (From 01.09.2011 to 16.10.2011)

   **Shri P.K. Pradhan**
   Secretary to the Government of India
   Ministry of Health and Family Welfare
   Member (From 17.10.2011)

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 (Till 30.11.2011)

   **Dr. Jagdish Prasad**
   Director General of Health Services
   Government of India.
   Member (From 01.12.2011)

4. **Shri Naved Masood**
   Additional Secretary cum Financial Advisor
   Ministry of Health and Family Welfare
   Government of India.
   Member (Till 31.07.2011)

   **Shri Rajan Katoch**
   Additional Secretary cum Financial Advisor
   Ministry of Health and Family Welfare
   Government of India.
   Member (Till Oct 2011)

   **Shri R.K. Jain**
   Additional Secretary cum Financial Advisor
   Ministry of Health and Family Welfare
   Government of India
   Member (From Oct 2011)

5. **Shri R. Chandramohan**
   Chief Secretary
   Government of Puducherry.
   Member (Till 12.08.2011)

   **Mrs M. Sathiyavathy**
   Chief Secretary
   Government of Puducherry
   Member (From 12.08.2011)

6. **Prof. (Dr.) K.K. Talwar**
   Former 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 (Till 04.12.2011)

    **Dr. T.S. Ravikumar**  
    Director, JIPMER  
    Member Secretary (From 05.12.2011)
# Standing Selection Committee

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

2. **Dr. R.K. Srivastava**
   Director General of Health Services, Government of India.
   - Member (Till 30.11.2011)

   **Dr. Jagdish Prasad**
   Director General of Health Services, Government of India.
   - Member (From 01.12.2011)

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

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

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

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

7. **Prof. Indira Chakravarty**
   Former Director, All India Institute of Hygiene & Public Health, Kolkata.
   - Member

8. **Dr. N. Saraswathy**
   Former Director, Institute of Obstetrics & Gynaecology, Chennai.
   - Member

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

10. **Dr. K.S.V.K. Subba Rao**
    Director, JIPMER.
    - Member Secretary (Till 04.12.2011)

    **Dr. T.S. Ravikumar**
    Director, JIPMER
    - Member Secretary (From 05.12.2011)
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.
   (Till 30.11.2011)

   **Dr. Jagdish Prasad**
   Director General of Health Services, Government of India.
   (From 01.12.2011)

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

5. **Prof. (Dr.) K.K. Talwar**
   Former 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 & Gynecology,
   All India Institute of Medical Sciences, New Delhi.
   Member

8. **Prof. (Dr.) R. Surendran**
   Former 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.
    (Till 04.12.2011)

    **Dr. T.S. Ravikumar**
    Director, JIPMER.
    (From 05.12.2011)
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 (Till 12.08.2011)*  
   **Mrs M. Sathiyavathy**  
   Chief Secretary  
   Government of Puducherry  
   *Member (From 12.08.2011)*

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 (Till 04.12.2011)*  
   **Dr. T.S. Ravikumar**  
   Director, JIPMER  
   *Member Secretary (From 05.12.2011)*
Standing Hospital Affairs Committee

1. **Dr. R.K. Srivastava**
   Director General of Health Services
   Government of India.
   Chairman (Till 30.11.2011)

2. **Dr. Jagdish Prasad**
   Director General of Health Services
   Government of India.
   Chairman (From 01.12.2011)

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

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

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

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

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

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

9. **Dr. S. Srinivasan**
   Professor & Head,
   Department of Paediatrics, JIPMER
   Member (Till 30.11.2011)

10. **Dr. K.S.V.K. Subba Rao**
    Director, JIPMER.
    Member Secretary (Till 04.12.2011)

11. **Dr. T.S. Ravikumar**
    Director, JIPMER.
    Member Secretary (From 05.12.2011)
Administrative Setup

DIRECTOR

MEDICAL SUPDT

DEAN

GENERAL ADMN

FINANCE & ACCOUNTS

DEPTS & DIVISION

RESEARCH WING

COLLEGE OF NURSING

Hospital Services & Patient Care

Academics Teaching & Exams

Establishment Sections & Estate

Accounts, Bills, Finance & Purchase Sections

Specialized Services and Consultation Teaching & Research
### 3. General Administration

**Faculty (Administration)**
P.H. Ananthanarayanan

*Dy. Director (Administration)*
V. Sudha

**Senior Administrative Officer**
R. Sathyanarayanan

**Administrative Officers (2)**

**Human Resource Division**
Unnikrishnan C.B.
(One Vacant)

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

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

The General Administration consists of 3 Establishment Sections, RR cell, Disciplinary and Court Cases Cell, Pension Cell, General Section and Estate Section. During the last quarter of 2011-12 the HR Division was formed incorporating the RR Cell as part of it to take up the works like creation of posts, recruitments and promotions to all the categories of Faculty and Staff members.

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.

The Establishment-I section deals with the service matters of Group-A&B employees. Establishment-II is presently dealing with the recruitment of Senior/Junior Resident Doctors and the Group C employees, grant of MACP and ACR maintenance of all Group-C employees. Establishment-III is dealing with all service matters of Group-C employees. All these activities in the Establishment section would be brought into the fold of the HR Division in phases during the next year.
The RR Cell, which is now part of the HR Division, is dealing with the formulation of draft Recruitment Rules, their amendments & notifications.

The Disciplinary & Court Cases Cell is dealing with Court matters, disciplinary proceedings and also undertakes Inquiries and Vigilance cases.

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

The Estate Section undertakes the responsibility of the estate management of the 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 works.

To cope up with additional responsibilities and expansion of activities in Administration, Academics and Finance & Accounts divisions after the conversion of the Institute as an Institute of National Importance by an Act of Parliament in the year 2008, it is essential to create additional posts to manage above tasks independently as an autonomous institution. Based on these requirements, proposals for creation of 180 Administrative posts and 461 Nursing Personnel posts were submitted to the Ministry which are at present pending with the Ministry of Finance, 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>281</td>
<td>204</td>
<td>77</td>
</tr>
<tr>
<td>2</td>
<td>Group 'A'</td>
<td>99</td>
<td>55</td>
<td>44</td>
</tr>
<tr>
<td>3</td>
<td>Group ‘B”</td>
<td>1064</td>
<td>904</td>
<td>160</td>
</tr>
<tr>
<td>4</td>
<td>Group “C” including erstwhile Group “D” posts</td>
<td>1537</td>
<td>1155</td>
<td>382</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>2981</strong></td>
<td><strong>2318</strong></td>
<td><strong>663</strong></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>123</td>
<td>147</td>
</tr>
<tr>
<td>2</td>
<td>Junior Resident (NPG)</td>
<td>71</td>
<td>34</td>
<td>37</td>
</tr>
<tr>
<td>3</td>
<td>Junior Resident (PG)</td>
<td>292</td>
<td>285</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>633</strong></td>
<td><strong>442</strong></td>
<td><strong>191</strong></td>
</tr>
</tbody>
</table>
Major achievements

Recruitments were made to 29 Group A posts including 16 Assistant Professors and 10 Sister Tutors during 2011-12. Recruitments were also made to 24 Group B posts and 59 Group C posts during this year. Advertisement has been issued to fill up 44 posts of Staff Nurses and the recruitment process is in progress.

Under Assessment Promotion Scheme, three Assistant Professors were promoted as Associate Professors. Through Departmental Promotion Committee, two Professors were placed in Senior Scale.

In accordance with the latest guidelines received from Government of India, MACP was granted to 197 employees in various categories.
4. Developmental Projects

Professor & Project Coordinator
S. Badrinath

UPGRADATION OF MEDICARE FACILITIES
JIPMER Phase II

The project proposal consists of setting up of Teaching Block, 400 bedded Women and Children Hospital, Hostel Complex and Doctors’ Quarters. (position as on 1st April 2012)

For the phase II upgradation, HLL Lifecare Ltd was appointed as the inhouse consultant and the project was initiated on turnkey basis as it was done for phase I upgradation. The PMC constituted undertook the exercise for shortlisting 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 is 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 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 the 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. A lecture hall, a state of the 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 also has 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, Second, Third and Fourth floors. It is proposed to complete all items of works and it will be ready for occupation by April 2012.
Women and Children Hospital

Scope of work:
The WCH will have a constructed area of 28,300 sqm (G+4) to accommodate 426 beds. The facility has been divided into 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 second 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. Obst & Gyn. wards 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 the patient care services, the WCH Block will be equipped with state of the 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 and Finishing items are in progress.
OPD (Basement+ G+2)
Finishing items are in progress.
IPD (Basement+G+4)
Finishing items are in progress.
Programmed to complete in all respects by May 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.
Present status:

1. Men Resident Doctors’ Hostel no.1: Finishing items are in progress.
2. Men Resident Doctors’ Hostel no 2. Finishing items are in progress.
3. Women Resident Doctors’ Hostel: Finishing items are in progress.
4. Senior Resident Doctors’ Quarters: Completed in all respects.
5. U G Boys Hostel: Finishing items are in Progress.
6. U G Girls Hostel: Finishing items are in Progress.
7. Ladies Hostel: Completed in all respects and occupied.
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 June 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>Multi disciplinary Advanced Research Centre</td>
<td>19.46</td>
</tr>
<tr>
<td>Learning Resources centre</td>
<td>13.81</td>
</tr>
<tr>
<td>Screening OPD and Geriatric Unit</td>
<td>43.87</td>
</tr>
<tr>
<td>Super specialty Block Annex</td>
<td>106.56</td>
</tr>
<tr>
<td>Modernization of Old Hospital block and Institute Block</td>
<td>62.67</td>
</tr>
<tr>
<td>International students’ Hostel</td>
<td>8.92</td>
</tr>
<tr>
<td>RCC phase III</td>
<td>23.94</td>
</tr>
<tr>
<td>Additional power supply to JIPMER campus (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 from September 2011 onwards.
Teaching Block

View of Teaching Block
Ladies Hostel

Women Resident Doctors Hostel

Resident Doctors Hostel - 1

Resident Doctors Hostel - 2
5. Academic Wing

5.1 Academic Section

Dean
K.S. Reddy

Professor (Academic)
S. Mahadevan

Registrar
James Terance Sekar

FUNCTION OVERVIEW

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

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

UNDERGRADUATE EDUCATION

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

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

The Entrance Examination for admission to the first year MBBS course 2011-12 session was conducted on 05.06.2011 in 11 centers, Bengaluru, Bhopal, Chandigarh, Guwahati, Kolkata, Pune, Puducherry, New Delhi, Chennai, Vijayawada and Thiruvananthapuram. A total 37906 applications were received and 28104 candidates appeared in the Entrance Examination. Out of the 18796 candidates who qualified in the Entrance Examination, 98 candidates were admitted based on their category merit rank. 17 candidates were nominated by the Government of India for the Academic Session 2011-12. The number of candidates admitted under the various categories is as under:-

* 2UR & 1OBC candidate admitted under OPH.

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Category</th>
<th>Period 2011-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Unreserved (UR)</td>
<td>33</td>
</tr>
<tr>
<td>2</td>
<td>Other Backward Classes (OBC)</td>
<td>17</td>
</tr>
<tr>
<td></td>
<td>Non-Creamy Layer</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Scheduled Caste (SC)</td>
<td>10</td>
</tr>
<tr>
<td>4</td>
<td>Scheduled Tribe (ST)</td>
<td>07</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)</td>
<td>09</td>
</tr>
<tr>
<td></td>
<td>Non-Creamy Layer</td>
<td></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>17</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>115</td>
</tr>
</tbody>
</table>

Out of 18 seats earmarked for Government of Indian Nominations 17 eligible candidates were given admission to the following Beneficiary Agencies:-

<table>
<thead>
<tr>
<th>State</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arunachal Pradesh</td>
<td>3</td>
</tr>
<tr>
<td>M.E.A. - Srilanka</td>
<td>1</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>17</td>
</tr>
</tbody>
</table>
Eligible Applicants category wise Qualified (2011)

<table>
<thead>
<tr>
<th>Category</th>
<th>Male</th>
<th>Female</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>UR</td>
<td>3455</td>
<td>5040</td>
<td>8495</td>
</tr>
<tr>
<td>OBC</td>
<td>3356</td>
<td>3570</td>
<td>6926</td>
</tr>
<tr>
<td>SC</td>
<td>1073</td>
<td>1004</td>
<td>2077</td>
</tr>
<tr>
<td>ST</td>
<td>302</td>
<td>335</td>
<td>637</td>
</tr>
<tr>
<td>P-UR</td>
<td>43</td>
<td>69</td>
<td>112</td>
</tr>
<tr>
<td>P-OBC</td>
<td>185</td>
<td>295</td>
<td>480</td>
</tr>
<tr>
<td>P-SC</td>
<td>31</td>
<td>38</td>
<td>69</td>
</tr>
<tr>
<td>TOTAL</td>
<td>8445</td>
<td>10351</td>
<td>18796</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>170</td>
</tr>
<tr>
<td>3</td>
<td>Scheduled Caste (SC)</td>
<td>167</td>
</tr>
<tr>
<td>4</td>
<td>Scheduled Tribe (ST)</td>
<td>157</td>
</tr>
<tr>
<td>5</td>
<td>Puducherry Unreserved (P-UR)</td>
<td>165</td>
</tr>
<tr>
<td>6</td>
<td>Puducherry Other Backward Classes (P-OBC)</td>
<td>157</td>
</tr>
<tr>
<td>7</td>
<td>Puducherry Scheduled Caste (P-SC)</td>
<td>136</td>
</tr>
<tr>
<td>8</td>
<td>OPH</td>
<td>140</td>
</tr>
</tbody>
</table>

The duration of the course is 4 years and 6 months followed by one year Compulsory Rotatroy Residency Internship. During the period of internship, the intern is paid Rs.10,250/- as stipend. The details of postings of the intern are as under:

<table>
<thead>
<tr>
<th>S.No</th>
<th>Discipline</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Community Medicine (Urban)</td>
<td>1 Month</td>
</tr>
<tr>
<td></td>
<td>(Rural)</td>
<td>1 Month</td>
</tr>
<tr>
<td>2</td>
<td>General Medicine</td>
<td>1 ½ Months</td>
</tr>
<tr>
<td></td>
<td>Including Psychiatry</td>
<td>15 Days</td>
</tr>
<tr>
<td>3</td>
<td>General Surgery</td>
<td>1 ½ Months</td>
</tr>
<tr>
<td></td>
<td>Including Anesthesiology</td>
<td>15 Days</td>
</tr>
<tr>
<td>4</td>
<td>Obstetrics &amp; Gynaecology Including Family Welfare Planning</td>
<td>2 Months</td>
</tr>
<tr>
<td>5</td>
<td>Pediatrics &amp; Neonatology</td>
<td>1 Month</td>
</tr>
<tr>
<td>6</td>
<td>Orthopaedics including Physical Medicine and Rehabilitation</td>
<td>1 Month</td>
</tr>
<tr>
<td>---</td>
<td>--------------------------------------------------</td>
<td>--------</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, 2011-12 session, was conducted on 31.7.2011. The Entrance Examination was conducted in Puducherry and Thiruvananthapuram. 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 of: to integrate 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 2011-12, 28 candidates were admitted to the course.

**B.Sc. Allied Medical Science Course**

One B.Sc. (AMS) course in B.Sc. (Neuro-Technology) with 4 students was started during the year 2011-12 in addition to the 4 B.Sc. (AMS) courses. 4 students each in 5 disciplines were admitted during 2011-12.

**Emergency Medical Technician Course**

Emergency Medical Technician Certificate course with an annual intake of 20 students and duration of 12 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 with Higher Secondary qualification. During the period of study the candidates are paid stipend of Rs.300/- per month. 20 students were admitted during the year 2011-12.
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.

POST-GRADUATE COURSES

Admission to the Postgraduate (M.D. / M.S.), Super Specialty (D.M. / M.Ch.), Fellowship course, M.Sc.(Medical Biochemistry) & M.Sc (MLT- Microbiology) and Ph.D Programs are based on Entrance Examination. During the Academic year 2011-12, 124 candidates were admitted to the Postgraduate (MD/MS)courses, 18 candidates were admitted to the Super Specialty courses, 3 candidates were admitted to the fellowship courses and 18 candidates were admitted to the Ph.D., programs. 24 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>4</td>
</tr>
<tr>
<td>2</td>
<td>Physiology</td>
<td>4</td>
</tr>
<tr>
<td>3</td>
<td>Biochemistry</td>
<td>4</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>5</td>
</tr>
<tr>
<td>9</td>
<td>General Medicine</td>
<td>13</td>
</tr>
<tr>
<td>10</td>
<td>General Surgery</td>
<td>13</td>
</tr>
<tr>
<td>11</td>
<td>Obstetrics &amp; Gynaecology</td>
<td>13</td>
</tr>
<tr>
<td>12</td>
<td>Pediatrics</td>
<td>10</td>
</tr>
<tr>
<td>13</td>
<td>Anaesthesiology</td>
<td>10</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>5</td>
</tr>
<tr>
<td>17</td>
<td>Radio-diagnosis</td>
<td>3</td>
</tr>
<tr>
<td>18</td>
<td>Radiotherapy</td>
<td>4</td>
</tr>
<tr>
<td>19</td>
<td>Oto-Rhino Laryngology (ENT)</td>
<td>4</td>
</tr>
<tr>
<td>20</td>
<td>Psychiatry</td>
<td>2</td>
</tr>
<tr>
<td>21</td>
<td>Pulmonary Medicine</td>
<td>2</td>
</tr>
<tr>
<td>22</td>
<td>Forensic Medicine</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>124</strong></td>
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</table>
Highest mark obtained category wise in Entrance Examination

<table>
<thead>
<tr>
<th>Category</th>
<th>Maximum Marks: 1000</th>
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<tbody>
<tr>
<td>UR</td>
<td>754</td>
</tr>
<tr>
<td>OBC</td>
<td>726</td>
</tr>
<tr>
<td>INSTITUTE</td>
<td>725</td>
</tr>
<tr>
<td>OPH</td>
<td>546</td>
</tr>
<tr>
<td>SC</td>
<td>751</td>
</tr>
<tr>
<td>ST</td>
<td>586</td>
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</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Courses</th>
<th>Nos. of Seats</th>
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</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>D.M. Clinical Haematology</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>M.Ch. Urology</td>
<td>3</td>
</tr>
<tr>
<td>8</td>
<td>M.Ch. CTVS</td>
<td>3</td>
</tr>
<tr>
<td>9</td>
<td>M.Ch. Neuro Surgery</td>
<td>1</td>
</tr>
<tr>
<td>10</td>
<td>M.Ch. Surgical Gastroenterology</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>18</td>
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</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
4. Tropical Parasitology - 1 seat
M.Sc. (Medical Biochemistry)

The Masters course in Medical Biochemistry at JIPMER is run over the last 33 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 2011-12 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 2011-12 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 programme 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. Nithya Gogtay - Pharmacology
   Addl. Professor
   Dept. of Clinical Pharmacology
   Maulana Azad Medical College
   Lok Nayak Hospital, New Delhi.

2. Dr. Amlesh Seth - Urology
   Professor in Urology
   AIIMS, New Delhi-110029.

3. Dr. Veereshwar Bhatnagar - Pediatric Surgery
   Professor & Head
   Dept. of Pediatric Surgery
   AIIMS, New Delhi-110029.

4. Dr. Dharmapuri Vidyasagar - Paediatrics
   Professor Emeritus Pediatrics
   Division of Neonatology
   University of Illinois at Chicago Medical Centre
   USA.

5. Dr. Guy Laurent - RCC
   Professor of Medicine
   Toulouse University Medical Medical Centre, France.
6. Dr. Nagamani R Beligere - Paediatrics
Medical Director
University of Illinois at Chicago Medical Centre
USA.

7. Dr. Guy Laurent - Medical Oncology
Professor of Medicine
Toulouse University Medical Centre
France.

8. Dr. M.Raj Rajasekaran - Pharmacology
Project Scientist
University of California.

9. Dr. Rama Bhat - Paediatrics
Prof. of Paediatrics
Division of Neonatology
Medical College of Wisconsin, USA.

10. Dr. Ramnath Mishra - Clinical Immunology
Sr. Professor & Head
SGPGIMS, Lucknow.

11. Dr. Amlesh Seth - Urology
Professor in Urology
AIIMS, New Delhi-110029.

12. Dr. Ramnath Mishra - Clinical Immunology
Sr. Professor & Head
SGPGIMS, Lucknow.

13. Dr. Rajiv Saran - Nephrology
Assoc. Prof. of Medicine
Division of Nephrology
Dept. of Internal Medicine
Michigan, USA.

14. Dr. K. Umadevi - Obst. & Gynaecology
Consultant Gynaec. Oncologist
Kidwai Memorial Instt. of Oncology
Bengaluru.

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 departments 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 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

1. Annual Conference of AROI TNPY Chapter 2012 - Regional Cancer Centre
2. Workshop for training clinical investigators - Pharmacology
   with neighboring colleges in association
   Indian society of clinical research
3. Workshop on Advanced spine surgery - Neuro-Surgery
   training course
4. CME on GAIT Mechanics, Analysis of normal & Pathological gait patterns for 2 days - Orthopedics
5. IV Indo-French radial Intervention course, 2012 (IFRIC 2011) Cardiology 2 days - Cardiology
6. Conducted CME on stilled course on advanced Laparoscopy - Surgical Gastroenterology
   for PG students & SR
7. CME on Neuro developments in HIV - Microbiology

CONVOCATION

The Third Convocation of JIPMER shall be held on 30th June 2012. Degrees shall be awarded to the MBBS, PG (MD / MS), DM / M.Ch. and Ph.D. Students who have successfully completed the course. Honorable Prime Minister & Honorable Union Minister for Health & Family Welfare have consented to grace the occasion and distribute the degrees and the awards. A total of 317 Degrees and 70 Medals shall be awarded on the occasion.

THESIS TOPICS

Ph.D.
Details of Ph.D. Scholars who have been registered in JIPMER under various disciplines during the academic year 2011, Name of the Supervisor and their Title of thesis
<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Name</th>
<th>Name of the Supervisor</th>
<th>Discipline</th>
<th>Title of the thesis</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mr. Ganesan S</td>
<td>Dr. C. Adithan, Professor &amp; Head Dept. of Pharmacology</td>
<td>Medical Pharmacology</td>
<td>Pharmacovigilance &amp; Pharmacogenomics</td>
</tr>
<tr>
<td>2</td>
<td>Mr. Gopinath S</td>
<td>Dr. D G Shewade, Professor of Pharmacology</td>
<td>Medical Pharmacology</td>
<td>Pharmacogenomics</td>
</tr>
<tr>
<td>3</td>
<td>Ms. Padmapriya R</td>
<td>Dr. R Raveendran, Professor of Pharmacology</td>
<td>Medical Pharmacology</td>
<td>Anticancer activity of plants</td>
</tr>
<tr>
<td>4</td>
<td>Mr. Srinivasa Rao Katiboina</td>
<td>Dr. Steven A. Dkhar, Professor of Pharmacology</td>
<td>Medical Pharmacology</td>
<td>Pharmacogenomics</td>
</tr>
<tr>
<td>5</td>
<td>Ms. Sunitha Kodidela</td>
<td>Dr. S C Pradhan, Professor of Pharmacology</td>
<td>Medical Pharmacology</td>
<td>Pharmacogenomics</td>
</tr>
<tr>
<td>6</td>
<td>Ms. Manochitra</td>
<td>Dr. S C Parija, Professor &amp; Head Dept. of Microbiology</td>
<td>Medical Microbiology</td>
<td>Parasitology</td>
</tr>
<tr>
<td>7</td>
<td>Ms. Nandhini P</td>
<td>Dr. S Sujatha, Professor of Microbiology</td>
<td>Medical Microbiology</td>
<td>Virology</td>
</tr>
<tr>
<td>8</td>
<td>Ms. Niveditha N</td>
<td>Dr. S Sujatha, Professor of Microbiology</td>
<td>Medical Microbiology</td>
<td>Bacteriology</td>
</tr>
<tr>
<td>9</td>
<td>Ms. Priya Tharisini T</td>
<td>Dr. S C Parija, Professor &amp; Head Dept. of Microbiology</td>
<td>Medical Microbiology</td>
<td>Parasitology</td>
</tr>
<tr>
<td>10</td>
<td>Ms. Roopa K S</td>
<td>Dr. B N Harish, Professor of Microbiology</td>
<td>Medical Microbiology</td>
<td>Bacteriology</td>
</tr>
<tr>
<td>11</td>
<td>Ms. Aparna S</td>
<td>Dr. Negi V S, Professor &amp; Head Dept. of Clinical Immunology</td>
<td>Clinical Immunology</td>
<td>Immunology of auto immune Disorders</td>
</tr>
<tr>
<td>12</td>
<td>Ms. Benita Nancy Reni M</td>
<td>Dr. Negi V S, Professor &amp; Head Dept. of Clinical Immunology</td>
<td>Clinical Immunology</td>
<td>Immunology of auto immune Disorders</td>
</tr>
<tr>
<td>13</td>
<td>Ms. Indumathy J</td>
<td>Dr. Pravati Pal, Addl. Professor of Physiology</td>
<td>Medical Physiology</td>
<td>Neuro-Immunology of obesity</td>
</tr>
<tr>
<td>14</td>
<td>Ms. Subha M</td>
<td>Dr. Pravati Pal, Addl. Professor of Physiology</td>
<td>Medical Physiology</td>
<td>Neurophysiology</td>
</tr>
<tr>
<td>----</td>
<td>-------------</td>
<td>-----------------------------------------------</td>
<td>--------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>15</td>
<td>Mr. Vickneshwaran V</td>
<td>Dr. Zachariah Bobby, Assistant Professor of Biochemistry</td>
<td>Medical Biochemistry</td>
<td>Molecular Basis of Pregnancy Induced Hypertension in South India Population</td>
</tr>
<tr>
<td>16</td>
<td>Ms. Anjana S</td>
<td>Dr. Medha R Asst. Professor of Biochemistry</td>
<td>Medical Biochemistry</td>
<td>Molecular biology/Genetics</td>
</tr>
<tr>
<td>17</td>
<td>Mr. Cleetus C C</td>
<td>Dr. R Soundravally Asst. Professor of Biochemistry</td>
<td>Medical Biochemistry</td>
<td>Infectious Disease</td>
</tr>
<tr>
<td>18</td>
<td>Mr. Benet Bosco Dhas D</td>
<td>Dr. B Vishnu Bhat, Professor of Paediatrics</td>
<td>Paediatrics</td>
<td>Neonatal sepsis</td>
</tr>
</tbody>
</table>

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

### DEPARTMENT OF ANATOMY

<table>
<thead>
<tr>
<th>1.</th>
<th>Dr. G. Vidya</th>
<th>Assessment of Oxidative DNA damage by Comet Assay in Children with Congenital Heart Disease.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.</td>
<td>Dr. N.A. Priyadharshini</td>
<td>Assessment of DNA damage in Term neonates with Sepsis.</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Brooklyn S</td>
<td>Assessment of DNA damage in children with cleft lip and cleft palate</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. Rajprasath R</td>
<td>Assessment of DNA damage and repair capacity in palliative radiation dose fractionation schedules in locally advanced oral cavity cancer</td>
</tr>
</tbody>
</table>

### DEPARTMENT OF E.N.T.

<table>
<thead>
<tr>
<th>1.</th>
<th>Dr. Shilpa Divakaran</th>
<th>Carbon Dioxide laser assisted surgery in the management of benign laryngeal lesions – A descriptive study.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.</td>
<td>Dr. Sabarinath V</td>
<td>Comparison of KTP laser assisted turbinate reduction with surgical turbinoplasty in the management of inferior turbinate hypertrophy – A randomized clinical study.</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Rajunaik Ajmeera</td>
<td>Efficacy of middle meatus antrostomy with and without partial middle turbinectomy in the treatment of chronic sinusitis.</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. Greeshma M G</td>
<td>Comparison of Mydriatic &amp; Non Mydriatic fundus examination in detection of diabetic retinopathy.</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Poornima K</td>
<td>Tear film and conjunctival cytological changes following manual small incision cataract surgery.</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Rouksana E</td>
<td>Opposite clear corneal incision versus limbal relaxing incision to correct pre existing corneal astigmatism during phacoemulsification.</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. Amuthavani K</td>
<td>Ocular surface disorder in patients using topical antiglaucoma medications</td>
</tr>
<tr>
<td>5.</td>
<td>Dr. Dipankar Anand</td>
<td>Role of optical coherence tomography in papilledema</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. Ravi Kumar N</td>
<td>Comparison of efficacy of intramedullary nailing and plating in the treatment of extra-articular proximal tibial fractures-A randomized clinical study</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Hari Krishna M</td>
<td>Effect of closed intramedullary nailing on compartmental pressures in closed tibial shaft fractures</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Gayadhar Behera</td>
<td>Clinico-Radiological outcome of percutaneous vertebroplasty compared with conservative management in patients with osteoporotic vertebral compression fractures</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. Anand Kumar R</td>
<td>Study of coagulative and cardiorespiratory parameters in reamed intramedullary nailing of isolated closed femur fractures in adults.</td>
</tr>
<tr>
<td>5.</td>
<td>Dr. Agrawal Rahul Rameshkumar</td>
<td>Clinical and Hematological predictors of acute haematogenous osteomyelitis and septic arthritis.</td>
</tr>
</tbody>
</table>

### DEPARTMENT OF DERMATOLOGY, VENE. & LEPROSY

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr. Biswanath Behera</td>
<td>A Comparison of therapeutic efficacy of intralesional steroids in combination with carbon dioxide laser versus in combination with cryotherapy in treatment of keloids</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Lakshmi Bhuvaneswara Kartha</td>
<td>Role of iron deficiency in diffuse hair loss (female pattern hair loss and chronic telogen effluvium) in women</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Deepthi Konda</td>
<td>Role of herpes simplex virus in patients with pemphigus</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. Nava Kumar M</td>
<td>Comparison of microskin grafting and transplantation of non cultured melanocyte keratinocyte suspension for the treatment of stable vitiligo</td>
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<td>Dr. Sivashankari K</td>
<td>A clinicopathological and dermoscopic study of melasma to assess the frequency of exogenous ochronosis</td>
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<td>Dr. B.Pradeep</td>
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   Clinical and polysomnographic profile of patients with sleep related breathing disorder

2. Dr. Pratap Upadhya  
   Pulmonary manifestations in rheumatoid arthritis: Hospital based descriptive study

**DEPARTMENT OF PATHOLOGY**

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   Immunophenotyping of nodal peripheral T-Cell lymphomas and association with Epstein-BARR Virus

2. Dr. Shobhanaa P S  
   Study of immunohistochemical profile of P53, Ki-67, CK20, CD10 in urothelial neoplasms of urinary bladder

3. Dr. Jhansi Rani A  
   Fine needle aspiration cytology of spindle cell lesions and their histopathologic correlation

4. Dr. Suganya K  
   Role of micronucleus in cervical intraepithelial lesions and carcinoma

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2. Dr. Sarath Babu V  
   Somatosensory evoked potentials in healthy subjects: A study for technical standardization & normative data for south Indian population

3. Dr. Shaikh Sameer Aijaz  
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<td>Study of platelet response to antiplatelet drugs in coronary artery disease.</td>
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<td>Clinical profile and cardiovascular evaluation in patients of type 2 diabetes with Nephropathy.</td>
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<td>Tuberculosis among resident doctors: a longitudinal study of disease risk, infectious exposure, clinical profile, and treatment practices.</td>
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<td>1</td>
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<td>Ovarian reserve tests and ovarian response to increasing doses of clomiphene citrate in infertile women</td>
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<td>Effect of high dose water soluble vitamin supplementation on insulin resistance, oxidative stress homocysteine and thyroid function in patients with subclinical hypothyroidism – A randomized controlled study</td>
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### List of dissertation titles submitted by second year M.Sc. (Medical Biochemistry) students

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<td>Adiponectin and oxidative stress levels in type 2 diabetics on oral hypoglycemic drugs</td>
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<td>Sithara Thomas</td>
<td>Effect of S-methyl-L-Cysteine (SMC) on oxidative stress and insulin resistance, in male wistar rats induced with fructose rich diet</td>
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<td>Evaluation of acute toxicity of concurrent chemoradiation in carcinoma cervix when CT based 3-dimensional planning (with dose optimization) is used for external beam radiation-A prospective study</td>
<td>1,00,000/- per yr for 2 years</td>
<td>3rd yr grant after Reassess of annual reports</td>
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<td>Dr. Gangothri S</td>
<td>Effect of HDR interstitial brachytherapy boost in Early stage T1, T2 and locally advanced stage T1 to T3 with N1, N2a, N2b or T3N0 oral cavity squamous cell carcinomas</td>
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INTRAMURAL RESEARCH GRANTS

Proposals are invited every year for the sanction of Intramural Research Fund. The details of the sanction of Intramural Research Fund for the year 2011-12 are as under:-

Sanction for Intramural Research Fund

PROJECTS FOR FACULTY

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<td>Dr. Rashmoni Jana</td>
<td>Effect of chronic stress on morphology of interstitial cell of cajal, nitric and cholinergic neurons in the enteric nervous system of rat colon</td>
<td>1,00,000/- per yr for 2 years</td>
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<td>2</td>
<td>Dr. Suma H Y</td>
<td>Assessment of the Frequency of sister chromatid exchange and its Association with clinical features in patients with Down’s syndrome</td>
<td>50,000/- for 1 year</td>
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<tr>
<td>3</td>
<td>Dr. Zachariah Bobby</td>
<td>Molecular Basis of Insulin Resistance and its associated Complications in an Experimental model of Postmenopausal Obesity (High fat fed Ovariectomized Female Wistar rats.)</td>
<td>1,00,000/-per yr for 2 yrs</td>
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<tr>
<td>4</td>
<td>Dr. H. Nandeesha</td>
<td>Assessment of Carbohydrate deficient Transferrin, PENTRAxin-3 and Procollagen III peptide in Alcoholic Cirrhosis: Correlation with disease severity</td>
<td>1,00,000/-per yr for 2 yrs</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Dr. Medha R.</td>
<td>IL-2 and IL-4 Gene Polymorphisms in Psoriasis vulgaris in South Indian population</td>
<td>1,00,000/- 1,00,625/- 1 yr 2 yrs</td>
<td></td>
</tr>
</tbody>
</table>

| 6  | Dr. Gopu.P  | Endothelial functions and sympathovagal balance in relation to cardiac abnormalities in graves' disease | 1,20,000/- for 1 yr 2nd yr grant after reassess of annual report |

| 7  | Dr. Rashmi Kumari  | Distribution of Melanocytes in white (graying) Hair compared to black hair | 1,00,000/- per yr Balance on reassess of annual report |
| 8  | Dr. Laxmisha Chandrashekar  | Association of Herpes simplex virus, Cytomegalovirus, and Staphylococcus aureus in patients with pemphigus and their contribution to glucocorticoid resistance | 1,00,000/- per yr for 2 yrs |

<p>| 9  | Dr. Sadish Kumar @ Kamalanathan  | Effect of thyroxin on endothelial function and cardiac manifestations in women with subclinical hypothyroidism | 1,00,000/- for 1yr 2nd yr grant after reassess of annual report |</p>
<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Department</th>
<th>Project Description</th>
<th>Funding Details</th>
<th>Duration</th>
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<tbody>
<tr>
<td>10</td>
<td>Dr. Lakshmi CP</td>
<td>Medical Gastroenterology</td>
<td>Cytokine profile in pancreatic ductal fluid in Indian patients with chronic pancreatitis</td>
<td>1,00,000/- for 1yr</td>
<td>2nd yr grant after reassess of annual report</td>
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<tr>
<td>11</td>
<td>Dr. Vinod K.V</td>
<td>Medicine</td>
<td>Clinical and laboratory profile of viper bite patients with special reference to adrenal function in patients with shock</td>
<td>69,328/- (single grant)</td>
<td>2 years</td>
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<tr>
<td>12</td>
<td>Dr. Mukta Wyawahare</td>
<td>Medicine</td>
<td>Distribution of ACE gene polymorphism and its association with severity of nephropathy in Type 2 diabetic individuals in a tertiary care center in South India</td>
<td>1,50,000/- (single grant)</td>
<td>2 years</td>
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<tr>
<td>13</td>
<td>Dr. Suryanarayana BS</td>
<td>Medicine</td>
<td>Study of Rickettsial infections among inpatients of JIPMER</td>
<td>1,00,000/- for 1yr</td>
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<tr>
<td>14</td>
<td>Dr. Rakesh Singh</td>
<td>Microbiology</td>
<td>Detection of Candida dubliniensis by PCR in HIV infected individuals</td>
<td>1,00,000/- for 1yr</td>
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<td>15</td>
<td>Dr. Rahul Dhodapkar</td>
<td>Microbiology</td>
<td>Antigen Detection for the diagnosis of viral lower respiratory tract infection in children less than 60 months</td>
<td>1,00,000/- (single grant)</td>
<td>1 year 6 months</td>
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<tr>
<td>16</td>
<td>Dr. Latha Chaturvedula Professor</td>
<td>Obstetrics &amp; Gynecology</td>
<td>Pregnancy Outcome in preterm premature rupture of membranes between 24-34 weeks of Gestation</td>
<td>15,000/- (single grant)</td>
<td>1 year 6 months</td>
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<td>17</td>
<td>Dr. Deep Sharma Asst. Professor</td>
<td>Orthopaedics</td>
<td>Study on the diagnostic utility of systemic and local levels of ADA, IFN-r, TNF-α, &amp; IL-6 in skeletal tuberculosis</td>
<td>1,18,000/- (single grant)</td>
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<td>18</td>
<td>Dr. Reena Gulati, Asst. Professor</td>
<td>Paediatrics</td>
<td>Screening for alpha thalassemia gene mutations in Pondicherry – a pilot study</td>
<td>1,00,000/- for 1yr</td>
<td>2nd yr grant after reassess of annual report</td>
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<tr>
<td>No.</td>
<td>Name</td>
<td>Title</td>
<td>Grant Details</td>
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<td>19</td>
<td>Dr. Barath J</td>
<td>Hospital based seroprevalence to hepatitis E virus among children from Pondicherry</td>
<td>1,00,000/- (single grant)</td>
<td>1 year 6 months</td>
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<td></td>
<td>Asst. Prof.</td>
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<td>20</td>
<td>Dr. Narayanan P</td>
<td>Procalcitonin guided antibiotic therapy in paediatric intensive care patients – A randomized control trial</td>
<td>1,00,000/- for 1 yr</td>
<td>2nd yr grant after reassess of annual report</td>
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<td>Asst. Prof.</td>
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<td>PATHOLOGY</td>
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<tr>
<td>21</td>
<td>Dr. Rakhee Kar</td>
<td>Screening for paroxysmal nocturnal hemoglobinuria (PNH) in the local patient population using gel card technology</td>
<td>50,000/- for 1 yr</td>
<td>Centrifuge not approved 2nd yr grant after reassess of annual report</td>
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<td>Asst. Prof.</td>
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<td>22</td>
<td>Dr. Surendra Kumar Verma</td>
<td>Histopathological and Immunohistochemical evaluation of follicular-patterned neoplasms of thyroid</td>
<td>38,500/- for 1 yr</td>
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<td></td>
<td>Prof. &amp; Head</td>
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<tr>
<td>23</td>
<td>Dr. M. Jayanthi</td>
<td>Effect of alcohol on hepatic drug metabolizing enzyme CYP2C19</td>
<td>1,00,000/- per yr for 2 yrs</td>
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<td>Asst. Prof.</td>
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<td>24</td>
<td>Dr. G.S. Sreenath, Asst.</td>
<td>Assessment of abdominal muscle tone in patients with inguinal hernia</td>
<td>38,000/- for 1 yr</td>
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<td></td>
<td>Prof.</td>
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<td>25</td>
<td>Dr. Sunil K Narayan</td>
<td>Association of total plasma homocysteine concentration and MTHFR mutations with cerebrovascular diseases in the South Indian Population – A case control study</td>
<td>1,00,000/- for 1 yr</td>
<td>Final grant</td>
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<td>Professor and HOD (Faculty Project)</td>
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<td>26</td>
<td>Dr. Renuka Srinivasan,</td>
<td>A comparative study of the clinical efficacy of topical ketorolac v/s bromfenac in reducing aqueous prostaglandin E2 levels and macular edema after cataract surgery</td>
<td>1,00,000/- per yr for 2 yrs</td>
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<td></td>
<td>Professor of Ophthalmology</td>
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<td>(Faculty Project)</td>
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<td>27</td>
<td>Dr Manikandan K</td>
<td>Chromosomal abnormalities among fetuses with structural anomalies evaluated in JIPMER</td>
<td>1,00,000/- per yr for 2 yrs</td>
<td>3rd yr grant after reassess of annual reports</td>
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<td>Asst. Prof.</td>
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## PROJECTS FOR PG WITH FACULTY AS GUIDE

<table>
<thead>
<tr>
<th>SL. NO.</th>
<th>NAME</th>
<th>PROJECT TITLE</th>
<th>APPROVAL</th>
<th>REMARKS</th>
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<tr>
<td><strong>ANATOMY</strong></td>
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<tr>
<td>1</td>
<td>Dr. Parkash Chand Professor&lt;br&gt;(Dr. S. Aravinthan, J/R)</td>
<td>Assessment of DNA damage by comet assay in cases with neural tube defects and evaluates its association with plasma level of folic acid and homocysteine</td>
<td>57,000/-&lt;br&gt;(single grant)</td>
<td>2 years</td>
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<td>2</td>
<td>Dr. K. Ramachandra Rao Professor and Head&lt;br&gt;(Dr. D. R. Hariharan, J/R)</td>
<td>Evaluation of DNA damage in type I diabetic patients by sister chromatid exchange</td>
<td>21,500/-&lt;br&gt;(single grant)</td>
<td>2 years</td>
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<tr>
<td>3</td>
<td>Dr. Parkash Chand Professor&lt;br&gt;(Dr.N.A.Priyadarshini, J/R)</td>
<td>Assessment of DNA damage in term neonates with sepsis</td>
<td>27,925/-&lt;br&gt;(single grant)</td>
<td>2 years</td>
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<td>4</td>
<td>Dr. Rashmoni Jana Asst. Prof.&lt;br&gt;(Dr.S.Brooklyin, J/R)</td>
<td>Assessment of DNA damage in children with cleft lip and cleft palate</td>
<td>23,075/-&lt;br&gt;(single grant)</td>
<td>2 years</td>
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<tr>
<td>5</td>
<td>Dr. Suma H Y., Asst. Prof.&lt;br&gt;(Dr.Vidya.G, J/R)</td>
<td>Assessment of DNA damage by comet assay in children with congenital heart disease</td>
<td>31,916/-&lt;br&gt;(single grant)</td>
<td>2 years</td>
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<td><strong>ANESTHESIOLOGY</strong></td>
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<td>6</td>
<td>Dr. Ashok Badhe&lt;br&gt;(Dr.Mansih.S, J/R)</td>
<td>Comparison of the Airtraq and Truview Laryngoscopes in patients undergoing tracheal intubation with cervical spine immobilization – A Randomised Clinical Trial</td>
<td>50,000/-&lt;br&gt;(single grant)</td>
<td>2 years</td>
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<tr>
<td>7</td>
<td>Dr. Bidkar Prasanna Udupi Asst. Professor&lt;br&gt;(Dr.Ramaya Vel.T, J/R)</td>
<td>Effect of low dose Tranexamic Acid on intra operative blood loss in Neurosurgical patients</td>
<td>50,000/-&lt;br&gt;(single grant)</td>
<td>2 years 6 months</td>
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<tr>
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<td>8</td>
<td>Dr. H. Nandeesha Asst. Professor ( Manjusha Jangam, M.Sc.,)</td>
<td>Assessment of Serum iron indices and C-Reactive protein in patients with Alcoholic liver disease</td>
<td>25,000/- (Single grant)</td>
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<tr>
<td>9</td>
<td>Dr. PH. Anantharayanan Prof. and Head ( Krishna Rao, M.Sc.,)</td>
<td>The Role of Serum NGAL (Neutrophil Gelatinase Associated Lipocalin) Level in predicting outcomes of patients with acute kidney injury requiring dialysis</td>
<td>25,000/- (Single grant)</td>
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<tr>
<td>10</td>
<td>Dr. Medha R. Asst. Professor ( Rathika.S, M.Sc.,)</td>
<td>Leptin, Adiponectin, Prolactin Levels and insulin resistance in patients with psoriasis vulgaris</td>
<td>25,000/- (Single grant)</td>
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<tr>
<td>11</td>
<td>Dr. Zachariah Bobby Asst. Prof. ( Sreenivasulu Reddy, M.Sc.,)</td>
<td>Oxidative stress, Protein glycation and thyroid function in adult patients with nephrotic syndrome and after remission.</td>
<td>25,000/- (Single grant)</td>
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<td>12</td>
<td>Dr. G.P. Senthil Kumar Lecturer ( K.Sivaraman, M.Sc.,)</td>
<td>Effect of garlic crude extract (<em>Allium Sativum</em>) on free radical defense system and insulin resistance in male wistar rats fed with high fructose diet (Experimental metabolic syndrome)</td>
<td>25,000/- (Single grant)</td>
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<tr>
<td>13</td>
<td>Dr. G.P. Senthil Kumar Lecturer ( Sithara Thomas, M.Sc.,)</td>
<td>Effect of S-methyl-L-Cysteine (SMC) on oxidative stress and Insulin Resistance in Male Wistar Rats fed with High Fructose Diet (Metabolic syndrome)</td>
<td>25,000/- (Single grant)</td>
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<tr>
<td>14</td>
<td>Dr. R. Soundravally Asst. Prof. ( S.Suganya, M.Sc. Student)</td>
<td>Thyroid Profile and its association with newborn anthropometry in the subjects with gestational glucose intolerance</td>
<td>25,000/- (Single grant)</td>
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<td>15</td>
<td>Dr .M.G. Sridhar Professor ( Ancy.M, M.Sc.,)</td>
<td>Adiponectin and oxidative stress levels in type 2 diabetics on oral hypoglycemic drugs</td>
<td>25,000/- (Single grant)</td>
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</table>
| 16     | Dr. R. Soundravally  
Asst. Prof.  
(Sherin Jacob, M.Sc.) | Circulating levels of acute phase proteins as prognostic markers of severe dengue disease | 25,000/-  
(Single grant) |         |
| 17     | Dr M.G. Sridhar  
Professor (Ph.D. Project)  
(R.Sripadha) | Molecular basis of the effects of garcinia cambogia extracts on obesity and insulin sensitivity in diet induced obese and insulin resistant animal models | 50,000/-  
for 1 year | II yr  
sanction  
after Reassess of  
I yr annual report |
| 18     | Dr. Zachariah Bobby  
Asst. Prof.  
(Ashwini, Ph.D.) | Molecular basis of insulin resistance and its complications in coexisting type 2 diabetes and Hypothyroidism | 50,000/-  
for 1 year | II yr  
sanction  
after Reassess of  
I yr annual report |
| 19     | Dr. Medha R.  
Asst. Prof.  
(Indhumathi. S, Ph.D.) | HLA-Cw6 in psoriasis vulgaris in South Indian Population | 50,000/-  
for 1 year | II yr  
sanction  
after Reassess of  
I yr annual report |
| 20     | Dr. P.H. Ananthanarayanan  
HOD  
(Dr.Thippeswamy.D.N, J/R) | Adiponectin, leptin, IL-6 levels and metabolic syndrome in patients with prostate Cancer | 68,000/-  
(single grant) | 2 years |
| 21     | Dr. R. Soundravally  
Asst. Prof.  
(Dr.Archana Nimesh, J/R) | Melatonin and Parathormone levels in subjects with gestational glucose intolerance and their association with newborn anthropometry | 50,000/-  
per yr for 2 yrs |         |
| 22     | Dr M.G. Sridhar  
Professor  
(Dr.Prerna Singh, J/R) | Adiponectin, resistin IL-6 levels and insulin resistance in men with acute coronary syndrome | 50,000/-  
per yr for 2 yrs |         |
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<tr>
<td>23</td>
<td>Dr. Zachariah Bobby Asst. Prof. (Dr. Balasubramanian A, J/R)</td>
<td>Effect of High dose water soluble vitamin supplementation on insulin resistance, oxidative stress, Homocysteine and thyroid function in subclinical Hypothyroidism: A randomized controlled study</td>
<td>50,000/- per yr for 2 yrs</td>
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<td>CLINICAL HEMATOLOGY</td>
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<tr>
<td>24</td>
<td>Dr. T.K. Dutta Professor and Head (DM Student) (Dr. Shailendra Prasad Verma)</td>
<td>Immunohistochemical evaluation of bone marrow angiogenesis and its clinical correlation in primary and secondary myelofibrosis</td>
<td>97,500/- (single grant)</td>
<td>2 years</td>
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<tr>
<td>25</td>
<td>Dr. V S Negi, Addl. Professor (M. Christina Mary, Ph.D.,)</td>
<td>Molecular characterization of non classical HLA genes (HLA-G, HLA-E) and their contribution to disease susceptibility and severity in Rheumatoid Arthritis (RA)</td>
<td>50,000/- for I yr</td>
<td>II yr sanction after Reassess of I yr annual report</td>
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<tr>
<td>26</td>
<td>Dr. V S Negi, Professor and Head (M. Niveditha, Ph.D.,)</td>
<td>Effect of genetic polymorphisms in methotrexate transporter genes on treatment response in patients with rheumatoid arthritis.</td>
<td>1,00,000/- for I yr</td>
<td>II yr sanction after Reassess of I yr annual report</td>
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<td>27</td>
<td>Dr. T.J. Jaisankar, Professor (Dr. Lakshmi Bhuvaneswaran Karma, J/R)</td>
<td>Role of iron deficiency in diffuse hair loss (female pattern hair loss and chronic telogen effluvium) in women</td>
<td>90,000/- (single grant)</td>
<td>2 years</td>
</tr>
<tr>
<td>28</td>
<td>Dr. Laxmisha Chandrashekar, Asst. Prof. (Dr. Deepthi Konda, J/R)</td>
<td>Association of Herpes simplex virus in patients with pemphigus</td>
<td>78,000/- (single grant)</td>
<td>2 years</td>
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<td>29</td>
<td>Dr. Abdoul Hamide Professor (Dr. Sherief. S, J/R)</td>
<td>Bone health in middle aged and elderly men- a hospital based study</td>
<td>50,000/- per yr for 2 yrs</td>
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<td>30</td>
<td>Dr. Jyoti Wadhwa Asst. Prof. (Dr.Rakesh Naik.V, J/R)</td>
<td>A prospective study of acute undifferentiated febrile illness in hospitalized patients</td>
<td>30,000/- - I yr 10,000/- - II yr</td>
<td></td>
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<td>31</td>
<td>Dr. T K Dutta Professor &amp; Head</td>
<td>Study of platelet response to antiplatelet drugs in coronary artery disease</td>
<td>50,000/- - I yr 47,000/- - II yr</td>
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<td>32</td>
<td>Dr. Molly Mary Thabah Asst. Prof.</td>
<td>Metabolic syndrome components in Systemic Lupus Erythematosus and its association with disease activity and damage</td>
<td>12,500/- per yr for 2 yrs</td>
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<td></td>
<td><strong>MICROBIOLOGY</strong></td>
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<td>33</td>
<td>Dr. B.N. Harish Professor (Dr.Shamantha.D, J/R)</td>
<td>Bacterial etiology of infective Endocarditis with special Reference to culture negative infective endocarditis</td>
<td>50,000/- (single grant)</td>
<td>2 years</td>
</tr>
<tr>
<td>34</td>
<td>Dr. S.C. Parija Professor and Head (Dr.S.Ramani, J/R)</td>
<td>Detection of molecular markers for chloroquine and artemisinin resistance in Plasmodium falciparum”</td>
<td>50,000/- per yr for 2 yrs</td>
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<tr>
<td>35</td>
<td>Dr. S. Sujatha Professor (Dr.Neha Jain, J/R)</td>
<td>Study of Respiratory syncitial virus (RSV) and human metapneumo virus (hMPV) in acute lower respiratory tract infections (LRTI) in children less than 60 months.</td>
<td>50,000/- per yr for 2 yrs</td>
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<td>36</td>
<td>Dr. S. C. Parija Professor and Head (Ms. S. Dhanalakshmi, Ph.d.,)</td>
<td>Development and Evaluation of Recombinant Antigens for serodiagnosis of Amoebiasis</td>
<td>1,00,000/- per yr for 2 yrs</td>
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<td>37</td>
<td>Dr. S. Sujatha Professor (Ms.N.Niveditha, Ph.d.,)</td>
<td>Antimicrobial resistance and Molecular Epidemiology of Methicillin Resistant Staphylococcus aureus (MRSA) isolates from human and veterinary sources.</td>
<td>1,00,000/- per yr for 2 yrs</td>
<td>3rd yr grant after reassess of annual reports</td>
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</table>
| 38     | Dr. S. Sujatha  
Professor  
(Ms. P. Nandhini, Ph.d.,) | Study of viral acute respiratory tract infections (ARTI) and characterization of influenza isolates with special reference to oseltamivir resistance | 1,00,000/- per yr for 2 yrs | 3rd yr grant after reassess of annual reports |
| 39     | Dr. B.N. Harish  
Professor  
(Ms. V. K. Geetha, M.Sc.,) | Pattern of antibiotic resistance in Salmonella spp. | 25,000/- (single grant) | |
| 40     | Dr. S. Sujatha,  
Professor  
(Ms. M. Jisha, M.Sc.,) | Phenotypic characterization of carbapenem resistant nonfermenting gram negative bacilli (NFGNB) from patient with ventilator associated pneumonia | 25,000/- (single grant) | |
| 41     | Dr. S.C. Parija  
Professor and Head  
(Mrs. Rose Stella Simethy, M.Sc.,) | Frequency Of Occurrence Of pvert-o and pumdr 1 GENES IN Plasmodium vivax | 25,000/- (single grant) | |

**NEPHROLOGY**

| 42     | Dr. Sreejith Parameswaran  
Asst. Professor  
(Dr. Anand Chellappan, J/R) | Longitudinal follow up of bone mineral density in adults with nephrotic syndrome from primary glomerular disease. | 95,000/- (single grant) | 1 year 8 months |

**NEUROLOGY**

| 43     | Dr. Srijithesh P.R.  
Asst. Professor  
(DM Student)  
(Dr. Madhuri Khilari) | Platelet aggregation test using adenosine diphosphate (ADP) as agonist in ischemic stroke in acute period and its temporal validity in chronic period in patients on constant dose of aspirin | 49,000/- (single grant) | |

**OBSTETRICS AND GYNAECOLOGY**

| 44     | Dr. Dasari Papa,  
Professor  
(Dr. Karthika. R.S, J/R) | Ovarian reserve tests and ovarian response to increasing doses of clomiphene citrate in infertile women | 45,000/- per yr for 2 yrs | |
<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>45</td>
<td>Dr. K. Ramesh Babu</td>
<td>Comparison of Opposite Clear Corneal Incision (OCCI) and Limbal Relaxing Incision (LRI) to correct pre existing astigmatism during phacoemulsification</td>
<td>50,000/- (single grant)</td>
<td>2 years</td>
</tr>
<tr>
<td>46</td>
<td>Dr. B. Vishnu Bhat, Professor (Dr.Benet Bosco Dhas, Ph.D..)</td>
<td>Polymorphism in S100A9 gene in relation with disease susceptibility and outcomes in neonatal sepsis</td>
<td>1,00,000/- per yr for 2 yrs</td>
<td>3rd yr grant after reassess of annual reports</td>
</tr>
<tr>
<td>47</td>
<td>Dr.Sriram Krishnamurthy, Asst. Professor (DM Student) (Dr.Rojo Joy)</td>
<td>Early versus late enteral prophylactic iron supplementation in very low birth weight newborn infants: A randomized controlled trial</td>
<td>80,000/- (single grant)</td>
<td>1 ½ years</td>
</tr>
<tr>
<td>48</td>
<td>Dr. Niranjan Biswal, Professor (Dr.B.Banupriya, J/R)</td>
<td>Role of probiotic prophylaxis against Nosocomial infections in patients on mechanical ventilation – An open labeled randomized controlled trial</td>
<td>40,000/- (single grant)</td>
<td>1 year</td>
</tr>
<tr>
<td>49</td>
<td>Dr. Bhawana Ashok Badhe Professor (Dr.Shobhanna, J/R)</td>
<td>Study of immune-histochemical profile of p53, Ki-67, CK20, CD10 in urothelial Neoplasms of Urinary Bladder</td>
<td>50,000/- per yr for 2 yrs</td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>Dr. S.K. Verma, Professor (Dr.C.Chitra, J/R)</td>
<td>Diagnosis of Endometrial Intraepithelial Neoplasia and the role of pten(phosphatase &amp; tensin homologue), BCL2 and KL-67 in Endometrial Lesions</td>
<td>50,000/- per yr for 2 yrs</td>
<td></td>
</tr>
<tr>
<td>51</td>
<td>Dr. Debsharma Basu, Professor (Dr.Bidish Kumar Patel, J/R)</td>
<td>Nodal Peripheral T-Cell Lymphoma: Immunophenotypic profile and its association with Epstein-Barr virus.</td>
<td>90,000/- (single grant)</td>
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<td>52</td>
<td>Dr. N. Siddaraju Professor (Dr.A.Jhansi Rani, J/R)</td>
<td>Fine needle aspiration cytology of spindle cell lesions and their histopathologic correlation</td>
<td>50,000/- per yr for 2 yrs</td>
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<td>SL. NO.</td>
<td>NAME</td>
<td>PROJECT TITLE</td>
<td>APPROVAL</td>
<td>REMARKS</td>
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<tr>
<td>53</td>
<td>Dr. Steven A Dkhar, Professor (Dr. Radhika A, J/R)</td>
<td>Effect of MDR1 and 5 HT-2C genetic polymorphisms on risperidone induced weight gain in patients of schizophrenia and acute psychosis</td>
<td>50,000/- for I yr</td>
<td>2nd yr grant after reassess of annual report</td>
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<td>54</td>
<td>Dr. C. Adithan Professor &amp; HOD (Dr. Saranya V, J/R)</td>
<td>Influence of ATM AND SLC22A1 gene polymorphisms on response to metformin therapy for achieving glycemic control, in type 2 diabetes mellitus patients of South India</td>
<td>50,000/- for I yr</td>
<td>2nd yr grant after reassess of annual report</td>
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<tr>
<td>55</td>
<td>Dr. D.G. Shewade, Professor (Dr. X. Alphienes Stanley, J/R)</td>
<td>Effect of Antituberculosis treatment on Hepatic drug metabolizing enzyme CYP2C19</td>
<td>50,000/- for I yr</td>
<td>2nd yr grant after reassess of annual report</td>
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<tr>
<td>56</td>
<td>Dr. R. Raveendran, Professor (Ms. R. Padmapriya, Ph.D.,)</td>
<td>In vitro anticancer property of Tephrosia purpurea on liver cancer cell lines</td>
<td>1,00,000/- per yr for 2 yrs</td>
<td>3rd yr grant after reassess of annual reports</td>
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<tr>
<td>57</td>
<td>Dr. Steven Aibor Dkhar, Professor (Ph.D. Student) (Mr. Srinivas Rao K)</td>
<td>Influence of DNA Repair Gene Polymorphisms on Platinum-Based Chemotherapy in Cancer Patients of South Indian Population</td>
<td>1,00,000/- per yr for 2 yrs</td>
<td>3rd yr grant after reassess of annual reports</td>
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<tr>
<td>58</td>
<td>Dr. S C Pradhan Professor (Dr. K. Krishnasamy, J/R)</td>
<td>Efficacy and safety evaluation of silymarin in hepatitis cases of various etiologies: A double blind randomized placebo controlled clinical trial</td>
<td>40,000/- - I yr 35,000/- - II yr</td>
<td>2 years</td>
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**PHYSIOLOGY**

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<th>APPROVAL</th>
<th>REMARKS</th>
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<tr>
<td>59</td>
<td>Dr. G.K. Pal, Professor (Dr. Shaikh Sameer Aijas, J/R)</td>
<td>Inflammatory marker and cardiac dysfunctions in hypothyroidism: correlation with sympathovagal imbalance</td>
<td>53,000/- (single grant)</td>
<td>2 years</td>
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<td>PROJECT TITLE</td>
<td>APPROVAL</td>
<td>REMARKS</td>
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<tr>
<td>60</td>
<td>Dr. G.K. Pal, Professor (Dr. Vidya Karpagam, J/R)</td>
<td>Oxidative stress and inflammatory markers in pregnant women with risk factors for pregnancy induced hypertension: Correlation with sympathovagal imbalance</td>
<td>50,000/- per yr for 2 yrs</td>
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<tr>
<td>61</td>
<td>Dr. Ravi Philip Rajkumar Asst. Professor (Dr. Jayant Mahadevan, J/R)</td>
<td>A study of Pro- and Anti-inflammatory immune markers in acute psychosis and their relation to stress and clinical status (P.G. Dissertation)</td>
<td>50,000/- I yr 43,000/- II yr</td>
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<tr>
<td>62</td>
<td>Dr. Shivanand Kattimani Assistant Professor (Dr. Parthasarathy, J/R)</td>
<td>Levels of Oxidative stress markers in Alcohol withdrawal state and its correlation with severity of withdrawal</td>
<td>50,000/- (single grant)</td>
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**PSYCHIATRY**

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<th>PROJECT TITLE</th>
<th>APPROVAL</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>63</td>
<td>Dr. Shyama Sudha Prem Asst. Prof. (Dr. Sathish.B, J/R)</td>
<td>Acute Toxicity of concurrent chemoradiation in carcinoma cervix treated with 3-D CRT (with dose optimization) for external beam Radiation-A descriptive study</td>
<td>`.50,000/- per yr for 2 yrs</td>
<td></td>
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<tr>
<td>64</td>
<td>Dr. K. Gunaseelan, Asst. Prof. (Dr. Carthikeyan.S.M., J/R)</td>
<td>Image-based three-dimensional treatment planning of intracavitary brachytherapy for cancer of the cervix: a Dose-volume analysis to targets and organs (bladder and rectum) at risk</td>
<td>50,000/- per yr for 2 yrs</td>
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<td>65</td>
<td>Dr. K.S. Reddy, Prof. and HOD (Dr. Anney Harshitha Arun, J/R)</td>
<td>Assessment of Auditory function in patients with head and neck cancers treated with intensity modulated radiotherapy</td>
<td>50,000/- per yr for 2 yrs</td>
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**RADIOThERAPY**
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<th>APPROVAL</th>
<th>REMARKS</th>
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<tbody>
<tr>
<td>66</td>
<td>Dr. V. Parthasarathy, Asst. Prof. (Dr.S.Gangothri, J/R)</td>
<td>Effect of HDR interstitial brachytherapy boost in Early Stage T1, T2 and locally advanced stage T1 to T3 with N1, N2a, N2b or T3N0 oral cavity squamous cell carcinoma</td>
<td>50,000/- per yr for 2 yrs</td>
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<tr>
<td>67</td>
<td>Dr. Vikram Kate Professor (Dr.Nitesh Naga Balaji.P, J/R)</td>
<td>The role of helicobacter pylori in alcohol induced acute pancreatitis</td>
<td>68,000/- (single grant)</td>
<td>2 years</td>
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<tr>
<td>68</td>
<td>Dr. Murali Poduval Addl.Professor (Dr.Anand Kumar R, J/R)</td>
<td>Study of Coagulative and Cardiorespiratory Parameters in Reamed Intramedullary Nailing of Isolated closed femur fractures in Adults under Regional Anaesthesia.</td>
<td>50,000/- per year</td>
<td>2 years</td>
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**SURGERY**

**ENTRANCE EXAMINATIONS - DATES**

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>MBBS</td>
<td>05.06.2011</td>
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<tr>
<td>M.Ch. - CTVS/Neuro Surgery/Urology</td>
<td>31.07.2011</td>
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<tr>
<td>DM - Cardiology/Neurology/Neonatology/Cl. Immunology/Cl. Pharmacology</td>
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<tr>
<td>Post Doctoral Fellowship/Ph.D/M.Sc – Medical Biochemistry/MLT Microbiology</td>
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<tr>
<td>B.Sc – Nursing/MLT/Dialysis Technology/Medical Radiation Technology/Operation Technology/Perfusion Technology</td>
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</tr>
<tr>
<td>Post Graduate</td>
<td>12.02.2012</td>
</tr>
</tbody>
</table>

**COMMITTEE MEMBERS FOR THE YEAR 2011-12**

**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 (Till 30.11.2011)**
4. **Dr. Jagdish Prasad**
   Director General of Health Services Government of India.
   **Member (From 01.12.2011)**
<table>
<thead>
<tr>
<th>No.</th>
<th>Name and Position</th>
</tr>
</thead>
</table>
| 4.  | Dr. Mayil Vahanan Natarajan  
Vice-Chancellor  
Tamil Nadu Dr. M.G.R Medical University Chennai. | Member |
| 5.  | Prof. (Dr.) K.K. Talwar  
Former 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 & Gynecology,  
All India Institute of Medical Sciences, New Delhi. | Member |
| 8.  | Prof.(Dr.) R. Surendran  
Former 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.  
Dr. T.S. Ravikumar  
Director, JIPMER | Member Secretary  
(Till 04.12.2011)  
Member Secretary  
(From 05.12.2011) |
<table>
<thead>
<tr>
<th>Sl. 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 Dr. T.S. Ravikumar</td>
<td>The Director, JIPMER, Puducherry The Director, JIPMER, Puducherry</td>
<td>Chairman (till 04.12.2011) Chairman (from 05.12.2011)</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, Scientist 'F' &amp; Head, Microbiology &amp; Immunology Dvn, VCRC, Puducherry</td>
<td></td>
<td>Member</td>
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<tr>
<td>8</td>
<td>Dr. Gautam Roy</td>
<td>Ag. Head of Department of Community Medicine, Puducherry</td>
<td>Member</td>
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<tr>
<td>9</td>
<td>Dr. Ajit Sahai</td>
<td>Professor of Medical Biometrics &amp; Informatics, JIPMER, Puducherry</td>
<td>Member</td>
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<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>Sl. No.</td>
<td>Name of Member</td>
<td>Designation</td>
<td>Position in Ethics Committee</td>
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<tr>
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<tr>
<td>1</td>
<td>Shri. A. Nadamuni</td>
<td>District Judge (Retd), Puducherry</td>
<td>Chairman</td>
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<tr>
<td>2</td>
<td>Dr. Ashok Kumar Das</td>
<td>Medical Superintendent, JIPMER</td>
<td>Member</td>
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<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, and Member Secretary, JIPMER Scientific Advisory Committee, JIPMER</td>
<td>Member</td>
</tr>
<tr>
<td>5</td>
<td>Dr. Vasantha Muthuswamy</td>
<td>Sr. Deputy Director General, ICMR (Retd), Chennai</td>
<td>Member</td>
</tr>
<tr>
<td>6</td>
<td>Dr. R. Ravi</td>
<td>Sr. Deputy Director, Vector Control research Centre (Retd), Puducherry</td>
<td>Member (External Scientific Expert)</td>
</tr>
<tr>
<td>7</td>
<td>Dr. Nandini K. Kumar</td>
<td>Former Deputy Director General Sr. Grade, National Institute of Epidemiology, Chennai</td>
<td>Member</td>
</tr>
<tr>
<td>8</td>
<td>Dr. S.L. Hoti</td>
<td>Scientist F, Vector Control research Centre, Puducherry</td>
<td>Member (External Scientific Expert)</td>
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<tr>
<td>9</td>
<td>Dr. M.G. Sridhar</td>
<td>Professor of Biochemistry, JIPMER</td>
<td>Member</td>
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<tr>
<td>10</td>
<td>Dr. Zile Singh</td>
<td>Prof. &amp; Head of Preventive and Social Medicine, Pondicherry Institute of Medical Sciences, Pondicherry</td>
<td>Member (Social Worker)</td>
</tr>
<tr>
<td>11</td>
<td>Dr. K. Chandrasekaran</td>
<td>Associate Professor Dr. Ambedkar Govt. Law College, Puducherry</td>
<td>Member (External Legal Expert)</td>
</tr>
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<td>12</td>
<td>Ms. Usha, M.L.</td>
<td>Advocate, Puducherry</td>
<td>Member (External Legal Expert)</td>
</tr>
<tr>
<td>13</td>
<td>Dr. C. Adithan</td>
<td>Professor &amp; Head, Dept. of Pharmacology, JIPMER</td>
<td>Member Secretary</td>
</tr>
<tr>
<td>Sl. No.</td>
<td>Name &amp; Designation of Member</td>
<td>Position in Ethics Commitee</td>
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<td></td>
</tr>
<tr>
<td>1</td>
<td>Dr. K.S. Reddy&lt;br&gt;Dean, JIPMER</td>
<td>Chairman</td>
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</tr>
<tr>
<td>2</td>
<td>Dean, Mother Theresa Institute, Puducherry</td>
<td>Member</td>
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<td>3</td>
<td>Dr. M. Naseema&lt;br&gt;Chennai</td>
<td>Member (CPCSEA Nominee)</td>
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<td>4</td>
<td>Dr. S. Jayachandiran&lt;br&gt;Prof. &amp; Head of Biotechnology, Pondicherry University, Puducherry</td>
<td>Member</td>
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<tr>
<td>5</td>
<td>Dr. Mathur&lt;br&gt;Head of the Department of Life Sciences&lt;br&gt;Pondicherry University, Puducherry</td>
<td>Member</td>
<td></td>
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<tr>
<td>6</td>
<td>Dr. H.L. Hoti&lt;br&gt;Deputy Director&lt;br&gt;VCRC, Puducherry-6</td>
<td>Member</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Dr. D. Kumar&lt;br&gt;Sr. Prof. of Parasitology, Rajiv Gandhi Vet. College &amp; Animal Sciences, Puducherry</td>
<td>Member</td>
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<td>8</td>
<td>Dr. Lydia Rajakumari&lt;br&gt;Prof. and Head of the Department of Microbiology, Indira Gandhi College of Arts and Science, Puducherry</td>
<td>Member</td>
<td></td>
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<tr>
<td>9</td>
<td>Dr. S.C. Parija&lt;br&gt;HOD of Microbiology, JIPMER</td>
<td>Member Secretary</td>
<td></td>
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</table>
During the period under review (2011-12), the Examination Section 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 1.4.2011 to 31.3.2012.

**MAY / JUNE 2011**

<table>
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<th>Sl. No.</th>
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<th>Number of students</th>
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<tr>
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<td>Second MBBS</td>
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<tr>
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INTRODUCTION

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

FUNCTIONS

JIPMER Scientific Advisory Committee considers all research project proposals undertaken by JIPMER faculty including the faculty of the College of Nursing, residents, PhD 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>
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<tbody>
<tr>
<td>1</td>
<td>Dr. K.S.V.K. Subba Rao (till 04.12.2011) Dr. T.S. Ravikumar (from 05.12.2011)</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>
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</table>
Dr. K.S. Reddy  
The Dean, JIPMER, Puducherry  
Member

Dr. V.R. Muraleedharan  
Prof & Head, Department of  
Humanities and Social Sciences,  
IIT, Chennai  
Member

Dr. Jayaprakash Muliyil  
Professor & Head, Department of  
Community Medicine, CMC,  
Vellore  
Member

Dr. S. Jayachandran  
Professor, Department of  
Biotechnology  
Pondicherry University,  
Puducherry  
Member

Dr. S.L. Hoti,  
Scientist 'F' & Head,  
Microbiology & Immunology  
Dvn, VCRC, Puducherry  
Member

Dr. Gautam Roy  
Ag.Head of Department of  
Community Medicine,  
Puducherry  
Member

Dr. Ajit Sahai  
Professor of Medical Biometrics &  
Informatics, JIPMER, Puducherry  
Member

Dr. C. Adithan  
Member Secretary,  
Human Ethics Committee,  
JIPMER, Puducherry  
Member

Dr. S.C. Parija  
Member Secretary,  
Animal Ethics Committee,  
JIPMER, Puducherry  
Member

Dr. Santosh Kumar  
Head of Department of Medical  
Education, JIPMER, Puducherry  
Member Secretary

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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 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>
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<th>Designation</th>
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<tbody>
<tr>
<td>1</td>
<td>Shri. A. Nadamuni</td>
<td>District Judge (Retd), Puducherry</td>
<td>Chairman</td>
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<tr>
<td>2</td>
<td>Dr. Ashok Kumar Das</td>
<td>Medical Superintendent, JIPMER</td>
<td>Member</td>
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<td>Dr. K S Reddy</td>
<td>Dean, JIPMER</td>
<td>Member</td>
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<tr>
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<td>Dr. Santosh Kumar</td>
<td>Prof. &amp; HOD of Urology, JIPMER</td>
<td>Member</td>
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<tr>
<td>5</td>
<td>Dr. S C Parija</td>
<td>Prof.&amp; HOD of Microbiology, JIPMER</td>
<td>Member</td>
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<tr>
<td>6</td>
<td>Dr. S Jayachandran</td>
<td>Dean, School of Life Sciences, Pondicherry University, Puducherry</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>
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This committee was functioning till 11.10.2011, after which the committee was reconstituted. As per ICMR guidelines 2006, the Institute Ethics Committee was reconstituted on 11.10.2011 and the members of the reconstituted ethics committee are:

<table>
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<tr>
<td>8</td>
<td>Dr. R Ravi</td>
<td>Ex. Dy.Dir.(SG), VCRC, Puducherry</td>
<td>Member (External Scientific Expert)</td>
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<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>
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<tr>
<td>10</td>
<td>Dr. Vijayalakshmi</td>
<td>Lecturer, Dr. Ambedkar Govt. Law College, Puducherry</td>
<td>Member (External Legal Expert)</td>
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<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, JIPMER</td>
<td>Member Secretary</td>
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</table>

S.No. | Name of Member | Designation | Position in Ethics Committee |
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<td>2</td>
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<td>Medical Superintendent, IPMER</td>
<td>Member</td>
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<td>3</td>
<td>Dr. K S Reddy</td>
<td>Dean, JIPMER</td>
<td>Member</td>
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<td>4</td>
<td>Dr. Santosh Kumar</td>
<td>Prof. &amp; HOD of Urology, JIPMER</td>
<td>Member</td>
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<tr>
<td>5</td>
<td>Dr. Vasantha Muthuswamy</td>
<td>Sr. Deputy Director General, ICMR (Retd), Chennai</td>
<td>Member</td>
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<tr>
<td>6</td>
<td>Dr. R. Ravi</td>
<td>Sr. Deputy Director, VCRC (Retd), Puducherry</td>
<td>Member (External Scientific Expert)</td>
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<tr>
<td>7</td>
<td>Dr. Nandini K. Kumar</td>
<td>Former Deputy Director General Sr. Grade, Chennai</td>
<td>Member</td>
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<tr>
<td>8</td>
<td>Dr. S.L. Hoti</td>
<td>Scientist F, Vector Control research Centre, Puducherry</td>
<td>Member (External Scientific Expert)</td>
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<tr>
<td>9</td>
<td>Dr. M.G. Sridhar,</td>
<td>Professor of Biochemistry, JIPMER</td>
<td>Member</td>
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<tr>
<td>10</td>
<td>Dr. Zile Singh</td>
<td>Professor &amp; Head, Department of Preventive and Social Medicine, Pondicherry Institute of Medical Sciences, Puducherry</td>
<td>Member</td>
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<tr>
<td>11</td>
<td>Dr. K. Chandrasekaran,</td>
<td>Associate Professor Dr. Ambedkar Govt. Law College, Puducherry</td>
<td>Member (External Legal Expert)</td>
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<td>Ms. Usha, M.L.</td>
<td>Advocate, Puducherry</td>
<td>Member (External Legal Expert)</td>
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<td>13</td>
<td>Dr. C. Adithan,</td>
<td>Professor &amp; Head, Dept. of Pharmacology, JIPMER</td>
<td>Member Secretary</td>
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ACTIVITIES

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

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<td>March 16, 2011</td>
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<td>3</td>
<td>May 25, 2011 &amp; May 28, 2011</td>
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<td>4</td>
<td>September 07, 2011</td>
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|       | **Sub-committee meetings**  |                           |
| 1     | January 13, 2011            | 122                       |
| 2     | May 25, 2011                | 27                        |
| 3     | November 30, 2011           | 122                       |
|       | **Total**                   | **271**                   |
|       | **Grand Total**             | **399**                   |

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 and 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) are 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

The guidelines for compensation of study participants in the event of a research related injury was formulated and made available at www.jipmer.edu

FUTURE PLANS

Institute Ethics Committee (Human Studies) is in the process of preparing a computerised database system for all the proposals submitted since 2011.
### 6.3 Institute Ethics Committee
**Animal Studies**

#### Dean & Chairman
K. S. Reddy

**Professor & Member Secretary**
S. C. Parija

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

<table>
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<tr>
<th></th>
<th>Name</th>
<th>Position</th>
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<td>1</td>
<td>Dr K S. Reddy, Dean, JIPMER</td>
<td>Chairman</td>
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<tr>
<td>2</td>
<td>Dr. Balu, Dean, Mother Theresa Postgraduate and Research Institute of Health sciences Institute, Puducherry</td>
<td>Member</td>
</tr>
<tr>
<td>3</td>
<td>Dr. M. Naseema, No. 5, 10th East street, Kamaraj Nagar, Thiruvanmiyur, Chennai</td>
<td>Member (CPCSEA Nominee)</td>
</tr>
<tr>
<td>4</td>
<td>Dr. S. Jayachandiran, Professor and Head, Department of Biotechnology, Pondicherry University, Puducherry</td>
<td>Member</td>
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<tr>
<td>5</td>
<td>Dr. P. P. Mathur, Head, Department of Life Sciences, Pondicherry University, Puducherry</td>
<td>Member</td>
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<tr>
<td>6</td>
<td>Dr. H. L. Hoti, Deputy Director, VCRC, Puducherry</td>
<td>Member</td>
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<tr>
<td>7</td>
<td>Dr. D. Kumar, Sr. Professor of Parasitology, Rajiv Gandhi Veterinary College &amp; Animal Sciences Puducherry</td>
<td>Member</td>
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<tr>
<td>8</td>
<td>Dr. Lydia Rajakumari, Professor and Head, 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, Professor and Head, Department of Microbiology, JIPMER, Puducherry</td>
<td>Member-Secretary</td>
</tr>
</tbody>
</table>
The following projects were cleared for ethical approval in the academic year 2011-12:

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Names of Investigators, Co-investigators, and students</th>
<th>Titles of the Research Projects</th>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td><strong>Investigator:</strong> Dr. R. Raveendran, Professor, Department of Pharmacology <strong>Co-Investigators:</strong> Dr. R. P. Priyadharsini, Junior Resident, Department of Pharmacology</td>
<td>Evaluation of the antihypertensive activity of cleistanthin A and B in Sprague Dawley rats</td>
</tr>
<tr>
<td>2.</td>
<td><strong>Investigator:</strong> Dr. R. Raveendran, Professor, Department of Pharmacology <strong>Co-Investigators:</strong> Ms. Rupadevi. M, PhD Scholar, Department of Pharmacology</td>
<td>The role of stem cells and platelet derived growth factor on proliferation and differentiation of pericytes in streptozotocin induced diabetic retinopathy</td>
</tr>
<tr>
<td>3.</td>
<td><strong>Investigator:</strong> Dr. Rashmoni Jana, Assistant Professor, Department of Anatomy</td>
<td>Effect of chronic stress on morphology of interstitial cell of cajal, nitrergic and cholinergic neurons in the enteric nervous system of rat colon</td>
</tr>
<tr>
<td>4.</td>
<td><strong>Investigator:</strong> Dr. G. K. Pal, Professor and Head, Department of Physiology <strong>Co-Investigators:</strong> Dr. S. C. Parija, Professor and Head, Department of Microbiology Dr. Pravati Pal, Additional Professor, Department of Physiology Dr. Lalitha. V, PG Student, Department of Physiology</td>
<td>Gender difference in adiposity and immunological parameters in ventromedial hypothalamus (VMH) and posterodorsal amygdala (PDA) lesioned albino wistar rats</td>
</tr>
<tr>
<td>5.</td>
<td><strong>Investigators:</strong> Ashwini. S. PhD Scholar, Department of Biochemistry Dr. Zachariah Bobby, Assistant Professor, Department of Biochemistry</td>
<td>Molecular effects of costus pictus D. Don extract and vitamin B complex on insulin resistance and its complications in isolated and co-existing Type 2 diabetes mellitus and Hypothyroidism</td>
</tr>
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</table>
| 6.    | **Investigator:** Dr. R. Raveendran, Professor, Department of Pharmacology  
**Co-Investigators:** Dr. Thummar Vipulkumar Rameshbhai, Junior Resident, Department of Pharmacology | Evaluation of the in vivo antitumor activity of cleistanthin B in swiss albino mice |
| 7.    | **Investigators:** Mr. K. Sivaraman, II yr MS.c, Department of Biochemistry  
Dr. G. P. Senthil Kumar, Lecturer, Department of Biochemistry  
Dr. Zachariah Bobby, Assistant Professor, Department of Biochemistry | Effect of Garlic crude Extract (Allium sativum) on Free Radical Defense system and Insulin Resistance in Male Wister Rats fed with High Fructose diet (Experiment Metabolic Syndrome) |
| 8.    | **Investigator:** Sithara Thomas, IIrd Year M.Sc, Department of Biochemistry  
Dr. G. P. Senthil Kumar, Lecturer, Department of Biochemistry  
Dr. Zachariah Bobby, Assistant Professor, Department of Biochemistry | Effect of S-methyl-L-Cysteine (SMC) on Oxidative stress and Insulin Resistance, in Male Wistar Rats fed with Fructose rich diet |
| 9.    | **Investigators:** Sankar P., PhD Student, Department of Biochemistry  
Dr. Zachariah Bobby, Assistant Professor, Department of Biochemistry | Molecular basis of Insulin Resistance and its Complications in High fat fed Ovariectomised Wistar rats: The Effects of Treatment |
<table>
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<tbody>
<tr>
<td>10.</td>
<td><strong>Investigators:</strong>&lt;br&gt;Ms R. Sripradha,&lt;br&gt;PhD Student,&lt;br&gt;Department of Biochemistry&lt;br&gt;Dr. M. G. Sridhar,&lt;br&gt;Professor, Department of Biochemistry</td>
<td>Molecular basis of the effects of Garcinia cambogia extracts on Obesity and Insulin sensitivity in diet induced Obese and Insulin resistant animal models</td>
</tr>
<tr>
<td>11.</td>
<td><strong>Investigator:</strong>&lt;br&gt;Dr. B. Vishnu Bhat&lt;br&gt;Prof. &amp; Head,&lt;br&gt;Department of Paediatrics&lt;br&gt;<strong>Co-Investigators:</strong>&lt;br&gt;Dr. S. C. Parija, Prof. &amp; Head,&lt;br&gt;Department of Microbiology,&lt;br&gt;Dr. Bhawana Ashok Badhe,&lt;br&gt;Professor,&lt;br&gt;Department of Pathology&lt;br&gt;D. Benet Bosco Dhas,&lt;br&gt;PhD Scholar,&lt;br&gt;Department of Paediatrics</td>
<td>Effect of Narciclasine on calprotectin induced severe inflammatory responses and outcomes in neonatal sepsis rat models</td>
</tr>
</tbody>
</table>
The members of research monitoring committee for the year 2011 – 12 were as follows

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

2. Dr. Vishnu Bhat
   Professor Member
   Department of Pediatrics

3. Dr S. Mahadevan
   Professor Member
   Department of Pediatrics

4. Dr. Raveendran
   Professor Member
   Department of Pharmacology

5. Dr Vikram Kate
   Professor Member
   Department of Surgery

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

7. Dr Zachariah Bobby
   Assistant Professor Member
   Department of Biochemistry

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 an easy accessible format. The various projects were listed out under the headings of 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 2011 – 2012 following research projects were discussed by JIPMER Scientific Advisory Committee and approved for ethical clearance.
<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Names of Investigators and Co-investigators</th>
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</thead>
</table>
| 1.     | **Investigator:** Dr. Suma H.Y. Asst. Prof. Dept. Of Anatomy  
**Co-Investigators:** Dr. Ramachandra Rao, Prof. & HOD, Dept. of Anatomy  
Dr. B. Vishnu Bhat, Prof. Dept. of Paediatrics | Assessment of the frequency of sister chromatid exchange and its association with clinical features in patients with Down’s syndrome. |
| 2.     | **Investigator:** Dr. Medha R. Asst. Prof. Dept. of Biochemistry  
**Co-Investigators:** Dr. P. H. Ananthanarayanan, Prof. & HOD, Dept. of Biochemistry  
Dr. D. M. Thappa, Prof. & HOD, Dept. of Dermatology  
Dr. V. S. Negi, Prof. & Head, Division of Clinical Immunology  
Dr. Laxmisha Chandrashekar, Asst. Prof. Dept. of Dermatology  
Dr. Harichandrakumar K. T. Lecturer, Dept. of Medical Biometrics | Study of genetic factors involved in the pathogenesis of psoriasis vulgaris. |
| 3.     | **Investigator:** Dr. B. N. Harish, Prof. Dept. of Microbiology  
**Co-Investigator:** Dr. Ashok Badha, Prof. & HOD, Dept. of Anaesthesia | To participate in “A multicenter observational study of candidemia cases among ICU patients in India”. |
| 4.     | **Investigator:** Dr. S. C. Parija, Prof. & HOD, Dept. of Microbiology | Development and evaluation of recombinant antigens for the serodiagnosis of amoebiasis. |
| 5.     | **Investigator:** Dr. Rakesh Singh, Asst. Prof. Dept. of Microbiology  
**Co-Investigators:** Dr. Femitha B. Senior Resident, Dept. of Pediatrics  
Dr. Rojo, Senior Resident, Dept. of Pediatrics  
Dr. S. C. Parija, Prof. & HOD, Dept. of Microbiology | Detection of Candida sp. In devices used in very low birth neonates |
| 6.     | **Investigator:** Dr. Rakesh Singh, Asst. Prof. Dept. of Microbiology  
**Co-Investigator:** Dr. S. C. Parija, Prof. & HOD, Dept. of Microbiology | Detection of Candida dubliniensis in HIV infected individuals. |
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</thead>
</table>
| 7.     | **Investigator:** Dr. Rahul Dhodapkar, Asst. Prof. Dept of Microbiology  
**Co-Investigators:** Dr. S.C.Parija, Prof. & Head, Dept. of Microbiology  
Dr. Lakshmi CP, Asst. Prof., Dept of Medical Gastroenterology | Development and evaluation of in house real time by Loop mediated isothermal amplification assay for Hepatitis B infection |
| 8.     | **Investigator:** Dr. Pampa.Ch.Toi, Asst Prof., Dept. of Pathology  
**Co-Investigators:** Dr. N. Siddaraju, Prof. Dept. Of Pathology  
Dr. Surendra Kumar, Prof. & HOD, Dept. of Pathology  
Dr. D. Kadambari, Prof., Dept. of Surgery | Evaluation of estrogen and progesterone receptors and Her2 expression in the fine needle aspirates of patients with breast carcinoma |
| 9.     | **Investigator:** Dr. R. Raveendran, Prof. Dept. of Pharmacology  
**Co-Investigators:** Dr. Vir Singh Negi, Prof. Dept of Clinical Immunology  
Ms. Rupadevi.M, PhD Scholar, Dept. of Pharmacology | The role of stem cells and platelet derived growth factor on proliferation and differentiation of pericytes in streptozotocin induced diabetic retinopathy. |
| 10.    | **Investigator:** Dr. Steven A. Dkhar, Prof. Dept. of Pharmacology  
**Co-Investigators:** Dr. C. Adithan, Prof. & Head, Dept. of Pharmacology  
Dr. Santosh Satheesh, Asst. Prof., Dept. of Cardiology  
Dr. Vinod K.V, Asst. Prof., Dept. of Medicine | Pharmacogenomics of lipid lowering response of Atorvastatin among dylipidemic Tamilian population. |
| 11.    | **Investigator:** Dr. Raja J Selvaraj, Asst. Prof., Dept. of Cardiology | Wide bipolar electrograms for pace mapping in the atrium |
| 12.    | **Investigator:** Dr. Raja Jaisundar Selvaraj, Asst.Prof., Dept. of Cardiology  
**Co-Investigators:** Dr. Ajith Ananthakrishna Pillai, Asst. Prof., Dept. of Cardiology  
Dr. Gobu P, Asst. Prof., Dept. of Cardiology  
Mr. K.T. Harichandrakumar, Lecturer, Department of Biometrics and Informatics | Frequency of sudden death and its predictors in myocardial infarction survivors in the Indian population. |
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<tbody>
<tr>
<td>13.</td>
<td><strong>Investigators:</strong>&lt;br&gt;Dr. Sadish Kumar @ Kamalanathan, Asst. Prof., Dept of Endocrinology&lt;br&gt;Dr. Nalini.S.Shah, Prof. &amp; Head, Dept. of Endocrinology, SGSMC &amp; KEM Hospital, Mumbai&lt;br&gt;<strong>Co-Investigators:</strong>&lt;br&gt;Dr. Abdoul Hamide, HOD of Endocrinology, Prof. of Medicine&lt;br&gt;Dr. S.Jagdish, HOD &amp; Professor, Dept. of Surgery&lt;br&gt;Dr. Dr. Reena Gulati, Asst. Prof. of Pediatrics&lt;br&gt;Dr. Surender Kumar Verma, Prof. &amp; HOD of Pathology&lt;br&gt;Dr. C Adithan, Prof. &amp; HOD of Pharmacology</td>
<td>Genotype-Phenotype Correlation in Indian Patients with Pheochromocytoma / Paraganglioma (PH/PGL)</td>
</tr>
<tr>
<td>14.</td>
<td><strong>Investigators:</strong>&lt;br&gt;Dr. Sadish SKumar @ Kamalanathan, Asst. Prof., Dept of Endocrinology&lt;br&gt;Dr. Nalini.S.Shah, Prof. &amp; Head, Dept. of Endocrinology, SGSMC &amp; KEM Hospital, Mumbai&lt;br&gt;<strong>Co-Investigators:</strong>&lt;br&gt;Dr. Abdoul Hamide, HOD of Endocrinology, Prof. of Medicine&lt;br&gt;Dr. S.Sreenivasan, HOD &amp; Prof. Dept. of Pediatrics&lt;br&gt;Dr. S. Elangovan, HOD &amp; Prof. Dept. of Radiodiagnosis&lt;br&gt;Dr. A. Ramesh, Asst. Prof. Dept. of Radiodiagnosis&lt;br&gt;Dr. Reena Gulati, Asst. Prof. of Pediatrics&lt;br&gt;Dr. P.H. Anathanarayanan, Prof. &amp; HOD of Biochemistry&lt;br&gt;Dr. C Adithan, Prof. &amp; HOD of Pharmacology</td>
<td>Genotype, Phenotype and Radiological correlation of Growth Hormone Deficiency</td>
</tr>
<tr>
<td>15.</td>
<td><strong>Investigators:</strong>&lt;br&gt;Dr. Sadish Kumar @ Kamalanathan, Asst. Prof., Dept of Endocrinology&lt;br&gt;Dr. Nalini.S.Shah, Prof. &amp; Head, Dept. of Endocrinology, SGSMC &amp; KEM Hospital, Mumbai&lt;br&gt;<strong>Co-Investigators:</strong>&lt;br&gt;Dr. Abdoul Hamide, HOD of Endocrinology, Prof. Dept.of Medicine&lt;br&gt;Dr. T.K.Dutta, Prof.&amp; HOD, Dept. of Medicine&lt;br&gt;Dr. A.K.Das, Med.Superintendent &amp; Sr.Prof. Dept. of Medicine&lt;br&gt;Dr. S. Elangovan, HOD &amp; Prof., Dept. of Radiodiagnosis&lt;br&gt;Dr. Reena Gulati, Asst. Prof., Dept. of Pediatrics&lt;br&gt;Dr. P.H. Anathanarayanan, Prof. &amp; HOD of Biochemistry&lt;br&gt;Dr.C.Adithan, Prof. &amp; HOD of Pharmacology</td>
<td>Genotype, phenotype and radiological correlation of Idiopathic Hypogonadotrophic Hypogonadism</td>
</tr>
<tr>
<td>Sl. No.</td>
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<td>Titles of the Research Projects</td>
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</tbody>
</table>
| 16.    | **Investigator:** Dr.Sivaraman, G. Senior Resident, Dept. of ENT  
**Co-Investigators:** Mr.Anuprasad, Grade I Audiologist, Dept. of ENT  
Dr.Pradipta Kumar Puria, Asst.Prof. Dept. of ENT  
Dr.S.Gopalakrishnan, Prof. & HOD, Dept. of ENT | Vestibular Evoked Myogenic Potentials in patients with Benign Paroxysmal Positional Vertigo in South India |
| 17.    | **Investigator:** Dr.Suryanarayana BS, Asst.Prof. Dept. of Medicine  
**Co-Investigators:** Dr. Chanaveerappa Bammigatti, Asst.Prof. Dept. of Medicine  
Dr. Harish B N, Prof. Dept. of Microbiology  
Dr. Abdoul Hamide, Prof. Dept. of Medicine  
Dr. RP Swaminathan, Prof. Dept. of Medicine | Study of Rickettsial infections among inpatients of JIPMER |
| 18.    | **Investigator:** Dr.Biswaajith Dubashi, Asst.Prof., Dept. of Medical Oncology  
**Co-Investigators:** Dr.S.C. Pradhan, Prof. Dept. of Pharmacology | Population pharmacokinetics and pharmacogenetics of Imatinib Mesylate in chronic myeloid leukemia patients. |
| 19.    | **Investigator:** Dr.Manikandan.K, Asst.Prof. Dept. of Obst. & Gyn.  
**Co-Investigators:** Dr.Dilip Kumar Maurya, Asst. Prof. Dept. of Obst. & Gyn.  
Dr.Veena.P, Asst. Prof. Dept. of Obst. & Gyn.  
Dr.Soundararaghavan, Prfod. Dept. of Obst. & Gyn.  
Dr.Syed Habeebullah, Prof.& HOD, Dept. of Obst. & Gyn. | Fetal growth charts for Indian Population. |
| 20.    | **Investigator:** Dr. Manikandan.K, Asst.Prof. Dept. of Obst. and Gyn.  
**Co-Investigators:** Dr. Suma.H.Y, Asst.Prof. Dept. of Anatomy  
Dr. Veena.P, Asst.Prof. Dept. of Obst. & Gynecology  
Dr. Dilip Kumar Maurya, Asst. Prof., Dept. of Obst. and Gyn.  
Dr. Soundararaghavan, Prof., Dept. of Obst. and Gyn  
Dr. Ramachandra Rao, Prof. & Head, Dept. of Anatomy | Chromosomal abnormalities among fetuses with structural anomalies |
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</tr>
</thead>
</table>
| 21.    | **Investigator:** Dr. Manikandan K, Asst. Prof., Dept. of Obst. and Gyn.  
**Co-Investigators:** Dr. Madanmohan Trakroo, Prof & Head, Dept of Physiology, Programme Director, ACYTER  
Dr.Ananda Balayogi Bhavanani, Programme Coordinator, ACYTER  
Dr.Veena.P. Asst. Prof. Dept. of Obst. & Gyn.  
Dr. Haritha Sagili, Asst. Prof., Dept. of Obst. & Gyn.  
Dr. Kubera NS, Asst. Prof., Dept of Obst. & Gyn.  
Dr. Soundararaghavan, Prof., Dept. of Obst. & Gyn. | Effect of mid trimester yoga on the incidence of preeclampsia in high risk women |
| 22.    | **Investigator:** Dr. Haritha Sagili, Asst.Prof. Dept. of Obst. & Gyn.  
**Co-Investigators:** Dr. Sadish Kumar @ Kamalanathan, Asst. Prof., Dept. of Endocrinology  
K.T. Harichandrakumar, Lecturer, Dept. of Biostatistics  
Dr. Reddi Rani, Prof., Dept. of Obst. & Gyn.  
Dr. Jayalakshmi D, Asst. Prof., Dept. of Obst. & Gyn.  
Dr. Syed Habeebullah, Prof. & Head, Dept of Obst. & Gyn. | Comparison of World Health Organization with American Diabetes Association Criteria for Diagnosis of Gestational diabetes mellitus |
| 23.    | **Investigator:** Dr.K.Ramesh Babu, Asst. Prof. Dept. of Ophthalmology  
**Co-Investigators:** Dr.Renuka Srinivasan, Prof. Dept. of Ophthalmology  
Dr.Shiwaprasad.C, Senior Resident, Dept. of Ophthalmology | “Bevacizumab as an adjunctive treatment to panretinal photocoagulation for management of high risk proliferative diabetic retinopathy” |
| 24.    | **Investigator:** Dr.Reena Gulati. Asst.Prof. Dept. of Pediatrics  
**Co-Investigators:** Dr.S.Srinivasan, Prof.& HOD, Dept. of Pediatrics  
Dr.Vishnu Bhat, Prof. Dept. of Pediatrics  
Dr.J.Balachander, Prof.& HOD, Dept. of Cardiology | Preliminary molecular study of AVSD gene mutations in Down syndrome |
| 25.    | **Investigator:** Dr.Femitha.P. Senior Resident, Dept of Pediatrics  
**Co-Investigators:** Dr.Rojo Joy, Senior Resident, Dept of Pediatrics  
Dr.Adhisivam.B. Asst.Prof. Dept of Pediatrics  
Dr.B.Vishnu Bhat, Prof. Dept of Pediatrics | Caffeine citrate Vs Aminophylline for Apnea of Prematurity |
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</thead>
</table>
| 26.    | **Investigator:** Dr. Rojo Joy, Senior Resident, Dept. of Pediatrics  
         **Co-Investigators:** Dr.B.Vishnu Bhat, Prof. Dept. of Pediatrics  
                       Dr.Femitha.P. Senior Resident, Dept. of Pediatrics  
                       Dr.Adhisivam.B. Asst.Prof. Dept. of Pediatrics  
                       Dr.Sriram Krishnamurthy, Asst.Prof. Dept. of Pediatrics  
                       Dr.Medha.R.Asst.Prof. Dept. of Biochemistry  
                       Dr.P.H.Ananthanarayanan, Prof.& HOD, Dept. of Biochemistry  
         | Early versus late enteral prophylactic iron supplementation in very low birth weight newborn infants : A randomized controlled trial. |
| 27.    | **Investigators:** Dr. B.Vishnu Bhat, Prof. Dept. of Pediatrics  
         Dr. Adhisivam.B. Asst.Prof. Dept. of Pediatrics  
         **Co-Investigators:** Dr. Nitish Chourasia, Intern, JIPMER  
                       Dr. Pushkala.S. Intern, JIPMER  
         | Assessment of Stress levels of parents of infants admitted to the Neonatal Intensive Care at JIPMER |
| 28.    | **Investigator:** Dr. Femitha.P. Senior Resident, Dept. of Pediatrics  
         **Co-Investigators:** Dr.Rakesh Singh, Asst. Prof. Dept. of Microbiology  
                       Dr.Rojo, Senior Resident, Dept. of Pediatrics  
                       Dr.Adhisivam.B. Asst.Prof. Dept. of Pediatrics  
                       Dr.Parija.S.C. Prof. & HOD, Dept. of Microbiology  
                       Dr.B.Vishnu Bhat, Prof. Dept. of Pediatrics  
         | Clinical and microbiological profile of Candidemia in Neonatal ICU |
| 29.    | **Investigators:** Dr.Vishnu Bhat B, Prof., Dept. of Pediatrics  
         Dr. Siddarth Ramji, Maulana Azad Medical College, New Delhi  
         Dr. Anand Pandit, KEM Hospital, Pune  
         Dr. Nicola J Robertson, Institute for Women’s Health, London  
         Dr. Sudhin Thayyil, University College London  
         **Co-Investigators:** Prof. Praveen kumar, PGIMER, Chandigarh  
                       Prof. J Mondkar, Lokmanya Tilak Medical College, Mumbai  
                       Prof. R Nanavati, KEM, Mumbai  
                       Prof. N Thomas, Christian Medical College, Vellore  
                       Prof. K Kumarasami, Madras Medical College,Chennai  
                       Prof. B Guhan, Calicut Medical College, Kozhikode  
                       Dr. Shobha Kumar, Trivandrum Medical College, Kerala,  
                       Dr. Bahubali Gane JIPMER  
<pre><code>     | Indian Neonatal Encephalopathy Neuroprotection Trial (INTENT): A Multicentre Randomized controlled Trial |
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<th><strong>Names of Investigators and Co-investigators</strong></th>
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</thead>
</table>
| 30.    | **Investigator:** Dr. Bahubali. D.Gane, Ph.D scholar Dept of Paediatrics  
**Co-Investigators:** Dr.B.Vishnu Bhat, Prof. Dept. of Pediatrics  
Dr.Adhisivam, Asst.Prof. Dept. of Pediatrics  
Dr.K.T.Harichandrakumar, Lecturer, Dept. of Biometrics & Informatics | Clinical profile and risk factors for necrotising enterocolitis in South Indian population |
| 31.    | **Investigator:** Ms.Manju Mohan.P. Speech Therapist, Dept. of Plastic Surgery  
**Co-Investigators:** Dr.S.Gopalakrishnan, Prof. & HOD, Dept. of ENT  
Dr.Deviprasad Mohapatra, Asst.Prof. Dept. of Plastic Surgery  
Dr.Frijii M T, Asst.Prof. Dept. of Plastic Surgery  
Dr.Dinesh Kumar, Asst.Prof. Dept. of Plastic Surgery | Association of cleft lip and palate with handedness among patients with cleft lip and palate in South Indian population |
| 32.    | **Investigator:** Dr.S.Vinod Kumar, Prof. & HOD, Dept. of Pulmonary Medicine  
**Co-Investigators:** Dr.S.Mathanraj, Junior Resident, Dept. of Pulmonary Medicine  
Dr.Narendra Kumar, Senior Resident, Dept. of Pulmonary Medicine  
Dr.Ankit Jain, Asst. Prof. Dept. of Medical Oncology | Efficacy of weekly paclitaxel in combination with carboplatin versus standard three weekly paclitaxel with carboplatin in management of metastatic non small cell lung cancer. |
| 33.    | **Investigator:** Dr.Manoj Kumar Panigrahi, Asst. Prof. Dept. of Pulmonary Medicine  
**Co-Investigators:** Dr.S.Vinod Kumar, Prof. & HOD, Dept. of Pulmonary Medicine  
Dr.Venugopal.J. Junior Resident, Dept. of Pulmonary Medicine  
Dr.S.Mathanraj, Junior Resident, Dept. of Pulmonary Medicine  
Dr.N.Narendra Kumar, Senior Resident, Dept. of Pulmonary Medicine | Clinico-epidemiological profile of lung cancer in JIPMER, Puducherry |
| 34.    | **Investigator:** Dr.Ranugha. P.S.S, Senior Resident, Dept. of Skin & STD  
**Co-Investigators:** Dr.Priya Bishnoi, Junior Resident, Dept. of Skin & STD  
Dr.Laxmisha Chandrashekhar, Asst.Prof. Dept. of Skin & STD  
Dr.D.M.Thappa, Prof. & HOD, Dept. of Skin & STD | A study of facial involvement among psoriatic patients attending dermatology out-patient department at JIPMER |
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<th>Titles of the Research Projects</th>
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</thead>
</table>
| 35.    | **Investigator:** Dr.M.Saritha, Senior Resident, Dept. of Skin & STD  
|        | **Co-Investigators:** Dr.R.Sivaranjini, Junior Resident, Dept. of Skin & STD  
|        | Dr.Laxmisha Chandrashekar, Asst.Prof. Dept. of Skin & STD  
|        | Dr.D.M.Thappa, Prof. & HOD, Dept. of Skin & STD | Safety and efficacy of methotrexate-cyclosporine combination therapy in patients with moderate to severe psoriasis-A retrospective analysis |
| 36.    | **Investigator:** Dr.Kadambari.D, Prof. Dept. of Surgery  
|        | **Co-Investigators:** Dr.Latha Chaturvedula, Prof. Dept. of Obst. & Gyn.  
|        | Dr.Santosh Kumar, Prof.& HOD, Dept. of Medical Education  
|        | Mr.Z.Zayapragassarazan, Asst.Prof. Dept. of Medical Education | Workplace-based formative assessment as an educational tool. |
| 37.    | **Investigator:** Dr.Nanda Kishore Maroju, Asst.Prof. Dept. of Surgery  
|        | **Co-Investigators:** Dr. Kadambari.D, Prof. Dept. of Surgery | Objective Structured Clinical Examination (OSCE) as an evaluation tool for undergraduate surgical clerkship |
| 38.    | **Investigator:** Dr.Muthukumarassamy.R, Asst.Prof. Dept. of Surgery  
|        | **Co-Investigators:** Dr.Vikram Kate, Prof. Dept. of Surgery  
|        | Dr. Sunny Hage, Senior Resident, Dept. of Surgery | Suture vs. Stapler closure of the skin in the midline laparotomy incision – a randomized trial |
| 39.    | **Investigator:** Dr.Rahul Gupta, Senior Resident, Dept. of Urology  
|        | **Co-Investigators:** Dr. Dorairajan L.N., Prof. Dept. of Urology  
|        | Dr. Santosh Kumar, Prof. & HOD, Dept. of Urology  
|        | Dr. R Manikandan, Asst. Prof., Dept. of Urology  
|        | Dr. Muruganandam K, Asst. Prof., Dept.of Urology | Erectile dysfunction (ED) after transurethral resection of the prostate in patients of BPH. |
| 40     | **Investigator:** Dr. Shailendra Pratap Singh, Senior Resident, Dept. of Urology  
|        | **Co-Investigators:** Dr. Santosh Kumar, Prof. and Head, Dept. of Urology  
|        | Dr. L.N. Dorairajan, Prof. Dept. of Urology  
|        | Dr. Ravi Philip Rajkumar, Asst. Prof., Dept of Psychiatry  
|        | Dr. R Manikandan, Asst. Prof., Dept. of Urology  
<p>|        | Dr. K. Murganandham, Asst. Prof., Dept. of Urology | Quality of life and psychological well-being in men with lower urinary tract symptoms (LUTS) |</p>
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</table>
| 41.    | **Investigator:** Dr. Yashdeep Rustagi, Senior Resident, Dept. of Urology  
        **Co-Investigators:** Dr. Manikandan R., Asst. Prof., Dept. of Urology  
        Dr. Santosh Kumar, Prof. & HOD, Dept. of Urology  
        Dr. Dorairajan L.N., Prof. Dept. of Urology  
        Dr. Muruganandam K., Asst. Prof., Dept. of Urology | Assessment of erectile dysfunction, Ejaculatory profile and quality of life in patients after urethral reconstruction. |
| 42.    | **Investigator:** Dr. L.N. Dorairajan, Prof. of Urology  
        **Co-Investigators:** Dr. Santosh Kumar, Prof. & Head of Urology  
        Dr. Muruganandham K, Asst. Prof. of Urology  
        Dr. R. Manikandan, Asst. Prof. of Urology | Role of ultrasonography of urethra in predicting the outcome of visual internal urethrotomy performed for the treatment of urethral stricture disease. |
| 43.    | **Investigator:** Dr. Avijit Kumar, Senior Resident, Dept. of Urology  
        **Co-Investigators:** Dr. Santosh Kumar, Prof. & HOD, Dept. of Urology  
        Dr. L.N. Dorairajan, Prof., Dept. Of Urology  
        Dr. R. Manikandan, Asst. Prof., Dept. Of Urology  
        Dr. K. Muruganandham, Asst. Prof., Dept. of Urology | Pattern of urological emergencies in a tertiary care hospital in south India |
| 44.    | **Investigator:** Mr. A. Lakshmanan, Medical Record Technician, M.R.D. | JIPMER Hospital statistics at a glance 2007-2009. |
| 45.    | **Investigator:** Dr. Zachariah Bobby, Asst. Prof., Dept. of Biochemistry  
        **Co-Investigator:** Ashwini S, Research Scholar, Dept. of Biochemistry | Molecular effects of *Costus pictus* extract and vitamin B complex on insulin resistance and its complications in isolated and co-existing type 2 diabetes and hypothyroidism. |
| 46.    | **Investigator:** Dr. Zachariah Bobby, Asst. Prof., Dept. of Biochemistry  
        **Co-Investigators:** Dr. Syed Habeebullah, Prof. & Head, Dept. of Obstetric & Gynecology  
        Dr. Adithan, C, Prof. & Head, Dept. of Pharmacology  
        Vickneshwaran. V, PhD Scholar, Dept. of Biochemistry | Molecular Basis and gene polymorphism of Hypertensive disorders of pregnancy among South Indian population. |
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</table>
| 47     | **Investigator:** Dr. Soundravally R, Asst. Prof., Dept. of Biochemistry  
**Co-Investigators:** Cleetus CC, Research Scholar, Dept. of Biochemistry  
Dr. Sarasu Jayakumaran, Asst. Prof., Dept. of Anatomy  
Dr. S. Sujatha, Prof., Dept. of Microbiology  
Dr. Kadhiravan T, Asst. Prof., Dept. of Medicine  
Dr. Narayanan P, Asst. Prof., Dept. of Paediatrics | Assessment of DNA damage and total oxidant antioxidant status in dengue/DHF patients for prognosis. |
| 48     | **Investigator:** Dr. Nandeesha H, Asst. Prof., Dept. of Biochemistry  
**Co-Investigators:** Dr. Sridhar MG, Prof., Dept. of Biochemistry  
Dr. M. Sathish Babu, Senior Resident, Dept. of Biochemistry | Thyroid profile in rheumatoid arthritis and systemic lupus erythematosus: A Retrospective study. |
| 49     | **Investigator:** Dr. Arul Vijaya Vani S, Junior Resident, Dept. of Biochemistry  
**Co-Investigators:** Dr. Soundravally R, Asst. Prof., Dept. of Biochemistry  
Dr. P.H. Ananthanarayanan, Prof. & Head, Dept. of Biochemistry | Comparison of National and International guidelines in the diagnosis of gestational dysglycemia. |
| 50     | **Investigator:** Dr. Madanmohan Trakroo, Prof. & Head, Dept. of Physiology  
**Co-Investigators:** Dr. Adithan C, Prof. & Head, Dept. of Pharmacology  
Dr. Pravati Pal, Addl. Prof., Dept. of Physiology  
Dr. Zachariah Bobby, Asst. Prof., Dept. of Biochemistry  
Dr. Senthil Kumar T, Senior Resident, Dept of Physiology  
Mr. Arunkumar AS, PhD Scholar, Dept. of Pharmacology  
Mr. Ramkumar T, PhD Scholar, Dept. of Physiology | Relationship among cardiac autonomic functions, endothelial functions, oxidative stress and eNOS gene polymorphism in prehypertensive subjects. |
| 51     | **Investigator:** Dr. Giriwar Singh Gaur, Additional Professor, Dept. of Physiology  
**Co-Investigators:** Dr. Sunil K Narayan, Prof. & Head, Dept. of Neurology  
Dr. Sarath Babu V, Junior Resident, Dept. of Physiology  
Dr. Senthil Kumar S, Senior Resident, Dept of Physiology | Effect of eye closure and frequency on variability of flash visual evoked potentials in healthy young adults. |
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| 52.    | **Investigator:** Dr. Senthil Kumar S, Senior Resident, Dept of Physiology  
**Co-Investigators:** Dr. Ravi Philip Rajkumar, Asst. Prof., Dept. of Psychiatry  
Dr. Madanmohan Trakroo, Prof. & Head, Dept. of Physiology  
Dr. Arunkumar K, Senior Resident, Dept. of Psychiatry  
Mr. Ramkumar T, PhD Scholar, Dept. of Physiology | Heart rate variability in young adults with non-organic erectile dysfunction. |
| 53.    | **Investigator:** Dr. Senthil Kumar S, Senior Resident, Dept of Physiology  
**Co-Investigators:** Dr. Vivek Kumar Sharma, Asst. Prof., Dept. of Physiology  
Dr. Ravi Philip Rajkumar, Asst. Prof., Dept. of Psychiatry  
Dr. Madanmohan Trakroo, Prof. & Head, Dept. of Physiology | The assessment of Cardiovascular Autonomic Function in Patients with Depression. |
| 54.    | **Investigator:** Dr. Vivek Kumar Sharma, Asst. Prof., Dept. of Physiology  
**Co-Investigators:** Dr. Ravi Philip Rajkumar, Asst. Prof., Dept. of Psychiatry  
Dr. Senthil S, Senior Resident, Dept of Physiology  
Dr. Madanmohan Prof. & Head, Dept. of Physiology  
Dr. Murugesan, Physical Instructor, Dept. of Physical Education | Effect of moderate aerobic exercise on patients of unipolar Major Depression |
| 55.    | **Investigator:** Dr. Vivek Kumar Sharma, Asst. Prof., Dept. of Physiology  
**Co-Investigators:** Dr. Madanmohan Trakroo, Prof. & Head, Dept. of Physiology  
Dr. Senthil S, Senior Resident, Dept. of Physiology  
Mr. Vinayathan A, Principal, Jawahar Navodaya Vidyalaya, Kalapet, Puducherry  
Dr. Velkumary S. Asst. Prof., Dept. of Physiology | Effect of structured physical activity on cognitive, autonomic and anthropometric parameters in adolescents. |
| 56.    | **Investigator:** Dr. Rakesh Singh, Asst. Prof., Dept. of Microbiology  
**Co-Investigators:** Dr. S.C. Parija, Prof. & Head, Dept. of Microbiology  
Dr. Suryanarayana BS, Asst. Prof., Dept. of Medicine | Invasive pulmonary aspergillosis in Medicine ICU patients. |
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| 57.    | **Investigator:** Dr. Harish BN, Prof., Dept. of Microbiology  
**Co-Investigators:** Dr. S.C. Parija, Prof. & Head, Dept. of Microbiology  
Dr. Suryanarayana BS, Asst. Prof., Dept. of Medicine  
Dr. Channaveerappa Bammighatti, Asst. Prof. Dept. of Medicine | Rapid Diagnosis of Rickettsial Infections by RT-PCR by targeting the groEL gene. |
| 58.    | **Investigator:** Dr. Rahul Dhodapkar, Asst. Prof., Dept. of Microbiology  
**Co-Investigators:** Dr. Niranjan Biswal, Prof., Dept. of Paediatrics  
Dr. Sujatha S, Prof., Dept. of Microbiology  
Dr. Sidhartha Giri, Senior Resident, Dept. of Microbiology | Antigen Detection for the diagnosis of acute viral lower respiratory tract infection in children less than 60 months. |
| 59.    | **Investigator:** Dr. Sujatha S, Prof., Dept. of Microbiology  
**Co-Investigators:** Dr. Antony PX, Associate Prof., Dept. of Veterinary Microbiology, RAGACOVAS, Puducherry  
Niveditha N, Ph.D. Scholar, Dept. of Microbiology | Antimicrobial resistance and Molecular Epidemiology of Methicillin Resistant *Staphylococcus aureus* (MRSA) isolates from human and veterinary sources. |
| 60.    | **Investigator:** Dr. Sujatha S, Prof., Dept. of Microbiology  
**Co-Investigators:** Ms. Nandhini P, PhD Scholar, Dept. of Microbiology | Study of viral acute respiratory infections (ARI) and characterization of influenza isolates with special reference to oseltamivir resistance. |
| 61.    | **Investigator:** Dr. Jharna Mandal, Asst. Prof., Dept. of Microbiology  
**Co-Investigators:** Dr. Sonali Sarkar, Asst. Prof., Dept. of P&SM Deputy Director of Public Health, Ex-Officio, Govt. of Puducherry  
Dr. Rakhi Biswas, Asst. Prof., Dept. of Microbiology | Community based surveillance of antimicrobial resistance in the gram negative aerobic enteric bacteria in Pondicherry. |
| 62.    | **Investigator:** Dr. Shewade DG, Prof., Dept. of Pharmacology  
**Co-Investigators:** Dr. Adithan C, Prof. & Head, Dept. of Pharmacology  
Dr. Ravi Philip Rajkumar, Asst. Prof., Dept. of Psychiatry  
Ms. Aarthi M, PhD Scholar, Dept. of Pharmacology | Pharmacogenetics of fluoxetine therapy in South Indian Major Depressive Disorder patients. |
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| 63.    | **Investigator:** Dr. Jayanthi M, Asst. Prof., Dept. of Pharmacology  
**Co-Investigators:** Dr. Shivanand Katimani, Asst. Prof., Dept. of Psychiatry  
Dr. Melvin George, Senior Resident (DM Clinical Pharmacology)  
Dr. Soundaravalli R, Asst. Prof., Dept. of Biochemistry | Effect of alcohol on hepatic drug metabolizing enzyme CYP2C19. |
| 64.    | **Investigator:** Dr. Subitha L, Senior Resident, Dept. of P&SM  
**Co-Investigators:** Dr. Sitanshu Sekhar Kar, Asst. Prof., Dept. of P&SM  
Dr. S. Vijaya Bhaskar Reddy, Specialist in Medicine & Endocrinology, Indira Gandhi Govt. General Hospital & PG Institute, Puducherry | Development of Primary Health Care based diabetes registry in Pondicherry – A feasibility study. |
| 65.    | **Investigator:** Dr. Swaroop Kumar Sahu, Asst. Prof., Dept. of P&SM  
**Co-Investigators:** Dr. Gautam Roy, Prof. Dept. of P&SM  
Dr. Jayalakshmy, Asst. Prof., Dept. of CM, IGMC&RI, Pondicherry  
Dr. Palanivel, Asst. Prof., Dept. of CM, IGMC&RI, Pondicherry  
Dr. Preetam Mahajan, Asst. Prof., Dept. of CM, IGMC&RI, Pondicherry  
Dr. Arun Kokane, Associate Prof., Dept. of CM, IGMC&RI, Pondicherry  
Dr. KC Panigrahi, Prof. & Head, Dept. of CM, IGMC&RI, Pondicherry | Assessing the Effectiveness of Community Leaders in Driving Mass Diabetes Screening Program at Primary Health Centres – A Community Intervention Study. |
| 66.    | **Investigator:** Dr. Satyen Parida, Asst. Prof., Dept. of Anesthesiology & Critical Care  
**Co-Investigators:** Dr. Sandeep Kumar Mishra, Asst. Prof., Dept. of Anesthesiology & Critical Care  
Dr. Sai Chandran BV, Associate Prof., Dept. of Anesthesiology & Critical Care  
Dr. Ashok Shankar Badhe, Prof. & Head, Dept. of Anesthesiology & Critical Care | Endotracheal tube positioning in pediatric cardiac patients: A comparative evaluation of two methods. |
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| 67.    | **Investigator:** Dr. Yuvaraj K, Senior Resident, Dept. of Anesthesiology & Critical Care  
**Co-Investigators:** Dr. Sandeep Kumar Mishra, Asst. Prof., Dept. of Anesthesiology & Critical Care  
Dr. Hemavathy B, Prof., Dept. of Anesthesiology & Critical Care  
Dr. Vasudevan A, Asst Prof., Dept. of Anesthesiology & Critical Care  
Dr. Satyen Parida, Asst. Prof., Dept. of Anesthesiology & Critical Care  
Dr. Anusha Cherian, Asst. Prof., Dept. of Anesthesiology & Critical Care | Low dose spinal anaesthesia for puerperal sterilization in cardiac patient not in failure. A Retrospective study. |
| 68.    | **Investigator:** Dr. Sandeep Kumar Mishra, Asst. Prof., Dept. of Anesthesiology & Critical Care  
**Co-Investigators:** Dr. Vasudevan Arumugam, Asst Prof., Dept. of Anaesthesia & Critical Care  
Dr. Hemavathi Balachander, Prof., Dept. of Anaesthesiology & Critical Care  
Dr. Yuvaraj K, Senior Resident, Dept. of Anaesthesiology & Critical Care  
Dr. Prasanna Udupi Bidkar, Asst. Prof., Dept. of Anaesthesiology & Critical Care | Comparison of the I-gel and Proseal LMA placement during manual in-line stabilization of the neck. |
| 69.    | **Investigator:** Dr. Lenin Babu E, Asst. Prof., Dept. of Anesthesiology & Critical Care  
**Co-Investigators:** Dr. Adinarayanan, Asst. Prof., Dept. of Anaesthesiology & Critical Care  
Dr. Satyaprakash MVS, Asst. Prof., Dept. of Anaesthesiology & Critical Care  
Dr. Suman Lata, Asst. Prof., Dept. of Anaesthesiology & Critical Care  
Dr. Badhe AS, Prof., Dept. of Anaesthesiology & Critical Care | Evaluation of Gasman anaesthesia simulator during induction of anaesthesia |
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| 70.    | **Investigator:** Dr. Lenin Babu E, Asst. Prof., Dept. of Anesthesiology & Critical Care  
**Co-Investigators:** Dr. Chitra Rajeswari Thangaswamy, Asst. Prof., Dept. of Anesthesiology & Critical Care, IGMRI  
Dr. Vimal Raj Pandian, Senior Resident, Dept. of Anesthesiology & Critical Care  
Dr. Badhe AS, Prof., Dept. of Anesthesiology & Critical Care  
K | Evaluating the efficacy of a new negative pressure test to confirm the integrity of inner tube in Bain’s circuit: A prospective comparative study. |
| 71.    | **Investigator:** Dr. Vijayalakshmi S, Senior Resident, Dept. of Anesthesiology & Critical Care  
**Co-Investigators:** Dr. Suman Lata, Asst. Prof., Dept. of Anesthesiology & Critical Care  
Dr. Vasudevan Arumugam, Asst Prof., Dept. of Anesthesiology & Critical Care  
Dr. Basavaraj S Herekar, Senior Resident, Dept. of Anesthesiology & Critical Care  
K | Comparative study to reduce postoperative sore throat with application of triamcinolone acetonide paste / lignocaine jelly to endotracheal tube – a randomized controlled trial. |
| 72.    | **Investigator:** Dr. Stalin Vinayagam, Senior Resident, Dept. of Anesthesiology & Critical Care  
**Co-Investigators:** Dr. Suman Lata, Asst. Prof., Dept. of Anesthesiology & Critical Care  
Dr. Sangeeta Dhanger, Senior Resident, Dept. of Anesthesiology & Critical Care  
Dr. Vijayalakshmi Sivapurapu, Senior Resident, Dept. of Anesthesiology & Critical Care  
Dr. Ashok Shankar Badhe, Prof., Dept. of Anesthesiology & Critical Care  
K | Comparison of colloid preload with colloid coload during spinal anaesthesia for lower abdominal surgeries. |
| 73.    | **Investigator:** Dr. Bidkar Prasanna Udupi, Asst. Prof., Dept. of Anesthesiology & Critical Care  
**Co-Investigators:** Dr. Adinarayanan, Asst. Prof., Dept. of Anesthesiology & Critical Care  
Dr. Satyaprakash MVS, Asst. Prof., Dept. of Anesthesiology & Critical Care  
K | Evaluation of IJV cross sectional area in various surgical positions in Neurosurgical patients under Anaesthesia. |
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| 74.    | **Investigator:** Dr. Raja Selvaraj, Asst. Prof., Dept. of Cardiology  
**Co-Investigator:** Dr. Ravishankar Sadasivam, Senior Resident, Dept. of Cardiology | Comparison of short term hemodynamic and long term clinical outcomes of RV apical pacing and RVOT pacing |
| 75.    | **Investigator:** Dr. Raja Selvaraj, Asst. Prof., Dept. of Cardiology | Indian Heart Rhythm Society (IHRS) Registry of Atrial Fibrillation: Patient Characteristics and Clinical Management Practices. |
| 76.    | **Investigator:** Dr. Raja Selvaraj, Asst. Prof., Dept. of Cardiology  
**Co-Investigator:** Dr. Babu E, Senior Resident, Dept. of Cardiology | Diagnostic Utility of Echocardiography in differentiating Atrioventricular Nodal Reentrant Tachycardia and Atrioventricular Reentrant Tachycardia in Patients with Narrow Complex Tachycardia. |
| 77.    | **Investigator:** Dr. Raja Selvaraj, Asst. Prof., Dept. of Cardiology  
**Co-Investigator:** Dr. Balachander J, Prof. & HOD, Dept. of Cardiology | Indian Trial of Endocardial Substrate Ablation to Prevent Recurrent VT Events (INTERVENE) |
| 78.    | **Investigator:** Dr. Gobu P, Asst. Prof., Dept. of Cardiology  
**Co-Investigators:** Dr. Balachander J, Prof. & HOD, Dept. of Cardiology  
Dr. Sadish Kumar @ Kamalanathan. C, Asst. Prof., Dept. of Endocrinology  
Dr. Pal GK, Prof., Dept. of Physiology | Endothelial function and sympathovagal balance in relation to cardiac abnormalities in Graves’ disease. |
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| 79. | **Investigator:**
Dr. Sai Chandran BV, Associate Prof. Dept. of Cardiothoracic & Vascular Surgery **Co-Investigators:**
Dr. Adithan C, Prof. & HOD, Dept. of Pharmacology Dr. Debdutta Basu, Prof., Dept. of Pathology Dr. SP. Subbiah, Additional Medical Superintendent, Dept. of Transfusion Medicine Dr. MG. Sridhar, Prof., Dept. of Biochemistry Dr. Rakhee Kar, Asst. Prof., Dept. of Pathology Dr. Madhusudhan K, Senior Resident, Dept. of Cardiothoracic & Vascular Surgery Dr. C. Surendiran, Senior Resident, Dept. of Pharmacology | Incidence of Heparin induced thrombocytopenia in patients undergoing cardiovascular surge and the relationship with clot morphology FcgRIla polymorphism and association of thrombosis in heparin-induced throm-bocytopenia with platelet PI32 polymorphism (prevalence in Indian population). |
| 80. | **Investigator:**
Dr. Rashmi Kumari, Asst. Prof., Dept. of Dermatology & STD **Co-Investigators:**
Dr. D. M. Thappa, Prof. & Head, Dept. of Dermatology Dr. Malathi M, Senior Resident, Dept. of Dermatology & STD Dr. Sivarajini R, Junior Resident (III yr), Dept. of Dermatology & STD Dr. Subitha L, Senior Resident, Dept. of PSM | Retrospective study of the safety and efficacy of thalidomide and steroids in type II reactions in leprosy when used alone or in combination. |
| 81. | **Investigator:**
Dr. Rashmi Kumari, Asst. Prof., Dept. of Dermatology & STD **Co-Investigators:**
Dr. Rajesh NG., Asst. Prof., Dept. of Pathology Dr. D. M. Thappa, Prof. & Head, Dept. of Dermatology Dr. SK. Verma, Prof. & Head, Dept. of Pathology | Distribution of Melanocytes in white (greying) hair compared to black hair. |
| 82. | **Investigator:**
Dr. Laxmisha Chandrashekar, Asst. Prof., Dept. of Dermatology **Co-Investigators:**
Dr. D. M. Thappa, Prof. & Head, Dept. of Dermatology Dr. Rahul Dhodapkar, Asst. Prof., Dept. of Microbiology Dr. S.C. Parija, Prof. & Head, Dept. of Microbiology Dr. Medha R, Asst. Prof., Dept. of Biochemistry Dr. P.H. Ananthanarayanan, Prof. & Head, Dept. of Biochemistry Dr. Rajesh NG, Asst. Prof., Dept. of Pathology Dr. Verma SK, Prof. & Head of Pathology | Association of *Herpes simplex* virus, *Cytomegalovirus* and *Staphylococcus aureus* in patients with Pemphigus and their contribution to Glucocorticoid resistance. |
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| 83.    | **Investigator:** Dr. Laxmisha Chandrashekar, Asst. Prof., Dept. of Dermatology  
**Co-Investigators:** Dr. D. M. Thappa, Prof. & Head, Dept. of Dermatology  
Dr. S.C. Farija, Prof. & Head, Dept. of Microbiology  
Dr. Malathi M, Senior Resident, Dept. of Dermatology | A comparative study of Intestinal Parasitic Infections/infestations among immunosuppressed and non immunosuppressed dermatology in-patients of a tertiary care centre in South India. |
| 84.    | **Investigator:** Dr. Sadish Kumar @ Kamalanathan. C, Asst. Prof., Dept. of Endocrinology  
**Co-Investigators:** Dr. Gobu P, Asst. Prof., Dept. of Cardiology  
Dr. Zachariah Bobby, Asst. Prof., Dept. of Biochemistry  
Dr. Abdoul Hamide, Prof., of Medicine & HOD of Endocrinology  
Dr. Balachander J, Prof. & HOD, Dept. of Cardiology | Effect of Thyroxin on endothelial function and cardiac manifestations in women with subclinical hypothyroidism. |
| 85.    | **Investigator:** Dr. Ankit Jain, Asst. Prof., Dept. of Medical Oncology  
**Co-Investigators:** Dr. Biswajit D, Asst. Prof., Dept. of Medical Oncology  
Dr. Kadambari D, Prof., Dept. of Surgery  
Dr. Reddy KS, Director, Regional Cancer Center | A descriptive analysis of toxicity profile with neoadjuvant and adjuvant FEC100-D75 regimen in breast cancer patients – Experience from a tertiary care teaching hospital of Southern India. |
| 86.    | **Investigator:** Dr. Lakshmi CP, Asst. Prof., Dept. of Medical Gastroenterology  
**Co-Investigators:** Dr. Medha R, Asst. Prof., Dept. of Biochemistry  
Dr. Amit Goel, Asst. Prof., Dept. of Medical Gastroenterology  
Dr. Ranjit Hari V, Asst. Prof., Dept. of Surgical Gastroenterology  
Dr. Biju Pottakkat, Asst. Prof., Dept. of Surgical Gastroenterology  
Dr. Subrahmanyam DKS, Prof. & HOD, Dept. of Medical Gastroenterology  
Dr. P.H. Ananthanarayanan, Prof. & Head, Dept. of Biochemistry | Cytokine profile in pancreatic ductal fluid in Indian patients with chronic pancreatitis. |
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| 87.    | **Investigator:** Dr. Mukta Wyawahare, Asst. Prof., Dept of Medicine  
**Co-Investigators:** Dr. A.K. Das, Medical Superintendent & Senior Prof., Dept. of Medicine  
Dr. Adithan C, Prof. & Head, Dept. of Pharmacology  
Dr. Soundaravalli R, Asst. Prof., Dept. of Biochemistry | Distribution of ACE gene polymorphism and its association with the severity of nephropathy in Type-2 diabetic patients attending in a Tertiary Care Centre in Sout India |
| 88.    | **Investigator:** Dr. Sunil K Narayan, Prof. & HOD, Dept. of Neurology  
**Co-Investigators:** Dr. Praveenkumar Sharma, Asst. Prof., Dept of Neurology  
Dr. Sushma Sharma, Senior Resident, Dept. of Neurology | Transcranial Doppler flow velocity measurements in cerebral vasculature: Reference values at rest and during hyperventilation in healthy volunteers correlated to age and gender. |
| 89.    | **Investigator:** Dr. Sunil K Narayan, Prof. & HOD, Dept. of Neurology  
**Co-Investigators:** Dr. Ajit Kumar MD, Senior Resident, Dept. of Neurology  
Dr. V.S. Negi, Prof., & Head, Dept. of Immunology  
Dr. Sadish Kumar @ Kamalanathan. C, Asst. Prof., Dept. of Endocrinology | Determinants of Natural history in acquired central demyelinating diseases: A comparative study between multiple sclerosis, Neuromyelitis optica, relapsing ADEM and central nervous system Lupus. |
| 90.    | **Investigator:** Dr. Sunil K Narayan, Prof. & HOD, Dept. of Neurology  
**Co-Investigators:** Dr. Aditya Murgai MD, Senior Resident, Dept. of Neurology | Correlation of baseline ALSFRSr scores and CSF oxidative stress markers to survival in a South Indian cohort of motor neuron disease patients. |
| 91.    | **Investigator:** Dr. Pradeep P Nair, Asst. Prof., Dept. of Neurology  
**Co-Investigators:** Dr. Vaibhav Wadwekar, Asst. Prof., Dept. of Neurology  
Dr. Aditya Murgai, DM Resident, Dept. of Neurology | A comparison of efficacy of local corticosteroid injection into carpal tunnel via proximal and distal approaches in patients with carpal tunnel syndrome: Randomized double blind non inferiority trial. |
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| 92.    | **Investigator:** Dr. Sreejithesh PR, Asst. Prof., Dept. of Neurology  
**Co-Investigators:** Dr. Vinod Kumar S, Prof. & HOD, Dept. of Pulmonary Medicine  
Dr. S.K. Narayan, Prof. & HOD, Dept. of Neurology  
Dr. Praveen Sharma, Asst. Prof., Dept. of Neurology  
Dr. Ajit Kumar, DM Trainee & Senior Resident, Dept. of Neurology | Magnitude and Evolution of Sleep Disordered Breathing in Ischemic Stroke Survivors. |
| 93.    | **Investigator:** Dr. Vaibhav Wadwekar, Asst. Prof., Dept., of Neurology  
**Co-Investigators:** Dr. Amit Goel, Asst. Prof., Dept., of Gastroenterology  
Dr. Pradeep P Nair, Asst. Prof., Dept. of Neurology  
Dr. Laxmi, Asst. Prof., Dept. of Gastroenterology | Prevalence of restless Legs Syndrome in Patients of Chronic Liver Disease. |
| 94.    | **Investigator:** Dr. Gopalakrishnan MS, Asst. Prof., Dept. of Neurosurgery  
**Co-Investigators:** Dr. Venkatesh MS, Asst. Prof., Dept. of Neurosurgery  
Dr. Shankar Ganesh, Asst. Prof., Dept. of Neurosurgery  
Dr. Roopeshkumar VR, Associate Prof. & HOD, Dept. of Neurosurgery  
Dr. Ramesh, Asst. Prof., Dept. of Radiodiagnosis  
Dr. Elangovan S, Prof. & HOD, Dept. of Radiodiagnosis | Randomised controlled trial of the efficacy of tranexamic acid for prevention of progression of conservatively managed brain contusions. |
| 95.    | **Investigator:** Dr. Gopalakrishnan MS, Asst. Prof., Dept. of Neurosurgery  
**Co-Investigators:** Dr. Venkatesh MS, Asst. Prof., Dept. of Neurosurgery  
Dr. Shankar Ganesh, Asst. Prof., Dept. of Neurosurgery  
Dr. Roopeshkumar VR, Associate Prof. & HOD, Dept. of Neurosurgery | Randomised controlled trial of the efficacy of ampicillin versus placebo for prevention of meningitis in traumatic pneumocephalus. |
| 96.    | **Investigator:** Dr. Venkatesh S Madhugiri, Asst. Prof., Dept. of Neurosurgery  
**Co-Investigators:** Dr. Vaibhav Wadwekar, Asst. Prof., Dept. of Neurology  
Dr. Sudheer Kumar G, Senior Resident, Dept. of Neurosurgery | Effect of surgical detethering of the cord on CSF pyruvate:lactate ratio and somatosensory evoked potential (SSEP) parameters in patients with spinal cord tethering. |
<table>
<thead>
<tr>
<th>Sl. No.</th>
<th><strong>Names of Investigators and Co-investigators</strong></th>
<th><strong>Titles of the Research Projects</strong></th>
</tr>
</thead>
</table>
| 97.    | **Investigator:** Dr. Haritha Sagili, Asst. Prof., Dept. of Obstetrics & Gynaecology  
**Co-Investigator:** Dr. Dasari Papa, Prof., Dept. of Obst. & Gyn. | Attitude of undergraduate medical students towards powerpoint overhead projector and chalkboard teaching. Does it matter? |
| 98.    | **Investigator:** Dr. Haritha Sagili, Asst. Prof., Dept. of Obstetrics & Gynaecology  
**Co-Investigators:** Dr. Dasari Papa, Prof., Dept. of Obst. & Gyn. | Knowledge of HIV/AIDS and attitude towards voluntary counseling and testing among antenatal clinic attendees in JIPMER, Puducherry, India. |
| 99.    | **Investigator:** Dr. Anish Keepanasseril, Asst. Prof., Dept. of Obst. & Gyn.  
**Co-Investigators:** Dr. Soundararaghavan S, Prof., Dept. of Obst. & Gyn.  
Dr. Syed Habeebullah, Prof., & Head, Dept. of Obst. & Gyn.  
Dr. Dilip Kumar Maurya, Asst. Prof., Dept. of Obst. & Gyn.  
Dr. Manikandan K, Asst. Prof., Dept. of Obst.&Gyn. | Randomized controlled trial comparing three different regimes of Magnesium Sulphate in severe Preeclampsia: A Pilot Study. |
| 100.   | **Investigator:** Dr. Jayalakshmi, Asst. Prof., Dept. of Obst. & Gyn.  
**Co-Investigators:** Dr. Reddi Rani, Prof., Dept. of Obst. & Gyn.  
Dr. Sasirekha, Asst. Prof., Dept. of Obst. & Gyn.  
Dr. Haritha Sagili, Asst. prof., Dept. of Obst. & Gyn. | Efficacy of combination of different dose regimens of Letrozole and Misoprostol with combination of Mifepristone and Misoprostol in first trimester termination of pregnancy – A Double Blinded Randomised Clinical trial. |
| 101.   | **Investigator:** Dr. Deep Sharma, Asst. Prof., Dept. of Orthopaedics  
**Co-Investigator:** Dr. Soundravally R, Asst. Prof., Dept. of Biochemistry | Study on the diagnostic utility of systemic and local levels of ADA, IFN-r, TNF-α & IL-6 in skeletal tuberculosis. |
| 102    | **Investigator:** Dr. Jagdish Menon, Additional Prof., Dept. of Orthopaedics  
**Co-Investigators:** Dr. Prashanth K, Asst. Prof., Dept. of Biotechnology, School of Life Sciences, Kalapet, Pondicherry. | Investigations on Human-bacteria Interactions in Orthopaedic implant infections with special reference to persistent infections caused by biofilm bacterial phenotype. |
<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Names of Investigators and Co-investigators</th>
<th>Titles of the Research Projects</th>
</tr>
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</table>
| 103.   | **Investigators:** Dr. Vishnu Bhat B, Prof., Dept. of Paediatrics Dr. Ravi Kumar BV, MBBS, PhD Managing Director, XCyton Diagnostics, Bangalore  
**Co-Investigators:** Dr. Prasad Kumar P, Fellow in Neonatology Dr. Harish BN, Prof., Dept. of Microbiology | Evaluation of efficacy of a new molecular-based diagnostic system (Syndrome Evaluation System or SES) in comparison to routine blood culture in neonatal sepsis – A randomized controlled study. |
| 104.   | **Investigator:** Dr. Vishnu Bhat B, Prof., Dept. of Paediatrics  
**Co-Investigators:** Dr. SC. Parija, Prof. & Head, Dept. of Microbiology Dr. Bhawana Ashok Badhe, Prof., Dept. of Pathology Benet Bosco Dhas D, PhD Scholar, Dept. of Paediatrics | Effect of Narciclasine on calprotectin induced severe inflammatory responses and outcomes in neonatal sepsis rat models. |
| 105.   | **Investigator:** Dr. Vishnu Bhat B, Prof., Dept. of Paediatrics  
**Co-Investigators:** Dr. SC. Parija, Prof. & Head, Dept. of Microbiology Benet Bosco Dhas D, PhD Scholar, Dept. of Paediatrics | Effects of zinc supplementation on serum calprotectin level and acute inflammatory response in neonatal sepsis – a double blind randomized controlled trial. |
| 106.   | **Investigator:** Dr. Barath J, Asst. Prof., Dept. of Pediatrics  
**Co-Investigator:** Dr. Rahul Dhodapkar, Asst. Prof., Dept of Microbiology | Hospital based seroprevalence to hepatitis E virus among children from Pondicherry |
| 107.   | **Investigator:** Dr. Narayanan P, Asst. Prof., Dept of Paediatrics  
**Co-Investigator:** Dr. Soundravally R., Asst. Prof., Dept of Biochemistry | Procalcitonin guided antibiotic therapy in Pediatric intensive care patients – A randomized controlled trial. |
| 108.   | **Investigator:** Dr. Niranjan Biswal, Prof. Dept. of Pediatrics  
**Co-Investigators:** Dr. Sriram K, Asst. Prof., Dept. of Pediatrics Dr. Narayanan P, Asst. Prof., Dept of Pediatrics Dr. Barath J, Asst. Prof., Dept of Pediatrics Dr. S.C. Parija, Prof. & Head, Dept of Microbiology Dr. Harish BN, Prof. Dept., of Microbiology | Evaluation of Fever of >=5days duration in children. |
<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Names of Investigators and Co-investigators</th>
<th>Titles of the Research Projects</th>
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</table>
| 109.   | **Investigator:** Dr. Prasad Kumar P, Fellow in Neonatology  
         **Co-Investigator:** Dr. Vishnu Bhat B, Prof., Dept. of Paediatrics  
         Dr. Adhisivam, Asst. Prof., Dept. of Paediatrics  
         Dr. Femitha, Fellow in Neonatology  
         Dr. Rojo Joy, Fellow in Neonatology | Effectiveness of clofibrate in reducing neonatal hyperbilirubinemia – A randomized controlled trial. |
| 110.   | **Investigator:** Dr. Bibekanand Jindal, Asst. Prof., Dept. of Pediatric Surgery  
         **Co-Investigators:** Dr. Adithan C, Prof. & HOD, Dept. of Pharmacology  
         Dr. Bikash Kr Naredi, Asst. Prof., Dept. of Pediatric Surgery  
         Dr. Kumarvel S, Asst. Prof., Dept. of Pediatric Surgery  
         Dr. Krishnakumar, Asst. Prof. Dept. of Pediatric Surgery | Efficacy of Oxybutynin in patients with bladder dysfunction (overactive bladder) following oral and rectal suppositories based on objective and subjective parameter: A pilot study. |
| 111.   | **Investigator:** Dr. Friji MT, Asst. Prof., Dept. of Plastic Surgery  
         **Co-Investigators:** Dr. Gopalakrishnan S, Prof. & Head, Dept. of ENT  
         Dr. Surendra Kumar Verma, Prof. & Head, Dept. of Pathology  
         Dr. Dr. Pradipta Kumar Parida, Asst. Prof., Dept. of ENT  
         Dr. Deviprasad Mohapatra, Asst. Prof., Dept. of Plastic Surgery | Effect of Adipose-Derived Stem Cells on Tissue Regeneration in patients with Atrophic Rhinitis – A double blind randomized control trial. |
| 112.   | **Investigator:** Ms. Manju Mohan P, Speech Therapist, Dept. of Plastic Surgery  
         **Co-Investigators:** Dr. Gopalakrishnan S, Prof. & Ag. Head, Dept. of Plastic Surgery  
         Dr. Friji MT, Asst. Prof., Dept. of Plastic Surgery  
         Dr. Deviprasad Mohapatra, Asst. Prof., Dept. of Plastic Surgery  
         Dr. Dinesh Kumar S, Asst. Prof., Dept. of Plastic Surgery | Speech Handicap Index in patients with Orofacial and Neck contractures. |
<p>| 113.   | <strong>Investigator:</strong> Dr. Dinesh Kumar S, Asst. Prof., Dept. of Plastic Surgery | Acceptability of Hand Transplantation in Patients with Acquired Loss or Deformity of Hands |</p>
<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Names of Investigators and Co-investigators</th>
<th>Titles of the Research Projects</th>
</tr>
</thead>
<tbody>
<tr>
<td>114.</td>
<td><strong>Investigator:</strong> Dr. Ravi Philip Rajkumar, Asst. Prof., Dept. of Psychiatry</td>
<td>The Impact of Undergraduate Psychiatry Training on attitudes towards Mental Illness.</td>
</tr>
</tbody>
</table>
| 115.   | **Investigator:** Dr. Balaji Bharadwaj, Senior Resident, Dept. of Psychiatry  
**Co-Investigators:** Dr. Jayant Mahadevan, Junior Resident, Dept. of Psychiatry  
Dr. Ravi Philip Rajkumar, Asst. Prof., Dept. of Psychiatry  
Dr. Ajit Sahai, Prof. & Head, Dept. of Medical Biometrics & Informatics | An exploratory study of Neurological soft signs in drug naive patients with acute psychosis, schizophrenia and healthy controls. |
| 116.   | **Investigator:** Dr. Balaji Bharadwaj, Senior Resident, Dept. of Psychiatry  
**Co-Investigators:** Dr. Parthasarathy Ramamourthy, Junior Resident, Dept. of Psychiatry  
Dr. Shivanand Kattimani, Asst. Prof., Dept. of Psychiatry  
Dr. Ajit Sahai, Prof. & Head, Dept. of Medical Biometrics & Informatics | A prospective study of episode length in acute psychosis |
| 117.   | **Investigator:** Dr. Arun Kumar K, Senior Resident, Dept. of Psychiatry  
**Co-Investigators:** Dr. Ravi Philip Rajkumar, Asst. Prof., Dept. of Psychiatry  
Dr. Sugaparaneetharan A, Junior Resident, Dept. of Psychiatry | Assessment of the Time Course of Response to Risperidone in Patients with Psychosis. |
| 118.   | **Investigator:** Dr. Manoj Kumar Panigrahi, Asst. Prof., Dept. of Pulmonary Medicine  
**Co-Investigators:** Dr. Vinod Kumar S, Prof. & Head, Dept. of Pulmonary Medicine  
Dr. Suresh Kumar, Senior Resident, Dept. of Pulmonary Medicine  
Dr. Venugopal J, Junior Resident, Dept. of Pulmonary Medicine | Clinical profile of patients with spontaneous pneumomediastinum. |
<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Investigator:</th>
<th>Co-Investigators:</th>
<th>Titles of the Research Projects</th>
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</table>
| 119.   | Dr. Manoj Kumar Panigrahi, Asst. Prof., Dept. of Pulmonary Medicine  
Dr. Mathanraj S, Junior Resident, Dept. of Pulmonary Medicine  
Dr. Vishnukanth G, Senior Resident, Dept. of Pulmonary Medicine  
Dr. Narendra Kumar N, Senior Resident, Dept. of Pulmonary Medicine  
Dr. Vinod Kumar S, Prof. & Head, Dept. of Pulmonary Medicine | Is adenosine deaminase in pleural fluid a useful marker for identifying malignant pleural effusion?. |
| 120.   | Dr. Gunaseelan. K, Asst. Prof, Dept. of Radiotherapy  
Dr. K.S. Reddy, Prof. & HOD, Dept. of Radiotherapy, Director, RCC  
Mr. N. Vijayaprabhu, Lecturer in Radiology (Medical Physis), Dept. of Radiotherapy  
Mr. K. Saravanan, Lecturer in Radiology (Medical Physics), Dept. of Radiotherapy | Electron Beam irradiation vs External Photon Beam irradiation combined with surface mould Brachytherapy boost for Post-mastectomy chest wall irradiation in Locally Advanced Breast Cancer: Dosimetric and Clinical study. |
| 121.   | Dr. Shyama Prem S, Asst. Prof., Dept. Radiotherapy  
Dr. K.S. Reddy, Director, RCC & HOD, Dept. of Radiotherapy  
Dr. Kadambari D, Prof., Dept. of Surgery  
Dr. Lakshmi CP, Asst. Prof., Dept. of Medical Gastroenterology  
Dr. Amit Goel, Asst. Prof., Dept. of Medical Gastroenterology | Efficacy of Argon plasma coagulation and steroid sucralfate retention enema in reducing bleeding in chronic radiation proctitis – A randomized controlled trial. |
| 122.   | Dr. Sreenath G.S., Asst. Prof., Dept. of Surgery  
Dr. Vivek Kumar Sharma, Asst. Prof., Dept. of Physiology  
Dr. Kadambari D, Prof., Dept. of Surgery  
Dr. Senthil Kumar S, Senior Resident, Dept. of Physiology | Assessment of abdominal muscle tone in patients with inguinal hernia in adults and elderly groups. |
<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Names of Investigators and Co-investigators</th>
<th>Titles of the Research Projects</th>
</tr>
</thead>
</table>
| 123    | **Investigator:** Dr. Biju Pottakkat, Asst. Prof., Dept. of Surgical Gastroenterology  
**Co-Investigators:** Dr. Dhanapathi Halanaik MD, Asst. Prof., Dept. of Nuclear Medicine  
Dr. Amit Goel, Asst. Prof., Dept. of Medical Gastroenterology  
Dr. Ranjith Vijayahari, Asst. Prof., Dept. of Surgical Gastroenterology  
Dr. Lakshmi CP, Asst. Prof., Dept. of Medical Gastroenterology | Sensitivity and specificity of qualitative and quantitative Tc99m sulfur colloid scintigraphy in differentiating cirrhosis from non cirrhotic portal fibrosis |
| 124    | **Investigator:** Dr. Ranjit Hari V, Asst. Prof., Dept. of Surgical Gastroenterology  
**Co-Investigators:** Dr. Sujatha S, Prof., Dept. of Microbiology  
Dr. Biju Pottakkat, Asst. Prof., Dept. of Surgical Gastroenterology  
Dr. Salil Kumar Parida, Senior Resident, Dept. of Medical Gastroenterology  
Dr. Lakshmi CP, Asst. Prof., Dept. of Medical Gastroenterology  
Dr. Vikram Kate, Prof. & Head, Dept. of Surgical Gastroenterology  
Dr. S.C. Parija, Prof. & Head, Dept. of Microbiology | Bacterial profile in pancreatic ductal fluid in patients with chronic calcific pancreatitis undergoing elective pancreaticojejunostomy. |
| 125    | **Investigator:** Dr. Santhosh Satheesh, Asso. Prof., Dept. of Cardiology  
**Co-Investigator:** Dr. Balachander J, Professor and Head, Dept of Cardiology  
Dr. Babu E, Senior Resident, Department of Cardiology | Effect of Adding Nitroglycerine to Lignocaine on Radial Artery Diameter, Palpability of Radial Pulse and Ease of Puncture during local anesthesia for Transradial Coronary Angiography |
<table>
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<tr>
<th>Sl. No.</th>
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<th>Titles of the Research Projects</th>
</tr>
</thead>
</table>
| 126.   | **Investigator:** Dr. Santhosh Satheesh, Assoc. Prof., Dept. of Cardiology  
**Co-Investigator:** Dr. Balachander J, Professor and Head, Dept of Cardiology  
Dr. Babu E, Senior Resident, Department of Cardiology | Effect of Adding Nitroglycerine to Lignocaine on Radial Artery Diameter, Palpability of Radial Pulse and Ease of Puncture during local anesthesia for Transradial Coronary Angiography |
| 127.   | **Investigator:** Dr. Reena Gulati, Asst. Professor, Department of Pediatrics  
**Co-Investigator:** Dr. S. Mahadevan, Professor of Pediatrics  
Dr. Vishnu Bhatt, Professor of Pediatrics  
Dr. Debattama Basu, Professor of Pathology  
Dr. S. Habeebullah, Prof & Head of Obs & Gynecology  
Dr. Pratul Sinha, Asst.Prof. of Transfusion Medicine | Screening for alpha thalassemia gene mutations in Pondicherry – A pilot study. |
INTRODUCTION

JIPMER, acronym for Jawaharlal Institute of Postgraduate 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 Tamil Nadu districts. The growing attendance of the patients in the OPDs clearly indicates how much the general populaces utilize the services of the JIPMER hospital.

ANNUAL PERFORMANCE FOR THE YEAR 2011-2012

1. Total No. of New Cases : 5,30,555
2. Total No. of Old Cases : 11,69,507
3. Total No. of New & Old Cases : 17,00,062
4. Total No. of Admissions : 66,252
5. Total No. of Discharges : 63,873
6. Daily Average No. of Out Patient Attendance : 5,766
7. Daily Average No. of In Patient Attendance : 1,642
8. Daily Average Bed Occupancy Rate : 120%
9. Total No. of Operations : 34,310
10. Total No. of Investigations : 34,10,958
11. No. of Live Births : 13,615
12. No. of Still Births : 692
13. Total No.of Deliveries : 14,307
14. No. of Deaths below 48 Hour : 864
15. No. of Deaths Above 48 Hours : 1,321
16. Total No. of Deaths : 2,185
17. Gross Death Rate : 3.35%
18. Net Death Rate : 2.05%
21. No. of Medical Certificates Issued : 1,659
22. No. of Autopsies : 754
H1N1 EPIDEMIC
About 250 students and residents and 350 staff members were immunized against the H1N1 infection during this period.

NEW FACILITIES
1. New OT procedures in Oncology
2. Availability of New Oncology drugs
3. Medical Gastroenterology with full list of procedures
4. Endoscopic Neurosurgery
5. Neurology new services
6. Paediatrics Surgery new services
7. Surgical Gastroenterology new procedures
8. Renal Transplantation Programme
9. Digitization & Archiving Medical Records
10. Extending the HIS Network
11. Creation of Newer Departments for starting Post-Graduate courses in Specialty/ Super specialty disciplines

Creation of infrastructure for increasing the seats in UG/PG courses
1. Creation of teaching block with state of the art facilities for housing all preclinical Departments
2. Creation of 400 bedded Women and Children Block
3. Strengthening of existing Paraclinical & Clinical Departments with newer equipments (Rs. 80 crores approx)
4. Creation of Hostel Block for Students/Residents for increasing the initial capacity in MBBS from 75 to 150 & in various PG courses from 74 to 124.

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. 27,01,619/- (Rupees Twenty seven lakh one thousand six hundred and nineteen only) has been utilized during the financial year 2011-2012. The beneficiaries were 44 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. 11,750/- (Rupees Eleven thousand seven hundred and fifty only) has been utilized under the scheme during the financial year 2011-2012. The beneficiaries were 8 patients from various departments.
## Annual Performance for the Year 2011-2012

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Indicators</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>01</td>
<td>Admissions</td>
<td>Male : 28,050</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Female : 38,202</td>
</tr>
<tr>
<td>02</td>
<td>Discharges</td>
<td>Male : 26,962</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Female : 36,903</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ambiguous : 08</td>
</tr>
<tr>
<td></td>
<td>Daily Average No. of In Patient Attendance</td>
<td>1,642</td>
</tr>
<tr>
<td></td>
<td>Bed Occupancy Rate</td>
<td>120%</td>
</tr>
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</table>

### Out Patients Statistics

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Services</th>
<th>New Cases</th>
<th>Old Cases</th>
<th>Total</th>
<th>Average</th>
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</thead>
<tbody>
<tr>
<td>01</td>
<td>General Services</td>
<td>2,94,100</td>
<td>5,59,450</td>
<td>8,53,555</td>
<td></td>
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<tr>
<td>02</td>
<td>Special Clinics</td>
<td>2,36,455</td>
<td>6,10,057</td>
<td>8,46,512</td>
<td></td>
</tr>
<tr>
<td>03</td>
<td>Total No. of New Cases</td>
<td>5,30,555</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total No. of Old Cases</td>
<td>11,69,507</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>04</td>
<td>Total No. of Out Patients</td>
<td>17,00,062</td>
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<td></td>
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</tr>
</tbody>
</table>

**Daily Average No. of Out Patient Attendance : 5,766**

### DAILY OUT PATIENTS ATTENDANCE AS PER SERVICE WISE (2011-2012)

<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>
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<tbody>
<tr>
<td>I</td>
<td>General Medicine</td>
<td>96,234</td>
<td>1,08,663</td>
<td>2,04,897</td>
<td>692</td>
</tr>
<tr>
<td></td>
<td>a. General OPD</td>
<td></td>
<td></td>
<td></td>
<td></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>1,302</td>
<td>5,190</td>
<td>6,492</td>
<td>135</td>
</tr>
<tr>
<td></td>
<td>2. Geriatrics Clinic</td>
<td>126</td>
<td>196</td>
<td>322</td>
<td>07</td>
</tr>
<tr>
<td></td>
<td>3. Haematology Clinic</td>
<td>187</td>
<td>978</td>
<td>1,165</td>
<td>24</td>
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<tr>
<td></td>
<td>4. HIV/IEC Clinic</td>
<td>547</td>
<td>2,570</td>
<td>3,117</td>
<td>62</td>
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<tr>
<td></td>
<td>5. Allergic Immunology Clinic</td>
<td>145</td>
<td>472</td>
<td>617</td>
<td>13</td>
</tr>
<tr>
<td></td>
<td>6. Clinical Immunology Clinic</td>
<td>1,800</td>
<td>15,398</td>
<td>17,198</td>
<td>172</td>
</tr>
<tr>
<td></td>
<td>7. Nephrology Clinic</td>
<td>1,200</td>
<td>7,432</td>
<td>8,632</td>
<td>86</td>
</tr>
<tr>
<td>II</td>
<td>General Surgery</td>
<td>40,181</td>
<td>49,943</td>
<td>90,124</td>
<td>304</td>
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<tr>
<td></td>
<td>a. General OPD</td>
<td>4,476</td>
<td>13,834</td>
<td>18,310</td>
<td>62</td>
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<td></td>
<td>b. Pd. Surgery OPD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>c. Speciality Clinics</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1. Tumour Clinic (Male)</td>
<td>874</td>
<td>2,222</td>
<td>3,096</td>
<td>65</td>
</tr>
<tr>
<td></td>
<td>2. Tumour Clinic (Female)</td>
<td>219</td>
<td>592</td>
<td>811</td>
<td>17</td>
</tr>
<tr>
<td>III</td>
<td>Obst &amp; Gynaecology</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>a. General OPD</td>
<td>16,741</td>
<td>35,396</td>
<td>52,137</td>
<td>176</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>1,019</td>
<td>1,710</td>
<td>2,729</td>
<td>56</td>
</tr>
<tr>
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<td>2. Post Natal Clinic</td>
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<td>Old Cases</td>
<td>Total</td>
<td>Average</td>
</tr>
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<td>21,187</td>
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DAILY OUT PATIENTS ATTENDANCE AS PER SERVICE WISE (2011-2012)

SUPER SPECIALITY CLINICS
**GEOGRAPHICAL DISTRIBUTION**

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<tr>
<th>2011-2012</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>
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<td>4,06,082</td>
<td>3,126</td>
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<td>640</td>
<td>998</td>
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<td>53,447</td>
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<td>95</td>
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**LABORATORY INVESTIGATIONS**

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<th>No.</th>
<th>Description</th>
<th>Total no. of investigations</th>
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<tr>
<td>02</td>
<td>Microbiology</td>
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<td>04</td>
<td>Other Departments</td>
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<td>Total no. of investigations</td>
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**DELIVERIES CONDUCTED**

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<th>Still Births</th>
<th>Total no. Of Deliveries</th>
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<td>Female</td>
<td>Amb.</td>
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<tr>
<td>April</td>
<td>610</td>
<td>554</td>
<td>01</td>
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<tr>
<td>May</td>
<td>675</td>
<td>641</td>
<td>01</td>
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<tr>
<td>June</td>
<td>748</td>
<td>715</td>
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</tr>
<tr>
<td>July</td>
<td>662</td>
<td>646</td>
<td>01</td>
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<tr>
<td>August</td>
<td>619</td>
<td>590</td>
<td>00</td>
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<tr>
<td>September</td>
<td>680</td>
<td>539</td>
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<tr>
<td>October</td>
<td>684</td>
<td>579</td>
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<tr>
<td>November</td>
<td>562</td>
<td>581</td>
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<td>December</td>
<td>543</td>
<td>469</td>
<td>00</td>
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<tr>
<td>January</td>
<td>463</td>
<td>412</td>
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<td>February</td>
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<td>March</td>
<td>463</td>
<td>431</td>
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<td>6,499</td>
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### TOTAL NO. OF DEATHS FOR THE YEAR

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<th>- 48 Hrs.</th>
<th>+ 48 Hrs.</th>
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<table>
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<th>Sl.No</th>
<th>Death Rate</th>
<th>G.D.R.:</th>
<th>N.D.R.:</th>
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<td>02</td>
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<td>3.35 %</td>
<td>2.05 %</td>
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<table>
<thead>
<tr>
<th>Sl.No</th>
<th>E.M.S. Attendance (Out Patients)</th>
<th>No. of Patients</th>
<th>Average</th>
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<tr>
<td>02</td>
<td>O.G. Casualty</td>
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### NO. OF OPERATIONS PERFORMED FOR THE YEAR

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<tr>
<td>Obstetrics II</td>
<td>1,595</td>
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<td>Obstetrics III</td>
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<td>Obstetrics IV</td>
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<tr>
<td>Gynaecology II</td>
<td>487</td>
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<tr>
<td>Gynaecology III</td>
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<td>Gynaecology IV</td>
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<td>Surgery IV</td>
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<td>Neuro-Surgery</td>
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<tr>
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<tr>
<td>ENT</td>
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<tr>
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<td><strong>Total</strong></td>
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## 7.2 JIPMER Urban Health Centre Kurusukuppam

**Professor & In-charge**  
Gautam Roy  
**Assistant Professor**  
Sitanshu Sekar Kar  
**Chief Medical Officer**  
K. Jagadeeswaran

<table>
<thead>
<tr>
<th>SERVICE</th>
<th>PERFORMANCE FROM 1.4.2011 to 31.03.2012</th>
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<tbody>
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### TB REPORT

- DOTs CAT - I: 15
- CAT – II: 10
- CAT - III: 03
- Non DOTs: 01

### ANTENATAL

- Antenatal Clinic conducted: 47
- New Antenatal registered: 114
- Under five Clinic conducted: 50
- New under five children registered: 136

### IMMUNIZATION

- Antenatal Injection T.T I Dose: 90
- Injection T.T II Dose: 89
- T.T. Booster: 11

### CHILDREN -0 – 5 YEARS

- Injection DTP & OPV – I: 114
- II: 112
- III: 106
- Booster - I: 119
### Service Performance from 1.4.2011 to 31.03.2012

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<thead>
<tr>
<th>Service</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Injection Hepatitis B-I Dose</td>
<td>114</td>
</tr>
<tr>
<td>II Dose</td>
<td>112</td>
</tr>
<tr>
<td>III Dose</td>
<td>106</td>
</tr>
<tr>
<td>Injection Measles</td>
<td>105</td>
</tr>
<tr>
<td>Injection MMR</td>
<td>118</td>
</tr>
<tr>
<td>Iron and Folic Acid supplementation</td>
<td>452</td>
</tr>
<tr>
<td>Vit. A supplementation</td>
<td></td>
</tr>
<tr>
<td>I dose</td>
<td>105</td>
</tr>
<tr>
<td>II dose</td>
<td>109</td>
</tr>
<tr>
<td>III dose</td>
<td>92</td>
</tr>
<tr>
<td>IV dose</td>
<td>115</td>
</tr>
<tr>
<td>V dose</td>
<td>136</td>
</tr>
<tr>
<td>VI dose</td>
<td>121</td>
</tr>
<tr>
<td>VII dose</td>
<td>119</td>
</tr>
<tr>
<td>VIII dose</td>
<td>121</td>
</tr>
<tr>
<td>IX dose</td>
<td>143</td>
</tr>
<tr>
<td><strong>School Children</strong></td>
<td></td>
</tr>
<tr>
<td>Injection D P T at 5 years</td>
<td>15</td>
</tr>
<tr>
<td>Injection T.T. 10 Years</td>
<td>26</td>
</tr>
<tr>
<td>Injection T.T 16 Years</td>
<td>60</td>
</tr>
</tbody>
</table>

### Special Activities

1. Eye Camp conducted by Tele Ophthalmology, JIPMER on 26.05.11 & 30.08.11
2. Malaria awareness programme was conducted at the Urban Health Centre on 16.06.11
3. Breast feeding day was Celebrated at the Urban Health Centre on 25.08.11
4. Valaiappu Ceremony for Primi Antenatal mothers was organized at youth hostel Muthiyalpet along with PHC, Muthiyalpet and the NRHM, Puducherry.
5. Geriatric Camp conducted by Departments of Medicinet., Eye, and P & S. M., JIPMER on 01.10.11.
6. Dental Camp conducted by Dr.Ramasubramanian (Rural mobile dental clinic) was held in N.K.C. School, Kurusukuppam on 19.10.11.
7. IPPI programmed was conducted in four booths by the Urban Health Centre, Vazhaikullam, on 19.02.12.
8. Tuberculosis Day was celebrated in UHC on 23.03.12.
9. UHC Staff Nurses attended the GFATM Training in College of Nursing, from 14.11.11 to 19.11.11 and 12.12.11 to 17.12.11 JIPMER, Puducherry.
BACKGROUND INFORMATION

JIRHC is a Primary Health Centre under the Department of Preventive and Social Medicine, JIPMER. It was started in 1966 in order to provide health services for the community and facility for training for medical students wherein they learn about community health. JIRHC caters to the health needs of four villages which are called its "service areas" - Ramanathapuram, Thondamanatham, Thuthipet & Pillaiyarkuppam, all of them covering a population of 9,101. Besides the regular OPD services in the forenoon, special clinics are conducted during afternoons, Chronic Illness clinic, Antenatal clinic & Well baby clinic on Wednesday, Thursday & Friday respectively. JIRHC is also a DOTS centre through which care & counseling are given for TB patients in the service areas.

Along with the Services provided at the Centre, the staff of JIRHC are also involved with National Programmes like Village Health & Sanitation day programmes with NRHM. JIRHC and the community have also been working together for the upliftment of the community with the Staff of JIRHC & village representatives forming the Village Health & Sanitation Committee through which the Sanitation need of the villages are planned and executed.

PATIENT CARE DETAILS

<table>
<thead>
<tr>
<th>S.NO</th>
<th>SERVICE</th>
<th>APRIL 2011 TO MARCH 2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>No of Villages / Wards</td>
<td>4</td>
</tr>
<tr>
<td>2.</td>
<td>Population</td>
<td>9,101</td>
</tr>
<tr>
<td>3.</td>
<td>OPD Attendance</td>
<td>19,844</td>
</tr>
<tr>
<td></td>
<td>Average for month</td>
<td>1,654</td>
</tr>
<tr>
<td>4.</td>
<td>Emergencies</td>
<td>4,781</td>
</tr>
<tr>
<td></td>
<td>Average for month</td>
<td>398</td>
</tr>
<tr>
<td>S.NO</td>
<td>SERVICE</td>
<td>APRIL 2011 TO MARCH 2012</td>
</tr>
<tr>
<td>------</td>
<td>--------------------------------------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>5.</td>
<td>Chronic Illness Clinic conducted</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>Patients attending clinic every month</td>
<td>254</td>
</tr>
<tr>
<td>6.</td>
<td>TB Report</td>
<td></td>
</tr>
<tr>
<td></td>
<td>A. DOTS - Category 1</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>DOTS -Category 2</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>DOTS -Category 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>B. NON - DOTS</td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td>Antenatal Clinics Conducted</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>New ANC Registered</td>
<td>116</td>
</tr>
<tr>
<td>8.</td>
<td>Under-five Clinics Conducted</td>
<td>51</td>
</tr>
<tr>
<td></td>
<td>New Under-five children registered</td>
<td>143</td>
</tr>
<tr>
<td>9.</td>
<td>Immunization</td>
<td></td>
</tr>
<tr>
<td></td>
<td>A. Antenatal</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TT 1 dose</td>
<td>93</td>
</tr>
<tr>
<td></td>
<td>TT 2 dose</td>
<td>92</td>
</tr>
<tr>
<td></td>
<td>Booster</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>B. Children</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DPT + OPV 1 dose</td>
<td>121</td>
</tr>
<tr>
<td></td>
<td>DPT + OPV 2 dose</td>
<td>130</td>
</tr>
<tr>
<td></td>
<td>DPT + OPV 3 dose</td>
<td>147</td>
</tr>
<tr>
<td></td>
<td>DPT + OPV Booster</td>
<td>130</td>
</tr>
<tr>
<td></td>
<td>Hepatitis B 1 dose</td>
<td>77</td>
</tr>
<tr>
<td></td>
<td>Hepatitis B 2 dose</td>
<td>101</td>
</tr>
<tr>
<td></td>
<td>Hepatitis B 3 dose</td>
<td>87</td>
</tr>
<tr>
<td></td>
<td>Measles</td>
<td>131</td>
</tr>
<tr>
<td></td>
<td>MMR</td>
<td>90</td>
</tr>
<tr>
<td></td>
<td>C. School Children</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DPT at 5 Yrs</td>
<td>125</td>
</tr>
<tr>
<td></td>
<td>TT at 10 Yrs</td>
<td>152</td>
</tr>
<tr>
<td></td>
<td>TT at 16 Yrs</td>
<td>147</td>
</tr>
<tr>
<td>10.</td>
<td>JSY given mother</td>
<td>11</td>
</tr>
<tr>
<td>11.</td>
<td>Village Health Nutrition day conducted</td>
<td></td>
</tr>
<tr>
<td></td>
<td>every month in 4 areas</td>
<td></td>
</tr>
</tbody>
</table>
TRAINING PROGRAMMES ATTENDED BY RHC STAFF

A). GFATM Training Programme Attended by
   Mrs. Rajakumari Kesari, PHN
   Mrs. Revathi Ramachandran, PHN
   Mrs. S. Bharathi, Staff Nurse
   Mr. J. Krishnamurthy, Staff Nurse
   Mr. K. Rajarajan, Staff Nurse

B). Training to Reduce Maternal Mortality at NRHM
   Mrs. Revathi Ramachandran, PHN
   Mrs. S. Bharathi, Staff Nurse

C). MDA Training
   Mrs. Rajakumari Kesari, PHN
   Mrs. Revathi Ramachandran, PHN
   Mrs. A. Rajalatchumi, PHN
   Mr. T. Karthikeyan, S/I

PROGRAMMES IN COLLABRATION WITH STATE AUTHORITIES

A). IPPI - Phase - I 15 February - 2012
B). MDA Programme - 10/Feb/12
D). Breast Feeding Week- Aug - 2012
E). NRHM Health Camp Conducted In Thondamantham, Pilaiyarkuppam
F). Eye Camp conducted

LAB REPORT

SL.NO INVESTIGATION TOTAL
1. Haemoglobin 1035
2. Total WBC Count 84
3. Differential Count 75
4. ESR 24
5. BT, CT 02
6. Blood Grouping 54
7. VDRL 26
8. Blood Sugar 908
9. PS FOR MP 71
10. PS FOR MF 09
11. PS for Anaemia 22
12. Urine Albumin 706
13. Urine Sugar 106
14. Urine Microscopic Exam 52
15. Bile Pigments 02
16. Pregnancy Tests 82
17. Sputum for AFB 144
18. Stool Examination 02

Grant Total 3,404
7.4 Outreach Health Centre
Karaikal

Medical Superintendent
A.K. Das

Additional Medical Superintendent & Officer In-charge
Anita Rastogi

Medical Teams comprising consultants, resident doctors and paramedical staff etc., from following departments have conducted Outreach Health Services at Outreach Health Centre, Karaikal. Number of visits and total number of patients attended during the years 2011-2012 is mentioned against the departments.

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>SERVICE</th>
<th>2011-2012</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>A</td>
</tr>
<tr>
<td>1.</td>
<td>Cardiology</td>
<td>8</td>
</tr>
<tr>
<td>2.</td>
<td>C.T.V.S.</td>
<td>6</td>
</tr>
<tr>
<td>3.</td>
<td>Clinical Immunology</td>
<td>6</td>
</tr>
<tr>
<td>4.</td>
<td>Diabetic</td>
<td>6</td>
</tr>
<tr>
<td>5.</td>
<td>Endocrinology</td>
<td>6</td>
</tr>
<tr>
<td>6.</td>
<td>Gastroenterology Medical</td>
<td>5</td>
</tr>
<tr>
<td>7.</td>
<td>Gastroenterology Surgical</td>
<td>2</td>
</tr>
<tr>
<td>8.</td>
<td>Nephrology</td>
<td>6</td>
</tr>
<tr>
<td>9.</td>
<td>Neurology</td>
<td>7</td>
</tr>
<tr>
<td>10.</td>
<td>Neuro Surgery</td>
<td>6</td>
</tr>
<tr>
<td>11.</td>
<td>Ophthalmology</td>
<td>2</td>
</tr>
<tr>
<td>12.</td>
<td>Oncology – Medical</td>
<td>6</td>
</tr>
<tr>
<td>13.</td>
<td>Oncology – Surgical</td>
<td>6</td>
</tr>
<tr>
<td>14.</td>
<td>Ortho Surgery</td>
<td>6</td>
</tr>
<tr>
<td>15.</td>
<td>Plastic Surgery</td>
<td>6</td>
</tr>
<tr>
<td>16.</td>
<td>Radiotherapy</td>
<td>4</td>
</tr>
<tr>
<td>17.</td>
<td>Urology</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>Total No. of Patients attended</td>
<td>3211</td>
</tr>
</tbody>
</table>

N.B. - A – No. of Days conducted
- B – No. of Patients attended

In general the Outreach Health Services are helpful to the community in Karaikal. Patients with specific kind of problems/complaints are treated and supplied with all essential drugs. Patients are enthusiastic to know various aspects of their complaints. Sugar estimations for the needy patients are being done with the glucometers. Patients who required 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 & Critical Care

<table>
<thead>
<tr>
<th>Professor and Head</th>
<th>A S Badhe</th>
</tr>
</thead>
<tbody>
<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>Prasanna Bidkar Udupi</td>
</tr>
<tr>
<td></td>
<td>Sandeep Kumar Mishra</td>
</tr>
<tr>
<td></td>
<td>E Lenin Babu</td>
</tr>
<tr>
<td></td>
<td>Adinarayanan</td>
</tr>
<tr>
<td></td>
<td>Suman Lata Gupta</td>
</tr>
<tr>
<td></td>
<td>Satya Prakash MVS</td>
</tr>
<tr>
<td></td>
<td>Anusha Cherian</td>
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</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 “Etudes 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 a sanctioned faculty of 22 consultants, 35 senior residents, Post graduation in Anaesthesiology was started with 2 MD and 4 DA seats in late 1970’s. Presently the annual intake is 10 postgraduate students (MD).

EDUCATIONAL COURSES

Undergraduate Courses

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 Courses

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

1. Students of the B.Sc. OT Technology course are trained during the 3rd & 4th semesters of their course.

2. The Department also imparted short term training (one month) to two DNB students from IGGHPGI and one from MGMCR, Pondicherry in cardiovascular and thoracic anesthesia.

CONTINUING MEDICAL EDUCATION

- A CME on Mechanical Ventilation was organized by Department of Anesthesiology and critical care, JIPMER and ISA Puducherry at Conference Hall, S. S. block, JIPMER on 15 October 2011, Puducherry with Prof. Badhe A S as Organizing Chairman, Dr. Mishra S K as organizing Secretary Dr. Lenin Babu E as treasurer. Dr. Hemavathy B was the moderator for the CME program. Edward Life science, WiproGE India Ltd, Trimline Chennai and Macque India Ltd were the sponsors.

Dr. Ashok Badhe


Dr. Pankaj Kundra

- Attended a CME on VIMA update 2, held at Chennai 28th April 2011 as invited speaker
- Attended the ENTHIRAN 2011, CME and Workshop on Anaesthesia machine, 22nd May 2011, Trichy and delivered a guest lecture on Evolution of Anaesthesia Delivery System.
- Delivered a Guest Lecture on Uptake, distribution and elimination of inhalational anaesthetic agents in the CME on Understanding Inhalational Anaesthesia, CME cum Workshop, MGMC & RI, Pondicherry, 25th Sept 2011.
- Delivered a Guest CME Lecture on Physiology and Pharmacology of Alpha Adrenergic Receptors and participated as Resource faculty for Anaesthesia workstation at the CME on 'Scientific basis of Anaesthesia' at KMCH Coimbatore on 29.01.2012.
- Participated as Co-ordinator for live demonstration at the CME and workshop on peripheral nerve blocks, ISA Puducherry Chapter, Puducherry, 21 – 22nd Jan 2012 and also made a live demonstration of Ultrasound guided infraclavicular nerve block.
- Delivered a guest lecture during the CME titled Peripheral nerve blocks – An evidence based review. He co-ordinated the workshop on ultrasound guided peripheral nerve blocks and participated as Resource faculty in the Workshop for ultrasound guided lower limb nerve blocks.
- Delivered a Guest Lecture on Respiratory Physiology and Anaesthesia and moderated a PG Debate on Additives in spinal anaesthesia at Ramachandra Anaesthesia Continuing Education (RACE 2012), Chennai, Feb 24 – 28th 2012.
Dr. Mishra SK

- Participated as delegate in CME & Workshop on peripheral nerve blocks held on 21st and 22nd of January 2012 in Puducherry, Organized by IGMC&RI and IGGH&PGI.
- Participated as organizing secretary for CME and Workshop on mechanical ventilation and annual conference of ISA Puducherry branch (PONCON 2011) held on 15th and 16th of October 2011 organized Department of Anaesthesiology and critical care, JIPMER.
- Participated as delegate on Understanding inhalational anaesthesia- CME and workshop held on 25th of September 2011 organized by Department of Anaesthesiology, MGMC&RI.
- Participated as delegate on Difficult airway update 2012 (CME / Workshop) held on 4th March 2012 in Puducherry, organized by Department of Anaesthesiology, PIMS in association with ISA Puducherry and All India Difficult Airway Association.

Dr. Vasudevan A

- Participated as delegate on Difficult airway update 2012 (CME / Workshop) held on 4th March 2012 in Puducherry, organized by Department of Anaesthesiology, PIMS in association with ISA Puducherry and All India Difficult Airway Association.
- Participated as Guest faculty in CME & Workshop on peripheral nerve blocks held on 21st and 22nd of January 2012 in Puducherry, Organized by IGMC&RI and IGGH&PGI.
- Participated as delegate on Understanding inhalational anaesthesia - CME and workshop held on 25th of September 2011 organized by Department of Anaesthesiology, MGMC&RI.

Dr. Satyen Parida

- “Understanding Inhalational Anaesthesia – virtual to visual” organized by MGMC & RI, Puducherry & ISA Puducherry State Branch: 25th Sep 2011
- “CME on Mechanical Ventilation” organized by ISA Puducherry State Branch: 15th Oct 2011

CONFERENCES

Dr. Ashok Badhe

- Attended the State Anaesthesia Conference at Raipur – 8th to 10th October 2011 and delivered a lecture on “Promoting Safety Culture in Anaesthesia”.
- Attended the National conference of Indian Society of Anaesthesiologists ISACON 2011- ASA at Mumbai held from 26th to 29th Dec. 2011 and delivered a lecture.
Dr. Pankaj Kundra

- Attended the GASMAN Simulation, at SRMC Chennai on 24th August 2011.
- Attended the SAARC – AA Congress 2011, held at Bangaluru 25 – 28th August 2011 and played the following roles:
  - As a Resource Person for the Workshop on Difficult airway
  - As a moderator for the Panel Discussion on Airway Assessment
  - Delivered a Guest Lecture on Do newer anaesthesia machines improve patient care?
  - Served as a Chair Person for Research in Anaesthesia. What is lacking & how to improve it?
- Delivered a Guest Lecture on Advances in airway management in KMCH Anaesthesia Update 2011, at Coimbatore on 4th Sept 2011 and served as a Chair Person for Educational resources and simulators.
- Attended the 4th National conference Association of Obstetric Anaesthesiologists 2011 and 1st Joint AOA – OASAO (Obstetric Anaesthesia Society Asia Oceania), Hyderabad, 16 – 18th Sept 2011 and played the following roles:
  - Delivered a Guest Lecture on General Anaesthesia for Caesarean section: A vanishing art?
  - Panelist for the Panel Discussion on Issues in Obstetric Critical Care
  - Judge for selecting 6 best selected posters for oral presentation
- Delivered a Guest Lecture on Recent advances in airway management at the CME on Airway Management, Shree Balaji Medical College, Tambaram on 1st Dec 2011.
- Attended the National conference of Indian Society of Anaesthesiologists ISACON 2011, Mumbai, 25 – 29th Dec 2011 and delivered a guest lecture on Difficult extubation during the Workshop on Difficult airway. He participated as a resource person in the workshop on Simulator-‘Gasman’. In addition he delivered a Guest Lecture on Mechanism of action of general anaesthetics and their neurotoxicity during the CME.
- Delivered a Guest Lecture on How does acute postoperative pain become chronic? Can your anaesthetic management make a difference? and participated as Resource faculty in the workshop on Ultrasound guided Upper extremity blocks below the clavicleat the Inaugural meeting of Regional Anaesthesia for ASIA (RA-ASIA), 3rd Ramathibodi workshop, Bangkok (Thailand) 11 – 12th Feb 2012.
- Delivered a Guest Lecture on Does regional anaesthesia reduce incidence of chronic postoperative pain? at International Trauma Care (ITC), 15th National conference of International Trauma Care, 24 – 26th Feb 2012, Hyderabad.
- Delivered a Guest Lecture on Extubation in Difficult Airway and participated as resource person in the Workshop on Bonfil’s Retromolar Scope during Difficult Airway Update 2012, Pondicherry Institute of Medical Science and AIDiAA, 4th March 2012, Puducherry.
Dr. Vasudevan A
- Participated as delegate. 19th Congress of SAARC Association of Anaesthesiologists (SACA), Organised by Indian Society of Anaesthesiologists, Bengaluru, 25-28 August 2011
- Participated as delegate, 59th Annual National Conference of India Society of Anaesthesiologists, Organised by Indian Society of Anaesthesiologists, Mumbai, 26-29 December 2011
- Participated as delegate. PONCON 2011 – Annual State conference, ISA-Puducherry state branch, JIPMER, 15-16 October 2011 and delivered a guest Lecture on Ventilator Graphics and Waveforms

Dr. Satyen Parida
- “PONCON 2011” organised by ISA Puducherry State Branch at Pondicherry: 15th to 16th Oct 2011
- “Chennai Cardiac Anaesthesia Update 2011” organized by IACTA Chennai City Branch at Mamallapuram: 26th-27th Nov 2011
- “Advances in Spine Surgery” organized by Medtronic at Pondicherry: 2nd to 3rd Dec 2011

Dr. M.V.S. Satya Prakash
- Attended the Annual conference of Indian Association of Paediatric Anaesthesiology – Hyderabad.
- Attended Annual conference of Puducherry branch of Indian Association of Anaesthesiology
- Departmental administration works – part of the team managing the roster for senior residents and junior residents.
- Ongoing projects – As a co-guide –
  1. Comparison between hypertonic saline and mannitol in intracranial surgeries
  2. Effect of low dose tranexamic acid in intracranial surgeries
  3. Comparison of slow and rapid bolus ephedrine in planned LSCS undergoing spinal anaesthesia.

RESEARCH PROJECTS

Departmental project

Completed
- Cardio respiratory effects of balancing PEEP to intra-abdominal pressures during laparoscopic cholecystectomy.
- Comparison of I-gel with Proseal LMA for controlled ventilation in gynaecological laparoscopic surgery.
- Interpleural vs paravertebral block for postoperative pain relief in patient undergoing breast cancer surgeries.
- Evaluation of nebulized lignocaine versus intravenous lignocain for attenuation of pressor response to laryngoscopy and intubation.
- Pre-operative oral Gabapentin, intravenous fentanyl and their combination in attenuation of the haemodynamic response to laryngoscopy and endotracheal intubation.
• Evaluation of Truvview scope and Flexitip blade for tracheal intubation with manual in line stabilization of head and neck.
• Comparison of I-Gel and Laryngeal tube suction during controlled ventilation.
• Oral Gabapentin premedication for elderly patients undergoing intraocular surgery.
• Pre-operative oral gabapentin, intravenous fentanyl and their combination in attenuation of the haemodynamic response to laryngoscopy and endotracheal intubation.

Ongoing
• Comparison of I-Gel and ProSeal LMA in Pediatric Patients under General anesthesia.
• The Influence of Head and Neck Position on the ventilation with the I-gel and ProSeal laryngeal mask airway (PLMA) in adult.
• Comparison of colloid preload with coload during spinal anaesthesia for lower abdominal surgery.
• Correlation between neck circumference and difficult tracheal intubation in Indian population an observational study.
• Outcome of obstetrical and gynaecological patients in critical care unit JIPMER for last four year. a retrospective study.
• Comparison between ropivacaine 0.25%, and 0.5% and bupivacain 0.25% for local infiltration in inguinal hernia repair under general anaesthesia.
• Time course of psychomotor, cognitive and ambulatory recovery after Sevoflurane day case Anesthesia: A randomized double blind study.
• The comparison of stroke volume variation with standard hemodynamic measurements in predicting fluid responsiveness in septic patients with acute circulatory failure.
• Dexmedetomidine as adjunct to anesthesia to prevent emergence agitation in pediatric surgery: Comparison of single boluses at induction or at recovery.
• Effects of adding low dose clonidine to intrathecal hyperbaric ropivacaine.
• Comparison between hypertonic saline and mannitol in intracranial surgeries.
• Effect of low dose tranaxemic acid in intracranial surgeries.
• Comparison of slow and rapid bolus ephedrine in planned LSCS undergoing spinal anaesthesia.

Publications
Journal
2. Cherian A. Maxillary Nerve Block. eMedicine from WebMD. Updated 1st feb 2012.


PATIENT CARE SERVICES

A. Clinical

22 operation theaters provide Clinical Care 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 (CCU). A number of patients are referred to the CCU from other departments of JIPMER and hospitals from different parts of the State. The facilities for ABG (Arterial Blood Gas), invasive and non invasive monitoring, cardiac output monitor (Both thermodilution and flow counter technology), and PFT are available at the CCU. Extending pain relief beyond the confines of the operating room led to the start of an Acute Pain Service and, Chronic pain services where pain relief procedures including celiac plexus, Stellate ganglion, lumbar sympathetic block are provided for referred patients. Anaesthesia outside the operating theatre includes 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-3650
PFT-67

AWARDS, HONOURS AND SIGNIFICANT EVENTS

- Dr. Badhe A S was appointed as secretary of ISA Pondicherry for the 2011
- Dr. Mishra S K was secretary of ISA Pondicherry for the 2011.
- Dr. Ellakumanan L B was secretary of ISA Pondicherry for the 2011
- Dr. Vasudevan A was executive member of ISA Pondicherry for the year 2011-12

ACADEMIC, ADMINISTRATIVE, FINANCE, CENTRAL FACILITIES, ETC

Dr. Ashok Badhe

- Was the chairman of the selection committee for Assistant Professors and Operating Theatre Staff.
- Member of purchasing of instrument and equipment (PMSSY) for the setup of AIIMS like institute in different part of the India.
- In the tender and purchasing committee, for consumables and instruments for the department.
- Prepare duty roster of resident and faculty.

Dr. Hemavathy B

- 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
- Assign topics for seminar and journal for postgraduates and senior residents.

Dr. Pankaj Kundra

- In the tender and purchasing committee, for consumables and instruments for the department.
- Prepare the duty roster of OT technician and OT attendant.
- Postgraduate Examiner (2011 – 2012)
- National Board of Examinations, Delhi
- Postgraduate Institute for Medical Education and Research, Chandigarh
- Manipal University, Mangalore
- Sri Venkateswara Institute of Medical Sciences, Tirupathi
- Rajiv Gandhi University, Bangalore
- Assessor/Inspector to run Postgraduate Course in Anaesthesiology 2011 – 2012
- National Board of Examinations for running DNB course in Anaesthesiology
- Medical Council of India
- Committee Member for Simulators and Skill Lab.
- Officer In-charge for OT, Personnel and Super Specialty OT complex
Dr. Vasudevan
- In the tender and purchasing committee, for consumables and instruments for the department.
- Prepare duty roster of resident and faculty.

Dr. Mishra SK
- 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
- Prepare monthly statistics of the department.
- Prepares the annual report of department

Dr. Gupta LS
- Prepare monthly statistics of the department.

Dr. Satyan Parida
- In the tender and purchasing committee, for consumables and instruments for the department.
- Co-ordinating the Anaesthesiology syllabus for B Sc OT Technicians
- Co-ordinating the Anaesthesiology syllabus for Emergency Medical Technicians
- Establishing curriculum for a Fellowship Course in Cardiac & Neuro-Anesthesiology
- Setting specifications for equipment procurement by the Department of Anesthesiology & Critical Care.

Dr M.V.S. Satyprakash
- Prepare duty roster of resident and faculty.

Dr Prasanna Bidkar
- Member of H1N1 Committee member as a representative of department of Anesthesiology and critical care, JIPMER
- Prepare monthly statistics of the department.
8.2 Anatomy

Professor & Head
K. Ramachandra Rao

Professor
Parkash Chand

Assistant Professors
Suma H.Y  Rashmoni Jana
Sarasu J  V. Gladwin

BACKGROUND INFORMATION OF THE DEPARTMENT

The Department of Anatomy sprouted under the leadership of Dr. Oliver (French) and Dr. V.M Charanlia (Indian) during inception of JIPMER, when only MBBS course was offered. With the growth of the institute, the department has expanded to impart undergraduate, postgraduate medical training and other courses such as PhD, Allied medical Sciences, and short scale projects for students.

The department is actively involved in patient care services in processing karyotyping for the past 22 years. The karyotyping unit is well equipped with automated work station and facilitates its studies for work of FISH/interphase FISH. The department is well stabilized for studies of DNA damage using comet assay and micronucleus score.

It has grown in infrastructure with establishment of Polymerase chain reaction (PCR) for studies in molecular genetics, gene studies and runs a full time service and project work.

EDUCATIONAL COURSES

A. Undergraduate Courses
M.B.B.S
B.Sc (Nursing)
B.Sc (MLT)
B.Sc (Dialysis Technology)
B.Sc.(Perfusion Technology)
B.Sc.(Operation Theatre Technology)
B.Sc. (Medical Radiation technology)
B.Sc.(Neuro Technology)

B. Postgraduate Courses
M.D (Anatomy)
I 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. K. Ramachandra Rao
- Attended National ISPAT Workshop- ISPAT Goa Chapter under the auspicious of Indian society For Prenatal Diagnosis & Therapy from 5th to 7th August 2011 at Panaji - Goa.

Dr. Parkash Chand
- Attended National ISPAT Workshop- ISPAT Goa Chapter under the auspicious of Indian society For Prenatal Diagnosis & Therapy from 5th to 7th August 2011 at Panaji - Goa.

Dr. Suma HY
- Attended CME Program on ‘Fascial spaces of Head & Neck and its clinical implications’ at Chettinad Hospital and Research Institute, Kelambakkam, Kanchipuram dist. TN on 16th July 2011.
- Attended the CME programme on “World Kidney day celebration & symposium on preventive nephrology from despair to hope”, organized by: Department of Nephrology, JIPMER on 6th March 2012
- Attended the CME on “Important Role of Cytogenetics in Medical Practice and The Rise of the Extended Matching Question” held on 15th October 2011 at ANATCON @ MAPIMS- 2011.
- CME on ‘Modernizing Medical Training: Replacing Animals in MBBS Program’ at JIPMER on 17th January 2012.
- Invited as resource person at the National Conference on “Technological Transformation era: a key to excellence in promoting client care” at Vinayaka Mission College of Nursing, Puducherry on 27th & 28th Feb 2012 and presented a session on ‘Genomics and Nursing’.
- Attended X th ICMR course on Medical Genetics and Genetic Counseling at Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow, 9th to 20th August 2011.

Dr. Rashmoni Jana
- Participated in the “63rd National Course on Educational Science for Teachers of Health Professionals”. Held from 05.09.2011 to 15.09.2011, at department of Medical Education, JIPMER, Pondicherry , organized by NTTC, JIPMER.
- Participated in the CME programme on “Fascial Spaces of Head & Neck and its Clinical Implications” held on 16th July 2011 at Chettinad Hospital & Research Institute organized by Department of Anatomy, Chettinad Heath City, Tamilnadu.
• Attended the CME programme on “World Kidney day celebration & symposium on preventive nephrology from despair to hope”, organized by: Department of Nephrology, JIPMER on 6th March 2012.

• Attended the CME on “Important Role of Cytogenetics in Medical Practice and The Rise of the Extended Matching Question” held on 15th October 2011 at ANATCON @ MAPIMS- 2011.

• Attended the CME programme on - Antimicrobial Resistance, organized by Department of Pharmacology, JIPMER & sponsored by WHO on 7th April 2011.

• Participated in the CME On “Modernizing Medical Training: Replacing Animals in MBBS Programme” held on 17th January 2012 at JIPMER, organized by Medical Education Department of JIPMER and People for Ethical Treatment of Animals (PETA), India.

Dr. Sarasu J

• Attended the CME programme on “World Kidney day celebration & symposium on preventive nephrology from despair to hope”, organized by: Department of Nephrology, JIPMER on 6th March 2012.

• Attended the CME on “Important Role of Cytogenetics in Medical Practice and The Rise of the Extended Matching Question” held on 15th October 2011 at ANATCON @ MAPIMS- 2011.

• Participated in the CME On “Modernizing Medical Training: Replacing Animals in MBBS Programme” held on 17th January 2012 at JIPMER, organized by Department of Medical Education, JIPMER and People for Ethical Treatment of Animals (PETA), India.

• Participated in workshop, 2nd Short course on Basic Epidemiology organized by Department of Preventive and Social Medicine, JIPMER from 14th to 19th November 2011.

• Participated in workshop, 8th national course on pharmacogenomics organized by ICMR & Department of Pharmacology, JIPMER from 8th to 13th August 2011.

Dr. V. Gladwin

• Attended the 2nd short course on Basic Epidemiology from 14th to 19th November 2011 in the Department of Preventive & Social Medicine, JIPMER.

• Attended the CME on 17th Jan 2012 in Modernizing medical training: Replacing animals in MBBS program at NTTC, JIPMER.

CONFERENCES

Dr. Suma H Y

• Presented a paper titled “Retroaortic Left Renal vein-A case report” at Tamilnadu State Conference, ANATCON @ MAPIMS at Adhiparasakthi Institute of Medical Sciences and Research, Melmaruvathur, Kanchipuram dist, TN on 15th & 16th Oct 2011.
Dr. Rashmoni Jana

- Presented a paper titled “structural changes in NADPH positive neurone of enteric nervous system of rat colon in chronic stress” in “34th Annual Conference, Association of Anatomists, Tamil Nadu, ANATCON @ MAPIMS 2011”, held in Melmaruvathur Adiparasakthi Institute of Medical Sciences & Research. Melmaruvathur, from 15th to 16th Oct 2011, Organized by Department of Anatomy, MAPIMS.
- Presented a paper titled “Aberrant insertion of fibularis tertius muscle in foot” in “34th Annual Conference, Association of Anatomists, Tamil Nadu, ANATCON @ MAPIMS 2011”, held in Melmaruvathur Adiparasakthi Institute of Medical Sciences & Research. Melmaruvathur, from 15th to 16th Oct 2011, Organized by Department of Anatomy, MAPIMS.
- Attended “National Medical Education Conference, MEDUCON 2011” held from 30.09.2011 to 02.10.2011, at JIPMER, organized by AANJ Department of Medical Education, JIPMER, Puducherry.
- Attended International Symposium on Recent Trends in Neuroscience & XXIX Annual Conference of Indian Academy of Neuroscience, held from 30th October to 1st November 2011 at Defence Institute of Physiology & Allied Sciences, Delhi.
- Attended 59th NATCON of Anatomical Society of India held from 27th to 29th December, 2011 at Sri Aurobindo Medical college & Post Graduate Institute (SAIMS), Indore, organized by Department of Anatomy (SAIMS).

Dr. Sarasu J

- Attended 34th Annual Conference, Association of Anatomists, Tamil Nadu, ANATCON @ MAPIMS 2011”, held in Melmaruvathur Adiparasakthi Institute of Medical Sciences & Research. Melmaruvathur, from 15th to 16th Oct 2011, Organized by Department of Anatomy, MAPIMS.
- Attended “National Medical Education Conference, MEDUCON 2011” held from 30.09.2011 to 02.10.2011, at JIPMER, organized by AANJ Department of Medical Education, JIPMER, Puducherry.

Dr. V. Gladwin

- Presented paper on “Malposition of sigmoid colon – surgical significance” at 34th Annual Conference of Association of Anatomists-Tamilnadu held on 15th & 16th October 2011 at Melmaruvathur Adhiparasakthi Institute of Medical Sciences & Research, Melmaruvathur.
- Attended the 34th Annual Conference of Association of Anatomists-Tamilnadu on 15th & 16th October 2011 at Melmaruvathur Adhiparasakthi Institute of Medical Sciences & Research, Melmaruvathur.

RESEARCH PROJECTS
A. Funded projects
   Ongoing

- Assessment of the frequency of sister chromatid exchange and its association with clinical features in patients with Down syndrome. Investigator- Dr. Suma H Y (Intramural Fund: Rs.50,000). Co-investigator- Dr. K. Ramachandra Rao
- Effect of chronic stress on morphology of interstitial cell of cajal (ICC), nitrergic and cholinergic neurons in the enteric nervous system of rat colon (Intramural fund Rs.1,00,000 per year for 2 years). Investigator- Dr.Rashmoni Jana
- Detection of fetal DNA in maternal plasma as a prenatal diagnostic technique
  Investigator- Dr.Sarasu. J. Co-Investigator: Dr. Ramachandra Rao. K
  Intramural fund IInd year – Rs. 50,000

**B. Departmental Projects**

**Completed**

- 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

**Ongoing**

- A study of Oxidative stress induced DNA damage in cases with Neonatal Asphyxia
  Investigator: Mr. Manoj A - Ph.D candidate
  Supervisor: Dr. Ramachandra Rao
- DSCR gene – Its Polymorphism, implications and its clinical profile
  Investigator: Mr. Nandha Kumar S - Ph.D candidate
  Supervisor: Dr. Ramachandra Rao
- 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. Aravindan
  Supervisor: Dr. Parkash Chand
• Assessment of DNA damage in term neonate with sepsis.
  Investigator : Dr.Priyadarshini.N.A
  Guide : Dr.Parkash Chand

• Assessment of DNA damage by comet assay in children with congenital heart disease
  Investigator : Dr. Vidya G
  Guide - Dr. Suma H Y
  Co-guide - Dr. Parkash Chand

• Assessment of DNA damage in children with cleft lip and cleft palate.
  Investigator : Dr.Brooklyn.S
  Guide : Dr.Rashmoni Jana

• Assessment of DNA damage and repair capacity in different palliative radiation fractionation schedules in locally advanced oral cavity cancer
  Investigator : Dr.Rajprasath.R
  Guide : Dr.Sarasu.J

C. Collaborative Projects

Ongoing
1. Chromosomal abnormalities among fetuses with structural anomalies evaluated in JIPMER.
   Investigator- Dr. Manikandan K, Dept. of OB & GY
   Co-Investigator- Dr. Suma H Y, Dr. K. Ramachandra Rao

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

PUBLICATIONS

A. Journals


PATIENT CARE SERVICES

A. Laboratory

1. Embalming is performed on request from public for facilitating transportation of the dead either by road transport or by air.

2. Issue of karyotyping reports
   Special investigations like chromosomal analysis using automated karyotyping system and buccal smear are done on request from various clinical departments in JIPMER hospital – out patients and in patients.

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

1. Eight research papers were published in indexed journals in the field of medical genetics.
2. Dr. Rashmoni Jana, Asst. Prof., Anatomy won the best paper award in oral presentation titled “structural changes in NADPH positive neurone of enteric nervous system of rat colon in chronic stress” in “34th Annual Conference, Association of Anatomists, Tamil Nadu, ANATCON @ MAPINS 2011”, held in Melmaruvathur Adiparasakthi Institute of Medical Sciences & Research. Melmaruvathur, from 15th to 16th Oct 2011, Organized by Department of Anatomy, MAPIMS

3. 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 Catalyse Activity in Cases with Down Syndrome’.

4. 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. K. Ramachandra Rao
1. Departmental administration related to the equipment / consumables & non-consumables item - purchase, procurement / supervision of their register/ records
2. Maintenance /supervision of under graduate & post graduate student register at departmental level – log book / IA register / performance
3. Administration related to Technical & Non-Technical Staff
4. Involved in conducting enquiries in settlement of disputes / conflicts between the groups of staff

Membership:
1. Life Member of Anatomical society of India (ASI)
2. Life Member of Association of Anatomists, Tamil Nadu
3. Life Member of ISPAT
4. Life Member of JIPMER SCIENTIFIC SOCIETY
5. Life Member of NTTC
6. Life Member of CMC alumni association

Guideship:
• Functioned as Supervisor & Guide for Ph.D candidates registered in Anatomy
• Also as Convenor for Conduct of Doctoral Committee
• Functioned as Convenor & Chairman for MD Examinations
• Functioned as Convenor & Chairman for I MBBS Examinations
• Actively involved in providing – resource person – paper setter for undergraduate & postgraduate examinations in the subject of Anatomy
Dr. Parkash Chand
1. Officer-in-charge Departmental Library & Osteology Section.
2. MCI Inspector to Govt. Medical College, Kozhikode, Calicut on 13th & 14th February 2012.
3. Examiner I MBBS, I B.Sc. (AMS).
5. Guide for dissertation work for I, II & III year Post Graduates in the subject of Anatomy

Membership
1. Life Member of Anatomical society of India (ASI)
2. Life Member of Association of Anatomists, Tamil Nadu
3. Life Member of ISPAT
4. Life Member of JIPMER SCIENTIFIC SOCIETY
5. Life Member of NTTC

Dr. Suma H Y
1. Officer In-charge of Dissection Hall
2. Officer In-charge of Cytogenetic section
3. Faculty In-charge I B.Sc Nursing Anatomy
4. Faculty In-charge II B.Sc Nursing Genetics

Membership:
1. Life Member of Anatomical society of India (ASI)
2. Life Member of Association of Anatomists, Tamil Nadu
3. Life Member of Karnataka Chapter of Anatomists

Examinerships
Internal Examiner of 1st year degree examination of B.Sc. MLT Course, in Dec 2011

Guideship
As a Principal investigator for Post graduate (MD-Anatomy) student Dr. Vidy G, title of the project ‘Assessment of DNA damage by comet assay in children’s with congenital heart disease’.

Dr. Rashmoni Jana
Faculty & officer chargeship:
1. Officer- in charge of Histology section of the department
2. Faculty - in charge of B.Sc MLT (Medical Laboratory Technician) students
3. Faculty - in charge of B.Sc. AMS (Allied Medical Sciences) students including
   i. Neuro Technology (NT)
   ii. Perfusion Technology (PT)
   iii. Dialysis Technology (DT)
   iv. Operation Theatre Technology (OTT)
   v. Medical Radiation Technology (MRT)
4. Faculty - in charge – EMTC (Emergency Medical Technician Certificate) course

Membership:
1. Life Member of Anatomical society of India (ASI)
2. Life Member of Indian Academy of Neuroscience (IAN)
3. Life Member of Association of Anatomists, Tamil Nadu

Examinerships
1. Internal Examiner of 1st year degree examination of B.Sc. MLT Course, in May-June 2011
2. Internal Examiner of 1st year degree examination of B.Sc. AMS Course, in May-June 2011
3. Internal Examiner of 1st year degree examination of B.Sc. AMS Course, in Nov-Dec 2011

Guideship
Dr. Rashmoni Jana as a Principal investigator for Post graduate (MD-Anatomy) student
Dr. S. Brooklyn, title of the project “Assessment of DNA damage in children with cleft lip and cleft palate”.

Others
Attended as a faculty member from Department of Anatomy to evaluate (Micro-Training for
Presentation Skill for Journal club) of P G Orientation Programme on Research, Ethics and
Communication skill for the I st year Residents, 2011 Batch

Dr. Sarasu

Administration
1. Joint Secretary of JIPMER Faculty Association
2. Officer In-Charge of Hunter theatre
3. Officer In-charge of Gross museum
4. Officer In-charge of Embryology Museum
5. Officer In-charge of B.Sc.(MLT), B.Sc.(Allied Medical Sciences)

Educational
1. Involved in Formative & Summative assessment of MBBS, B.Sc.MLT, Allied Medical
   Sciences
2. Member involved in Planning & designing –New Course curriculum of Dialysis
   Technology, Perfusion Technology, Radiation Therapy, Operation Theatre Technology
   & Other assignments
Membership:
1. Life Member of Anatomical society of India (ASI)
2. Life Member of Association of Anatomists, Tamil Nadu
3. Life Member of Clinical society of Anatomist
4. Life Member of JIPMER alumini association
5. Life Member of JIPMER medical education
6. Life Member of JIPMER scientific society

Examinerships
2. Paper setter of 1st year examination of B.Sc. AMS Course, May - June & Nov - Dec 2011

Guideship
As a Principal investigator for Post graduate (MD-Anatomy) student Dr. Rajprasath title of the project “Assessment of DNA damage and repair capacity in different palliative radiation fractionation schedules in locally advanced oral cavity cancer.”

Dr.V.Gladwin

Administration
1. Officer In-charge of Dissection Hall
2. Officer In-charge of Histology Lab

Membership details
1. Member of National Academy of Medical Sciences
2. Clinical society of Anatomist
3. Life Member of JIPMER medical education
4. Life Member of JIPMER scientific society
5. Life Member of Anatomical society of India (ASI)
6. Life Member of Association of Anatomists, Tamil Nadu

SIGNIFICANT EVENTS IN DEPARTMENT
Cytogenetic laboratory has been upgraded with the following equipments for patient care, teaching and research purpose.

• Microprocessor controlled CO₂ Incubator, Eppendorff, UK – Installed in the month of Feb 2012.
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); BSc [MLT] (1975); MD [Biochemistry] (1965); MSc [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 its inception in 1957.

EDUCATIONAL COURSES

A. Undergraduate

The department continues with its undergraduate teaching programmes which include MBBS (two semesters), BSc (MLT) (two semesters), BSc (Allied medical sciences) BSc (Nursing) (one semester), MRT (two semesters), and MRO (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 MSc (Medical Biochemistry with intake of 9 students/year (I, II and III year) and MD (Biochemistry)(3 years course) with an annual intake of 4 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 one senior resident and nine PhD students.

C. Research Courses (PhD course)

Dr. M. G. Sridhar

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

- Molecular basis of the effect of curcumin on insulin resistance and its associated complications in diabetes and obesity - Mrs. 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.
- Molecular basis and gene polymorphism of Hypertensive disorders of Pregnancy among South Indian population - Mr. V. Vickneshwaran.

Dr. R. Soundravally

Following candidate is carrying out his PhD programme under Dr. R. Soundravally:

- 'Gene expression profile at selected inflammatory and oxidant-antioxidant genes in dengue using peripheral blood mononuclear cells and its association with disease severity'

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.
Academic Programmes

The department had a pass percentage for the various courses as follows: MBBS 87%; I year BSc (MLT) 77%; Final Year BSc MLT 100%; I year BSc (Dialysis Technology) 75%; I year BSc (Perfusion Technology) 100%; I year BSc (Nursing) 98%; MRT/MRO/BMRS; Biochemistry 100% and MSc (Medical Biochemistry) 100%.

CONTINUING MEDICAL EDUCATION PROGRAMS

Dr. P.H. Ananthanarayanan
- Attended the “National Consultation for Reforms in Medical Education “at Pramukhswami Medical College, Karamsad, Gujarat-388325 from 1st to 3rd April, 2011.
- Resource person in 63rd and 64th National Course on Educational Science for Teachers of Health Professionals held at JIPMER from 5th to 15th September, 2011 and 15th to 25th February, 2012 respectively.
- Committee member of MEDUCON 2011 held at JIPMER, Puducherry on 1st and 2nd October, 2011.
- Chaired a plenary session on “Biochemistry Education” – Are we in the right direction?” and delivered an invited talk on “Teaching methodologies for UGs and PGs-an update” at 19th Annual Conference of The Association of Medical Biochemists of India, AMBITRY 2011, Tiruchirapalli, 15th to 18th December 2011.
- Participated in “Effective Diagnostics” at Interns Orientation Programme, JIPMER, Puducherry; on 1st - 2nd July 2011 and 9th, 10th January, 2012.
- Delivered presidential address in the CME on “Replacing Animals in MBBS Program” Sponsored by PETA, India on 17th January 2012 at Conference Hall of SSB, JIPMER.
- Delivered an invited talk on “Inherited Disorders of Metabolism in Neonates” at CME programme held at Mahatma Gandhi Medical College & Research Institute, Puducherry on 24th January, 2012.
- Participated in PG Orientation program on Research Methodology, 5th March, 2012 held at JIPMER.

Dr. M. G. Sridhar
- Delivered an invited talk on Curriculum Management –Integrated strategies at Workshop on Curriculum revision for MBBS course, BPKIHS, Dharan, Nepal, 5th to 8th April 2011.
- Attended orientation Programme on Bioethics National Institute of Epidemiology, (ICMR), Chennai 3rd -5th May, 2011
- Underwent Basic Training Course in Cytometry B D Training Centre, Gurgaon, Haryana, 6th to 8th June,2011
- Face to Face Contact Programme in Bioethics ICMR, St John’s Medical College, Bangalore, 20th to 24th February 2012

Dr. Zachariah Bobby
- Participated in People for Ethical Treatment of Animals (PETA), India on ‘Modernizing Medical Training : Replacing Animals in MBBS program’ held on 17th January 2012 at JIPMER, Puducherry
Dr. R. Soundravally
- Participated in “Effective Diagnostics” at Interns Orientation Programme, JIPMER, Puducherry; on 1st - 2nd July 2011 and 9th - 10th January, 2012.
- Underwent Basic Training Course in Cytometry BD Training Centre, Gurgaon, Haryana, 3rd to 5th July, 2011
- Attended one day seminar on “Research design, sampling and basic steps involved in project formulation” on 17th September 2011 at JIPMER, Puducherry.
- Attended National workshop on clinical research for clinical investigators held at JIPMER on 21st to 22nd October 2011.

Dr. H. Nandeeshha
- Attended one day seminar on “Research design, sampling and basic steps involved in project formulation” on 17th September 2011 at JIPMER, Puducherry.
- Attended CME programme on “Perspectives in inborn errors of metabolism” on 24th January 2012 at MGMCRI, Puducherry and awarded 5 CE Credit points by Tamilnadu Dr. MGR Medical University.

CONFERENCES
Dr. P. H. Ananthanarayan
- Participated in the “Garuda NKN Partner’s Meet at Bengaluru, 15th - 16th July 2011.
- Resource person/Observer for preconference workshop on “e learning” and panelist for “Beyond curricular reforms” and facilitator for small group discussions in the National Conference on Health Professions Education at Christian Medical College, Vellore from 14th to 17th September 2011.
- “Utility of multiple serum biomarkers ratio in the predicting unfavourable outcomes” (oral presentation) presented at 19th Annual Conference of The Association of Medical Biochemists of India, AMBITRY 2011, Thiruchirapalli, 15th to 18th December 2011.
- “Diagnostic Value of Biochemical Predictive Index in Ovarian Malignancy” (poster presentation) at 19th Annual Conference of The Association of Medical Biochemists of India, AMBITRY 2011, Thiruchirapalli, 15th to 18th December 2011.
- “A study of thyroid profile in children with Nephrotic Syndrome” (oral presentation) at 19th Annual Conference of The Association of Medical Biochemists of India, AMBITRY 2011, Thiruchirapalli, 15th to 18th December 2011.

Dr. M. G. Sridhar
- Levels of Homocysteine and Lipid profile in Diabetic Patients with Acute Coronary Syndrome” (Oral Presentation) at 24th National Conference of Indian Society for Atherosclerosis Research (ISARCON 2011) JIPMER, Pondicherry, 24th and 25th September 2011.
- “Elevated plasma Homocysteine levels are associated with Fibrinogen levels in Non-Diabetic Acute Myocardial Infarction Patients” (Poster Presentation) at 24th National Conference of Indian Society for Atherosclerosis Research (ISARCON 2011) JIPMER, Pondicherry, 24th and 25th September 2011.
- Preventive effect of Amla (Emblica officinalis) extract on atherogenic dyslipidemic profile in ovariotomised fructose fed rats (Oral Presentation) at 24th National

- Differential effects of Calcium Channel Blockers and ACE Inhibitors and ACE Inhibitors on Platelet Aggregation in Hypertensive individuals. (Poster Presentation) at 24th National Conference of Indian Society for Atherosclerosis Research (ISARCON 2011) JIPMER, Pondicherry, 24th and 25th September 2011.
- Single Nucleotide Platelet Receptor Polymorphism (P2Y12-1744T>C) and Clopidogrel Response Variability in Coronary Artery Disease Patients Among Tamilian Population (Poster Presentation) Adjudged the Best Poster for Award at 24th National Conference of Indian Society for Atherosclerosis Research (ISARCON 2011) JIPMER, Pondicherry, 24th and 25th September 2011.
- Participated in the annual conference on “Acceptance of Membership Scroll” conducted by National Academy of Medical Sciences(India) at Bhubaneshwar, 14th to 16th October 2011 and accepted membership scroll conducted by National Academy of Medical Sciences(India) at Bhubaneshwar, 14th to 16th October 2011 and accepted membership scroll.
- Participated in a National Workshop on “Assessment of Medical Institutions” conducted by MCI, New Delhi, 24th November, 2011.
- Invited talk on “Turmeric-the yellow tinge of prophylactic safety in our diet” at 19th Annual Conference of The Association of Medical Biochemists of India, AMBITRY 2011, Tiruchirapalli, 15th to 18th December 2011.
- Participated in 10th Winter Symposium on “Cancer, Stem cell and Inflammation” at Christian Medical College, Vellore, 5th to 7th January 2012
- “Effect of turmeric on heat induced lipid peroxidation of edible oils” (Free Paper-Poster presentation) on 11th Annual Conference of the Society of Free Radical Research (SFRR), and International Conference on Emerging Trends in Free Radicals, Antioxidants and Neutraceuticals on Health, Disease and Radiation Biology, Kolkata, 12th to 14th January 2012
- Panelist for a “National Workshop on statistical computing in life sciences “ held at Pondicherry University from 27th February to 4th March 2012.

Dr. Zachariah Bobby

- “Preventive effects of Taurine and B-Complex vitamins in the development of experimental metabolic syndrome” (oral presentation) presented at Indian Society of Atherosclerosis Research 24th Annual National conference and international CME 2011 at JIPMER on 24th and 25th September 2011.
• “Link between inflammatory response and imbalance in blood and urinary oxidant – antioxidant status in South Indian women with hypertensive disorders of pregnancy” (oral presentation) presented at 19th Annual Conference of the Association of Medical Biochemists of India, AMBITRY 2011, Tiruchirapalli, 15th to 18th December 2011.

• “Protein bound sialic acid, hs C-reactive protein and atherogenic lipid indices in first degree relatives of type 2 diabetic subjects” (oral presentation) presented at 19th Annual Conference of The Association of Medical Biochemists of India, AMBITRY 2011, Tiruchirapalli, 15th to 18th December 2011

• “Atherogenic lipid profile among first degree relatives of ischemic stroke patients” (poster presentation) presented at 19th Annual Conference of The Association of Medical Biochemists of India, AMBITRY 2011, Tiruchirapalli, 15th to 18th December 2011

Dr. R. Soundravally

• “Association of human platelet antigen gene polymorphisms with risk for severe secondary dengue viral infection” (oral presentation) presented at 19th Annual Conference of The Association of Medical Biochemists of India, AMBITRY 2011, Tiruchirapalli, 15th to 18th December 2011

• “Utility of multiple serum biomarkers ratio in the predicting unfavourable outcomes” (oral presentation) presented at 19th Annual Conference of The Association of Medical Biochemists of India, AMBITRY 2011, Tiruchirapalli, 15th to 18th December 2011

• “Effect of sleep disturbances during 2nd and 3rd trimester of pregnancy on the inflammatory status and oxidative stress in the maternal blood and their influence on the fetal outcome” (poster presentation) presented at 19th Annual Conference of The Association of Medical Biochemists of India, AMBITRY 2011, Tiruchirapalli, 15th to 18th December 2011.

• “Diagnostic Value of Biochemical Predictive Index in Ovarian Malignancy” (poster presentation) at 19th Annual Conference of the Association of Medical Biochemists of India, AMBITRY 2011, Tiruchirapalli, 15th to 18th December 2011.

• Participated in the ‘National Workshop on statistical computing in life sciences “ held at Pondicherry University from 27th February to 4th March 2012

Dr. Medha R.

• “Study of insulin resistance, homocysteine and lipoprotein (a) levels in South Indian obese and non-obese male subjects” (Award paper-Oral presentation) presented at the 24th Annual National Conference of Indian Society for Atherosclerosis Research and International Symposium/CME on Atherosclerosis, JIPMER, Puducherry; 24th to 25th September 2011

• “Study of serum sialic acid levels in South Indian obese and non-obese male subjects” (Free paper-Oral presentation) presented at the 24th Annual National Conference of Indian Society for Atherosclerosis Research and International Symposium/CME on Atherosclerosis, JIPMER, Puducherry; 24th to 25th September 2011

• “Oxidative stress index and high sensitivity C-reactive protein levels (hs-CRP) in South Indian non-diabetic and normotensive obese and non-obese male subjects” (Free paper-poster presentation) presented at the 38th National Conference of...
Association of Clinical Biochemists of India (ACBICON-2011), Gwalior; 2nd to 6th December 2011

- “Platelet oxidative stress in patients with chronic urticaria” (Free paper-poster presentation) presented at the 11th Annual Conference of Society for Free Radical Research-India (SFRR-2012) and International Conference on Emerging Trends in Free Radicals, Antioxidants and Neutrateculicals on Health, Disease and Radiation Biology, Kolkata, 12th-14th January 2012

Dr. H. Nandeesh

- “Study of insulin resistance, homocysteine and lipoprotein (a) levels in South Indian obese and non-obese male subjects” (Award paper-Oral presentation) presented at the 24th Annual National Conference of Indian Society for Atherosclerosis Research and International Symposium/CME on Atherosclerosis, JIPMER, Puducherry; 24th to 25th September 2011
- “Study of serum sialic acid levels in South Indian obese and non-obese male subjects” (Free paper-Oral presentation) presented at the 24th Annual National Conference of Indian Society for Atherosclerosis Research and International Symposium / CME on Atherosclerosis, JIPMER, Puducherry; 24th to 25th September 2011
- Oxidative stress index and high sensitivity C-reactive protein levels (hs-CRP) in South Indian non-diabetic and normotensive obese and non-obese male subjects” (Free paper-poster presentation” presented at the 38th National Conference of Association of Clinical Biochemists of India (ACBICON-2011), Gwalior; 2nd to 6th December 2011.
- “Protein bound sialic acid, C-reactive protein and atherogenic lipid indices in first degree relatives of type 2 diabetes subjects” at 19th Annual Conference of The Association of Medical Biochemists of India, AMBITRY 2011, Tiruchirapalli, 15th to 18th December 2011

Dr. G. P. Senthil Kumar

- Participated in the National training on “Modernizing medical training: Replacing animals in MBBS program” held on 17th January 2012 at JIPMER, Puducherry.

Delivered an invited talk on “Effect of Terminalia chebula on hepatic key enzymes of carbohydrate metabolism in streptozotocin induced Diabetic rats” at UGC sponsored National seminar on “Current status and future prospects of Plant Therapeutics and Phyto Medicine (PTPM2012)” at Periyar University, Salem, 13th and 14th February 2012.

Postgraduate/PhD students

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

- National seminar on “Research design, sampling and basic steps involved in project formulation”, at JIPMER, Puducherry, on 17th September 2011.
- National Seminar on current trends in Genomics & Proteomics, Pondicherry University, 21st to 23rd September 2011.
- 24th Annual National Conference of Indian Society for Atherosclerosis Research and International Symposium/CME on Atherosclerosis, JIPMER, Puducherry; 24th to 25th September 2011
• 19th Annual Conference of The Association of Medical Biochemists of India, AMBITRY 2011, Tiruchirapalli, 15th to 18th Dec 2011.
• Winter Symposium titled Cellular and Molecular Medicine: Cancer, Stem Cells & Inflammation held at Christian Medical College, Vellore from 5th to 7th January 2012.
• 11th Annual Conference of Society for Free Radical Research-India (SFRR-2012) and International Conference on Emerging Trends in Free Radicals, Antioxidants and Neutraceuticals on Health, Disease and Radiation Biology, Kolkata, 12th to 14th January 2012
• ICMR sponsored workshop on “Polymerase Chain Reaction & Blotting Techniques for clinical applications” at Raja Muthiah Medical College, Annamalainagar on 21st to 22nd January 2012.
• CME programme on “inherited Disorders of Metabolism in Neonates” held at Mahatma Gandhi Medical College & Research Institute, Puducherry on 24th January 2012.

RESEARCH PROJECTS
A. Funded Projects
Completed
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.

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 (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 (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
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

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

Ongoing
Dr. P. H. Ananthanarayanan
- The role of NGAL level in predicting outcomes of patients with acute kidney injury requiring dialysis. Funded by JIPMER (2011-12). Rs.25,000
- Adiponectin, IL-6, Leptin levels and metabolic syndrome in patients with prostate cancer. Funded by JIPMER (2011-13) Funds: Rs.1,00,000.

Dr. M. G. Sridhar
- Adiponectin, Resistin, IL-6 levels and insulin resistance in men with acute coronary syndrome Funded by JIPMER (2011-13) Funds: Rs.1,00,000
- Molecular Basis of the effects of Garcinia cambogia extracts on obesity and insulin sensitivity in diet induced obese and insulin resistant animal models Funded by JIPMER (2011-12) Funds: Rs.50,000
- Adiponectin and Oxidative stress levels in type 2 diabetics on oral hypoglycemic drugs. Funded by JIPMER (2011-12) Funds: Rs.25,000
- Role of a composite panel of serum tumour markers in the diagnosis of Endometrial carcinoma. Funded by JIPMER (2011-12) Funds: Rs.1,00,000
- Molecular effects of curcumin on Insulin Resistance and its associated complications in Type 2 Diabetes and Obesity. Funded by JIPMER (2011-13) Funds: Rs.1,00,000

Dr. Zachariah Bobby
- Molecular basis of insulin resistance and its associated complications in an experimental model of postmenopausal obesity Funded by JIPMER (2011-12) Funds: Rs.2,00,000.
- Atherosclerotic risk factors among first degree relative of ischemic stroke patients - Funded by JIPMER (2010 – 2012) Funds: Rs.1,00,000.
- Oxidative stress, protein glycation and thyroid function in adult patients with nephrotic syndrome and after remission Funded by JIPMER (2011 – 2012) Funds: Rs.25,000
- Effect of high dose water soluble vitamin supplementation on insulin resistance, oxidative stress, Homocysteine and thyroid function in subclinical Hypothyroidism: A randomized controlled study Funded by JIPMER (2011 – 2013) Funds: Rs.1,00,000
- Molecular basis of insulin resistance and its complications in coexisting type 2 diabetes and Hypothyroidism Funded by JIPMER (2011 – 2012) Funds: Rs. 50,000.

Dr. R. Soundravally

- 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.
- Melatonin and parathormone levels in subjects with gestational glucose intolerance and their association with newborn anthropometry Funded by JIPMER (2011-2013) Funds: Rs.1,00,000.
- Circulating levels of acute phase proteins as prognostic markers of severe dengue disease(2011 – 2012). Funds: Rs.25,000
- Thyroid profile and its association with newborn anthropometry in the Subjects with gestational glucose intolerance (2011–2012). Funds: Rs.25,000.

Dr. Medha R.

- IL-2 and IL-4 gene polymorphisms in psoriasis vulgaris in South Indian population. Funded by JIPMER (2011-13). Funds: Rs.2,00,625
- HLA-Cw6 in psoriasis vulgaris in South Indian population. Funded by JIPMER (2011-12). Funds: Rs.50,000
- Leptin, adiponectin, prolactin levels and insulin resistance in patients with psoriasis vulgaris. Funded by JIPMER (2011-12). Funds: Rs.25,000

Dr. H. Nandeesha

- Assessment of Carbohydrate deficient Transferrin, Pentraxin-3 and Procollagen III peptide in cirrhosis and its association with disease severity Funded by JIPMER (2011-13). Funds: Rs.2,00,000
- Assessment of serum iron indices and C-reactive protein in patients with Alcoholic liver disease Funded by JIPMER (2011-12). 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.
- Effect of S-methyl-L-Cysteine on oxidative stress and insulin Resistance in male wistar rats fed with High fructose diet. Funded by JIPMER (2011-12) Funds: Rs 25,000
- Effect on Garlic crude extract (Allium Sativum) on free radical defense system and insulin Resistance in male wistar rats fed with High fructose diet. Funded by JIPMER (2011-12) Funds: Rs 25,000.
B. Departmental Projects

**Completed**

Dr. P. H. Ananthanarayanan

- Total Sialic acid, Lipid Associated Sialic acid in patients with Ischemic and Non Ischemic Heart Failure.
- A study of thyroid profile in children with nephrotic syndrome
- 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.

Dr. M. G. Sridhar

- Comparison of serum Cystatin C and Creatinine with Te\textsuperscript{99m} 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.

Dr. Zachariah Bobby

- Effect of high dose water soluble vitamin supplementation on insulin resistance, oxidative stress and homocysteine in prehypertension: A Randomized controlled study.

Dr. R. Soundravally

- Evaluation of blood levels of vitamin B\textsubscript{6}, Brain Derived Neurotrophic Factor (BDNF) and Serotonin during Postpartum Maternal Depression.
- Relationship between hormonal fluctuations and maternal depression during postpartum.
- Sensitivity and Specificity of CA-125 in delineating Benign and Malignant Ovarian Tumors.

Dr. Medha R.

- Evaluation of platelet activation based on platelet indices, soluble P-selectin and platelet oxidative stress in chronic urticaria.
- Inflammatory response and oxidative stress in patients with rheumatic mitral stenosis with left atrial thrombus.
- Pro-coagulant state and platelet aggregability in patients with rheumatic mitral stenosis with left atrial thrombus.

**Ongoing**

Dr. P. H. Ananthanarayanan

- A study on the effects of vitamin D and calcium supplementation inside effects profile in patients of breast cancer treated with letrozole
- Immunogenetics of psoriasis vulgaris in South Indian population
• Biomarkers of atherothrombosis, inflammation, endothelial dysfunction, insulin resistance, oxidative stress and associated cardiovascular risk in patients with psoriasis in South Indian population
• The role of NGAL level in predicting outcomes of patients with acute kidney injury requiring dialysis.
• Adiponectin, IL-6, Leptin levels and metabolic syndrome in patients with prostate cancer.
• Comparison of national and international guidelines in the diagnosis of gestational dysglycemia.
• Assessment of Carbohydrate deficient Transferrin, Pentraxin-3 and Procollagen III peptide in cirrhosis and its association with disease severity.

Dr. M. G. Sridhar
• Adiponectin , Resistin, IL-6 levels and insulin resistance in men with acute coronary syndrome.
• Molecular Basis of the effects of Garcinia cambogia extracts on obesity and insulin sensitivity in diet induced obese and insulin resistant animal models.
• Adiponectin and Oxidative stress levels in type 2 diabetics on oral hypoglycemic drugs.
• 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.

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
• Circulating levels of Interleukin -17 and nitric oxide in patients with dengue infection and their association with platelet function.
• Assessment of DNA damage and total oxidant-antioxidant status in dengue/DHF patients for prognosis.
• Evaluation of serum Activin-B, IL-6 and IL-8 as possible diagnostic markers for early ectopic pregnancy.
• Evaluation of circulating fibrinogen and total sialic acid as markers of abstinence in alcohol dependent males.
• Comparison of national and international guidelines in the diagnosis of gestational dysglycemia.
• Melatonin and parathormone levels in subjects with gestational glucose intolerance and their association with newborn anthropometry.
• Circulating levels of acute phase proteins as prognostic markers of severe dengue disease.
• Thyroid profile and its association with newborn anthropometry in the subjects with gestational glucose intolerance.

Dr. Medha R.
• Immunogenetics of psoriasis vulgaris in South Indian population
• Biomarkers of cardiovascular risk and associated gene polymorphisms in patients with psoriasis in South Indian population
• Leptin, adiponectin, prolactin levels and insulin resistance in patients with psoriasis vulgaris
• Study of genetic factors involved in the pathogenesis of psoriasis vulgaris
• Biomarkers of atherothrombosis, inflammation, endothelial dysfunction, insulin resistance, oxidative stress and associated cardiovascular risk in patients with psoriasis in South Indian population
• Assessment of Carbohydrate deficient Transferrin, Pentraxin-3 and Procollagen III peptide in cirrhosis and its association with disease severity.
• Adiponectin, resistin, IL-6 levels and insulin resistance in men with acute coronary syndrome

Dr. H. Nandeesha
• Assessment of Carbohydrate deficient Transferrin, Pentraxin-3 and Procollagen III peptide in cirrhosis and its association with disease severity.
• Assessment of serum iron indices and C-reactive protein in patients with Alcoholic liver disease.

Dr. G. P. Senthil Kumar
• Evaluation of serum Activin-B, IL-6 and IL-8 as possible diagnostic markers for early ectopic pregnancy.
• Effect of S-methyl-L-Cysteine on oxidative stress and insulin Resistance in male wistar rats fed with High fructose diet. Funded by JIPMER (2011-12) Funds : (Rs 25,000).
• Effect on Garlic crude extract (Allium Sativum) on free radical defense system and insulin Resistance in male wistar rats fed with High fructose diet. Funded by JIPMER (2011-12) Funds: (Rs 25,000).
C. Collaborative Projects

Completed

Dr. P. H. Ananthanarayanan
- Gender difference in the role of ventromedial hypothalamus in high fat diet-induced and sucrose-induced obesity in albino rats of wistar strain : correlation with lipid profile, thyroid profile and insulin resistance (with Department 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 Department of Physiology, JIPMER).
- Effect of yoga therapy on patients of type 2 diabetes mellitus with neuropathy (with Department of Physiology, JIPMER).

Dr. M. G. Sridhar
- Serum homocysteine levels in late first trimester of pregnancy: correlation with maternal and fetal outcome (with Department of Obstetrics & Gynaecology, JIPMER)
- Study of insulin resistance and metabolic abnormalities in adolescence and young women with polycystic ovarian syndrome (with Department 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 Department of Pharmacology, JIPMER)
- Effect of CYP3A5 and P2Y12 genetic polymorphisms on platelet aggregation in patients on treatment with clopidogrel (with Department of Pharmacology, JIPMER)

Dr. Zachariah Bobby
- Association between nonalcoholic fatty liver disease and components of metabolic syndrome with special reference to oxidative stress (with Department of Medicine, JIPMER).
- Comparative study of components of metabolic syndrome in drug-naïve persons with schizophrenia and their first degree relatives (with Department of Psychiatry, JIPMER).
- 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 Department of Physiology, JIPMER).
- Effect of therapeutic hypothermia on oxidative stress parameters in term babies with perinatal asphyxia (with the Department of Pediatrics).

Ongoing

Dr. P. H. Ananthanarayanan
- Assessment of the role of sympathetic markers in the prediction and prevention of essential hypertension (with Department of Physiology, JIPMER)
• Effect of yoga therapy on autonomic function and biochemical profile of patients of essential hypertension (with Department 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 Department of Physiology, JIPMER)

• Incidence of diabetes mellitus in rural Pondicherry (with Department of Preventive and Social Medicine, JIPMER)

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

• Comparison of standard and low pressure pneumoperitoneum in laparoscopic cholecystectomy-a prospective double blinded randomized control study (with Department 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 Department of Dermatology, JIPMER)

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

• Association of Herpes simplex virus, Cytomegalovirus and Staphylococcus aureus in patients with pemphigus and their contribution to glucocorticoid resistance (with Depts. of Dermatology, Pathology and Microbiology, JIPMER)

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

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

• Cytokine profile in pancreatic ductal fluid in Indian patients with chronic pancreatitis (with Depts. of Medical Gastroenterology and Surgical Gastroenterology, JIPMER)

Dr. M. G. Sridhar

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

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

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

• Effect of DNA damage in type 1 diabetic patients by sister chromatid exchange (with Department of Anatomy, JIPMER)
• Assessment of DNA damage by COMET assay in neonatal jaundice-pre and post therapy (with Department 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 Department of Anatomy, JIPMER)

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

Dr. Zachariah Bobby

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

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

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

• Endothelial functions and sympathovagal balance in relation to cardiac abnormalities in graves' Disease (with the Department of Cardiology)

• Effect of thyroxine on endothelial function and cardiac manifestations in women with subclinical hypothyroidism (with the Department of Endocrinology).

Dr. R. Soundravally

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

• Pro-calcitonin guided antibiotic therapy in pediatric intensive care unit patients: randomized control trial. (With Department of Pediatrics, JIPMER).

• Distribution of ACE gene polymorphism and its association with severity of nephropathy in Type 2 diabetic individuals in a tertiary care center in South India. (With Department of Medicine, JIPMER).

• Bone health in middle aged and elderly men- a hospital based study (With Department of Medicine, JIPMER).

• Oxidative stress and inflammatory markers in pregnant women with risk factors for pregnancy induced hypertension: Correlation with sympathovagal imbalance. (With Department of Physiology, JIPMER).
Prediction of development of hypertension during pregnancy by second trimester lipid profile. (With Department of Obstetrics and Gynecology, 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 Department of Dermatology, JIPMER)

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

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

- Association of Herpes simplex virus, Cytomegalovirus and Staphylococcus aureus in patients with pemphigus and their contribution to glucocorticoid resistance (with Depts. of Dermatology, Pathology and Microbiology, JIPMER)

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

- Role of iron deficiency in diffuse hair loss (female pattern hair loss and chronic telogen effluvium) in women (with Department of Dermatology, JIPMER)

- Ovarian reserve in women undergoing ovulation induction with clomiphene citrate (with Department of Obstetrics and Gynecology, JIPMER)

- Cytokine profile in pancreatic ductal fluid in Indian patients with chronic pancreatitis (with Depts. of Medical Gastroenterology and Surgical Gastroenterology, JIPMER)

PUBLICATIONS

A. Journals


2. Bobby Z, Radhika MR, Nandeesha H, Balasubramanian A, Singh Prerna, Nimesh Archana, Thippeswamy DN. Formulation of multiple choice questions as revision exercise at the end of a teaching module in Biochemistry. BAMBED (In press)


B. Books

1. Faculty and Residents of the department, JIPMER contributed in revising “Practical Manual in Biochemistry”, for the undergraduate and postgraduate students in Biochemistry.
PATIENT CARE SERVICES
Laboratory Investigations in the department of Biochemistry from 01.04.2011 to 31.03.2012:

I. Clinical Biochemistry 15,05,571
II. Emergency Medical Services 3,35,761
III. SSB (ELISA, RIA, Chemiluminescence) 55,592
IV. Special Investigations 10,681
Grand Total 19,07,605

I. CLINICAL BIOCHEMISTRY :

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<td>Urea</td>
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<td>55117</td>
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<td>Creatinine</td>
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<td>44823</td>
<td>32639</td>
<td>126410</td>
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<tr>
<td>4.</td>
<td>Calcium (Total)</td>
<td>13491</td>
<td>9650</td>
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<td>29023</td>
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<td>5.</td>
<td>Phosphorus</td>
<td>8079</td>
<td>8831</td>
<td>1833</td>
<td>18743</td>
</tr>
<tr>
<td>6.</td>
<td>Uric acid</td>
<td>7908</td>
<td>9295</td>
<td>1769</td>
<td>18972</td>
</tr>
<tr>
<td>7.</td>
<td>Total Cholesterol</td>
<td>16922</td>
<td>12758</td>
<td>-</td>
<td>29680</td>
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<tr>
<td>8.</td>
<td>Triglycerides</td>
<td>16671</td>
<td>12753</td>
<td>-</td>
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<tr>
<td>9.</td>
<td>HDL Cholesterol</td>
<td>15173</td>
<td>11555</td>
<td>-</td>
<td>26728</td>
</tr>
<tr>
<td>10.</td>
<td>LDL Cholesterol</td>
<td>15173</td>
<td>11555</td>
<td>-</td>
<td>26728</td>
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<td>11.</td>
<td>VLDL Cholesterol</td>
<td>16671</td>
<td>12753</td>
<td>-</td>
<td>29424</td>
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<tr>
<td>12.</td>
<td>Total Protein</td>
<td>26304</td>
<td>21218</td>
<td>7731</td>
<td>55253</td>
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<tr>
<td>13.</td>
<td>Albumin</td>
<td>26304</td>
<td>21218</td>
<td>7731</td>
<td>55253</td>
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<tr>
<td>14.</td>
<td>Globulin</td>
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<td>21218</td>
<td>7721</td>
<td>55253</td>
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<tr>
<td>15.</td>
<td>Bilirubin-Total</td>
<td>26526</td>
<td>31796</td>
<td>12319</td>
<td>70641</td>
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<tr>
<td>16.</td>
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<td>26047</td>
<td>12079</td>
<td>58485</td>
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<tr>
<td>17.</td>
<td>Bilirubin-Unconjugated</td>
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<td>26047</td>
<td>12079</td>
<td>58485</td>
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<tr>
<td>18.</td>
<td>AST</td>
<td>23639</td>
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<td>50660</td>
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<td>19.</td>
<td>ALT</td>
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<td>22302</td>
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<td>Sl. No.</td>
<td>Name of the Investigation</td>
<td>No. of Samples</td>
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<td>ALP</td>
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<td>GGT</td>
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<td>4337</td>
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<td>22.</td>
<td>Amylase</td>
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<td>1956</td>
<td>1571</td>
<td>5635</td>
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<td>2681</td>
<td>1388</td>
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<td>CK-MB</td>
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<td>1349</td>
<td>4656</td>
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<td>25.</td>
<td>PT</td>
<td>4554</td>
<td>9682</td>
<td>4286</td>
<td>18522</td>
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<tr>
<td>26.</td>
<td>INR</td>
<td>4554</td>
<td>9682</td>
<td>4286</td>
<td>18522</td>
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<tr>
<td>27.</td>
<td>Na⁺</td>
<td>1850</td>
<td>43432</td>
<td>33535</td>
<td>78817</td>
</tr>
<tr>
<td>28.</td>
<td>K⁺</td>
<td>1850</td>
<td>43432</td>
<td>33535</td>
<td>78817</td>
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<tr>
<td>29.</td>
<td>Cl⁻</td>
<td>1850</td>
<td>43432</td>
<td>33535</td>
<td>78817</td>
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<tr>
<td>30.</td>
<td>Mg²⁺</td>
<td>367</td>
<td>645</td>
<td>-</td>
<td>1012</td>
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<tr>
<td>31.</td>
<td>Lithium</td>
<td>357</td>
<td>260</td>
<td>-</td>
<td>617</td>
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<tr>
<td>32.</td>
<td>Fluids (CSF, other fluids etc)</td>
<td>-</td>
<td>1834</td>
<td>1985</td>
<td>3819</td>
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<tr>
<td>33.</td>
<td>Urinalysis</td>
<td>-</td>
<td>6499</td>
<td>-</td>
<td>6499</td>
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<tr>
<td></td>
<td>TOTAL</td>
<td>553215</td>
<td>637455</td>
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II. EMERGENCY MEDICAL SERVICES (EMS)

<table>
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<tr>
<th>Sl.No</th>
<th>Name of the Investigation</th>
<th>No. of Samples</th>
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<tbody>
<tr>
<td>1</td>
<td>Blood Glucose</td>
<td>44291</td>
</tr>
<tr>
<td>2</td>
<td>Blood Urea</td>
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<tr>
<td>3</td>
<td>Serum Amylase</td>
<td>2324</td>
</tr>
<tr>
<td>4</td>
<td>Serum Creatinine</td>
<td>44328</td>
</tr>
<tr>
<td>5</td>
<td>Ionized Calcium</td>
<td>1113</td>
</tr>
<tr>
<td>6</td>
<td>Ionized Magnesium</td>
<td>1023</td>
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<tr>
<td>7</td>
<td>Electrolyte Sodium</td>
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<tr>
<td>8</td>
<td>Electrolyte Potassium</td>
<td>44213</td>
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<tr>
<td>9</td>
<td>Creatine Kinase Direct</td>
<td>4448</td>
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<tr>
<td>10</td>
<td>Creatine Kinase Total</td>
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<td>Bilirubin Total</td>
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<tr>
<td>12</td>
<td>Bilirubin Direct</td>
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</tr>
<tr>
<td>13</td>
<td>SGOT (AST)</td>
<td>12272</td>
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<tr>
<td>14</td>
<td>SGPT (ALT)</td>
<td>13467</td>
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<tr>
<td>15</td>
<td>Troponin I - Card Test</td>
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<tr>
<td>16</td>
<td>Blood Gas Analysis</td>
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<td>17</td>
<td>Haemoglobin Estimation</td>
<td>12309</td>
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<tr>
<td>18</td>
<td>Packed cell volume (PVC)</td>
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<tr>
<td>19</td>
<td>Serum ALP</td>
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<td>Total Protein</td>
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<td>21</td>
<td>Troponin T - Card Test</td>
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<tr>
<td>22</td>
<td>Serum Chloride</td>
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### III. SUPER SPECIALTY BLOCK (SSB) (ELISA, RIA, CHEMILUMINESCENCE, FACS)

<table>
<thead>
<tr>
<th>Sl.No</th>
<th>Test</th>
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<tr>
<td>1.</td>
<td>Plasma Homocysteine</td>
<td>374</td>
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<tr>
<td>2.</td>
<td>Serum Vitamin B12</td>
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<tr>
<td>3.</td>
<td>Serum Folic Acid</td>
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<tr>
<td>4.</td>
<td>Serum Total Iron</td>
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</tr>
<tr>
<td>5.</td>
<td>Serum Ferritin</td>
<td>1029</td>
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<tr>
<td></td>
<td><strong>Hormones</strong></td>
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<tr>
<td>6.</td>
<td>Serum Free T3 (FT3)</td>
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<tr>
<td>7.</td>
<td>Serum Free T4 (FT4)</td>
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<td>8.</td>
<td>Serum Thyroid stimulating hormone (TSH)</td>
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<td>9.</td>
<td>Serum LH</td>
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<tr>
<td>10.</td>
<td>Serum FSH</td>
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<td>Serum Prolactin</td>
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<tr>
<td>12.</td>
<td>Serum Cortisol</td>
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<tr>
<td>13.</td>
<td>Serum GH</td>
<td>1186</td>
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<tr>
<td>14.</td>
<td>Serum Testosterone</td>
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<td>Serum Estradiol</td>
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<td>Serum Progesterone</td>
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<td>Serum Total hCG</td>
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<td>Serum intact PTH</td>
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<td><strong>Tumour Markers</strong></td>
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<td>19.</td>
<td>Serum Alpha feto protein</td>
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<td>20.</td>
<td>Serum carcinoembryonic antigen (CEA)</td>
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<tr>
<td>21.</td>
<td>Serum CA – 125</td>
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<tr>
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<td>Serum PSA</td>
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<td><strong>Human Leukocyte Antigen</strong></td>
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**IV. SPECIAL INVESTIGATIONS**

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<th>Sl. No</th>
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<tr>
<td>1.</td>
<td>Serum LDH</td>
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<td>2.</td>
<td>Serum ceruloplasmin</td>
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<td>3.</td>
<td>Serum protein electrophoresis</td>
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<td>4.</td>
<td>Plasma fibrinogen</td>
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<td>5.</td>
<td>Stone analysis (Gall stone + Renal stone)</td>
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<td>6.</td>
<td>Paper chromatography</td>
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<td>7.</td>
<td>Platelet aggregation</td>
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<td>8.</td>
<td>Glycated hemoglobin</td>
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<td>Sweat chloride</td>
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<td>Adenosine deaminase</td>
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<td>11.</td>
<td>24 hour urinary protein</td>
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<td>Urinary micro albumin</td>
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<td>Urine BJP</td>
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<td>Urine PH</td>
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<tr>
<td>15.</td>
<td>Urine protein creatinine ratio</td>
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<td>16.</td>
<td>Urine haemoglobin</td>
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<td>17.</td>
<td>Urine myoglobin</td>
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<td>18.</td>
<td>Urine osmolality</td>
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<td>19.</td>
<td>Urine specific gravity</td>
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<td>20.</td>
<td>Urine aminoacid</td>
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<td>21.</td>
<td>Urine reducing sugars</td>
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<td>22.</td>
<td>Urine cetrimide test</td>
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<td>23.</td>
<td>Urine urobilinogens</td>
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<td>24.</td>
<td>Urine porphobilinogens</td>
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<td>25.</td>
<td>Urine ketones</td>
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<td>26.</td>
<td>Urine ferric chloride test for PKU</td>
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<td>27.</td>
<td>Urine bile salt and bile pigments</td>
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<td><strong>TOTAL</strong></td>
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AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr. P.H. Ananthanarayanan
- Member of Institute Stores Articles Purchase Committee
- Member of institute Diet Committee
- Member for Editorial Board for preparing JIPMER Annual Report for 2010-2011
- Member of AIS/HIS/CRAFT Advisory Committee
- Member for Institute Grievance Redressal Committee
- Chairman, Anti-ragging Committee, JIPMER
- Member of Scientific Advisory Committee for Ministry of Environment and Forests, Government of India
- Member of Selection Committee of JIPMER
- 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
- Resource person for Interns' and Postgraduate Orientation Programmes
- UG and PG Examiner, JIPMER
- Reviewer of Indian Journal of Public Health

Dr. M. G. Sridhar
- Member of Institute Advisory Committee for establishing “Multidisciplinary Advanced Research Centre
- Member of Institute Subcommittee on Estate matters
- Member of Institute Committee on Campus development
- Member of Library Committee
- Member Administrative Information Services
- Advisory Committee Member of 12th Five Year Plan Committee
- Examination Committee Member
- Member of Committee to establish Central Patient Care Laboratories in JIPMER
- Member of Institute Human Ethics Committee
- Member of Vidyalaya Management Committee, Kendriya Vidyalaya No.1, JIPMER Campus
- Chief Coordinator, BSc Allied Medical Sciences’ Courses
- Coordinator for Post BSc, MLT Internship Programme
- Chief Nodal Officer for Lab. Attendants’ Skill Training
- Acting Officer I/C Purchase Section
- Professor I/C Super Specialty Block Biochemistry laboratory
• Professor I/C Super Specialty Block Common Collection Centre
• Professor I/C Regional Cancer Centre Common Collection Centre
• Member, Coordinator and Assessor of Medical Council of India
• Medical College Inspector of Pondicherry University
• Technical evaluation Team Member, Prime Minister’s Swasthya Suraksha Yojana (PMSSY)
• UG/PG Examiner in JIPMER
• UG Examiner in NEIGRIHMS, Shillong
• PG Examiner for Puducherry University, B.P. Koirala Institute of Health Sciences, Dharan, Nepal. The Tamil Nadu Dr. M G R Medical University, Chennai & Rajiv Gandhi University of Health Sciences, Karnataka
• PhD thesis examiner for Sree Chitra Tirunal Institute for Medical Sciences & Technology (SCTIMST), Thiruvananthapuram
• Member of National Academy of Medical Sciences
• Forum for Ethics Research Committees in India (FERCI)
• Member, Cytometry Society of India & Association of Medical Biochemists of India

Dr. Zachariah Bobby
• Member of the Selection Committees for the recruitment of Junior Research Fellows at Puducherry University for the Extramural and University funded projects
• Member of doctoral committees for the Ph.D candidates in Anatomy and Biochemistry at JIPMER
• Member of review board of the Journals, Clinical Chemistry and Laboratory Medicine and Clinica Chimica Acta.
• Dr. Zachariah Bobby, Assistant Professor of Biochemistry won the ‘Best Paper Award’ at MEDUCON 2011 held at JIPMER, Puducherry on 1st and 2nd October 2011 for the paper titled “Learning Biochemistry by Correcting Errors”.

Dr. R. Soundravally
• Nodal Officer for Lab. Attendants’ Skill Training in biochemistry
• Resource person for Interns Orientation Programmes
• Member of Reception Committee, 24th Annual National Conference of Indian Society for Atherosclerosis Research and International Symposium/CME on Atherosclerosis 2011 (ISARCON-2011)
• UG (MBBS, BSc (MLT)/PG Examiner (MSc Medical Biochemistry), JIPMER
• 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 of Reception Committee, JIPMER Annual Convocation 2011
- Member of Accommodation, Transport and Tours Committee, 24th Annual National Conference of Indian Society for Atherosclerosis Research and International Symposium/CME on Atherosclerosis 2011 (ISARCON-2011), JIPMER
- UG Examiner (MBBS), Tamil Nadu Dr. M G R Medical University, Chennai
- PG Examiner (MSc Medical Biochemistry), JIPMER
- Member of 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

Dr. H. Nandeesha

- Member of Flow Cytometry Society, Member of Association of Medical Biochemists of India.

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. P.H. Ananthanarayanan

- Director's Nominee for Kendriya Vidyalaya Teacher Selections, June 2011, Pondicherry.
- Member of UG / PG Admission Committee, 2011, JIPMER
- Member of institute Stores Articles Purchase Committee, JIPMER
- Member of Diet Committee, JIPMER
- Attended the PAC / RRC meeting, JIPMER, 17th June, 2011
- Member for Editorial Board for preparing JIPMER Annual Report for 2010-2011.
- Attended combined review meeting of AIS/HIS/CRAFT Advisory Committee meeting, JIPMER, 11th October 2011.
- Member for Grievance Redressal Committee, JIPMER
- Attended the Specification Committee meeting for PACS, JIPMER, 30th and 31st January 2012.
- Director's Nominee for scrutinizing the application for the post of Medical Officers, JIPMER, 14th February, 2012.

Dr. M. G. Sridhar

- Meeting of Faculty from Mentoring Institutes for six AIIMS like Institutions, Jt. Secretary, Ministry of Health and FW, GOI, New Delhi, June 2011
- Member of the Committee to prevent wastage of Medical seats in Medical Colleges in India- Director-General of Health Services, Ministry of Health and FW, GOI, New Delhi
- Doctoral Committee member for Department of Biochemistry and Molecular Biology, Pondicherry University, 6th Oct 2011
- Committee member for setting up of Multidisciplinary Advanced Research Centre, JIPMER. 3rd and 4th Oct 2011, Bangalore
- Member of technical Evaluation Committee of PMSSY, Ministry Of Health and Family Welfare, GOI, New Delhi. 8th Dec 2011, NOIDA.
- Director’s Nominee for Kendriya Vidyalaya Teacher Selections, Pondicherry 26th -29th Mar 2012

Dr. Zachariah Bobby
- Member of Ph.D Studies Committee, JIPMER.
- Member of Research Monitoring Committee, JIPMER.
- Member of review board of the Journals, Clinical Chemistry and Laboratory Medicine and Clinical and Experimental Hypertension.
- Participated as one of the Selection Committee Members (Expert Member) for the selection of senior research fellow under DST project at VCRC, Puducherry on 13th February 2012.
- Participated as one of the Selection Committee Members (Expert Member) for the selection of senior research fellow under project at the Department of Microbiology, JIPMER, Puducherry on 27th February 2012.
- Participated as one of the Selection Committee Members (Expert Member) for the selection of senior research fellow under DST project at VCRC, Puducherry on 28th February 2012.

Dr. G. P. Senthil Kumar
- Ph.D., viva voce Examiner for Department of Biochemistry, University of Madras, Guindy Campus, 19th August 2011.

SIGNIFICANT EVENTS IN THE DEPARTMENT

Dr. Zachariah Bobby
- Developed following novel method of revision exercise for the first year M.B.B.S students: “Formulation of multiple choice questions as a revision exercise at the end of a teaching module in Biochemistry”.

Following MBBS students participated in the Inter-college Biochemistry quiz (MedBioQuest) competition organized by the Puducherry chapter of the Association of Medical Biochemists of India (AMBI) at Sri Manakula Vinayagar Medical College, Puducherry on 24th March, 2012 and secured fifth place.

1. Ms. Susrutha P Narayanan ... Fifth Prize
2. Mr. Jithin Mathew ... Fifth Prize

The following M.D. (Postgraduate) students participated in the 19th Annual Conference of The Association of Medical Biochemists of India, AMBITRY 2011, Thiruchirapalli on 17 December 2011 and secured first prize in the Quiz during the conference:

1. Dr. Kavitha M ... First Prize
2. Dr. K.Srilatha ... First Prize
**8.4 Cardiology**

**Professor & Head**
J. Balachander

**Associate Professor**
Santhosh Satheesh

**Assistant Professors**
Ajith. A
Raja Jaisundar Selvaraj
P. Gobu

**BACKGROUND INFORMATION OF THE DEPARTMENT**
Department of Cardiology, JIPMER was established as an independent department on 18th April 1987. Cardiac catheterization, angiography and interventions started in October 1987 using a Mobile C arm. First Cardiac Cath Lab was established in January 1995. Colour Doppler Echocardiography and Trans Esophageal Echocardiography started in September 1995. DM (Cardiology) course was started in 2002. Cardiac Electrophysiology and Radiofrequency ablation was started in 1997. In March 2009 the department shifted to the new Super Specialty Block. Currently there are three state of the art Cath Labs, six advanced echocardiography machines including one 3D, three tread mill machines, five Holter systems, and three electrophysiology and radiofrequency ablation systems. Electroanatomic 3D Mapping (CARTO) for complex cardiac arrhythmia therapy was initiated in 2012. All 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 - 4 candidates per year

**CONTINUING MEDICAL EDUCATION PROGRAMS**

**Dr. J. Balachander**
- Chair Person Meeting : Lipid Control Beyond statins Dr. Chenniappan, Anandha Inn, Puducherry 16.04.11
- Course Director ICE Congenital Heart Disease Device Closure Workshop 9,10 Sept 2011
- CME New Horizons in Pacemakers, PIMS, Puducherry 17.09.11
- Chairperson Cardiology Club Meeting, Anandha Inn, Puducherry 08.10.11
- 63rd Annual Conference of the CSI, NCPA Complex, Nariman Point, Mumbai Lecture-“Ingenous low cost devices. Do they match up?” Symposium aligning with the Country’s need 8.12.11 to 11.12.11
- Course Chairman CARDINT 2011: AGP Hospital Puducherry: 18/12/2010
- Invited National Faculty – The Chennai Pediatric Electrophysiology Symposium TCPES 2012 07.01.12 to 08.01.12
- India live at New Delhi, National Faculty and Chair person : Controversies in Management24.02.12 to 26.02.12
- Course Director - IFRIC 2012 Third Indo-French Radial Intervention Course OCT-IVUS-FFR 2011 on 28th Feb -2nd Mach 2012 at JIPMER.

Dr. Santhosh Satheesh

- Observership on Optical Coherence Tomography and Percutaneous Ventricular Assist Device Therapy at Lariboisiere Hospital, Paris May 2011
- Observership on Percutaneous Aortic Valve Implant at Department of Cardiology Kings College Hospital, London, United Kingdom October 2011
- Faculty , Invited Lecture “Atherosclerosis- an indolent tumor of the blood vessel ?” Vascular Biology Consortium, Anna University- KBC Research Centre, Chennai 18 April 2011
- National Faculty and Moderator for Live case Session Congenital and Peripheral Vascular Interventions Advanced Cardiovascular Therapeutics Conference 2011, at Madras Medical Mission, Chennai17 June 2011
- National Faculty and Invited Lecture: “Weight Loss Strategies in Ischemic Heart Disease” at Cardiology Update 2011 at Prime Hospitals Hyderabad 08 May 2011
- Guest Lecture: “From the Bed Side to The Bench - Unanswered Questions in Cardiovascular Science for the Nanotechnology Scientists” at Centre for Nanotechnology and Advanced Biomaterials, SASTRA University, Tanjavur16th July 2011
- Faculty and Panelist “Lesion Assessment in Intermediate coronary lesions” FFR vs IVUS vs OCT At ACVS2011- Advanced Cardiovascular Solutions –Conference at Hyderabad21st August 2011
- Organising Secretary “ICE Congenital Heart Disease Device Closure Workshop at JIPMER 9,10 Sept 2011
- Joint Organising Secretary ISARCON 2011 24th Annual Conference of Indian Society of Atherosclerosis at JIPMER 24,25 September 2011
- Faculty and Invited Lecture: “Approach to a patient with Syncope” At CARDINT 2011 at AGP Hospital, Pondicherry 18th December 2011
- National Faculty and Panelist “Radial Approach for Coronary Interventions” India Live 2012 Interventional Conference, New Delhi 26th February 2012
- Organising Secretary and Chairperson for -IFRIC 2012 Third Indo-French Radial Intervention Course OCT-ROTA-IVUS-FFR 2011 on 28th Feb -2nd Mach 2012 at JIPMER

Dr. Raja Jaisundar Selvaraj

- Faculty–Electrophysiology meet,Madras Medical Mission, Chennai-2-3 September 2011
- Proctorship for electrophysiology and ablation program at Trivandrum Medical College, Trivandrum, Kerala 18-19 Sep 2011
- Speaker - Cardiology club meeting, Pondicherry – 8 October 2011
- Proctorship for electrophysiology and ablation program at Sri Venkateswara Institute of Medical Sciences 17-18 Dec 2011
• Faculty-Annual conference of Indian Heart Rhythm Society, Bangalore - 4-5 November 2011
• Faculty - Advanced Ablation course, Max Hospitals, Delhi - 25-26 November 2011
• Faculty and Speaker - Electrophysiology meet at AGP Hospital, Pondicherry–Dec 2011
• Faculty and Chairperson - Complex Arrhythmia forum, The Medanta Medicity Hospital, Gurgaon, Delhi - 3-4 February 2012
• Faculty and Speaker - Conventional ablation program, Madras Medical Mission - 24 March, 2012
• Faculty and Speaker – Pacing school brady program, Hotel GRT Grand, Chennai - 25 March 2012

Dr. Gobu. P

• Chairperson IFRIC 2012 Fourth Indo-French Radial Intervention Course OCT ROTA-IVUS-FFR 2012 on 28th Feb -2nd March 2012 at JIPMER

CONFERENCES

Dr. J. Balachander

• 63rd Annual Conference of the CSI, NCPA Complex, Nariman Point, Mumbai 8.12.11 to 11.12.11
• The Chennai Pediatric Electrophysiology Symposium TCPES 2012 07.01.12 to 08.01.12

Dr. Santhosh Satheesh

• Euro PCR Congress, Paris France (Oral Presentation) 2011 May 17 to 20
• Effect of adding Nitroglycerin to Lignocaine on Radial Artery Diameter during Local Anesthesia for Transradial Coronary Angiogram
• PCR Valves London, United Kingdom(Oral Presentation 1) 2011 October 6 to 18
• Percutaneous balloon valvotomy for concurrent mitral, aortic and tricuspid rheumatic Stenosis
• Cardiological Society of India 63rd National Conference 2011 December 8 to 11, Mumbai Papers Presented
• Delegate in Cardiovascular Research Convergence, at AIIMS, New Delhi 17 to 18 Feb 2012
• Delegate in INDOVASC- The Endovascular Course 2012 , 23 to 25 March 2012 at Narayana Hrudayalaya Bangalore.

Dr. Ajith A

• Trans Catheter Therapeutics 2012 Meeting San Francisco, USA Nov 2011. Case presentation : Left main bifurcation stenting with Rotablation
• Delegate Pediatric Interventional Symposium-Hyderabad June 2011
• Delegate Interventional Cardiology Symposium- Bangalore Jayadeva Institute of Cardiology August 2011

Dr. Raja Jaisundar Selvaraj

• Delegate - Cardiology Society of India 2011 Annual meeting, Mumbai - 9-11 December 2011
• Delegate, Stroke Prevention in AF (SPAF) meeting, Chennai - 10 July 2012.

Dr. Gobu P

• TCTAP Seoul, Korea April 27-29 2011 and presented the following papers
  a. A Study of Restenosis Following Balloon Mitral Valvotomy in Juvenile Mitral Stenosis
  b. Comparison of Balloon Mitral Valvotomy (BMV) in Patients with Mitral Restenosis(Post BMV/Post TVMC) and Patients Undergoing BMV for the First Time
  c. Complications during Balloon Mitral Valvotomy-Analysis of 11 Years Data
• IFRIC 2012 Third Indo-French Radial Intervention Course OCT-ROTA-IVUS-FFR 2012 on 28th Feb -2nd Mach 2012 at JIPMER

RESEARCH PROJECTS

A. Funded projects

Completed

• CETP Gene Polymorphism in patients with ischemic heart disease (ICMR)
• Genetic variants of beta(1)-adrenoceptor gene polymorphisms (Ser49Gly and Arg389Gly) and essential hypertension in a south Indian Tamil population (DBT)
• eNOS gene polymorphism in patients with myocardial infarction (Department of Biotechnology)

Ongoing

• Thrombinase Trial (Malladi Pharmaceuticals)
• Ivabradine For The Prevention Of Perioperative Myocardial Ischemia - A Multicenter Randomized Controlled Trial (Department of Biotechnology)
• Global Registry Of Rheumatic Heart Disease (CANNeCTIN Population Health Research Institute, Hamilton, Canada)
B. Departmental projects

Completed

- Acute Pulmonary Embolism-presentation, management and outcomes
- Utility of left atrial angiogram during percutaneous mitral commissurotomy.
- Prevalence of Coronary artery disease in patients with rheumatic heart disease undergoing mitral valve replacement.
- Concurrent mitral, aortic and tricuspid valvuloplasties in Rheumatic heart disease patients- Acute outcome and short term follow up
- Antiplatelet resistance in patients undergoing coronary stenting.
- Long term follow-up of patients undergoing permanent pacemaker lead repair.
- Effect of Nitroglycerine in the local anesthetic infiltration on Radial Artery Diameter by vascular ultrasound imaging
- Comparison of Epicardial fat and Carotid Intima-media thickness as a predictors of coronary artery disease

Ongoing

- Coronary sinus diameter measured by echocardiography to differentiate AVNRT from AVRT. Prospective study
- Posteroseptal accessory pathways associated with coronary sinus anomalies: Diagnosis and ablation. Retrospective study.
- Wide bipolar electrograms for pace-mapping in the atrium. Prospective study.
- RV apical versus outflow tract pacing: medium term effect on LV function and functional capacity. Prospective randomised study.
- PRedictors of Outcomes in Myocardial Infarction Survivors (PROMIS). Prospective study.
- Long term follow up of post Percutaneous Transluminal Mitral Angioplasty patients to identify the predictors and risk factors for restenosis.
- Long term follow up of Familial Hypercholesterolemia patients and their families for the effect of different lipid lowering regimens.
- Long term follow up of patients with Left atrial thrombus and rheumatic mitral valve disease.
- Comparison of four regimens of cocktail injections to avoid radial artery spasm for trans radial coronary angiography.
- Acute and long term Patency of Radial Artery following radial angiograms and Interventions - a comparison of clinical, plethysmographic and vascular ultrasound.
- Left atrial thrombus assessment by 3D echocardiography.
- Dysynchrony Assessment of Patients with Dilated cardiomyopathy – an M mode, Tissue Doppler and Strain Rate Imaging Study.
- Nitroglycerine or Nikorandil for coronary vasodilatation during PTCA- a randomized controlled trial.
- Balloon Sizing of Atrial Septal Defects- Safety and Outcome on final defect size- A comparative study with Trans esophageal echocardiography
- Efficacy and Safety of titrated injections of alcohol during septal ablation
- Comparative study of Ranolazine and Trimetazidine in Diabetic Patients with Angina Pectoris
B. Collaborative projects

Completed

International
- Right Heart Function Evolution Immediately After Successful Balloon Mitral
  valveoplasty: A Tissue Doppler Imaging Study. With St.Antoine Hospital, Paris
  France

National
- Radiofrequency ablation of permanent atrial fibrillation of >2 years duration and
  left atrial size >5 cm using 2-mm irrigated tip ablation catheter and targeting areas
  of complex fractionated atrial electrograms. With St Stephens, New Delhi, Southern
  Railway Hospital, Chennai

Institutional
With department of Biochemistry, JIPMER
- Total Sialic acid, Lipid Associated Sialic acid in patients with ischemic and
  non ischemic heart failure
- Platelet function, Pro Atherogenic, Insulin Resistance and Oxidative stress
  indices in patients undergoing coronary stenting.
- Evaluation Of Homocysteine, Lipoprotein (A) And Sialic Acid Levels In
  Subjects With Obesity
- Inflammatory response and oxidative stress in patients of rheumatic mitral
  stenosis with left atrial thrombus
- Evaluation Of Homocysteine, Inflammatory Response, Oxidative Stress
  Parameters and Lipid Profile In Non-Diabetic Patients With Acute Coronary
  Syndrome.

With department of Pharmacology, JIPMER
- Effect of nebivolol on endothelial dysfunction in coronary artery disease
  patients- an open label, randomized controlled clinical trial
- Beta 1 Gene Polymorphisms in South Indian Population
- Effect of CYP3A5 and P2Y12 genetic polymorphisms on platelet aggregation
  in patients on treatment with clopidogrel

With department of Pediatrics, JIPMER
- Cardiac Enzyme levels in Myocardial Dysfunction in Newborns with Perinatal
  Asphyxia.

With department of Medicine, JIPMER
- Clinical, Biochemical, Electrocardiographic and Echocardiographic changes in
  patients with Yellow Oleander Poisoning.
- Ankle-Brachial Index and Carotid-Intimal-Medical Thickness ratio as a risk
  factor in Diabetes and ischemic Heart Disease

With Department of Anesthesiology JIPMER
- Heart Rate Variability and QT Dispersion assessment and the plane of
  Anesthesia

Ongoing

International
- French Indian Study on Anti Platelet Efficacy ( FISAPE) ( Lariboisiere Hospital, Paris).
• Biomarkers in Acute Coronary Syndrome (Bio MACS) (Lariboisiere Hospital, Paris)
• Global Registry of Rheumatic Heart Disease (Population Research Institute, McMaster University, Toronto, Canada)
• Coronary Artery Risk factors in patients undergoing coronary angiography in cathlabs of JIPMER, compared to Lariboisiere Hospital, Paris.

**National**
• Angiogenesis and Cell therapy for Ischemic Cardiac Syndromes (AU KBC Research Centre Chennai).
• INTERVENE Trial (CARE Hospital, Hyderabad).
• Development of endotheliophilic coatings for coronary and vascular stents (School of Nanotechnology, SASTRA University, Tanjavur).

**Institutional**

With Department of Dermatology
• Prevalance of Preclinical Atheroslerosis in patients with Psoriasis- A cross sectional Study

With Department of Pediatrics
• Endothelial dysfunction and carotid intima media thickness in children with Nephrotic syndrome

With department of Endocrinology
• Cardiovascular effects of hypo thyroidism and hyperthyroidism and the effect of therapy on them

With Department of Pharmacology, JIPMER
• Effect of CYP3A5, P2Y12,CYP2C19 and MDR1 genetic polymorphisms on platelet aggregation in patients on treatment with clopidogrel.
• Genetic Variants of beta(1) adrenergic receptor gene (Ser49Gly&Arg389Gly) in healthy Tamilian Volunteers
• Gender specific association of endothelial Nitric Oxide synthase Gene Glu298Asp) in healthy Tamilian volunteers
• Pharmacogenomomics of lipid lowering response of atorvastatin among Dyslipidemic Tamilian Population
• Effect of Ranolazine in insulin sensitization in patients with coronary artery disease

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
• Safety and Utility of Internal Carotid artery Balloon Occlusion Test to assess the efficacy of contra-lateral hemispheric blood supply in patients with large inoperable cerebral arterial venous malformations.
PUBLICATIONS

a. Journals

International


7. Raja Selvaraj, Santhosh Satheesh, Jayaraman Balachander. Pseudodisappearance of atrial electrogram during accessory pathway ablation. Accepted for publication as an Image in Europace Jan 2012.


National


b. Book chapters


PATIENT CARE SERVICES

A. Clinical

Outpatient Services
Mean Daily Attendance Cardiology OPD-320
Mean Weekly Attendance for Special Clinics
Post Intervention Clinic( Monday) - 95
Arrhythmia Clinic (Wednesday)-101
Heart Failure Clinic - 37
Cardio Thoracic Meet ( Friday) -197
Genetic Diseases and Lipid Clinic(Saturday) - 10

Inpatient Services Bed Occupancy Rate
Cardiology Coronary Care Unit ( 13 beds) 98%
Cardiology Ward (35 beds) 99%

B. Laboratory

Non Invasive Cardiac Lab (Total Number April 2011 to March 2012)
1. ECG 435388
2. Echocardiography 100066
3. Bed Side Echocardiography 232
4. Tread Mill Test 827
4. Holter 92
5. Vascular Doppler 68
6. Dobutamine Stress Echocardiography (weekly) 5
7. Stress Myocardial Perfusion Imaging (weekly) 10
8. Foetal Echocardiography (monthly) 7
9. Trans Oesophageal Echocardiogram 329
Invasive Cardiac Catheterisation Labs (Total April 2011-March 2012)
1. Coronary Angiography - 1558
2. PTCA and Stenting  -  479
3. Primary Angioplasty  -  12
4. Diagnostic Cardiac Catheterisations (Adult) - 119
5. Diagnostic Cardiac Catheterisations (Pediatric) - 39
6. Peripheral Angiography - 91
7. Peripheral Interventions - 25
8. Percutaneous Balloon Valvotomies - 194
   (Mitra, Aortic, Pulmonary, Tricuspid)
9. ASD Device Closure - 67
10. PDA Device/Coil Closure - 26
11. VSD Device Closure - 17
12. Pacemaker and Other Arrhythmia Device Implants - 119
13. ICD Implants - 17
14. Electrophysiological Study & RF Ablations - 109
15. Emergency Angiograms/Interventions - 46
16. Fractional Flow Reserve - 75
17. Rotablation - 3

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr. J. Balachander

- Fellow of the Indian Society of Electrocardiology.
- Life member of the Cardiological Society of India.
- Fellow of the Indian College of Cardiology.
- Life-member of the Indian Academy of Echocardiography
- Member of the Indian College of Interventional Cardiology.
- Commonwealth Fellowship in Paediatric Cardiology.
- Chairman South Zone Pacing & Electrophysiology.
- Member from India SAARC Cardiac Society.
- Searle Award in Cardiology 1984.
- Member Editorial Board Indian Heart Journal from 1993-2006
- Senior Vice President Cardiological Society of India Tamil Nadu and Pondicherry Branch. 2000
- Executive Member South Asian Federation for Research in Diabetes and Atherosclerosis.
- Member: Board of Studies: National Board of Examinations in Cardiology.
- Member: PG Board of Studies: NTR Medical University: Vijayawada, Andhra Pradesh.
- Member: Board of PG Studies in Medicine: Pondicherry University.
- National Faculty: Indian Heart Rhythm Society.
- Member Board of Studies in Cardiac Sciences. Sree Chitra Thirunal Institute of Medical Sciences, Thiruvananthapuram, Kerala. 01.04.11
Chief Examiner for Conduct of DNB Cardiology Examination, National Board of Examinations, JIPMER 07.04.11 to 10.04.11
• Member, PMSSY Technical Committee Meeting SVIMS, Tirupathi 11.04.11
• Member Ethical Committee IGGGG & RI, Puducherry 18.04.11
• Technical Head Equipment Vetting Committee, JIPMER Second Phase Development. 19.04.11
• Special Advisory Board Meeting on Cardiology, National Board of Examinations, New Delhi 21.04.11
• Member, Project Review Meeting, JIPMER II Phase, 30.04.11
• Examiner of DM Cardiology Examination, AIIMS, New Delhi 08.05.11
• M.C.I. Insepction, DM Cardiology, Vinayaga Mission Hospital, Salem 28.05.11
• M.C.I. Insepction, MGMMC, Navi Mumbai, 08.06.11
• Examiner of DM Cardiology Examination, MVHS Mumbai Nair Hospital, 27.06.11 to 30.6.11
• Examiner of DM Cardiology Examination, NIMS, Hyderabad 11.07.11 to 12.07.11
• Member Drug Committee Meeting, JIPMER 14.07.11
• Examiner of DM Cardiology Exam, JIPMER 25.7.11
• Examiner of DM Cardiology Exam, SVIMS, Tirupathi 28.07.11
• Examiner RGUHS – DM Cardiology Exam, SJIC, Bangalore 29.7.11 to 31.07.11
• Examiner of DM Cardiology Exam- SRMC, Porur, Chennai 05.08.11 & 06.08.11
• JAA Day – Vice-President JAA, 07.08.11
• Examiner of DM Cardiology Exam- Christian Medical College, Vellore 08.08.11
• Member, Standing Selection Committee Meeting 20.08.11
• Member, Third GB Meeting at New Delhi, 26.08.11
• ICMR Expert Group Meeting Sneh Bhargava Committee Meeting 30.08.11
• Member, ERRC Meeting 1, 2 & 3 06.09.11 to 08.09.11

Dr. Santhosh Satheesh
• Life Member of Cardiological Society of India
• Life Member of Pediatric Cardiac Society of India
• Life Member European Association of Percutaneous Cardiovascular Interventions EAPCI
• Member European Society of Cardiology
• Society for Cardiovascular Angiography and Interventions SCAI Associate Member
• Founding Member National Rheumatic Heart Consortium (NRHC)

Dr. Ajith A
• Life Member of Cardiological Society of India
• Society for Cardiovascular Angiography and Interventions SCAI Associate Member

Dr. Raja Selvaraj
• Life Member of Cardiological Society of India
• Visiting Faculty (Electrophysiology) at SVIMS Tirupathy, Andhra Pradesh and Government Medical College Trivandrum, Kerala
Dr. Gobu P

- Life Member of Cardiological Society of India
- Society for Cardiovascular Angiography and Interventions SCAI Associate Member

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. J. Balachander

- National Co-ordinator for India in Indo French Cardiac Pacemaker Programme (Stimubanque) 2011-2012
- Member Technical Expert UPSC for Cardiology,
- Member Ethical Committee, SVIMS, Thirupathi
- Medical Council Of India Inspector for DM( Cardiology) Course
- Diplomate of National Board Inspector for DNB (Cardiology) Accreditation for Narayana Medical College Nellore
- Chief Examiner for National Board of Examinations in Cardiology
- 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
- Technical Expert Member for PMSSY ( Pradhan Mantri Swasthya Suraksha Yojana, Ministry of Health and Family Welfare, New Delhi
- Member Ethical Committee, SVIMS, Thirupathi
- Chairman, JIPMER Equipment Specs Vetting Committee for Second Phase Development
- Paper setter DNB Cardiology Final Exit Exam:- Paper – I Basic Sciences as Applied to Cardiology
- Member Chairman, Purchase of Consumables / Non-consumables for the year 2009-10 (HSAPC Meeting)
- Member, Ethics Committee Meeting, Indira Gandhi Government General Hospital and Post Graduate Institute, Pondicherry
- Co Guide for post graduate and PhD students in the departments of Medicine, Biochemistry, Pediatrics, Pharmacology, Physiology, Psychiatry, Immunology, Anaesthesiology.
- National Board of Examination Inspection at Calicut Baby Memorial hospital 14.09.11
- Chief Examiner of DNB Cardiology Examination, National Board of Examinations, JIPMER 23.09.11 to 25.09.11
- Examiner of DNB Cardiology Examination, Southern Railway HQ, Chennai 13.10.11 to 16.10.11
- NDCA Meeting FDA Bhavan, New Delhi14.01.12
- DNB Paper Correction – DNB Cardiology Paper II Dwaraka, New Delhi15.01.12 & 16.01.12
- Fourth SFC Meeting JIPMER, Nirman Bhawan, New Delhi23.01.12
- Member Selection Committee Asst. Professor, AIIMS, New Delhi27.01.012
- Examiner of DM Cardiology Examination. Sri Jeya Deva Institute, Bangalore28.01.12
- Member JIPMER PACS Meeting31.01.12
• Chief Supervisor JIPMER PG Entrance Examinations – 12.02.12
• Chairman, JIPMER PG Entrance Examination Paper Correction and publication of results 13.02.12 to 15.02.12
• Member, EFC Meeting at New Delhi, Nirman Bhavan 29.02.12
• Inspector for Vijaya Hospital, Chennai NBE Accreditation 08.03.12
• Chief Examiner, of DNB Cardiology Examination, JIPMER 29.03.12 to 31.03.12
• Member Fifth Standing Finance Committee of JIPMER Meeting, Nirman Bhavan, New Delhi 30.03.12

Dr. Santhosh Satheesh

• Examiner for DM (Cardiology)
• Co Guide for postgraduate students in the departments of Biochemistry, Pathology, and Pharmacology.
• Co – ordinator for Indo French Student exchange programme in JIPMER-Paris University & collaboration
• Technical Expert Member for Cardiology, PMSSY (Pradhan Mantri Swasthya Suraksha Yojana), Ministry of Health and Family Welfare, New Delhi
• Reviewer, Journal of Pharmacology and Pharmacotherapeutics
• Co-Ordinator for DM Cardiology Clinical Examination, JIPMER 2011
• Co-Ordinator and Invigilator, DNB Cardiology Clinical Examination JIPMER 2011-2012

Dr. Ajith A

• Co Guide for for postgraduate students in the departments of Pharmacology.

Dr. Raja Selvaraj

• 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)

• Prof. Patrick Henry, Professor and Head of Department, Department of Cardiology, Lariboisiere Hospital, Paris, France,
• Dr. Georgios Sideris, Associate Professor, Department of Cardiology, Lariboisiere Hospital, Paris, France,
• Dr. Eugene Downar, Professor of Electrophysiology, Toronto General Hospital, Toronto, Canada
• Dr. J. Thompson Sullebarger, M.D, Chief, Cardiology Section, Tampa General Hospital, Tampa, Florida, United States of America
• Dr. Louis Carnendran, Heart & Family Health Institute, Westside Regional Medical Center, Port St Lucie, Florida, United States of America
Visiting Faculty (National)
- Dr. Sriram Rajagopal, Head of the Department, Department of Cardiology, Southern Railway Head Quarters Hospital, Chennai
- Dr. BRJ Kannan, Consultant Pediatric Cardiologist, Vadamalayan Hospital, Madurai
- Dr. Karthikeyan G, Additional Professor, Department of Cardiology, AIIMS, New Delhi
- Dr. K. Uma Maheswari, Ph.D., Deakin Indo-Australia Chair Professor & Associate Dean (Chemistry, Bioengineering & Pharmacy), Centre for Nanotechnology & Advanced Biomaterials, School of Chemical & Biotechnology, SASTRA University, Thanjavur, Tamilnadu

Upgradation of Educational Facilities
- Increased the number of DM (Cardiology) seats from three in 2011 to four in 2012
  Commenced the training of undergraduate students from Paris 7 University, Paris, France in 2011.
- All the zones of the department was wifi enabled for seamless internet access by residents and faculty.

Upgradation of Research Facilities
- Established Intravascular Ultrasound Imaging System (Volcano) with Integrated fractional Flow Reserve in Cardiac Cath Lab
- Established a new 10 MHz Vascular Doppler System for Carotid Intima Medial Thickness, Brachial flow Mediated Vasodilation Studies (Philips)
- Established Advanced Echocardiography Laboratory with Strain Rate Imaging and three dimensional echocardiography (Philips IE33)
- Established Coronary Doppler Wire System in Cath lab for haemodynamic research in Vascular trees (St Jude Radiflow)
- Established Cardiac CT and MRI imaging systems in collaboration with Department of Radiodiagnosis (Seimens, Philips)
- Established point of care assay of Cardiac Biomarkers including Toponin, BNP, D dimer (Roche)

Upgradation of Patient Care Facilities
- Establishment of facility for complex 3D mapping based ablation procedures with installation of state of the art CARTO-3 electroanatomical mapping system in January 2012
- Established Outpatient Radial Coronary Angioplasty programme improving the patient comfort, decreasing complications and shortening the hospital stay of patients.
- Established Advanced Peripheral Angioplasty and Endovascular stenting programme
- Established Hybrid surgico-invasive procedures with the departments of CTVS and Surgical Gastroenterology
- Established an ongoing programme for Trans Arterial Chemo Embolization (TACE) with department of surgical gastroenterology
- Established a programme of Chemical Pericardiodesis in patients with malignant pericardial effusion.
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 from this department won the gold medal in DNB examination for cardiothoracic surgery.

One of the most prestigious awards of Indian Association of Cardiovascular and thoracic surgeons (IACTS), the Godrej Karai Oration Award was conferred to Prof. K.S.V.K. Subbarao for the year 2012 during the 58th Annual conference of and the First Joint workshop with European association for cardiothoracic Surgery (EACTS) for his lifetime contribution to the field of thoracic surgery and during the same conference the best paper award at national level was given to the paper from this department, ‘A series of versatile thoracic aortic operations - three year experience at JIPMER’. And also the best paper award at the national level was won by the perfusionists from this department in the 12th Annual conference conducted by the Indian Society of Extracorporeal Technology.

EDUCATIONAL COURSES

- **Undergraduate course:**
  
  B.Sc (Perfusion Technology) – a 3 year course with one year internship - 4 seats per year.

- **Higher Speciality course:**

  MCh (Cardiothoracic & Vascular Surgery) – a 3 year course recognized by MCI with 3 seats per year.
CONTINUING MEDICAL EDUCATION PROGRAMMES

Dr. K.S.V.K. Subbarao

- Attended the ‘1st Update CME on Cardiology and Cardiac Surgery’ conducted by Pondicherry Institute of Medical Sciences in Sep 2011.
- Attended the “Workshop on clinical research for clinical investigators” conducted at JIPMER by the department of Pharmacology in collaboration with Indian Society of Clinical Research on 21st & 22nd in October 2011.

Dr. B.V. Sai Chandran

- Chaired a session on “Management of Vascular diseases and Cardiomyopathy” in the ‘1st Update CME on Cardiology and Cardiac Surgery’ conducted by Pondicherry Institute of Medical Sciences in September 2011.
- 13th Annual Live workshop in Current issues in cardiovascular surgery conducted by G. Kuppusamy Naidu Memorial Hospital, Coimbatore on 3rd & 4th of December 2011.
- Attended Thoracoscopy workshop at 58th Annual conference of Indian Association of Cardiovascular and Thoracic Surgeons (IACTS) and the First Joint workshop with European association for cardiothoracic Surgery (EACTS) on 12th February 2012.
- Attended “Workshop on clinical research for clinical investigators” conducted at JIPMER by the department of Pharmacology in collaboration with Indian Society of Clinical Research on 21st & 22nd in October 2011.

Senior Residents of Mch (CTVS) attended the following CME’s

- 1st Update on Cardiology and Cardiac Surgery” conducted by Pondicherry institute of Medical Sciences in Sep 2011 was attended by Dr. Noveen Davidson, Dr. P. Sudarsan Reddy, Dr. M. Hemachandren, Dr. K. Madhusudan and Dr. Pleasant Sunny.
- 13th Annual Live workshop in Current issues in cardiovascular surgery conducted by G. Kuppusamy Naidu Memorial Hospital, Coimbatore on 3rd & 4th of Dec 2011 was attended by Dr. Noveen Davidson, Dr. M. Hemachandren and Dr. Pleasant Sunny.
- 2nd National ECSN Conference organized by ECMO Society of India on 5th & 6th November 2011 conducted at Narayana Hridayalaya Bangalore - Dr. Noveen Davidson & Dr. M. Hemachandren.
- Annual Thoracic CME conducted by the Indian Association of Cardiovascular and Thoracic Surgeons (IACTS) at Nizam’s Institute of Medical Sciences, Hyderabad (A.P) in December 2011 was attended by Dr. P. Sudarsan Reddy, Dr. M. Hemachandren, Dr. K. Madhusudan and Dr. Elamaran.
- ‘Silver Jubilee Live Workshop on Cardiac Surgery’ conducted by Madras Medical Mission at Chennai in Jan 2012 was attended by Dr. Noveen Davidson & Dr. K. Madhusudan.
- Congenital workshop at CTCON 2012 organized by Indian Association of Cardiovascular & Thoracic Surgeons (IACTS) at Kolkata on 12th Feb 2012 was attended by Dr. Noveen Davidson, Dr. M. Hemachandren and Dr. Pleasant Sunny.
• INDOVASC 2012 - International Congress on Aortic Disease Management-23rd to 25th March 2012, at Bangalore organized by Narayana Hridayalaya, Bangalore was attended by Dr. M. Hemachandren and Dr. Pleasant Sunny and Dr. K. Madhusudan.

CONFERENCES

Dr. K.S.V.K. Subbarao

• Delivered Godrej Karai Award Oration on ‘Corrosive stricture of esophagus’ – in CTCON 2012 - 58th Annual Conference of Indian Association of Cardiovascular & Thoracic Surgeons (IACTS) & Joint Workshop with European Association for Cardio-Thoracic Surgery (EACTS) – on 11th Feb 2012 at Kolkata and also co-authored in the paper presentations (mentioned below)
• Attended INDOVASC 2012 - International Congress on aortic disease management-23rd to 25th March 2012, at Bangalore organized by Narayana Hridayalaya, Bangalore.

Dr. B.V. Sai Chandran

• Co-organized as a Joint Secretary in collaboration with the department of Pathology to conduct ‘ISARCON 2011’ – Annual Conference and international CME conducted by the Indian Society of Atherosclerosis and Research on 24th & 25th of September 2011 at JIPMER
• Participated in the paper presentations (mentioned below) in CTCON 2012 - 58th Annual Conference of Indian Association of Cardiovascular & Thoracic Surgeons (IACTS) & Joint Workshop with European Association for Cardio-Thoracic Surgery (EACTS) – on 11th Feb 2012 at Kolkata.
• Attended INDOVASC 2012 - International Congress on aortic disease management-23rd to 25th March 2012, at Bangalore organized by Narayana Hridayalaya, Bangalore.

Senior Residents of Mch (CTVS)

• Attended and participated in paper presentation (mentioned below) in CTCON 2012-58th Annual Conference of Indian Association of Cardiovascular & Thoracic Surgeons (IACTS) & Joint Workshop with European Association for Cardio-Thoracic Surgery (EACTS) – on 11th Feb 2012 at Kolkata.

BSc. Perfusion Technology students & Perfusionists

• Attended and participated in paper presentation in 12th Annual conference conducted by the Indian Society of Extracorporeal Technology.

Topics Presented In The National Annual Conference (CTCON 2012)

• A series of verastile thoracic aortic operations - three year experience at JIPMER by Dr. P. Sudarsan Reddy, Senior Resident.
• Analysis of series of chest wall tumors (38 cases) - JIPMER experience by Dr. Pleasant Sunny, Senior Resident.
• A series of thoracic outlet syndrome - JIPMER experience by Dr. P. Sudarsan Reddy, Senior Resident.
• Surgical treatment of aneurysm of sinus of Valsalva in 17 cases – JIPMER experience by Dr. P. Sudarsan Reddy, Senior Resident.
• Excision of carotid body tumor – a case report by Dr. S. Shivashankar, Senior resident.
• Analysis of series of 101 cases of pericardiectomy done for constrictive pericarditis over 25 years - JIPMER experience by Dr. S. Shivashankar, Senior Resident.

RESEARCH PROJECTS

Departmental Projects

Ongoing

• Proposal accepted for research on “Incidence of Heparin Induced Thrombocytopenia (HIT) in patients undergoing Cardiovascular Surgery and its relationship with Clot Morphology and FcgRIIa Polymorphism and Association of Thrombosis in HIT with Platelet PLA2 polymorphism (Prevalence in Indian population)

Collaborative Projects

Ongoing

• In the research project Establishment of Laboratory for Angiogenesis & Molecular Pathology at JIPMER proposed by the Department of pathology.
• In ‘Global registry of rheumatic heart disease’ proposed by the Department of Cardiology
• In the PhD project on “Influence of CYP2C9, VKORC1 and CYP4F2 gene polymorphisms on warfarin / acenocoumarol plasma level and dose requirement in patients receiving warfarin / acenocoumarol therapy” – proposed by the department of Pharmacology.
• In the MD (Pathology) dissertation on : “Histopathological study of vessel wall in patients with arterial occlusive disease”.

PUBLICATIONS


PATIENT CARE SERVICES

A. Clinical:

Totally 337 major cases were operated which include 187 open heart operations, 34 closed operations, 54 thoracic operations, 100 vascular operations and 30 other operations. The open heart operations included various types of cardiac operations including aortic arch replacement, aortic root replacement, aneurysm of
descending thoracic aorta, correction of complex congenital cardiac malformations such as transposition of great arteries, valve replacements, coronary artery bypass including beating heart CABG, etc. Apart from these about 5-7 emergency cases referred from various departments and casualty are being treated amounting to about 1500 emergency referral cases per year.

B. Laboratory:

Chest wall tumor & mediastinal tumor biopsy by open method and also transthoracic FNAC are being done. Diagnostic and therapeutic rigid and flexible bronchoscopy and VATS (Video Assisted Thoracoscopic Surgery) are being done.

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr. K.S.V.K. Subbarao

- Was awarded Godrej Karai Oration Award for the year 2012 during the 58th Annual conference of and the First Joint workshop with European association for cardiothoracic Surgery (EACTS) for his lifetime contribution to the field of thoracic surgery
- Member of Society of thoracic surgery.
- Member of Indian association of cardiovasucular & thoracic surgeons

Dr. B.V. Sai Chandran

- Member of European association of Cardiothoracic surgery
- Member of Association of Thoracic and Cardiovascular Surgeons of Asia
- Member of Indian association of cardiovasucular & thoracic surgeons
- Member of Vascular Society of India

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. K.S.V.K. Subbarao

Examiner for Mch Examination at various universities, Member secretary in the Board of JIPMER and also in various committees

Dr. B.V. Sai Chandran

Central Public Information Officer (CPIO) for performing the work under RTI.

SIGNIFICANT EVENTS IN THE DEPARTMENT

Patient care facilities: the following complex procedures have been done in the recent Years:

Category: Aortic Operations & Other Vascular Operations

- Replacement of ascending aorta & aortic arch for aneurysm through median sternotomy.
- Replacement of aortic arch and upper descending thoracic aorta for aneurysm through thoracotomy.
- Repair of thoracoabdominal aortic aneurysm and reimplantation of spinal arteries thro' thoracotomy.
• David’s valve sparing aortic root replacement
• Combined David’s valve sparing aortic root replacement with replacement of aortic arch and upper descending thoracic aorta.
• Combined Bentall operation with replacement of total aortic arch.
• Combined Bentall operation with replacement of total aortic arch and Morrow’s left ventricular outflow tract resection.
• Combined Bentall operation with Patch closure of Multiple ventricular septal defects and infundibular resection.
• Combined Redo aortic valve replacement with replacement of ascending aorta, root and aortic arch.
• Combined aortic valve replacement with Morrow’s left ventricular outflow tract resection and wrap aortoplasty of ascending aorta.
• Vouschoulte’s Patch aorto-coarctoplasty.
• Open thromboembolectomy / endarterectomy of abdominal aorta (suprarenal & infrarenal).
• Suprarenal aorto bifemoral bypass graft through transabdominal route.
• Supraceliac aorto bifemoral bypass graft with hepatic arterial, mesenteric arterial, splenic arterial and left renal arterial bypass and right renal nephrectomy through transabdominal route.
• Combined Repair of Ruptured aneurysm of common iliac artery with aorto bifemoral bypass graft.
• Carotid transposition of subclavian artery for vertabrobasilar insufficiency
• Descending thoracic aorta to left brachial artery bypass.
• Repair of traumatic transaction of subclavian artery.
• Bilateral femoral venous to subclavian venous bypass with augmenting femoral arterialvenous fistula for obstruction of inferior vena cava and iliac veins.
• Excision of carotid body tumor

Category: Congenital Heart Operations
• Single stage repair of Ruptured sinus of Valsalva and Ascending aorta to descending thoracic aorta bypass for coarctation of aorta through median sternotomy.
• Transthoracic epimyocardial permanent pacemaker implantation and ligation of persistent ductus arteriosus in infant.
• Complete Fontan operation in status bidirectional Glenn shunt
• Rastelli operation for Transposition of great arteries.
• Patch closure of Multiple ventricular septal defects.
• Trans- pulmonary arterial retrieval of migrated device implantation of atrial septal defect.

Category: Coronary Artery Operations
• Combined Coronary arterial bypass graft with mitral valve repair
• Combined Coronary arterial bypass graft with mitral valve replacement
• Combined Coronary arterial bypass graft with Carotid endarterectomy
• Combined Coronary arterial bypass graft with pllication of left ventricular aneurysm.
Category: Other Open Heart Operations
- Combined Open embolectomy of abdominal aorta with excision of left atrial myxoma.
- Excision of trichamber mass lesion of heart.
- Repair of coronary sinus injury following cardiac catheterization.
- Redo mitral valve replacement with bioprosthetic valve

Category: Thoracic Operation
1. Redo completion pneumonectomy.
2. Excision hydatid cyst of lung using VATS (Video assisted thoracoscopic surgery).
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 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. Lectures and practical demonstrations on surgical dentistry & maxillofacial surgery are conducted for students of Operation Theatre Technician Course.

CONFERENCES

Dr. B. Krishnan

1. Attended the 36th Annual Conference of Oral & Maxillofacial Surgeons of India, at New Delhi held on November 23rd-26th 2011.
2. Attended a two day hands on Workshop on "Craniomaxillofacial Trauma & Osteosynthesis", Conducted by S.O.R.G., Austria, held at New Delhi on February 24th-25th 2012.

PUBLICATIONS

A. Journals


PATIENT CARE SERVICES

The department performs a variety of dental procedures like extractions, restorations, implant surgery, oral prophylaxis, removable and fixed prosthesis, maxillofacial prosthesis, root canal treatment etc. The Department also helps in fabrication of prosthesis following
plastic surgical, gynecological and CTVS procedures. A portable dental diode laser has been acquired for oral & dental procedures. 4 beds are available in the ward for inpatient care. Maxillofacial surgical procedures are performed under general anaesthesia once a week. Maxillofacial trauma & reconstruction, orthognathic surgeries, maxillofacial pathologies and oncology surgeries are being performed regularly. Facilities for digital periapical radiographs are also available. Faculty and residents have participated in Health Camps conducted by Institute at Veerampatinam on 27/07/2011 and 04/08/2011 and at Kadaperikuppam on 28/09/2011.

A total of 19,123 patients were examined and procedures performed in 2011-2012:

<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>4,904</td>
</tr>
<tr>
<td>2</td>
<td>Restorations</td>
<td>1009</td>
</tr>
<tr>
<td>3</td>
<td>Scaling</td>
<td>973</td>
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<tr>
<td>4</td>
<td>Prosthesis/orthodontic appliance</td>
<td>222</td>
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<tr>
<td>5</td>
<td>Root Canal Treatment</td>
<td>82</td>
</tr>
<tr>
<td>6</td>
<td>Minor Oral Surgery</td>
<td>398</td>
</tr>
<tr>
<td>7</td>
<td>Major Oral &amp; Maxillofacial Surgery</td>
<td>56</td>
</tr>
<tr>
<td>8</td>
<td>Emergencies</td>
<td>431</td>
</tr>
</tbody>
</table>

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

**Dr. B. Krishnan**

1. Assessed a project proposal for research grant forwarded by National Research Development Corporation, India.
2. Assessed a project proposal for research grant forwarded by Kerala Science, Technology and Environment Department.
3. Has been given additional responsibility as Public Information Officer, Department of Dentistry.
4. Peer reviewer for journal of Pharmacology and Pharmacotherapeutics, India.
## 8.7 Dermatology & STD

**Professor & Head**  
D.M. Thappa

**Professor**  
T.J. Jaisankar

**Assistant Professors**  
Laxmisha Chandrashekar  
Rashmi Kumari

### 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—

1. W.H.O. sponsored workshop to train teachers of Leprosy Training Centres, 1978
2. W.H.O. sponsored workshop in Leprosy, 1979
3. W.H.O. workshop on Epidemiology and control of Leprosy, 1st-7th December 1981
5. Symposium on Continued Medical Education on S.T.D., 1981

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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.

C) ICMR short term studentship programme - Two students chose to do their studentship programme in the department and have successfully completed the project.

D) IADVL training fellowships in clinical dermatology. Dr. Afsha Topal did her short training fellowship in clinical Dermatology

E) Observers: Two students from Government Medical College, Kurnool did a one month observership in the Department.

CONTINUING MEDICAL EDUCATION PROGRAMS
Dr. DM Thappa
- Attended a workshop on clinical research for clinical investigators held at JIPMER on the 21st and 22nd October 2011.
- Attended the expert committee meeting of an ICMR funded study at SLRTC Karigiri, Vellore on the 13th August 2011.
- Delivered a guest lecture on "Interesting case scenarios in Dermatology, Venereology and Leprology” at Pondicherry Institute of Medical Sciences, Kalapet, Pondicherry on the afternoon of 20th January 2012.
- Attended the clinical dermatology updates on ‘Atopic dermatitis’ held at Mumbai on the 3rd and 4th of March 2012 and was one of the experts for panel discussion.

Dr. Laxmisha Chandrashekar
- Attended and delivered a guest lecture on nail surgeries at the CME conducted in SRMC Chennai on 17th June 2011.
- Attended a workshop on clinical research for clinical investigators held at JIPMER on the 21st and 22nd October 2011.
- Attended a one day workshop on ultrasound of nerves conducted under the auspices of SIG IADVL by CODWEL on 30th October 2011 at Hyderabad.
- Attended the first national dermoscopy CME as a faculty on 8th January 2012 organized at Mumbai in KEM hospital and delivered 3 guest lectures on dermoscopy of cicatricial alopecia, dermoscopy of seborrheic keratosis and dermoscopy as a tool to assess stability in vitiligo.
Dr. Rashmi Kumari

- Participated in the workshop on 2nd short course on Basic epidemiology at JIPMER, Puducherry from 14th November 2011 to 19th November 2011.
- Participated in the 64th National course on educational science for health professionals held at JIPMER, Puducherry from 15th February 2012 to 25th February 2012.

CONFERENCES

Dr. DM Thappa

National
- Attended the DERMACON 2012 – 40th National Conference of IADVL from 9th -12th February, 2012 at JAIPUR and delivered a guest lecture on “Pustular psoriasis in children management issues” and chaired a session on “Psoriasis”. He also attended various meeting related to association activities as Chief editor of Indian Journal of Dermatology, Venereology and Leprology.
- Attended the 21st Annual Conference of IADVL – Pondicherry Branch which was held at SSB auditorium in JIPMER on 11th December 2011. He was the scientific chairperson of the conference.
- Attended the HIV congress 2012 held at Mumbai between 16th March 2012 and 18th March 2012. He delivered a minilecture on “Adverse cutaneous drug reactions to antiretroviral drugs.”

International
- Attended the World Congress of Dermatology at Seoul, Korea from 24th to 29th of May 2011 and delivered an invited talk on “Roots of Indian Dermatology” in the session on “Roots of Asian Dermatology”.
- Attended the “Kuwait Pediatric Dermatology Symposium 2011” on 9th to 11th October 2011 at Kuwait” and delivered two guest lectures in the symposium. First guest lecture was on “Urticaria and angioedema in children – An update” and the second guest lecture was on: “Vitiligo in childhood: Advances in management”.
- He visited Kuwait between 30th January 2012 and second February 2012. During the visit, he was invited to deliver a talk on “Light therapy for psoriasis” in “Maximizing outcomes in Psoriasis therapy Symposium” held at Grand ballroom, Farwaniya hospital, Kuwait.

Dr. T.J. Jaisankar

- Attended the 21st Annual Conference of IADVL – Pondicherry Branch which was held at SSB auditorium, JIPMER on 11th December 2011.

Dr. Laxmisha Chandrashekar

- Attended the 21st Annual Conference of IADVL – Pondicherry Branch which was held at SSB auditorium in JIPMER on 11th December 2011. He was the organizing secretary of the conference.

Dr. Rashmi Kumari

- Attended the 21st Annual Conference of IADVL – Pondicherry Branch which was held at SSB auditorium, JIPMER.11th December 2011. She delivered a guest lecture on ‘Acne what is new.’
RESEARCH PROJECTS

Funded Projects

Ongoing
1. Role of iron deficiency in diffuse hair loss (female pattern hair loss and chronic telogen effluvium) in women-Funded by JIPMER for 2 years (2012-2014). Funds: Rs.90,000/= (Dr. TJ Jaisankar).
2. Characterization of various markers of nitroso-oxidative and cellular stress and their response to oral minipulse in nonsegmental vitiligo- IADVL-L’Oreal Research grant- Funded by IADVI-L’oreal research grant for 1 year (2012-2013). Funds: Rs.2,25,000/= (Dr. Laxmisha Chandrashekar).
4. Association of herpes simplex virus in patients with pemphigus. Funded by JIPMER for 2 years (2012-2014). Funds: Rs.78,000 /= (Dr. Laxmisha Chandrashekar).
5. 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/= (Dr. Laxmisha Chandrashekar).
6. Distribution of Melanocytes in white (graying) hair compared to black hair”. Funded by JIPMER for 2 years (2012-2014). Funds: Rs. 100,000/= (Dr. Rashmi Kumari).

Departmental Projects

Completed
1. A Clinical study of pattern of aging skin changes and dermatoses in the elderly- Dr. Priya Cinna T. Durai.
2. Clinico-investigative study of Trichomonas vaginalis infection in women - Dr. Sivaranjini R.
3. 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.
5. Study of nosocomial infections in dermatology ward-Miss Kavitha M (ICMR STS programme 2011-03170).

Ongoing
1. A descriptive study of periorbital dermatoses-Dr. Laxman Besra.
2. Dermoscopic study of hair shaft disorders and alopecias from tertiary care centre in South India- Dr. Nishant Ghodake.
4. Dermoscopic evaluation of a response to an intrallesional corticosteroid in the treatment of alopecia areata-Dr. Shikhar Ganjoo.
5. 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.
6. Association of herpes simplex virus in patients with pemphigus-Dr. Deepthi Konda.
7. Role of iron deficiency in diffuse hair loss (female pattern hair loss and chronic telogen effluvium) in women- Dr. Lakshmi Bhuvaneswaran Kartha.
8. Histopathological and dermoscopic study of exogenous ochronosis in melasma-Dr. Sivashankari.
10. A retrospective audit of skin biopsies from a tertiary care centre in South India- Dr. Pradeep B.
12. Retrospective study of the safety and efficacy of thalidomide and steroids in type II reactions in leprosy when used alone or in combination.

Collaborative Projects

Completed
1. Evaluation of platelet activation based on platelet indices, platelet aggregability, soluble-P selectin and platelet oxidative stress in chronic urticaria.
2. Evaluation of the degree of platelet activation based on platelet indices and platelet activation marker soluble P-selectin in psoriasis-Dr. Laxmisha Chandrashekar.

Ongoing
1. Characterisation of various markers of nitroso-oxidative and cellular stress and their response to oral minipulse therapy in non segmental vitiligo-Dr. Laxmisha Chandrashekar
2. Association of herpes simplex virus, cytomegalovirus and staphylococcus aureus in patients with pemphigus and their contribution to glucocorticoid resistance- Dr. Laxmisha Chandrashekar
3. Biomarkers of atherothrombosis, inflammation, endothelial dysfunction, insulin resistance, oxidative stress and associated cardiovascular risks in patients with psoriasis in South Indian population- Dr. Laxmisha Chandrashekar
4. Study of prolactin, adipokines and insulin resistance in psoriasis vulgaris- Dr. Laxmisha Chandrashekar.

PUBLICATIONS

Journals
6. Kumari R. Is Insulin resistance, insulin growth factor-1 (IGF1) and diet responsible for exacerbating acne? Indian J Dermat Venereol Leprol. (Accepted for publication).
11. Mohanan S, Chandrashekar L, Thappa DM, Ramesh A, Basu D. Late onset epidermal nevus with hypertrichosis and facial hemihypertrophy Indian J Dermatol (Accepted for publication).
12. Mohanan S, Kumari R, Rajesh NG, Thappa DM. Multiple skin nodules over the scalp and trunk. Indian J Dermatol Venereol Leprol (Accepted for publication).
15. Priya C, Kumari R, Thappa DM. Ageing in elderly: chronological versus photoaging. in Indian J Dermatol (Accepted for publication).
17. Ranugha PSS, Chandrashekar L, Kumari R, Thappa DM, Badhe B. Is it Lucio phenomenon or necrotic erythema nodosum leprosum? Indian J Dermatol (Accepted for publication).
18. Ranugha PSS, Kumari R, Kartha L, Parmeswaran S, Thappa DM. Therapeutic plasma exchange as a crisis option in cases of severe pemphigus vulgaris. Indian J Dermatol Venereol Leprol (Accepted for publication).

Book chapters

PATIENT CARE SERVICES

Clinical
The department had an OPD attendance of 70,586 in its four sections dealing with skin diseases (both male and female), venereal diseases and Hansen’s diseases. Special OPD clinics included follow-up patients with Vitiligo, Hansen’s disease and other chronic dermatoses like psoriasis etc. Dermato-surgical procedures done at OPD included punch grafting for Vitiligo, electro-cautery, PUVA therapy and cryosurgery. A total number of 647 patients were treated as in-patients.

Laboratory
1. Skin Scrapings for fungus: 4223
2. Nail Clippings for fungus: 509
3. Hair Clippings for fungus: 103
4. Gram Smear: 1900
5. Tzanck Smear: 1001
6. Hair Shaft Examination: 44
7. Oil Mount Examination: 91
8. Wet Mount Examination: 93
10. Ziehl-Neelson stain for Lepra bacilli: 430
11. Ziehl-Neelson stain for Tuberculous bacilli: 155
13. ESR: 90
14. Urine analysis: 631
15. Stool for occult blood: 143
16. Stool for parasites: 578
AWARDS, HONOURS AND SIGNIFICANT EVENTS

Dr. DM Thappa

• Editor of Indian Journal of Dermatology, Venereology & Leprology – published 6 issues in 2011.
• The scientific research society of the New Jersey Medical School awarded the Bestoms honorary membership on 14th October 2011.
• Member Editorial Board of Indian Journal of Sexually Transmitted Diseases & AIDS
• Editorial Advisory Board Member of Indian Journal of Dermatology 2007 onwards and Indian Dermatology Online Journal
• 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. T.J. Jaisankar

• Life member of Indian Association of Dermatologists, Venereologists, and Leprologists (IADVL) and rotary club member of Pondicherry.

Dr. Laxmisha Chandrashekar

• Member Special interest group of IADVL on leg ulcers.
• Assistant editor of Indian Journal of Dermatology, Venereology and Leprosoy
• Referee for various journals such as Clinical and Experimental Dermatology, Archives of Dermatology and Archives of Internal Medicine
• Member of Indian Association of Dermatologists, Venereologists, and Leprologists (IADVL), European Academy of Dermatology and Venereology, International Society of Dermatology.

Dr. Rashmi Kumari

• Life member of Indian Association of Dermatologists, Venereologists, and Leprologists (IADVL).
• Assistant editor and referee for IJDVL (Indian Journal of Dermatology, Venereology & Leprology).
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

- Inspector for National Board of Examination, New Delhi, 2005 onwards
- Inspector for Medical Council of India, New Delhi, 2009 onwards
- Conducted the viva-voce examination of a Ph.D candidate at PGIMER, Chandigarh on 9th December 2011
- Carried out onsite assessment of answer sheets of DNB Final Theory Examination at DNB Office, Dwarka, Delhi on 23rd and 24th January 2012.
- Conducted an assessment on behalf of Medical Council of India at Amalapuram, Andhra Pradesh on 2nd and 3rd January 2012.
- Carried out inspection and assessment of physical and other teaching facilities available at ESR, PGIMER, ESI hospital at Parel, Mumbai on 16th and 17th January 2012 on behalf of Medical Council of India.
- Carried out inspection and assessment of physical and other teaching facilities available at NIMS Medical College, Jaipur under NIMS university on 26th March 2012 on behalf of Medical Council of India
- 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, Kottayam; Gujarat University, Ahmedabad; Delhi University, Delhi; PGIMER, Chandigarh; AIIMS, New Delhi; West Bengal University of Health Sciences, Kolkata; Utkal University, Bhubaneswar, 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.
- Examiner cum Ph.D thesis evaluator for West Bengal University, Kolkata and TN Dr. MGR Medical University, Chennai (Madras)
- Member selection committee in the institute
- Member editorial board of annual report

Dr. TJ. Jaisankar

- Post graduate examiner and thesis guide
- He is also the inspector for Medical Council of India, New Delhi

Dr. Laxmisha Chandrashekar

- Post graduate guide
- Member editorial board of institute annual report

Dr. Rashmi Kumari

Postgraduate guide
SIGNIFICANT EVENTS IN THE DEPARTMENT

1. Patient care: The department has acquired new equipments for patient care. These include targeted phototherapy, dermatologic ultrasound, dermoscopy equipment, full body UVB cabinets and computerized trichogram.

2. The 21st Annual Conference of IADVL – Pondicherry Branch was held at SSB conference hall, JIPMER on 11.12.2012. The postgraduates participated in various programmes. The following papers were presented by postgraduates in the award session.

Case studies:

- Dr. Sivaranjini R - “Clinico-investigative study of Trichomonas vaginalis infection in women” and won the First prize.
- Dr. Priya Cinna Durai- “Clinical study of aging skin changes and dermatoses in the elderly.
- Dr.Priya Bishnoi- “Clinical and Laboratory predictors of Mupirocin and Fusidic acid resistance among S. aureus isolates.

The following residents participated in the Quiz program organized in the conference and won prizes.

- Team of Dr.Sivaranjini R & Priya CinnaT Durai won the First prize.
- Team of Dr.Pradeep B and Dr.Shikhar G won the 3rd prize.
- Dr. Sivaranjini R also won the best PG award constituted by IADVL Pondicherry branch “Best PG award.”

3. Three postgraduates of the department attended the DERMACON 2012 – 40th National Conference of IADVL from 9th – 12th February, 2012 at Jaipur and presented the following papers:

- Dr. Sivaranjini presented a free paper titled “Trichomoniiasis: How do we screen in a resource poor setting?”
- Dr. Priya Cinna T. Durai presented a poster titled “Aging in elderly – chronological vs. photoaging”.

4. The following residents participated in the national pediatric dermatology conference held at Bhubaneswar on 12th and 13th November 2011 and presented oral papers in the scientific session.

- Dr. Divya Gupta- Mongolian spots: A prospective study.
- Dr. Laxman Besra- Rabson Mendenhal syndrome with a novel mutation
- Dr. Pradeep B- Smouldering systemic mastocytosis in a child presenting as leonine facies-a rare presentation.

5. Dr. Sivaranjini R, Junior resident won the first place in the quiz conducted by the Madras Cutaneous club conducted under the Sundaram medical foundation in January 2012.
BACKGROUND INFORMATION OF THE DEPARTMENT

The division of Endocrinology functioned under Medicine department for short intervals under Dr. Muthalagu and Dr. Sushil Kumar Gupta earlier in the past. The department of Endocrinology was started under professor of Medicine, Dr. Abdoul Hamide with Dr. Sadishkumar @ Kamalanathan as assistant professor of Endocrinology in 2010. Ever since, it has been on the forefront of management of endocrine and metabolic disorders in JIPMER catering to both inpatient as well as outpatient services. It currently has 6 beds in Superspecialty block.

The department periodically conducts 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.

CONTINUING MEDICAL EDUCATION PROGRAMMES

Dr. Sadishkumar @ Kamalanathan

1. Organized a guest lecture by Dr. Prakash Abraham in Superspecialty Conference hall of JIPMER on topic “Graves’ disease-Treatment options” on July 25, 2011.


3. Gave a guest lecture on topic “Thyrotoxicosis Management -Pathways To Cure” in St Joseph of Cluny Hospital, Puducherry on September 11, 2011.

4. Gave a guest lecture on “Complications of Type 1 Diabetes- Clinical and Lab monitoring” in “Childhood Diabetes Update” in Kanchi Kamakoti Childs Trust Hospital, Chennai on October 21, 2011.

5. Participated in panel discussion on theme: “Act on Diabetes Now” as part of C.M.E. programme on World Diabetes Day-2011 held in JIPMER Superspecialty Block on December 11, 2011.

CONFERENCES

National
Completed a IOF Bone Densitometry Certified Course - 2011 - ISBMR on September 29-30, 2011

- Attended 7th ISBMR conference in Chennai between October 1-2, 2011.
- Attended 41st Annual Conference of the Endocrine Society of India, which was held in Pune from December 1-3, 2011.
- Made a poster presentation on December 2, 2011 "Symptomatic Primary Hyperparathyroidism – Initial Experience of Atypical Presentations in JIPMER" in 41st Annual Conference of the Endocrine Society of India, held in Pune.

International
- Attended scientific conference of the International Association of Diabetes and Pregnancy Study Groups (IADPSG) which was held from February 24-26, 2012 at Chennai.

RESEARCH PROJECTS

Collaborative Projects

- 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)
- Effect of high dose water soluble vitamin supplementation on insulin resistance, oxidative stress and homocysteine in subclinical hypothyroidism-A randomized controlled study. (With department of Biochemistry)
- Bone Health in Middle Aged and Elderly Men. A Hospital based study. (With department of Medicine and Biochemistry)
- Effect of thyroxin on endothelial function and cardiac manifestations in women with subclinical hypothyroidism. (With departments of Cardiology and Biochemistry)
- Endothelial function and sympathovagal balance in relation to cardiac abnormalities in Graves' disease. (With department of Cardiology, Physiology and Biochemistry)
- Determinants of Natural history in acquired central demyelinating diseases: A comparative study between multiple sclerosis, Neuromyelitis optica, relapsing ADEM and Central nervous system Lupus. (with department of Neurology and Immunology)
- Inflammatory markers and cardiac dysfunctions in hypothyroidism: Correlation with sympathovagal imbalance. (with department of Physiology)
Interinstitutional interdepartmental projects

- Genotype, Phenotype and Radiological correlation of Growth Hormone Deficiency (With department of Endocrinology, SGSMC & KEM Hospital, Mumbai and with departments of Pharmacology, Pediatrics, Radiology and Biochemistry, JIPMER)
- Genotype, phenotype and radiological correlation of Idiopathic Hypogonadotrophic Hypogonadism (With departments of Pharmacology, Medicine, Radiology and Biochemistry, JIPMER)
- Genotype-Phenotype Correlation in Indian Patients with Pheochromocytoma / Paraganglioma (PH/PGL) (With departments of Pharmacology, Surgery and Radiology, JIPMER)

PUBLICATIONS

Journals

Book Chapters

PATIENT CARE SERVICES

The OPD strength increased to 11,387 in the last year as compared to 7,806 in the year before. Similarly the IPD strength increased to 232 in last year from 226 in the year before.

EDUCATIONAL, RESEARCH AND OTHER ACHIEVEMENTS

- Peer reviewer for “Indian Journal of Endocrinology and Metabolism”
- Peer reviewer for “Journal of Pharmacology and Pharmacotherapeutics”
- Peer reviewer for “Journal of Clinical and Scientific Research”

AWARDS, HONOURS AND PERSONAL ACHIEVEMENTS

Got second prize in Endocrine Writing in IJEM Annual Awards 2011 for Best Letter to editor category for manuscript titled “Symptomatic primary hyperparathyroidism in Indians”.

SIGNIFICANT EVENTS IN THE DEPARTMENT

Dr. Prakash Abraham consultant endocrinologist in Aberdeen Royal Infirmary, Aberdeen visited our department between July 25-26, 2011.

The department of Endocrinology conducted Karaikal Outreach camp on May 14, July 9, September 3, October 29 and December 24 of 2011 and February 18 of 2012 in co-ordination with departments of Immunology and Medicine.
8.9 ENT

Professor & Head
S. Gopalakrishnan

Professor
Sunil Kumar Saxena

Assistant Professors
Pradipta Kumar Parida
Arun Alexander

BACKGROUND INFORMATION OF THE DEPARTMENT

The origin of Department of Oto-Rhinolaryngology & Head Neck Surgery dates back to November 1956 when Ecole De Medicine De Pondicherry established in 1823 (maintained by the French Government) was taken over by Government of India. Dr. O.P. Gupta (retired as Professor of ENT, BHU Varanasi) was the first Head of the Department followed by Dr. Hullgol of Bombay University. Dr. P.B. Rao, M.S., FRCS, became Professor and Head of ENT Department in 1965 during which period the microsurgery of the ear and larynx were undertaken with highly gratifying results. Prof. K.L. Sawhney took up the reign after him followed by Prof. N.K. Majumdar, who started all types of major Head & Neck surgeries for malignancies of upper airway and anterior skull base surgery from 1986. The Department has been doing Functional Endoscopic Sinus Surgery (Video Monitored) from 1995 with excellent results. The Department has been using Microdebriders/ Tissue shaver in the Functional Endoscopic sinus surgery from 1999. The Audiology Section is equipped with GSI 33 &GSI 61 Audiometers from 1996. The sophisticated BERA and OAE have been installed in the Department from the year 1998 to facilitate enhanced audiological evaluation.

In collaboration with the neurosurgery, the department is pioneering minimally invasive skull base tumor treatments and minimally invasive Pituitary surgery. The department is planning to start image guided surgery in the current academic year which will provide a good gateway for expanded Endoscopic Skull Base Surgery. The introduction of VEMP in the battery of otoneurological investigations has led to advanced evaluation of patients. The department is planning to start basic skill training center which will pave way for better training of undergraduate and postgraduate trainees.

EDUCATIONAL COURSES

Undergraduate Courses

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

Postgraduate Degree course M.S., (ENT) was started in 1969 with present yearly intake of 4 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 presentation, seminars and journal clubs.

DHLS (through e-mode)

Diploma in Hearing and Language Speech course, for 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. Four batches have already completed. The fresh batch was admitted for the year 2011-2012 (consisting of 21 students). 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 since 2007 in addition to his own duties and responsibilities as Professor and Head of ENT, JIPMER.

CONTINUING MEDICAL EDUCATION

Dr. S. Gopalakrishnan

- Attended the workshop on Pharmacovigilance conducted by the Department of Pharmacology at JIPMER on 29/04/2011.
- Attended the WHO Meet on Antimicrobial Resistance conducted by the Department of Microbiology on 07/04/2011 at JIPMER.
- Attended the workshop on “Recent Advances in the management of Glioma” held on August 27, 2011 at JIPMER.
- Attended all the workshops conducted by AOI, Puducherry Chapter in February, 2012.

Dr. Sunil Kumar Saxena

- Attended the workshop on “Recent Advances in the Management of Glioma” held on 27th August, 2011 in JIPMER.
- Attended all the workshops conducted by the AOI, Puducherry Chapter in February, 2012.

Dr. Pradipta Kumar Parida

- Attended the workshop on “Recent Advances in the Management of Glioma” held on 27/8/2011 in JIPMER.
- Attended the WHO meet on Antimicrobial Resistance conducted by the Department of Microbiology on 07/04/2011 at JIPMER.
- Attended all the workshops conducted by AOI, Puducherry Chapter in February, 2012.
Dr. Arun Alexander

- Attended the workshop on “Recent Advances in the Management of Glioma” held on 27/8/2011 at JIPMER.
- Attended CME on Short term course on basic epidemiology, held from 14/11/11 to 19/11/11 at JIPMER, Puducherry.
- Attended all the workshops conducted by AOI, Puducherry Chapter in February, 2012.

Senior Residents Dr. G. Sivaraman, Dr. Siddananada Kumar, Dr. Kiruba Shankar, Dr. Satvinder Singh Bakshi and Junior Residents Dr. Kalaiarasi, Dr. Amjad Farook & Dr. Sabarinath

- Attended the CME on Newer Developments on HIV, conducted by the Department of Microbiology on 21/03/2012 at JIPMER.
- Attended all the Workshops conducted by the AOI, Puducherry Chapter, in February, 2012.

CONFERENCES

Dr. Sunil Kumar Saxena

- Attended the 4th Global Post-Laryngectomy Rehabilitation Workshop conducted by TATA Memorial Hospitals, at Mumbai in 3-4th March, 2012.

Dr. Pradipta Kumar Parida

- Presented a paper on “Clinical Presentation and Management of Lateral Sinus Thrombosis” at the Academic Meeting of AOI, Puducherry chapter on 26/8/2011.
- Presented a paper on “Laryngotracheal trauma – our experience” at the Academic Meeting of AOI, Puducherry chapter on 21/10/2011.

RESEARCH PROJECTS

Departmental Projects

Completed

- Dr Santosh Kumar S - A comparative study of Temporalis fascia graft and vein graft in myringoplasty
- Dr Krishnapriya S - The efficacy of diode laser and radiofrequency turbinate reduction in the treatment of inferior turbinate hypertrophy – a comparative study
- Dr Venugopal - Role of diffusion weighted MR imaging in identification of residual cholesteatoma in Post mastoidectomy patients.
- Dr. G. Sivaraman - Vestibular Evoked Myogenic Potentials in Patients with benign Paroxysmal Positional Vertigo in S. India
- 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
Ongoing

- Dr. Arun Alexander - Prospective Study on audiological changes in patients treated with radiotherapy for Head and neck cancers.
- Dr. Arun Alexander - Evaluation of Postoperative Bleeding with application of autologous platelet rich plasma following Hemithyroidectomy. A Randomized Controlled Trial.
- Dr. Amjad Farook - Efficacy of Triamcinolone nasal pack in endoscopic sinus surgery- a randomized controlled study
- Dr. Kalaiarasi - Randomized controlled study comparing the hearing outcomes of diode laser stapedotomy with conventional stapedotomy in Otosclerosis.
- Dr. Raju Naik Ajmeera - A randomized controlled study of middle meatal antrostomy with or without partial middle turbinectomy in the management of chronic sinusitis.
- Dr. Shilpa Diwakaran - Role of CO2 laser in the treatment of benign laryngeal lesions- A descriptive study
- Dr. V. Sabarinath - Comparative study between KTP laser turbinate reduction and surgical turbinoplasty in the management of inferior turbinate hypertrophy.

Collaborative Projects

Ongoing

- Dr. Niraimathi (Pathology) - Role of FNAC in the diagnosis of salivary gland neoplasms, a comparative analysis with histopathology
- Dr. Suguna E (PSM) - Prevalence and determinants of hearing impairment among 5 to 14 years children
- Dr. Gangotri (Radiotherapy) - Effect of HDR brachy-therapy-interstitial boost in early stage squamous cell carcinomas of oral cavity.
- Dr. Harshitha (Radiotherapy) - Assessment of auditory function in head and neck cancer treated with intensity modulated radiotherapy

PUBLICATIONS


PATIENT CARE SERVICES
The department of ENT is running regular OPD services on all working days from 8.30 am to with the daily OPD attendance of approximately 280. Besides regular OPD, a special cancer clinic is run on Tuesday afternoon wherein the average OPD attendance is 90 (approximately). In patient care services are provided from 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 96.29% last year with turnover interval of 1.3.

The average number of surgeries done in the main Operation Theatre per month is 180-200 approximately. The number of procedures done in the minor OT & emergency services range 200-220 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 is doing more sophisticated micro surgery of the ear and larynx, head and neck cancer surgery and endoscopic nasal surgery with excelent results.

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS
Dr. S. Gopalakrishnan had acted as adviser to UPSC and had undertaking the assignments by MCI as Inspector in various medical colleges for starting of UG and PG courses. At the institute level, he has been acted as active member of the Hospital Purchase Committee and Operating Services Monitoring Efficiency Committee. He has been member of OT Committee and chairman of OT 3/4. He has been moderator for microteaching for postgraduate orientation program. He has been the moderator for thesis protocol presentation for various departments.
SIGNIFICANT EVENTS IN THE DEPARTMENT

- Dr. Kiruba Shankar, Senior Resident, got the Gold medal in DNB ENT Examination for the academic year 2010-2011.
- Dr. Santhosh Kumar, Junior Resident, won the quiz competition held by AOI Puducherry chapter on August 2011.
- Dr. Amjad Farook, Junior Resident, won the prize in the quiz competition held by AOI Puducherry chapter on October 21st 2011.
- Establishment of LASER (carbon dioxide), diode, KTP laser in the Department of ENT as of its first kind.
- Establishment of VEMP as an investigation for Neurotology disorder in 2012.
- Establishment of latest version of OAE, BERA in audiological profile of investigations.
- The new costly equipments being procured are Video Rhinlaryngoscope, Brushless Micromotor, Set of Bronchoscope forceps, Pulse Oximeter, with the concurrence of the ERRC.
- Dr. Kiruba Shankar and Dr. Kalaiarasi attended, E-BOSS 2011 International workshop shop on Endoscopic Endonasal base of Skull surgeries and Sialendoscopy at Trichy, Tamilnadu, India, from 18/8/11 to 21/08/11.
- Dr. Kiruba Shankar presented a paper on “Primary Hyperparathyroidism and its Management” at the academic meeting of AOI, Puducherry chapter on 26/8/2011.
- Dr. Kalaiarasi attended a Live Temporal Bone Dissection and Ear Surgery workshop held from 24th to 26th February, 2012 at Basavangudi ENT Care Center, Bengaluru.
8.10 Forensic Medicine and Toxicology

Additional Medical Superintendent & In-charge
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 postmortems till 1987. Dr. Sharif was the first professor of forensic medicine under whose control the department was created. He was assisted by two faculty members Dr. Atul Murari and Dr. A Sahai. At present, there 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 is brought under the control of the medical superintendent.

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 2011 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 presentation, seminar/journal club 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 Ambika Prasad Patra Senior resident had attended the All India Forensic Medicine conference from 11th to 13th Feb 2012 and presented paper

- Consequences of illegal abortion – A Case Study by Dr Ambika Prasad Patra
RESEARCH PROJECTS

Departmental Projects

Completed

- Fatal wasp sting with pre-existing undiagnosed diabetes and hypertension. Siddhartha Das, Mukta V, Rakhee Kar, Kusa Kumar Shaha, Ambika Prasad Patra, Ashok Kumar Das.
- High voltage suicidal electrocution with multiple exit wounds. Siddhartha Das, Ambika Prasad Patra, Kusa Kumar Shaha, Sarath Chandra Sistla.

Ongoing

- Dr. Kusa Kumar Shaha - Thermal Burn: An Epidemiological retrospective Study
- Dr. Kusa Kumar Shaha - Epidemiology of Suicide by Hanging in Pondicherry
- Dr. Kusa Kumar Shaha - An epidemiological study of road traffic accident victims in medicolegal autopsies
- Dr. Siddhartha Das - Pattern of fatal head injuries due to vehicular accidents in Pondicherry.
- Dr. Siddhartha Das - Snake bite death
- Dr. Ambika Prasad Patra - Death due to Hymenoptera sting – A case report
- Dr. Ambika Prasad Patra - Socio demographic profile of poisoning cases

PUBLICATION

Journal


PATIENT CARE SERVICES

- The department conducts Medico Legal Postmortems which numbers to 752 in 2012.
- 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

- Life membership of Indian Academy of Forensic Medicine
- Evaluate the following MD thesis in Forensic Medicine
  1. Analytical study of asphyxial deaths due to hanging in and around Visakhapatnam
  2. A comprehensive study of deaths from corrosive poisoning
  3. A comprehensive study of deaths due to fire arm injuries
  4. A comprehensive study of deaths due to snake bite in and around Guntur
  5. A comprehensive study of deaths due to burns based on post mortem examinations conducted at Osmania General Hospitals / Osmania Mortuary
  6. A study of ligature mark in cases of hanging in Tirupati region
Dr. Siddhartha Das
1. Life membership of Indian society of toxicology
2. Life membership of Indian Academy of Forensic Medicine

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. Kusa Kumar Shaha
1. Examiner for MBBS at different state Universities like Pondicherry, Tamilnadu, Andhra Pradesh, Karnataka and Kerala.
2. 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 intake of two 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 37 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. Subsequently, in the year 1987, a faculty in the discipline had joined as Associate Professor of Biometrics and was temporarily placed in the Department of Preventive & Social Medicine till an independent Division of Biometrics became functional in the year 2001. Since the very inception in March 1987, the Division of Biometrics had been actively involved in teaching ‘Biostatistics & Demography’ to all the Undergraduates and ‘Biostatistics & Research Methodology’ to Post Graduate medical & paramedical students. Also, throughout the period, regular consultations and guidance were provided to the Postgraduate students, PhD scholars, Faculty and staff in various academic Departments of the Institute for designing their research protocols & projects, analyzing the data and interpreting the results.

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 course 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 regular faculty and staff positions proposed for the Department are yet to be sanctioned and created during the Twelfth Plan period; however, administrative approval for contractual appointments of essential faculty and technical staff is in process to start the above teaching programs with effect from the academic sessions 2012-13. Also, the draft curricula for M.Sc. course are expected to be approved soon by Dean’s office through a curricula committee to be appointed for the purpose.
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 Post-Graduates 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 analyses and theses writing for 3rd year Postgraduates during the month of April, every year.

The Department of MB & I in coordination with the Medical Education Department has successfully upgraded the academic inputs with minor restructuring of contents of the “Statistical Analyses” domain of the PG Workshop on Research Methodology – part – II, held during 18th to 21st APRIL 2011. Three of the four half-days’ PG Workshop, were devoted to 6 (Six) sessions; Two per day on broad topics, such as, ‘Preparation of data for Analyses and Presentation’; ‘Descriptive and Summary Statistics’ on Day – 1, followed by Group- works and plenary sessions; On Day – 2, the topics ‘Inferential Statistics’, ‘Tests for Bi-variate and Multi-variate Associations’ and ‘Evaluation of Diagnostic Tests’ were covered on similar format of each interactive talk followed by Group-work and plenary sessions; On Day – 3, the topics ‘Correlation and Regression Analyses’ and ‘Tests for comparing two or more means’ were once again conducted on similar lines. More than 80 postgraduates and research scholars have participated.

The Department of MB & I organized a Seminar on “Research Designs; Sample and Basic Steps involved in Project formulation”, on 17th September, 2011, to help faculty and staff to submit their research proposals to JIPMER Scientific Advisory Committee (JSAC) on the prescribed Format. Major topics covered included; ‘Research foundations & basic concepts’; ‘Talk on Intramural funding and launching of SPSS Software Facility’; ‘Research Designs: Population based field studies, Clinical trials & Laboratory & Animal experiments’; ‘Questionnaires & interview schedules’; ‘Writing Proposals for Successful Funding’; ‘Sampling Concepts & Sample size’; ‘Descriptive & Inferential Statistics’; Open House Session’. A total of 56 faculty and research Scholars / staff have participated.

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

- Invited as a resource faculty to attend the ‘Workshop on How & What to Teach in Community Medicine’, held at Department of Community Medicine, Indira Gandhi Medical College & Research Institute, Puducherry, on 2 & 3rd August, 2011, and Chaired a Session on “Models of Teaching in Community Medicine”.

JIPMER:2011:2012/208
• Invited as a resource faculty to attend the ‘National CME on Vector Borne Diseases: Indian Perspectives & Solutions’ held at Department of Community Medicine, PIMS, Puducherry, on 26th August, 2011, and was the Chairperson for the first forenoon Scientific Session on ‘Malaria’ with four speakers of imminence.

• Invited as a resource faculty to attend the ICMR Centenary Celebration and 29th Annual Conference of Indian Society for Medical Statistics (ISMS), held at Department of Statistics, National Institute for Research in Tuberculosis (NIRT, earlier called as Tuberculosis Research Center), ICMR, Chennai, between 3rd and 5th November 2011, and chaired a Technical Session on Statistical Modeling (HIV & GIS) -1; held on 3rd November 2011. Also, attended the Executive Council Meeting of ISMS in the evening 2nd November, 2011, as its ex-President and a special invitee.

• Invited as a resource faculty to attend the 56th Annual National conference of Indian Public Health Association (IPHA) held at IMA House, Kochi, Kerala, between 10th and 12th and pre-conference CME on 9th February 2012. Had presented a paper entitled as “Multi-centric Opinion Poll of the Perceptions and Attitude towards Spiritual Health among Medical Fraternity” and acted as one of the Judges for the poster presentation sessions.

• Invited to attend as a resource faculty the 39th Annual National Conference of Indian Association of Preventive and Social Medicine 2012 (IAPSMCON 2012), held at Department of Community Medicine, Dr. Rajendra Prasad Government Medical College, Kangra, at Tanda, Himachal Pradesh, between 27th and 29th February 2012. Also, acted as moderator for the pre-conference CME on “Cost Effectiveness Analysis in Health Care” on 26th February 2012. Had presented a paper entitled as “Spiritual Dimension of Health and its Significance in Patient’s Care as Perceived by Teaching Medical Faculty” and chaired a Technical Session on “Non Communicable Diseases – I”.

• Invited as a resource faculty to attend the ‘11th Biennial Conference of the International Biometrics Society (Indian Region) – IBS-IR, on “Computational Statistics and Bio-Sciences”, held at Department of Statistics, Pondicherry University, Puducherry, between 8th and 9th March, 2012. Had chaired a Session of invited talks and also a Technical Session. Had the privilege of presiding over the “Valedictory Function” of the conference. Attended Executive Council meeting in the evening of 7th March 2012, as its member.

• Invited as a resource faculty and to coordinate workshop on “Research Methodology and Biostatistics” on 13th and 14th March, 2012, MGPGIDS, Puducherry.

Mr. K.T. Harichandarakumar

• Attended and presented a paper entitled as “Health Impact of Mass Drug Administration in India” in 29th Annual National Conference of Indian Society for Medical Statistics at Department of Statistics, National Institute for Research in Tuberculosis, ICMR, Chennai during 3rd to 5th November 2011.

• Attended as a resource person for the refresher course on Research Methodology conducted by UGC-Academic Staff College at Kannur University in Kerala during 19th and 20th January 2012 and delivered lectures on “Essentials in formulating Research Protocol” and “Research Methodology with special reference to Study Designs”
• Attended and presented a paper entitled as “Spatial and Temporal variations in Burden due to Accidental Deaths in India” in the National Seminar on Statistics and Related Areas [NSRTSRA] and the Annual Conference of Kerala Statistical Association at Department of Statistics, Calicut University, Kerala during 15th to 17th March 2012.

RESEARCH PROJECTS

The Department while providing statistical guidance to various research projects and postgraduate dissertations had taken the role of co-investigator to some 10 projects and as co-guide to 14 postgraduate dissertations as reflected and referred in the listing provided by the concerned Departments.

PUBLICATIONS

Journals


AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr. Ajit Sahai

1. Had the privilege and honor of being the President (2007 & 2008) of Indian Society for Medical Statistics (ISMS); and its Executive Committee member for the past 10 years (2002-2012).

2. Founder President of “Spirituality and Health Academy of India” (2001-12).

3. In recognition of national level outstanding contributions not only to own specialty of Medical Statistics but also to the disciplines’ of Epidemiology, Public Health and Preventive and Social Medicine, had been elected and honored as Fellow of IPHA, IAPSM and ISMS.

4. Founder President of the Pondicherry State (local) branch of Indian Public Health Association (IPHA) (2002-2007) and an ex-officio Executive Member of the National Central Council of IPHA 2002 onwards till 2012.

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. Executive member of International Biometric Society IBS (IR) – 2009 -10; re-elected 2011-12.
Dr. Ajit Sahai

- Have been identified and assigned various administrative responsibilities of the institute. These assignments included coordination tasks and preparation of reports.
  i. Had been charged with additional administrative responsibilities, such as;
  ii. Faculty-in-charge of Hindi Cell.
  iii. Member of Editorial Board of Annual Report of JIPMER.
  vi. Member of CRAFT Advisory Committee.
  vii. Member of Telemedicine Programme Committee.
- Have been a regular Member of Scientific Advisory Committee (SAC) of JIPMER. Have attended 4th and 5th meetings of JSAC, held during 2011-12; each loaded with more than 50 Research Project proposals for presentation and discussions that continued for two to three full-days’ duration for both the JSAC’s, followed by subsequent supplementary meetings.
- Have been serving as Editorial Adviser / Consultant and Reviewer for Journals & Bulletins of various academic societies such as; IJMR, ISMS, IJCM & IJPH etc.
- Have had been on the Editorial Board, as professional advisor, to some of the Indian Journals published through JIPMER; such as,
  i. Indian journal of Urology (of USI);
  ii. Indian Journal of Pharmacology (of IPS);
  iii. Biomedicine – an International Journal of Biomedical Sciences (of IABMS);
  iv. Indian journal of Dermatology, Venereology and Leprology (JJDVL);
- Continuing to be invited to act as Guest Faculty and a resource person to coordinate teaching in ‘Biostatistics and Research Methodology’ and organize workshops on ‘Critical Review of Dental Journal Articles’ for Postgraduates of MGPGIDS, U. T. of Government of Pondicherry - (1999-2012).
- Was invited and attended the selection committee meeting at UPSC, New Delhi, as subject expert for the part of Associate Professor of Biostatistics in September 2011.

Mr. K.T. Harichandarakumar

1. Have been serving as a reviewer for the Indian Journal of Dermatology, Venereology and Leprology (JJDVL) and Journal of Pharmacology & Pharmacotherapeutics.
2. Was deputed as Supervisor for the entrance examination for MBBS admission during 2011-2012, at one of the centers in Puducherry.
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 (till 04.12.2011)
   Dr. T.S. Ravikumar, Director, JIPMER & Project-Director, NTTC, JIPMER (since 05.12.2011)
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 & Head of Paediatrics.
6. Dr. Latha Chaturvedula, Professor of Obstetrics & Gynaecology
7. Dr. D. Kadambari, Professor of Surgery
8. Dr. Debdutta Basu, Professor of Pathology
9. Dr. R.P. Swaminathan, Professor of Medicine
10. Mr. Z. Zayapragassarazan, Assistant Professor of Educational Technology
11. Dr. Sitanshu Sekhar Kar, Assistant Professor of P&SM

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. Tumanablam, Additional Medical Superintendent
4. Dr. S.P. Subbaiah, Additional Medical Superintendent
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, Professor of Surgery
9. Dr. Dasari Papa, Professor of Obstetrics & Gynaecology
10. Dr. Debdutta Basu, Professor of Pathology
11. Dr. Soundravally, Assistant Professor of Biochemistry
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, Additional Medical Superintendent (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 & Informatics
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. Kadiravan, Asst. Prof. of Medicine
8. Dr. D. Kadambari, Prof. of Surgery
9. Mr. Harichandrakumar, Lecturer in Statistics & Demography

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

Micro Training on Journal Club
1. Dr. B. Vishnu Bhat, Professor & Head 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 Medical Biometrics & Informatics
4. Dr. R.P. Swaminathan, Professor of Medicine
5. Dr. S. Mahadevan, Professor of Paediatrics.
6. Dr. R. Raveendran, Professor of Pharmacology
7. Dr. Gautam Roy, Professor of P&SM
8. Dr. T. Kadhiravan, Assistant Professor of Medicine
9. Mr. Harichandra Kumar K.T, Lecturer in Statistics & Demography
10. Dr. A. Surendran, Senior Resident, Dept. of Pharmacology

V. JIPMER News Editorial Board

Editor-in-Chief
Dr. K.S.V.K. Subba Rao, Director (till 04.12.2011)
Dr. T.S. Ravikumar, Director, (since 05.12.2011)

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 (till 04.12.2011)
   Dr. T.S. Ravikumar, Director, JIPMER & Project-Director, NTTC, JIPMER (since 05.12.2011)
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 & Head of Paediatrics.
3. Dr. Latha Chaturvedula, Professor of Obstetrics & Gynaecology
4. Dr. D. Kadambari, Professor of Surgery
5. Dr. Debdutta Basu, Professor of Pathology
6. Dr. R.P.Swaminathan, Professor of Medicine
7. Mr. Z. Zayapragassarazan, Assistant Professor of Educational Technology
8. Dr. Sitanshu Sekhar Kar, Assistant Professor of P&SM

VII. JIPMER Annual Report Editorial Board

Chief Editor
Dr. K.S.V.K. Subba Rao, Director (till 04.12.2011)
Dr. T.S. Ravikumar, Director (since 05.12.2011)
Members
1. Dr. P.H. Ananthanarayanan, Prof. & Head, Dept. of Biochemistry & Faculty (Admin.)
2. Dr. Santosh Kumar, Prof & Head, Dept. of Urology & Medical Education (Coordinator)
3. Dr. C. Adithan, Prof. & Head, Dept. of Pharmacology
4. Dr. Ajit Sahai, Prof. & Head, Dept. of Biostatistics
5. Dr. A. Tumohanath, Additional Medical Superintendent
6. Dr. G.K. Pal, Prof., Dept. of Physiology
7. Dr. D.M. Thappa, Prof. & Head, Dept. of Dermatology & STD
8. Dr. Sunil K. Narayan, Prof. & Head, Dept. of Neurology
9. Dr. D. Kadambari, Prof., Dept. of Surgery
10. Dr. Kadhiravan T, Asst. Prof., Dept. of Medicine
11. Mr. Z. Zayapragassarazan, Asst Prof., Dept of Medical Education (Jt. Coordinator)
12. Dr. Sitanshu Sekhar Kar, Asst. Prof., Dept. of P&SM
13. Dr. Jharna Mandal, Asst. Prof., Dept. of Microbiology
14. Dr. Laxmisha Chandrashekhar, Asst. Prof., Dept. of Dermatology & STD
15. Dr. Venkatesh Shankar Madhugiri, Asst. Prof., Dept. of Neurosurgery
16. Mr. A. Rajavelu, Officer In-Charge, Printing & Stationery

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 four such National Courses have been conducted and a total of 1457 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.
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)
   - 63rd National Course on Educational Science for Teachers of Health Professionals was held from September 5 to 15, 2011 at JIPMER, Pondicherry.
   - 64th National Course on Educational Science for Teachers of Health Professionals was held from February 15 to 25, 2012 at JIPMER, Pondicherry.

2. Interns Orientation Programme on Quality Care (Twice a year)
   - Interns Orientation Programme on Quality Care was held on July 1 and 2, 2011 at JIPMER, Pondicherry.
   - Interns Orientation Programme on Quality Care was held on January 9 and 10, 2012 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 2011 was held on July 28 and 29 and August 1 and 2, 2011 at JIPMER, Pondicherry.

4. Third Year Postgraduate Orientation Programme on Research Methodology
   - Third Year Postgraduate Orientation programme on Research Methodology for the year 2011 was held on April 18, 19, 20 and 21, 2011 at JIPMER, Pondicherry.

CONTINUING MEDICAL EDUCATION PROGRAMMES

Telemedicine Programme Committee
- Dr. K.S.V.K. Subba Rao, Director (till 04.12.2011)
- Dr. T.S. Ravikumar, Director (since 05.12.2011)
- 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

CONTINUING MEDICAL EDUCATION PROGRAMMES
- A Workshop on Modernizing Medical Training: Replacing Animals in MBBS Programme was organized by the Department of Medical Education sponsored by People for Ethical Treatment of Animals (PETA) on 17th January 2012 in the SS Block Conference Hall.
- A Guest Talk on “The Use of E-learning in Graduate and Postgraduate Medical Education in UK” by Prof. David Dewhurst, Prof. of e-learning, Jeanne Marchig Prof. Fellow of Replacement Alternatives in Higher Education, Director of Educational
Information Services, College of Medicine & Veterinary Medicine, University of Edinburgh, Edinburgh, U.K and “The use of Simulation in Graduate and Postgraduate Medical Education in USA” by Dr. John Pawlowski, Asst. Prof., Harvard Medical School, Director of Thoracic Anesthesia, Beth Israel Deaconess Medical Center, Boston, MA, U.S.A. was held on 18th January 2012 between 9am-1pm in the NTTC Seminar Hall.

- A CME on Innovations in Medical Curricula by Dr. P.H. Ananthanarayanan, Professor & Head of Biochemistry and Dr. Santosh Kumar, Professor & Head of Medical Education was organised by Department of Medical Education on 13th February 2012 between 2.30pm-4.30pm in the SS Block Conference Hall.
- A CME on “Curricular Reforms in Medical Education” by Dr. P.T. Jayawickramarajah, MBBS (Colombo), MEd (Illinois), PhD (Groningen), PhD (Southampton), FColIP, Head, Dept. of Medical Education & Research, Faculty of Health-Care Sciences, Eastern University, Sri Lanka was organised by Department of Medical Education on 9th March 2012 between 2pm-4.30pm in the SS Block Conference Hall.

E-learning and Tele Education

- A demonstration on Web based problem based learning and problem solving by UPACAAR, Bangalore was organised in the Department of Medical Education on 5th July 2011 at 3 pm in the NTTC Seminar Hall.
- A demonstration session on Newer Technologies in Medical Education- “Virtual Reality Simulation”, Mentice, Sweden and sponsored by MRIPL Chennai was organised in the Department of Medical Education on 27th September 2011 between 11am -3pm in the NTTC Seminar Hall.
- A Scientific Speaker Session – Webcast on the topic “Preterm Nutrition” was organized in collaboration with Nestle’ India Limited and Department of Pediatrics, JIPMER in the NTTC Seminar Hall on 16th March 2012 from 1.45 pm to 3.30 pm.

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.

CONFERENCES

- The Alumni Association of NTTC, JIPMER (AANJ) under the aegis of Department of Medical Education organised the fourth Medical Education Conference (MEDUCON – 2011) on 1st & 2nd October 2011 in the SS Block Conference Hall.
- A pre-conference workshop on Assessment in Posgraduate Medical Education was organised on 30th September 2011 in the NTTC Seminar Hall.
Mr. Z. Zayapragassarazan

- Attended the National Knowledge Network (NKN)–Garuda partners meet held on 15th & 16th July 2011 at Bengaluru.
- Attended the 7th Annual International Telemedicine Congress held in Mumbai from 11-13 November 2011. He presented a paper on Awareness, Knowledge, Attitude and Skills of Telemedicine among the Health Professionals working in Puducherry Region.

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 Second JIPMER Annual Report for the year 2010-11 which was tabled in the Parliament Budget Session 2012.

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 2011 and March 2012.

Journals

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr. Santosh Kumar
1. Organization of III Year Postgraduate Orientation Program, April 2011.
2. Organization of Fourth Meeting of JIPMER Scientific Advisory Committee, April 2011.
3. Organization of Subcommittee Meeting of JSAC for students’ projects, May 2011.
4. Organization of Interns Orientation Programme, July 2011.
5. Organization of I year Postgraduate Orientation Program, July 2011.
6. Organization of 63rd National Course on Educational Science for Teachers of Health Professionals, September 2011.
7. Organization of Fifth Meeting of JIPMER Scientific Advisory Committee, November 2011.
8. Organization of Interns Orientation Programme, January 2012.
10. Organization of 64th National Course on Educational Sciences for Teachers of Health Professionals, February 2012.
11. Member of the Organizing Committee for MEDUCON 2011 held on 30th September 2011, 1-2 October 2011 at JIPMER.
12. Organizing Secretary for CME on Replacing Animals in MBBS Programs Sponsored by People for the Ethical Treatment of Animals (PETA) India held on 17th January, 2012 at JIPMER.

Mr. Z. Zayapragassarazan
2. Conducted classes on Telemedicine and Medical Tourism for students of Medical Records Technician Course and Medical Records Officer Course.
3. Project staff of National Knowledge Network (NKN).
5. Resource Person for UGC Academic Staff College, Kannur, Kerala.
6. Member of the Board of Supervising Examiners for Pondicherry University for conducting B.Ed. Practical Examinations.
7. Member of the Organizing Committee for MEDUCON 2011 held on 30th September 2011, 1-2 October 2011 at JIPMER.
8. Joint Organizing Secretary for CME on Replacing Animals in MBBS Programs Sponsored by People for the Ethical Treatment of Animals (PETA) India held on 17th January, 2012 at JIPMER.
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
3. Co-ordinator for the preparation of Research Framework Document (RFD) of JIPMER.

Mr. Z. Zayapragassarazan
1. Officer in-charge of Central Library, JIPMER.
2. Officer-in-charge of stores of the Medical Education Department
3. Member of the Technical Specification approval Committee for Central Library, JIPMER.
4. Technical Officer for National Knowledge Network (NKN), JIPMER.
5. 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.
6. Co-ordinator for the preparation of Research Framework Document (RFD) of JIPMER.
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.

SIGNIFICANT EVENTS IN THE DEPARTMENT

Results Framework Document
The Department of Medical Education was entrusted in the preparation of Results Framework Document for JIPMER for the year 2011-12 & 2012-13. This was prepared and sent to the Ministry of Health and Family Welfare, Government of India under the chairmanship of Dr. T.S. Ravikumar, Director, JIPMER with the following faculty as members.

Dr. Badrinath S, Project Co-ordinator
Dr. P. H. Ananthanarayanan, Prof. & Head, Dept. of Biochemistry
Dr. Santosh Kumar, Prof. & Head, Dept. of Medical Education
Dr. Thumbanatham A, Additional Medical Superintendent
Mr. Z. Zayapragassarazan, Asst. Prof., Dept. of Medical Education
8.13 Medical Gastroenterology

Professor & In-charge
D.K.S. Subrahmanyam
Assistant Professors
Lakshmi CP
Amit Goel

BACKGROUND INFORMATION OF THE DEPARTMENT

The Department of Medical Gastroenterology has been functional since March 2010 with a bed strength of 4. The department provides outpatient and inpatient services and endoscopy services both diagnostic and therapeutic.

EDUCATIONAL COURSES

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

CONTINUING MEDICAL EDUCATION PROGRAMS

Dr. Lakshmi CP
- Joint organizers of a symposium on viral hepatitis jointly organized by the departments of Medical and Surgical Gastroenterology on 6th August 2011, as part of world hepatitis day awareness programme.
- Co-ordinated the JIPMER outreach superspeciality health camps at Karaikkal once in every 8 weeks.
- Actively involved in the gut club of Pondicherry CME programmes being conducted once in every 2 months.
- Delivered a talk on management of liver disease in hepatitis B in a CME organised by Astra Zeneca on 8-3-2011.

Dr. Amit Goel
- Joint organizers of a symposium on viral hepatitis jointly organized by the departments of Medical and Surgical Gastroenterology on 6th August 2011, as part of world hepatitis day awareness programme.
- Co-ordinated the JIPMER outreach superspeciality health camps at Karaikkal once in every 8 weeks.
- Actively involved in the gut club of Pondicherry CME programmes being conducted once in every 2 months.
CONFERENCES
Dr Lakshmi CP

- Attended the 52nd Annual conference of the Indian Society of Gastroenterology held in Coimbatore from November 18-22, 2011
- Attended the Indian Society of Gastroenterology Kerala Chapter conference held at Thiruvananthapuram from 17th to 18th March 2012.

Dr Amit Goel

- Attended the 21st Annual conference of the Pediatric Gastroenterology, Hepatology and Nutrition held in Gurgaon from 4th – 6th Nov 2011
- Attended the 52nd Annual conference of the Indian Society of Gastroenterology held in Coimbatore from November 18-22, 2011
- Attended the “Cochrane Protocol Development Workshop” at Vellore, from 12th to 18th Feb 2012

RESEARCH PROJECTS
Dr. Lakshmi CP

- Principal investigator in the project “Cytokine profile in pancreatic ductal fluid in Indian patients with chronic pancreatitis”- study approved by JIPMER Scientific Advisory Committee and pending for approval from JIPMER Ethics committee, received intramural funding grant of Rs 1 lakh per year for two years for the project., (Collaborating with the department of Surgical Gastroenterology and Biochemistry).
- Co investigator to the project “Bacterial profile of pancreatic ductal fluid in patients with chronic calcific pancreatitis undergoing lateral pancreaticojejunostomy” approved by JIPMER Scientific Advisory Committee and pending for approval from JIPMER Ethics committee, collaborating with the departments of Surgical Gastroenterology and Microbiology.
- Coinvestigator to the project titled “Sensitivity and specificity of qualitative and quantitative Tc 99 sulphur colloid scintigraphy in differentiating cirrhosis from non cirrhotic portal fibrosis” approved by JIPMER Scientific Advisory Committee and JIPMER Ethics committee, collaborating with the departments of Surgical Gastroenterology and Nuclear Medicine.
- Co-investigator to the project titled “Argon plasma coagulation versus steroid sucralfate retention enema as primary therapy for chronic radiation proctitis-a prospective randomized controlled trial” approved by JIPMER Scientific Advisory Committee and pending for approval from JIPMER Ethics committee, collaborating with the departments of Radiotherapy and Surgery
- Co-guide to a ICMR short term studentship project accepted by ICMR for Chanchal Kumar Singh, MBBS student, JIPMER on the topic “Effect of Helicobacter pylori eradication on platelet counts in patients with immune thrombocytopenic purpura.”
- Co-guide to MD thesis project of Dr Kalaimani, Junior Resident, Department of medicine, on “Clinical profile of patients with non cirrhotic portal fibrosis and autonomic function test in these patients compared to those with cirrhosis”
• Co guide to MS thesis project of Dr Ravinder Naik, JR, Department of General Surgery on “Effect of Helicobacter pylori eradication on platelet counts in patients with immune thrombocytopenic purpura.”

• Co investigator for the project titled "Prevalence of restless legs syndrome in cirrhosis” approved by JIPMER Scientific advisory committee, collaborating with the department of Neurology

Dr. Amit Goel

• Co-investigator in the project “Cytokine profile in pancreatic ductal fluid in Indian patients with chronic pancreatitis”- study approved by JIPMER Scientific Advisory Committee and pending for approval from JIPMER Ethics committee, received intramural funding grant of Rs 1 lakh per year for two years for the project., (Collaborating with the department of Surgical Gastroenterology and Biochemistry).

• Co investigator to the project “Bacterial profile of pancreatic ductal fluid in patients with chronic calcific pancreatitis undergoing lateral pancreaticojejunostomy” approved by JIPMER Scientific Advisory Committee and pending for approval from JIPMER Ethics committee, collaborating with the departments of Surgical Gastroenterology and Microbiology.

• Co-investigator to the project titled “Sensitivity and specificity of qualitative and quantitative Tc 99 sulphur colloid scintigraphy in differentiating cirrhosis from non cirrhotic portal fibrosis” approved by JIPMER Scientific Advisory Committee and JIPMER Ethics committee, collaborating with the departments of Surgical Gastroenterology and Nuclear Medicine.

• Co-investigator to the project titled “Argon plasma coagulation versus steroid sucralfate retention enema as primary therapy for chronic radiation proctitis-a prospective randomized controlled trial” approved by JIPMER Scientific Advisory Committee and pending for approval from JIPMER Ethics committee, collaborating with the departments of Radiotherapy and Surgery.

• Co investigator for the project titled ”Prevalence of restless legs syndrome in cirrhosis” approved by JIPMER Scientific advisory committee, collaborating with the department of Neurology.

PUBLICATIONS

Journals


5. Amit Goel “Antibiotics in hepatic encephalopathy” along with Dr Maicon Falavigna from Brazil (in press).


Book Chapters

Dr. Lakshmi CP
2. Co author for the chapter on Low anterior resections in the medscape e medicine online library

Dr. Amit Goel

Contributing to a book chapter on “Viral hepatitis A to GH, a surgeon’s perspective” in the forthcoming textbook of the Indian Association of Surgical Gastroenterology (in press).

PATIENT CARE SERVICES

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 80-90 patients per OPD.

Endoscopy:

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

The following new procedures were started in the department during the previous year, when MGE OT 6 in OT complex SSB started functioning (on 20-6-2011)

1) Therapeutic ERCP (Endoscopic Retrograde Cholangio pancreatography) with plastic stenting
2) Therapeutic ERCP with stone extraction
3) Therapeutic ERCP with stricture dilatation
4) Therapeutic ERCP with biliary metallic stenting
5) Fluoroscopic achalasia cardia dilatation
6) Fluoroscopy guided oesophageal stricture dilatation
7) Fluoroscopy guided pyloric stricture dilatation
8) Fluoroscopy guided colonic dilatation
9) Colonoscopic decompression of intestinal pseudo obstruction
10) Percutaneous endoscopic gastrostomy
11) Gastric variceal glue injection
12) Oesophageal metallic stenting
13) Fluoroscopy guided naso-jejunal tube placement
14) Endoscopic polypectomy
15) Post cricoid web dilatations

**IPD Services**
There are 4 beds currently allotted to the department of Medical Gastroenterology in Ward 137, 3rd floor SSB, with bed occupancy rate of nearly 100% persistently.

**AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS**
Dr Lakshmi CP is a peer reviewer for three pubmed indexed journals- The Indian Journal of Gastroenterology, Indian Pediatrics and Journal of Pharmacology and Pharmacotherapeutics.

**Memberships – Professional Bodies**

**Dr. Lakshmi CP**
- Life member of Indian Society of Gastroenterology
- Life member of Gut club of Puducherry, an association of Medical and Surgical Gastroenterologists of the city.

**Dr. Amit Goel**
- Life member of National Academy of Medical Sciences (MNAMS)
- Life member of Indian Academy of Pediatrics (IAP)
- Life member of Indian Society of Gastroenterology (ISG)

**SIGNIFICANT EVENTS IN THE DEPARTMENT**
- Dr Amit Goel joined as Assistant Professor on 19-4-2011
- IPD endoscopy services were started in MGE OT 6 in SSB on 20-6-2011
- Several advanced endoscopic procedures were started for the first time in JIPMER by the department during the year (list as given above)
- A modular electrosurgical cautery system was procured by the department during the year and a high definition endoscope with processor in under the process of purchase. The department plans to increase the number of endoscopy tables daily from 1 to 2. Work has been started in refashioning of the current endoscopy recovery room to accommodate the second endoscopy table as well as a recovery area. With this we plan to reduce the waiting period for endoscopic procedures.
**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 department is provided with 12 inpatient beds, state of art four bedded intensive care unit for the care of critically ill cancer patients, day care facility and Minor OT theatre.

The department faculty actively takes part in various specialty tumor clinics (Surgery and Breast oncology clinic, Hemato-oncology clinic, Neuro-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 department has two dedicated medical social workers under the IPOI project who take care of Psycho-social counseling, data entry and pediatric cancer registry.

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 Karaikal.

In future, the department is actively 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.
2. Post graduate training programmes- 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.
   - Department of Clinical Hematology - Postgraduate students are posted for 4 months
   - Department of Medicine- Postgraduate students are posted for 15 days
   - Department of Radiotherapy- Postgraduates for a period of 1 month
   - Department of Pharmacology- DM senior resident for a period of 1 month
   - Speciality postings for Surgery postgraduates from MGMCR, Puducherry for a period of 10 days
CONTINUING MEDICAL EDUCATION PROGRAMS

Dr. Biswajit. D

- Panelist for “Management of Fungal infections” conducted by Infectious Diseases Society, Tamilnadu Chapter on August 2011 at Chennai.
- Panelist for Breast Cancer update conducted by ISMPO on 22nd and 23rd October 2011 at Gurgaon, New Delhi.
- Delivered a talk on “Cancer Screening” on 24th March 2012 at Neyveli General Hospital, Neyveli.
- Attended a Hemato-oncology CME “Hemocon 2011” and delivered a talk on “What to do and not to do in Acute Leukemia” at Madurai on 17th March 2012.
- Attended a Hemato-oncology conference and chaired a session on “Monitoring CML & experience in Nilotinib” on 5th & 6th of August at Kidwai, Bangalore.
- Attended and organized a CME on Glioma in 27th August 2011 at JIPMER, Puducherry.

Dr. Ankit Jain

- Panelist for Lung Cancer update conducted by ISMPO on 22nd and 23rd October 2011 at Gurgaon, New Delhi.
- Attended CME on “Glioma” and moderated a panel discussion on 27th August 2011 at JIPMER, Puducherry.
- Faculty for Promote India meeting conducted by Indian Cooperative Oncology Network and delivered a talk on Management of Lymphoma on July 2011 at Ambur, Vellore.

CONFERENCES

Dr. Biswajit. D

- Attended “BEST OF ASCO 2011” on July 15th & 16th 2011 at Pune
- Attended a Hemato-oncology conference and chaired a session on “Monitoring CML & experience in Nilotinib” on 5th & 6th of August at Kidwai, Bangalore.

Dr. Ankit Jain

- Dr. Dhanraj K.M, Senior resident presented a paper titled” A descriptive analysis of toxicity profile with Neoadjuvant and Adjuvant FEC 100 – Docetaxol 75 regimen in Breast cancer patients – Experience from a tertiary care teaching Hospital of Southern India “on 27th January 2012.

Workshop

Dr. Biswajit .D

- Conducted painting competition and launch of support group ‘SURABHI’ on 15th February 2012 during the international childhood cancer awareness day at JIPMER, Puducherry. A total 30 children with cancer and their families participated in this program and prizes were distributed to the best paintings.
Dr. Ankit Jain

- Conducted an awareness program during the international Breast cancer awareness day on 15th October 2011. 50 Breast cancer patients participated in the program. Departments of Surgery and Radiotherapy actively participated in this program. There was a talk on screening in breast cancer followed by psycho-social problems associated with Breast cancer and a panel discussion.

- Conducted a workshop for Nurses, Pharmacist and Physiotherapist on Handling of Chemotherapy drugs, Prevention & Management of Extravasation and management of Lymphedema on July 2011. 30 participants actively took part in the program.

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.


- Co-guide : Influence of genetic polymorphisms on methotrexate maintenance therapy in all patients treated in a south Indian teaching hospital

- Co-guide : Antimicrobial Profile and its Association with Outcome in Patients with febrile neutropenia in a Regional Cancer Centre

- Co-guide: Influence of DNA repair gene polymorphisms on platinum based chemotherapy in cancer patients of South Indian Population.


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.

- Co-guide: Clinico Haematological profile and Bone Marrow Histomorphology in Imatinib treated Chronic Myeloid Leukemia.
PUBLICATIONS


9. Jain A and Dubashi B: Docetaxel-induced hand foot syndrome: “No dose is a safe dose” J Pharmacol. Pharmacother 2012.3(2)

PATIENT CARE SERVICES

1. OPD attendance
   New cases : 1070
   Old Cases : 11293

2. Total chemotherapies delivered : 9315

3. Total Minor OT procedures : 447
   A) Central venous access device insertion : 25
   B) Intrathecal chemotherapy administration : 203
   C) Paracentesis : 17
   D) Bone marrow aspiration and biopsy : 202
## Statistics for Adult Cancer in 2011
### Chemotherapy Administered by Department of Medical Oncology

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<th>Sl. No.</th>
<th>CANCER</th>
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<tr>
<td>3</td>
<td>Breast Cancer</td>
<td>3</td>
<td>122</td>
<td>125</td>
</tr>
<tr>
<td>4</td>
<td>Osteo-sarcoma</td>
<td>2</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>5</td>
<td>Bladder</td>
<td>4</td>
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<td>8</td>
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<td>7</td>
<td>Colorectal</td>
<td>16</td>
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<td>27</td>
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<td>8</td>
<td>Chronic Lymphocytic leukemia</td>
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<td>5</td>
</tr>
<tr>
<td>9</td>
<td>Chronic Myeloid leukemia</td>
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<td>Hodgkin’s Lymphoma</td>
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<td>12</td>
<td>Non-Hodgkin’s Lymphoma</td>
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<td>13</td>
<td>Lung</td>
<td>34</td>
<td>18</td>
<td>52</td>
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<td>14</td>
<td>Multiple myeloma</td>
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<td>21</td>
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<td><strong>TOTAL</strong></td>
<td></td>
<td>194</td>
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## Statistics for Pediatric Cancer in 2011
### Chemotherapy Administered by Department of Medical Oncology

<table>
<thead>
<tr>
<th>Diagnosis</th>
<th>Male</th>
<th>Female</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALL</td>
<td>15</td>
<td>9</td>
<td>24</td>
</tr>
<tr>
<td>Bone</td>
<td>2</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>Ewing’s sarcoma</td>
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<td>1</td>
<td>3</td>
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<tr>
<td>Germ cell (Ovarian)</td>
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<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Hodgkin’s lymphoma</td>
<td>6</td>
<td>1</td>
<td>7</td>
</tr>
<tr>
<td>Non-hodgkin’s lymphoma</td>
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<td>1</td>
<td>7</td>
</tr>
<tr>
<td>LCH</td>
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<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Neuroblastoma</td>
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<td>0</td>
<td>1</td>
</tr>
<tr>
<td>RMS</td>
<td>0</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>CNS</td>
<td>0</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Soft tissue sarcoma</td>
<td>0</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Willim’s tumor</td>
<td>2</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>55</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
AWARDS, HONOURS AND PERSONAL ACHIEVEMENTS

- IPOI (Indian Paediatric Oncology Initiative Project). The department with the Jiv Daya Foundation Texas, USA and has initiated the India Pediatric Oncology Initiative Programme from August 2011. The project provides two medical social workers who help maintain the paediatric cancer registry, counselling of patients and organise cancer support group. The cancer registry till date has enrolled 160 paediatric patients.
- The department provides imatinib free of cost for patients with Chronic Myeloid Leukemia (CML) under Glivec International Patient Assistance Programme. We have a total of 60 patients with CML at our centre of which 20 patients have been enrolled.

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. Editor of JIPMER Cancer update, RCC Puducherry.

3. Reviewer for the following journals
   a. Indian journal of cancer
   b. Journal of cancer Research and Therapeutics
   c. Journal of Pharmacology and Pharmacotherapeutics
   d. Journal of solid tumours
   e. Cancer and clinical oncology

4. DGCI Member- Expert in regulation and approval of newer drugs and clinical trials in the field of Hemato- oncology.

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. Editor of JIPMER Cancer update, RCC Puducherry.

4. 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 hemodialysis services since the 1980s. The department has an 8 bedded Intensive Care Unit (ICU) for last 20 years. Apart from that, a new eighteen-bedded ICU has started functioning from September 2011. 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 13 students each year

C. Higher Specialty Courses
   • D.M in Clinical Hematology – 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

- Attended a CME on Idiopathic Thrombocytopenic Purpura at Mumbai on 30/07/11 & 31/07/11
- Attended a program on “National Hemostasis update” on 17/03/12 & 18/03/12

Dr. R.P. Swaminathan

- Attended a CME for the Post Graduates on 4th February 2012 and presented a guest lecture on “Neurogenic Bladder” at Sri Ramachandra Medical College & Research Institute, Deemed University, Porur, Chennai.
- Organized and chaired a session in the World Kidney Day Symposium on 6th March 2012 at JIPMER, Puducherry.

Dr. Abdoul Hamide

- Chaired a session on Management of chronic Hepatitis B infection, Symposium on Hepatitis B; Resolving the Dilemma, JIPMER, 6th Aug 2011
- Chaired a session on Chronic Kidney Disease in India-the ugly truth, Symposium on Preventive Nephrology-From Despair to Hope, JIPMER, 6th March 2012
- Chaired a session on HIV-Post Exposure Prophylaxis, Symposium on Hospital Acquired Infection Control, MGMC&RI, Puducherry on 4th and 5th Nov. 2011

Dr. D.K. S. Subrahmanyam

- Chairperson- symposium on hepatitis “Resolving the dilemma”. Dept. of Medical & Surgical Gastroenterology.

Dr. T. Kadhiravan

- Delivered an invited lecture on “Sepsis – resolving the conundrum” at the Acute Care Medicine Update organised by the Department of Internal Medicine, PGIMER, Chandigarh on January 29, 2012.
- Delivered a lecture on “How to write a research proposal” in the Seminar on research designs, sampling, and basic steps involved in project formulation held at JIPMER, Puducherry on September 19, 2011.
- Delivered a talk on “Pandemic H1N1 influenza – clinical features and management” in the Orientation programme for nursing staff held at JIPMER, Puducherry on August 17 & 18, 2011.
- Delivered a talk on “Rational antimicrobial use” in the WHO-sponsored CME on Antimicrobial resistance held at JIPMER, Puducherry on the World Health Day (April 7, 2011).

Dr. Mukta Wyawahare

- Attended a CME programme on “Newer developments in HIV” on 21st March, 2012 at JIPMER
Dr. Jyoti Wadhwa
- Attended the 24th Annual National Conference of Indian Society of Atherosclerosis Research and International CME on Atherosclerosis on 24th and 25th September 2011 at JIPMER
- Attended a Symposium on “Preventive Nephrology” on 6th March 2012 at JIPMER
- Attended a CME Programme on “Newer developments in HIV” organized by Dept of Microbiology on 21st March 2012 at JIPMER

Dr. Vinod. K. V
- Delivered a talk on “Management of Hemophilia” in the CME programme on Hemophilia organized by the Dept. of General Medicine, on 17th April 2011 at JIPMER, Puducherry.

Dr. Chanaveerapa Bamamigatti
- Conducted a workshop on “Management of Diabetes Mellitus in Elderly” in the 2nd International Congress on Gerontology and Geriatric Medicine (ICGGM) 2012 held at All India Institute of Medical Sciences (AIIMS) New Delhi from 25th – 29th February 2012

Dr. M. Vadivelan

Dr. Molly Mary Thabah
- Participated in workshop on “Scientific Writing” held at SGPGIMS Lucknow, from 11th December to 15th December 2011. This workshop was sponsored by NIH, USA and organised by SGPGIMS, Lucknow.

CONFERENCES

Dr. T.K. Dutta
- Attended the 13th National Conference of Association for Prevention and Control of Rabies in India (APCRI) at Chennai on 09/07/11 & 10/07/11.
- Attended the 67th Annual Conference of Associations of Physicians of India, at Kolkata from 12th to 15th January, 2012.
- Attended the 52nd Annual Conference of Hematology at Chandigarh from 10/11 to 12/11/11.
Dr. R.P. Swaminathan

- Attended the National Medical Education Conference (MEDUCON 2011) from 30/09/11 to 02/10/11 organized by Alumni Association of National Teachers Training Centre, JIPMER (AANJ).
- Attended a Conference on Master Class on liver diseases conducted by Global Hospital from 02/12/11 to 04/12/11 at Chennai.

Dr. Abdoul Hamide

- Attended the 52nd National Conference of the Indian Society of Gastroenterology at Coimbatore on 18-22, Nov. 2011 and presented a paper on Non-Alcoholic Fatty Disease and Metabolic Syndrome.
- Co-author for the presentation on Oxidative Stress Index and High sensitive C-Reactive Protein levels in South Indian Obese and Non-Obese Male Subjects. 38th National conference of ACBI (ACBICON-2011). Dec 4-6, 2011 at Gwalior.
- Attended the Annual conference of Indian Society of Atherosclerosis Research and international CME on atherosclerosis(ISARCON). JIPMER, on Sept.24-25th 2011.

Dr. D.K.S. Subrahmanyam

- Attended the Annual conference of Indian Society of Atherosclerosis Research and international CME on atherosclerosis (ISARCON). JIPMER, on Sept. 24-25th 2011 as a Faculty and Chairperson.
- Co-author for the paper presentation on Ankle - Brachial Index and Carotid Intema – Media Thickness are Surrogate Markers of Significant Coronary Artherosclerosis in South Indians at ISARCON 2011.
- Co-author for the poster presentation on Elevated plasma homocysteine levels are associated with fibrinogen levels in non-diabetic acute myocardial infarction patients at ISARCON2011.

Dr. Tamilarasu Kadhiravan

- Attended the “1st Global Forum on Bacterial Infections: Balancing Treatment Access and Antibiotic Resistance” held at the India Habitat Center, New Delhi on October 3-5, 2011. Also attended the pre-forum Workshop on Antimicrobial Stewardship held on October 3, 2011.

Dr. Mukta Wyawahare

- Attended the 52nd Annual Conference of Indian Society of Hematology & Transfusion Medicine on 10-12th November, 2011 at PGI, Chandigarh and presented a paper on 'An unusual presentation of hereditary spherocytosis'.
- Co-author for the paper 'Neuroacanthocytosis- where hematology meets neurology' during the 52nd Annual Conference of Indian Society of Hematology & Transfusion Medicine
- Attended 24th Annual National Conference of Indian Society of Atherosclerosis Research and International CME on Atherosclerosis on 24th & 25th September 2011 at JIPMER
Dr. K.V. Vinod

- Attended 52nd annual conference of Indian Society of Haematology and Blood Transfusion held at PGIMER, Chandigarh between 10th and 12th of November 2011.
- Participated in the 63rd National Course on Educational Science for Health Professionals, conducted by NTTC, JIPMER from 5th to 15th November 2011.

Dr. Chanaveerappa Bammigatti

- Attended 2nd International Congress on Gerontology and Geriatric Medicine (ICGGM) 2012 held at All India Institute of Medical Sciences (AIIMS) New Delhi from 25th – 29th February 2012.

Dr. Molly Mary Thabah

- Participated as a delegate at the East Zone Rheumatology Conference on 10th and 11th September 2011, held at Patna, Bihar.
- Participated as faculty at “IRACON 2011” held at Christian Medical College, Vellore from 1st December to 4th December 2011 which is the annual conference of the Indian Rheumatology Association and chaired a session on Futuristic Rheumatology.
- Participated as a delegate in the 2nd International Congress on Gerontology and Geriatric Medicine from 25th to 26th February 2012, held at UCMS and AIIMS, New Delhi.

RESEARCH PROJECTS

A. Funded projects

Ongoing

1. A prospective evaluation of an algorithm for the early diagnosis of tubercular meningitis; Research grant: Rs. 1.4 lakhs; funded by intramural research grant (Dr. T. Kadhiravan Principal investigator)

2. Distribution of ACE gene polymorphism and its association with severity of nephropathy in Type 2 diabetic individuals in a tertiary care center in South India. Intramural Research Fund Rs.1,50,000/- (single) (Dr. Mukta – Principal Investigator)

3. Study of rickettsial infections among inpatients of JIPMER. Intramural Research Fund Rs.1,00,000/- for 1 year (Dr. BS. Suryanarayana- Principal Investigator)

B. Departmental Projects

Ongoing

1. A study of renal tubular function abnormalities in patients with spontaneous symptomatic hypokalemia (Dr. R.P. Swaminathan – Chief Guide)

2. A study of metabolic bone disease in adult nephrotic syndrome. (Dr. R.P. Swaminathan – Chief Guide)

3. Diagnostic utility of carotid intima – media thickness ankle brachial pressure index and interarm systolic blood pressure in suspected coronary artery disease. (Dr. DKS. Subrahmanyam – Chief Guide)

4. Clinical, Neuroelectrophysiological and outcome study of intermediate syndrome in acute organophosphate poisoning. (Dr. DKS. Subrahmanyam – Chief Guide)
5. Clinical & Laboratory profile and efficacy of Radio-iodine therapy in patients with Grave’s disease (Dr. Abdoul Hamide – Chief Guide)
6. Bone Health in the middle aged and Elderly Men (Dr. Abdoul Hamide – Chief Guide)
7. A prospective study of the clinical profile, in-hospital outcomes, and 90-day survival of medically-ill patients receiving mechanical ventilation (Dr. T. Kadhiravan - Chief Guide)
8. A longitudinal study of tuberculosis among resident doctors (Dr. T. Kadhiravan – Chief Guide, Dr.R.P. Swaminathan- Co-Guide)
9. Clinical and Immunological improvement and side effect profile and incidence of IRIS in patients on ART (Dr. BS. Suryanarayana – Chief Guide)
10. Spectrum of liver disease in HIV-infected individuals (Dr. BS. Suryanarayana – Chief Guide)
11. Assessment of clinical profile and Autonomic function in Noncirrhotic portal fibrosis (Dr. Mukta Wyawahare – Chief Guide)
12. Prospective randomized control trial of Ultrasound guided percutaneous needle aspiration plus metronidazole v/s metronidazole alone in the management of uncomplicated amebic liver abscess (Dr. Chanaveerappa. B - Chief Guide)
13. A Prospective Nosocomial Infections Surveillance in Medical Intensive Care Unit (MICU) of tertiary care teaching hospital in Southern India (Dr. Chanaveerappa. B - Chief Guide, Dr R.P. Swaminathan-Co-guide)
14. A study of clinical and laboratory profile in Diabetic Neuropathy of Lower Extremity. (Dr. A.K. Das-Chief guide, Dr. M. Vadivelan – Co-Guide)
15. Clinical and laboratory profile of viper bite patients with special reference to adrenal function patients with shock” along with Dr. Maya Gopalakrishnan, Dr. Sridhar MG, Dr. Kusa Kumara Shaha. (Dr. K.V.Vinod – Chief Guide, Dr. T.K. Dutta- Co-Guide)
17. A prospective study of acute undifferentiated febrile illness in hospitalized patients. (Dr. Jyoti Wadhwa – Chief Guide)

**Completed**

1. Comparison of slow low efficiency dialysis (SLED) and intermittent hemodialysis for acute renal failure (Dr. R.P. Swaminathan – Guide)
2. A study on cardiac manifestations in Systemic Lupus Ertthematosus (SLE) (Dr. R.P. Swaminathan – Co-Guide)
3. Association between Non-Alcoholic Fatty Liver Disease and components of Metabolic Syndrome with special reference to oxidative stress. (Dr. Abdoul Hamide – Chief Guide)
4. Clinical Profile and outcome of thrombolytic therapy in ST elevation myocardial infarction. (Dr. DKS. Subrahmanyam – Chief Guide)
5. A study of the clinical profile and platelet volume indices in patients with digital clubbing (Dr. T.K. Dutta-Chief guide, Dr. T. Kadhiravan Co-guide)
C. Collaborative Projects

Ongoing

1. 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-Investigator)

2. Clinico-pathological profile of nephritic syndrome due to Non IGA mesangio-proliferative glomerulonephritis in a South Indian population (Dr. R.P. Swaminathan - Co-Investigator)

3. Registry of people with diabetes in India with young age at onset (Dr. R.P. Swaminathan – Co-Investigator)

4. Levels of Proteinuria in patients with nephritic syndrome and its relationship with dietary protein intake–Indian scenario – (ICMR – student project, Dr. R.P. Swaminathan - Co-Investigator)

5. Phage display library for identification of novel immunodiagnostic target in Entamoeba histolytica. (Dr. R.P. Swaminathan - Co-Investigator)

6. Assessment of Cardiovascular risk factors among junior JIPMER faculty. (Dr. R.P. Swaminathan - Co-Investigator)

7. A prospective study on the complications of Therapeutic Plasma Exchange using plasma filter. (Dr. R.P. Swaminathan - Co-Investigator)

8. A prospective study on the impact of dialyzer reuse on dialyzer efficiency. (Dr. R.P. Swaminathan - Co-Investigator)

9. A Prospective study on the complications associated with the use of temporary dialysis catheter. (Dr. R.P. Swaminathan - Co-Investigator)

10. Early detection of renal dysfunction in liver cirrhosis assessed by renal colour Doppler ultrasound. (Dr. R.P. Swaminathan – Co-Investigator)

11. Evaluation of NS-1 antigen detection as an alternative to RT-PCR for the early diagnosis of Dengue (Dr. Abdoul Hamide – Co-Investigator)

12. Detection of molecular markers of Chloroquine resistance in Plasmodium vivax (Dr. Abdoul Hamide – Co-Investigator)

13. Detection of molecular markers for chloroquine and artemisinin resistance in Plasmodium falciparum (Dr. Abdoul Hamide – Co-Investigator)

14. Effect of high dose water soluble vitamin supplementation on insulin resistance, oxidative stress, homocysteine and thyroid function in patients with Subclinical Hypothyroidism – a randomized controlled study. (Dr. Abdoul Hamide – Co-Investigator)

15. Circulating levels of interleukin 17 and nitric oxide in patients with dengue and their association with platelet function; Research grant: Rs. 2 lakhs; funded by intramural research grant (Dr. T. Kadhiravan Co-investigator)

16. Adiponectin, resistin, IL-6 levels, and insulin resistance in men with acute coronary syndrome (Dr. T. Kadhiravan Co-investigator)

17. Influence of ATM and SLC22A1 gene polymorphisms on response to metformin therapy for achieving glycemic control, in type 2 diabetes mellitus patients of South India (Dr. Mukta Wyawahare – Co-Investigator)
18. Assessment of Vitamin B12 status in patients of Type 2 diabetes mellitus on long term metformin therapy. (Dr. M. Vadivelan Co-investigator)

19. Pharmacogenomics of lipid lowering response of Atorvastatin among dyslipidemic Tamilian population” along with Ms. C Indumathy, Dr. S A Dkhar, Dr. Adithan C, Dr. Satheesh S, Dr. Zachariah Bobby. (Dr. K.V.Vinod – Co-Investigator)

Completed

1. 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)

2. Comparative study of oxidative stress parameters & inflammatory markers in obese and non – obese subjects. (Dr. Abdoul Hamide – Co-Investigator)

PUBLICATIONS

A. Journals


B. Book Chapters
7. Subrahmanyam DKS. Plant Poison. In API textbook of Medicine, MunjalYP (Editor), Jaypee brothers medical publishers (P) Ltd., New Delhi 2012;1947-49.

PATIENT CARE SERVICES

A. Clinical
Medicine Department has six units since 01.01.2011. Each unit has 20 beds approximately. There is an eighteen bedded ICU. It caters to patients admitted with poisoning, snake bites, septicemia, myocardial infection 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 and Respiratory Medicine.

STATISTICS OF MEDICINE OPD AND SPECIAL CLINICS

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Service</th>
<th>No. of patients treated</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Medicine OPD</td>
<td>2,04,897</td>
</tr>
<tr>
<td>2.</td>
<td>Diabetic Clinic</td>
<td>35,974</td>
</tr>
<tr>
<td>3.</td>
<td>Hematology Clinic</td>
<td>1,165</td>
</tr>
<tr>
<td>4.</td>
<td>HIV Clinic</td>
<td>3,117</td>
</tr>
<tr>
<td>5.</td>
<td>Respiratory Clinic</td>
<td>6,492</td>
</tr>
<tr>
<td>6.</td>
<td>Geriatric Clinic</td>
<td>322</td>
</tr>
</tbody>
</table>

STATISTICS OF MEDICINE LABORATORY

Statistics Of Medicine Side Lab

I. Blood Investigation

<table>
<thead>
<tr>
<th>Sl No.</th>
<th>Name of the test</th>
<th>No. of test</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Hemogram</td>
<td>16668</td>
</tr>
<tr>
<td>2.</td>
<td>ESR</td>
<td>3440</td>
</tr>
<tr>
<td>3.</td>
<td>Differential Count</td>
<td>15261</td>
</tr>
<tr>
<td>4.</td>
<td>Bleeding time</td>
<td>172</td>
</tr>
<tr>
<td>5.</td>
<td>Clotting time</td>
<td>172</td>
</tr>
<tr>
<td>6.</td>
<td>Fluid Cell count and type</td>
<td>805</td>
</tr>
<tr>
<td>7.</td>
<td>HBA1C</td>
<td>3950</td>
</tr>
</tbody>
</table>
II  Urine Investigation

<table>
<thead>
<tr>
<th>Sl No.</th>
<th>Name of the test</th>
<th>No. of test</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Albumin</td>
<td>6992</td>
</tr>
<tr>
<td>2.</td>
<td>Sugar</td>
<td>6992</td>
</tr>
<tr>
<td>3.</td>
<td>Microscopic examination</td>
<td>6507</td>
</tr>
<tr>
<td>4.</td>
<td>Bile Salt</td>
<td>30</td>
</tr>
<tr>
<td>5.</td>
<td>Bile pigment</td>
<td>26</td>
</tr>
<tr>
<td>6.</td>
<td>Urobilinogen</td>
<td>16</td>
</tr>
<tr>
<td>7.</td>
<td>Ketones</td>
<td>16</td>
</tr>
<tr>
<td>8.</td>
<td>Bence Jones Protein</td>
<td>43</td>
</tr>
<tr>
<td>9.</td>
<td>Eosinophil</td>
<td>29</td>
</tr>
<tr>
<td>10.</td>
<td>24 hrs urine protein</td>
<td>578</td>
</tr>
<tr>
<td>11.</td>
<td>pH</td>
<td>03</td>
</tr>
<tr>
<td>12.</td>
<td>Myoglobin</td>
<td>30</td>
</tr>
<tr>
<td>13.</td>
<td>Hemoglobin</td>
<td>42</td>
</tr>
</tbody>
</table>

III.  Stool

<table>
<thead>
<tr>
<th>Sl No.</th>
<th>Name of the test</th>
<th>No. of test</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Microscopic examination</td>
<td>201</td>
</tr>
<tr>
<td>2.</td>
<td>Occult blood</td>
<td>180</td>
</tr>
</tbody>
</table>

STATISTICS OF DIABETIC LAB

<table>
<thead>
<tr>
<th>Sl No.</th>
<th>Name of the test</th>
<th>No. of tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Foot Scan</td>
<td>1506</td>
</tr>
<tr>
<td>2.</td>
<td>Doppler</td>
<td>2574</td>
</tr>
<tr>
<td>3.</td>
<td>VPT</td>
<td>2664</td>
</tr>
<tr>
<td>4.</td>
<td>DXA Scan</td>
<td>1464</td>
</tr>
</tbody>
</table>

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr. T.K. Dutta

Dr. R.P. Swaminathan
1.  Received the Best Paper Award for the paper “comparison of SLED and IHD in hemodynamically stable patients with AKI” in the 42nd Annual Congress of Indian Society of Nephrology during 8th to 11th December, 2011.
2.  First Kidney Transplantation done in JIPMER on 3rd March 2012
3.  Nominated as Examiner by the National Board of Examinations.

Dr. Abdoul Hamide
1.  Invited to join the Board of Editors of the International Journal of Pharma Medicine and Biological Sciences
2. Reviewed articles for publication in indexed journals such as, Indian J Medical Research, Indian J 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. Honoured as an outstanding peer-reviewer by the Annals of Internal Medicine for the year 2011.

**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.
9. Chairman for Influenza A H1N1 Monitoring Committee.

**Dr. R.P. Swaminathan**
1. Serving as Administrative Head of Nephrology Department and Member of Core Committee for Renal Transplantation at JIPMER
2. Resource Person for various activities of Medical Education Department such as PG thesis writing, Interns Orientation Programme and National Course on Educational Science for Teachers of Health Professionals at JIPMER from 15/02/12 to 25/02/12.
3. External Expert for selection of Assistant Professor at IGMC&RI, Puducherry.
4. Member of Drug Purchasing Committee, JIPMER, Puducherry
5. Resource Person for studies at VCRC, Puducherry.
6. Fire Safety Committee Member (2012)
7. Pharmacovigilance Advisory Committee Member (2012)

**Dr. Abdoul Hamide**
1. Set Question papers, corrected Dissertations for the National Board of Examinations
2. Conducted Appraisal for the DNB candidates appearing for the examinations from the Indira Gandhi Govt. GH, Pondicherry
3. Resource person for the Interns orientation program, held every year.
4. Resource person for the GFATM sponsored HIV/AIDS Training for Nurses held by the College of Nursing, JIPMER.
5. Nominated by MCI to inspect the Medical College at Chitradurga, Karnataka in Jan 2012
6. Nominated by National Board of Examinations to inspect Sree Uthradom Thirunal Hospital, Trivandrum for the accreditation for the DNB, General Medicine
7. Member of core committee of RNTCP/DOTS, JIPMER.
8. Member representing minority community in Departmental Promotion Committee (DPC) and various interviews conducted for recruitment of residents and staff.
9. Administrative Head of the Department of Endocrinology.
10. In-charge of Link-ART clinic for AIDS patients
11. Member of the Doctoral committee for review of thesis by PhD scholars.
12. Member of the committee for purchase of items for CSSD of the hospital
13. Taken personal interest in implementing the Post-Exposure Prophylaxis (PEP) for the health care providers of JIPMER hospital who are accidentally exposed to HIV.

Dr. D.K. S. Subrahmanyam
1. Officer in charge - Medical Gastroenterology.
2. Officer in charge – Department of Psychiatry.
3. Member of Doctoral committee for microbiology PhD project.
4. Member of Doctoral committee for biochemistry PhD project.
5. Member / chairperson for various medical boards constituted now and then.
6. Dissertation evaluator for MD Medicine Maharashtra University of Health Sciences, Nashik.
7. Dissertation evaluator for MD Medicine ,KLE University Karnataka.
8. MCQ provider for PG entrance exams.
9. MCQ provider for DipNB.

Dr. T. Kadhiravan
1. Served as the faculty in-charge of the Medicine Unit VI and intensive care unit
2. Served as a core group member and resource person for various activities of the Department of Medical Education such as Interns Orientation Programme on quality care, and Postgraduate Orientation Programme on research methodology and ethics.
3. Served as a resource faculty for the “Seminar on research designs, sampling, and basic steps involved in project formulation” held at JIPMER, Puducherry, on September 19, 2011.

Dr. Chanaveerappa Bammigatti
• In-charge for the Medicine Department library.
SIGNIFICANT EVENTS IN THE DEPARTMENT

1. The department conducted a CME programme on World Hemophilia Day on 17th April 2011.

2. New Medical Intensive Care Unit (Ward-41) was inaugurated by Prof. N.K. Ganguly, President, JIPMER, on 23rd September 2011.

3. Dr. Bhaskar Mandal, Consultant Physician & Geriatrician, Ashford Hospital and St. Peter's Hospital, UK visited the department and gave a lecture on Advances in management of acute stroke and approach to a Geriatric patient. He also delivered a JSS Guest Lecture on “Developing a modern Geriatric service and rehabilitation” on 8th August 2011.

4. The department conducted a half day orientation programme on Influenza A H1N1 for staff nurses of JIPMER in co-ordination with the Influenza AH1N1 Monitoring Committee on 17th & 18th August, 2011. The objective of the programme was to orient nursing staff of JIPMER on epidemiology, prevention, clinical features and management on Influenza AH1N1.

5. 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.

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 & other extrapulmonary tuberculosis, leptospirosis, amoebiasis, neurocysticercosis and HSV encephalitis is carried out by PCR. The facilities for real-time PCR for influenza virus as well as for HIV have been established.

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 haemoparasites, 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 detection (in Bacteriology) 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.

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.

Training and educational events were organized in the form of workshops and CMEs in diverse topics such as HIV and opportunistic infections, Tuberculosis and swine influenza 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 BSc. Nursing, BSc. Allied Sciences, BSc. 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 intake 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 (MSc) in Medical Laboratory Technology (MLT) with enrollment of 4 students per year.

C. Research Courses (Ph.D)

At present there are 9 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 the form of MSc project of three month durations for MSc students who had enrolled for the training.

E. Continuing Medical Education

The department of Microbiology 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.

F. 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 PROGRAMMES

Dr. S. C. Parija

- Resource person for CME on “Newer developments in HIV” in collaboration with Pondicherry AIDS Control Organization on 21st March 2012 for junior and senior residents, medical officers, specialist of JIPMER and other hospitals and medical colleges of Puducherry at Conference Hall of Super speciality Block, JIPMER, Puducherry and delivered a talk on “Parasitic infections in HIV”

- Resource person for EQAS II workshop for laboratory technician from 24th to 25th February 2012 in collaboration with Pondicherry AIDS Control Organization held at Department of Microbiology, JIPMER.
Invited as chief guest at the National Seminar on Advancements in Microbial Technology at Vivekanadha college of Arts and Science for women, Namakkal, on 22nd February 2012. Prof Parija inaugurated the National Seminar and delivered a key note address on "Recent concepts in diagnosis of parasitic infections".

Resource person for the CME on “Exams made easy”, organized by PSG medical College, Coimbatore from 19th to 21st Jan 2012.

Resource person for the X national workshop on “Simple Diagnostic Methods in Clinical Microbiology” held at the department of Microbiology, JIPMER, Puducherry from 29th November 2011 to 3rd December 2011. Prof Parija also delivered a talk on ‘Advances on molecular diagnosis and vaccine research in amoebiasis’.

Attended as a resource person for a National Seminar on Recent advances in biomedical research on infectious and non-infectious diseases; organized by Department of Biomedical Sciences, School of Basic Medical sciences, Bharatidasn University, Tiruchirapally, Tamilnadu on October 13th 2011. Prof Parija delivered a talk on “Progress in research on diagnosis and vaccines in amoebiasis”.

Resource person for EQAS I workshop titled “EQAS in HIV testing for laboratory technicians” from 16th September to 17th September 2011 in collaboration with Pondicherry AIDS Control Society at Department of Microbiology, JIPMER.

Resource person for a WHO sponsored National CME on Vector Borne Diseases, organised by the Department of Community Medicine, Pondicherry Institute of Medical Sciences, Puducherry. Delivered a guest talk on "Diagnostic modalities in malaria" on August 26 2011.

Invited for the third annual meeting of the “Indian Network for surveillance of antimicrobial Resistance”(INSAR) from 25th to 26th August 2011, held at the Head Quarter of the Indian Council of Medical Research , New Delhi.

Attended the WHO Workshop on Laboratory Safety and Biosecurity India office, at Bhopal from 17th to 20th August 2011.

Attended as a resource person for a CME on Antibiotic resistance organized by the SRM Medical College, Sri Ramachandra University , Chennai ; Tamilnadu . Delivered a guest talk on “Parasitic diseases : Diagnostic dilemma” on July 16, 2011.

Attended as a resource person for a Chapter Meet of the IAMM Pondicherry on “Beating the Bugs: What is new?”; organized by the Department of Microbiology, Pondicherry Institute of Medical Sciences, Puducherry. He delivered a Guest talk on “Drug resistance in malaria” on June 24, 2011.

Delivered a talk on “Recent advances in the diagnosis of parasitic infections" at the Department of Parasitology, Faculty of Medicine, University of Malaya, Kualalampur, Malaysia on May 24, 2011.

Attended as a resource person for a CME on Infection organized by the SIMH Medical College, Chennai on May 14, 2011. He delivered a guest talk on “Cysticercosis : is it a life style disease?”

Dr. B. N. Harish

Attended the “1st Global Forum Bacterial Infections” held at India Habitat Centre, New Delhi from 3rd to 5th October 2011.
• Attended the CME on “Antimicrobial Resistance” at Puducherry IAMM chapter, PIMS, Puducherry on 24th June 2011.

• Attended SIHAM Candidemia Network at AIIMS, New Delhi on 26th March 2011.

Dr. S. Sujatha

• Attended the CME on “Recent advances in drug resistant tuberculosis”, organized by Department of Microbiology, JIPMER on March 27th 2012.

• Resource person for the CME on “Exams made easy”, organized by PSG medical college, Coimbatore from 19th-21st January 2012.

• Organized the Xth national Workshop on “Simple diagnostic methods in clinical Microbiology” from 29th November 3rd December 2011, JIPMER, Pondicherry.

• Attended the CME on “Quality control and accreditation in Microbiology”- organized by Iamm Pondicherry chapter in IGMC, Pondicherry on 2nd November 2011.

• Attended the Symposium on “Hepatitis B” organized by departments of surgical and medical gastroenterology, JIPMER on 6th August 2011.

• Attended the Workshop on “ILI Surveillance”, NCDC, New Delhi from 26th to 30th April, 2011.

Dr. Jharna Mandal

• Attended the CME on “Recent advances in drug resistant tuberculosis”, organized by Department of Microbiology, JIPMER on March 27th, 2012.

• Resource person for CME on “Newer developments in HIV” in collaboration with Pondicherry AIDS Control Organization held on March 21st, 2012 for junior and senior residents, medical officers, specialist of JIPMER and other hospitals and medical colleges of Puducherry at Conference Hall of Superspeciality Block, JIPMER, Puducherry.

• Resource person for EQAS II workshop for laboratory technician from 24th to 25th February, 2012 in collaboration with Pondicherry AIDS Control Organization at Department of Microbiology, JIPMER.

• Resource person for the X National workshop on “Simple Diagnostic Methods in Clinical Microbiology” held at the department of Microbiology, JIPMER, Puducherry between 29.11.2011 and 3.12.2011

• Participated in the IAMM Puducherry chapter quarterly meet on “Laboratory Accreditation” held at IGMCRI, Puducherry on 2nd November, 2011.

• Attended the First Global Forum on Bacterial Infections held at New Delhi between 3.10.2011 and 5.10.2011.

• Resource person for the MEDUCON 2011 held at JIPMER between 1.10.2011 and 2.10.2011.

• Attended the Symposium on “Hepatitis B” organized by departments of surgical and medical gastroenterology JIPMER on 6th Aug 2011.
**Dr. Rakhi Biswas**

- Organized and was a Resource person for the World TB Day Celebrations - 2012 held at JIPMER, Puducherry on March 27th, 2012 and delivered a guest talk on “Drug Resistance in Tuberculosis” at the occasion.
- Resource person for CME on “Newer developments in HIV” held in collaboration with Pondicherry AIDS Control Organization on 21/03/2012 for junior and senior residents, medical officers, specialist of JIPMER and other hospitals and medical colleges of Puducherry at Conference Hall of Super speciality Block, JIPMER, Puducherry and delivered a guest lecture on “HIV and Mycobacterial co-infection”.
- Resource person for EQAS II workshop for laboratory technician from 24/02/2012-25/02/2012 in collaboration with Pondicherry AIDS Control Organization at Department of Microbiology, JIPMER.
- Resource person for the X national workshop on “Simple Diagnostic Methods in Clinical Microbiology” held at the department of Microbiology, JIPMER, Puducherry between 29.11.2011 and 3.12.2011.
- Attended the MEDUCON 2011 held at JIPMER between 1.10.2011 and 2.10.2011.
- Resource person for EQAS I workshop titled “EQAS in HIV testing for laboratory technicians” from 16/09/2011-17/09/2011 in collaboration with Pondicherry AIDS Control Organization at Department of Microbiology, JIPMER.

**Dr. Rakesh Singh**

- Organized CME on “Newer developments in HIV” in collaboration with Pondicherry AIDS Control Organization on 21/03/2012 for junior and senior residents, medical officers, specialist of JIPMER and other hospitals and medical colleges of Puducherry at Conference Hall of Super speciality Block, JIPMER, Puducherry and delivered a lecture on “Current practices in laboratory monitoring of HIV infection”
- Organized an EQAS II workshop for laboratory technician from 24/02/2012-25/02/2012 in collaboration with Pondicherry AIDS Control Organization at Department of Microbiology, JIPMER.
- Delivered a guest lecture on “Treating HIV/AIDS Patients with special reference to ART Adherence and Role of Family Members and Other Support” on 01/12/2011 at Workshop on HIV/AIDS: Issues and Challenges at Auditorium, School of Management, Department of Applied Psychology, Pondicherry University, Puducherry
- Organized EQAS I workshop titled “EQAS in HIV testing for laboratory technicians” from 16/09/2011-17/09/2011 in collaboration with Pondicherry AIDS Control Organization at Department of Microbiology, JIPMER.
Imparted training to the participants for the orienting nurses of Puducherry region of GFATM about the functions and services provided by Integrated Counseling and Testing Center in batches for the year 2011-12 at Department of Microbiology, JIPMER.

**Dr. Rahul Dhodapkar**

- Attended the CME on “Newer developments in HIV” in collaboration with Pondicherry AIDS Control Organization on 21/03/2012 for junior and senior residents, medical officers, specialist of JIPMER and other hospitals and medical colleges of Puducherry at Conference Hall of Super speciality Block, JIPMER, Puducherry and delivered a lecture on “Immunopathogenesis of HIV”.
- Resource person for EQAS II workshop for laboratory technician from 24/02/2012-25/02/2012 in collaboration with Pondicherry AIDS Control Organization at Department of Microbiology, JIPMER.
- Resource person for the X national workshop on “Simple Diagnostic Methods in Clinical Microbiology” held at the department of Microbiology, JIPMER, Puducherry between 29.11.2011 and 3.12.2011.
- Resource person for EQAS I workshop titled “EQAS in HIV testing for laboratory technicians” from 16/09/2011-17/09/2011 in collaboration with Pondicherry AIDS Control Organization at Department of Microbiology, JIPMER.
- Delivered a lecture on ‘Influenza and Infection control perspectives for Health care Workers’ in a CME for Nurses organized in JIPMER under auspices of Influenza A H1N1 Monitoring Committee JIPMER on 17th and 18th August 2011.
- Attended Symposium on Hepatitis B ‘Resolving the Dilemma’ conducted by Departments of Medical & Surgical Gastroenterology ,JIPMER, Puducherry on 6/08/11.

**CONFERENCES**

**Dr. S. C. Parija**

- Invited as the Chief Guest to inaugurate the 7th Annual Congress of the Gujarat Branch of the Indian Association of Medical Microbiologists held from 22nd to 23rd January 2012, at Government Medical College, Rajkot. Prof Parija also delivered a key note address on ‘Progress in research in diagnosis of parasitic infections’. Prof Parija, also conducted a practical work shop on Diagnostic methods in parasitic disease for the participants of the Congress.
- Attended the XXXV National Conference of the Indian Association of Medical Microbiologists (MICROCON 2011) held between 23-26th November, 2011 at the Institute of Medical Sciences, Varanasi (UP). Prof Parija delivered a talk on ‘MCI Vision: 2015: a different perspective’ in the IAMM symposium, held during the congress.
• Chief Guest for inauguration of the Pre-conference CME of the 5th National conference of the Indian Academy of Tropical Parasitology (IATP), Tropacon 2011, held at the Government Medical College, Nagpur on 11th November 2011. Prof Parija also delivered a talk on ‘Real time PCR for diagnosis of parasitic infections’ during the CME. He delivered the Presidential Oration on Parasitic disease in the MBBS curriculum: a need for change and also delivered a lecture on ‘Writing a Research Paper’ during the Conference. Prof Parija presided over the Valedictory function of the Conference held on 13th November 2011.

• Attended as a Guest Speaker at the 12th South Indian Annual Conference of the Laboratory Technicians, Organised by the St. Gregorius College of Social Science, Parumala, Kerala on November 8-9, 2011. Prof Parija delivered a talk on ‘Newer developments in the diagnosis of parasitic infections’ during the Plenary session.

• Attended as a Guest Speaker at the International Conference on Microbial Biotechnology for sustainable Development & 52nd Annual Conference of the Association of Microbiologists of India, Organised by the Panjab University, Chandigarh from 3rd to 5th November 2012. Prof Parija delivered a talk on ‘Molecular diagnosis of amoebiasis’ during the Plenary session.

Dr. B. N. Harish

• Attended the XXXV National Conference of the Indian Association of Medical Microbiologists MICROCON 2011 between 23-26th Nov 2011 at Varanasi.

• Attended GISICON held at Manipal in May 2011 and chaired a session in Bacteriology.

Dr. S. Sujatha

• Presented a poster on “Fatal case of myocarditis caused by Corynebacterium diphtheriae biotype gravis” at the Annual conference of IAMM, at Varanasi from 24-26th Nov 2011.

• Attended the 2nd annual conference on “Hospital infection control”, organized by MGMC&RI, Pondicherry on 4th and 5th Nov, 2011.

Dr. Jharna Mandal

• Attended the XXXV National Conference of the Indian Association of Medical Microbiologists MICROCON 2011 between 23-26th Nov 2011 at Varanasi, and presented a poster titled “Characterization of a third generation cephalosporin resistant Vibrio cholerae from JIPMER, Puducherry”.

• Participated in the Second Annual Conference on Hospital Infection Control “Strategies to combat antimicrobial resistance” held at MGMCRI, Puducherry from 4.11.2011 and 5.11.2011.

Dr. Rakhi Biswas

• Attended the XXXV National Conference of the Indian Association of Medical Microbiologists MICROCON 2011 between 23-26th Nov 2011 at Varanasi, and presented a poster titled “Quality of drinking water supplies in the villages of Puducherry”.
Dr. Rakesh Singh

- Delivered an oral presentation on “Candida profile in candidemia cases at Puducherry” at 9th National Conference of Society for Indian Human & Animal Mycologists (SIHAM 2012) at Siliguri, Darjeeling, West Bengal from 10/02/2012-12/02/2012.
- Attended and presented a poster entitled “Clinico-investigative study of Candidiasis in women with vaginal discharge” at National Conference 12th IUSTI World Congress at Vigyan Bhawan, Maulana Azad Road, New Delhi from 02/11/2011-05/11/2011.

RESEARCH PROJECTS

Dr. S.C.Parija

Intramural- completed

Guide-Evaluation of Real-Time PCR for diagnosis of amoebiasis (Rs.50,000 for 2years)

Intramural- ongoing

- Ph.D Guide-Development and evaluation of recombinant antigens in serodiagnosis of amoebiasis (Rs. 1,00,000 for 2 years).
- MD Guide-Clinico-microbiological profile of Shigellosis in children (Rs.50,000 for 2years).
- MD Guide-Detection of Molecular markers for Choloroquine & Artemisinin resistance in Plasmodium falciparum(Rs.50,000 for 2years).
- MSc Guide-Frequency of occurrence of pvrt0 and pvmdr1 genes in Plasmodium vivax (Rs.25,000 for 1 year).
- Ph.D Guide-Identification and evaluation of a diagnostic target by phage display library for NCC.
- Ph.D Guide-Phage display library for identification of novel immunodiagnostic target in E.histolytica

Inter-Departmental Project (ongoing)

Co-guide/co-investigator in 8 projects with departments of Surgery, Pediatrics, Orthopaedics, Physiology, etc.

Dr. B. N. Harish

- UGC funded Research Projects (Rs5,90,000) for the period 2009-2012
- ICMR funded Research Project (Rs.38,00,000) for the period 2011-2014

Dr. S. Sujatha

Intramural- completed

Evaluation of immunological and molecular methods for the rapid diagnosis of herpes simplex encephalitis

Intramural- ongoing

- Panton-Valentine leucocidin as a marker of community associated MRSA
- NS1 as an alternative to rt-PCR for the early diagnosis of dengue
- Phenotypic characterization of carbapenem resistant NFGNB from patients with ventilator associated pneumonia
- Study of RSV and human metapneumovirus in acute lower respiratory tract infections in patients under 60 months of age
- Antimicrobial resistance and molecular epidemiology of MRSA isolates from human and veterinary sources
- Study of viral acute lower respiratory tract infections and characterization of influenza isolates with special reference to oseltamivir resistance

**Inter-Departmental Project (ongoing)**

**Co-guide/co-investigator** in 6 projects with departments of Surgery, pediatrics, surgical gastroenterology, physiology.

**Dr. Jharna Mandal**

**Interdepartmental Funded project- intramural (completed)**

**Co-investigator**.- Utility of urine dipstick test for the screening of urinary tract infection in catheterized women following gynaecological surgeries

**Interdepartmental Funded project- intramural (Ongoing)**

**Co-investigator**.- A prospective evaluation of an algorithm for the early diagnosis of tubercular meningitis.

**Departmental Project (completed)**

- Guide -Isolation of *Campylobacter* from stool specimens by culture
- Guide- Genetic characterization of third generation cephalosporin resistance in *Shigella* spp.

**Inter-Departmental Project (completed)**

**Co-guide**.- Evaluation of real-time PCR in diagnosis of amebiasis.

**Inter-Departmental Project (Ongoing):**

- Co-guide-Clinico-microbiological profile of shigellosis in children
- Co-guide-Probiotics therapy for prevention of necrotising enterocolitis in preterm infants--a randomized controlled trial
- Co-guide- Clinical profile and predictive risk factors for major infections in Nephrotic syndrome
- Co-guide-Detection of molecular markers for chloroquine and artemisinin resistance in *Plasmodium falciparum*
- Co-guide-Detection of molecular markers of chloroquine resistance in *Plasmodium vivax*
- Co-guide-Role of probiotic prophylaxis against nosocomial infections in pediatric patients on mechanical ventilation-An open labelled randomized controlled trial.
Dr. Rakhi Biswas  
**Interdepartmental Funded project- intramural (Ongoing)**  
**Co-investigator**- A prospective evaluation of an algorithm for the early diagnosis of tubercular meningitis  
**Inter-Departmental Project (ongoing)**  
1. Co-guide- Clinico-microbiological profile in patients with necrotizing fasciitis with special reference to anaerobic organisms  
2. Co-guide- Role of fine needle aspiration cytology in necrotizing lesions.  
**Departmental Project (completed)**  
Guide- Determination of drug susceptibility pattern of *M. tuberculosis* from a tertiary health care centre in South India.  

Dr. Rakesh Singh  
**Funded – Intramural fund (Ongoing)**  
Detection of *Candida dubliniensis* by PCR in HIV Infected Individuals  
**Departmental –(Ongoing)**  
1. Invasive pulmonary aspergillosis in Medicine ICU patients  
2. Detection of *Candida* sp. in devices used in very low birth neonates  

Dr. Rahul Dhodapkar  
**Funded – Intramural fund (Ongoing)**  
**Principal Investigator**-Antigen Detection for the diagnosis of acute viral lower respiratory tract infection in children less than 60 months  
**Departmental Project (completed)**  
**Guide**-Serologic & Molecular Diagnosis of Hepatitis B  
**Departmental Project (ongoing)**  
**Co-guide** -Study of Respiratory syncitial virus (RSV) and human metapneumo virus (hMPV) in acute lower respiratory tract infections (LRTI) in children less than 60 months.  
**Inter-Departmental Project (ongoing)**  
**Co-investigator**- Association of *Herpes simplex* virus, *Cytomegalovirus* and *Staphylococcus aureus* in patients with Pemphigus and their contribution to Glucocorticoid resistance.  
**Co-investigator**-Hospital based seroprevalence to hepatitis E virus among children from Pondicherry  
**Co – guide** - Association of Herpes Simplex virus in patients with pemphigus
PUBLICATIONS

Journals


Books

PATIENT CARE SERVICES
- The Department of Microbiology started following new services in the year 2011
- HIV 1 viral load tests for patients care to diagnose Immunological failure to ART regime by real time PCR
- Automated MICROSCAN WALKAWAY System for rapid microbial identification and susceptibility testing
- Isolation of Campylobacter spp from diarrhoeal diseases in pediatric cases below 5 years of age
AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr. S.C. Parija
FRCPath:Fellow, Royal College of Pathologists, UK
FAMS:Fellow, National Academy of Medical Sciences
FIATP:Fellow, Indian Academy of Tropical Parasitology
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
FICAL: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. B.N. Harish
Dr. Belgode N. Harish has been recognized for outstanding services as online mentor of ASM Minority Mentoring Programme 2011 by the Membership Board and the Underrepresented Members Committee of the American Society for Microbiology.

Dr. Jharna Mandal
• Life member of Indian Association of Medical Microbiology
• Member of International Society of Infectious Diseases.
• Life member of Indian Academy of Tropical Parasitology

Dr. Rakhi Biswas
• Member of Indian Association of Medical Microbiology
• Member of Indian Academy of Tropical Parasitology

Dr. Rakesh Singh
• Member of International Society for Human and Animal Mycology
• Member of Clinical Laboratory Standards Institute
• Member of Indian Association of Medical Microbiology
• Member of Indian Academy of Tropical Parasitology

Dr Rahul Dhodapkar, Assistant Professor
• Life Member of Indian Association of Medical Microbiologists
• Life Member of Indian Association of Tropical Parasitology
• Corresponding Member of International Society for Infectious Diseases
• Annual Member of European Society for Clinical Virology
• Annual Member of Pan American Society for Clinical Virology

ADMINISTRATIVE, EDUCATION, RESEARCH AND OTHER ASSIGNMENTS

Dr. S.C. Parija
• Editor of Topical series on HIV/AIDS and opportunistic diseases and co-infection, published by BMC UK.
• Editor-in-Chief of Internet Journal of Parasitic Diseases, published from The Texas, the USA.
• Editor-in-Chief of Tropical Parasitology, published by the Indian Academy of Tropical Parasitology.
• Associate Editor of BMC Infectious Diseases published by BMC UK.
• Associate Editor of BMC Journal of Case Reports (JCR) published by BMC UK.
• Associate Editor of BMC Research Notes published by BMC UK.
• Member of Editorial Board, Journal of Research and Report in Tropical Medicine. Published by Dove Press, USA.
• Member of Editorial Board, the on-line journal BMC Clinical Pathology
• Member of Editorial Board, Health Renaissance, the journal published by B P Koirala Institute of Health Sciences, Dharan, Nepal.
• Member of Board of Editors, Journal of Veterinary Parasitology, the journal published by the Indian Association for the Advancement of Veterinary Parasitology.
• Member, Board of Examiners, MBBS, University of Malaya, Faculty of Medicine, Malaysia
• Member, PhD Committee, Faculty of Medicine, University of Malaya, Malaysia
• Member, Advisory Board on Parasitology, Webmed Central, UK
• Member, Research Board, Indian Clinical Epidemiology Network (INDCLEN)
• Member, Scientific Advisory Committee, Regional Medical Research Centre, Guwahati, Assam
• Member, MCI Committee on MD (Microbiology) curriculum, MCI, New Delhi
• Member, Animal Ethics Committees of Vector Control Research Centre (ICMR), Pondicherry; Pondicherry Institute of Medical Sciences, Pondicherry; Mahatma Gandhi Medical College & Research Institute; Pondicherry, Sri Manakula Vinayagar Medical College & Hospital, Pondicherry

• Member, Selection Committee, Union Public Service Commission, New Delhi

• Member, Selection Committee, All India Institute of Medical Sciences, New Delhi

• Member, Selection Committee, Banaras Hindu University, Varanasi, UP

• Member, Selection Committee, Sanjay Gandhi Post Graduate Institute of Medical Sciences, Lucknow, UP

• Part-time Inspector, Medical Council of India

• Member, Advisory Committee Kendriya Vidhyalaya No 1, JIPMER Campus, Pondicherry

• Member, Committee for protocol drafting for HIV & Lymphatic Filariasis, Central Council for Research in Homeopathy, Janakpuri, New Delhi

• Examiner for M.D (Microbiology) Exams in more than 10 University all over India

• Chairman, Research Monitoring Committee, JIPMER

• Chairman, Revised National Tuberculosis Control Programme, JIPMER

• Chairman, Sub Committee for Book Exhibition, JIPMER

• Member, Scientific Advisory Committee, JIPMER

• Member Secretary, Animal Ethics Committee, JIPMER

• Member Secretary, Hospital Infection Control Committee, JIPMER

• Member, Library Committee, JIPMER

• Guideship - Guide and Co Guide for 5 PhD Scholars, 9 MD residents during the current year

Dr. S.C. Parija

President of The Indian Academy of Tropical Parasitology since 2006.

Dr. B.N. Harish

• Faculty and officer in chargeship of the PhD Teaching Programme.

• MCI Inspector- As an MCI inspector, inspected 3 different colleges in INDIA for undergraduate teaching facilities

• Membership in official committee-Member of the Executive committee of the Indian Association of Medical Microbiologist 2011-2012.

• Examinership- Dr. Belgode N Harish was appointed as MD examiner for MGR University, April 2011

• Dr. Belgode N Harish was appointed as PhD examiner for Kasturba Medical College, Manipal, March 2012.

• Guideship- Currently guide for 2 PhD and 2 MD students.
Dr. S. Sujatha
- Assistant Editor of IJMM for 2012
- Recognized Ph.D guide since 2011
- Doctoral committee member for PhD candidates- 2 in JIPMER and I from Sathya Sai medical college, Chennai
- External examiner for Ph.D student at A.I.I.M.S., New Delhi, Aug 2011
- External examiner for M.D Microbiology, April,2011 at SRMC, Chennai
- Internal examiner for MSc MLT and BSc MLT ,May-June 2011
- Question paper setter
- Member of the Influenza monitoring committee of JIPMER since 2009

Dr. Jharna Mandal
- Managing Editor of Tropical Parasitology.
- Coordinator of BSc Allied Medical Science courses since 2010.
- Assistant warden of undergraduate and postgraduate ladies hostel since June 2011.
- Member of subcommittee of the 12th five year plan proposals committee in 2011.
- Member and resource person for the interns' orientation programme committee.
- Member of the annual report Editorial board of JIPMER since 2011.
- Expert in the interview panel for selection of the post of Laboratory technician for the regional Influenza laboratory on 1.7.2011.
- BSc MLT Examination December 2011, Department of Microbiology, JIPMER.

Dr. Rakhi Biswas
- Member of the Integrated Disease Surveillance Project (IDSP) committee in 2011.
- External Examiner for MBBS in April 2011 at Melmaruvathur Medical College.
- Internal Examiner for MBBS in December 2011 at JIPMER.
- External Examiner and Question Paper setter for DMLT examinations held in November-December 2011 at Indira Gandhi Govt General Hospital and Post graduate Institute.
- Expert in the interview panel for selection of post of Laboratory Technician held at VCRC in 2011.
- Expert in the interview panel for selection of the post of Laboratory technician for the regional Influenza laboratory on 27.2.2012

Dr. Rahul Dhodapkar
- Co–ordinator for MScMLT & BScMLT Courses.
- Member of committee constituted by Director JIPMER for proposing the recommendations for promotion and curriculum design for training of laboratory attendants.
• Member of subcommittee of the 12th five year plan proposals committee in 2011.
• Undergraduate examiner (MBBS) for JSS University Mysore.
• Paper setting for MSc MLT and BSc MLT examination.

SIGNIFICANT EVENTS IN THE DEPARTMENT OF MICROBIOLOGY
• The Department of Microbiology, JIPMER organized the World TB Day Celebrations-2012 held at JIPMER, Puducherry on March 27th, 2012.
• The Department of Microbiology organized CME on “Newer developments in HIV” in collaboration with Pondicherry AIDS Control Organization on 21/03/2012 for junior and senior residents, medical officers, specialist of JIPMER and other hospitals and medical colleges of Puducherry at Conference Hall of Super speciality Block, JIPMER, Puducherry.
• The Department of Microbiology, JIPMER organized an EQAS II workshop for laboratory technician from 24/02/2012-25/02/2012 in collaboration with Pondicherry AIDS Control Organization.
• The Department of Microbiology, JIPMER organized the X National Workshop on ‘Simple Diagnostic Methods in Clinical Microbiology’ from 29th November 2011 – 3rd December 2011.
• Integrated counseling and testing center (ICTC), Department of Microbiology, JIPMER was awarded as best performance ICTC Laboratory award in HIV in Puducherry for the year 2010-2011 by Honorable Chief Minister of Puducherry Mr. N. Rangaswamy on 01.12.2011. The Department of Microbiology, JIPMER organized EQAS I workshop titled “EQAS in HIV testing for laboratory technicians” from 16/09/2011-17/09/2011 in collaboration with Pondicherry AIDS Control Organization.
• The Department of Microbiology, JIPMER conducted Prize Exam in Tropical Parasitology for the JIPMER Interns in September 2011.
BACKGROUND INFORMATION OF THE DEPARTMENT

The Department of Nephrology, established in 2009-10, continued to expand its activities in the areas of patient care, training and research, during 2011-12. A new assistant Professor, Dr P.S. Priyamvada, joined the department in June 2011. An additional dialysis technician and a dedicated transplant coordinator were appointed. A living donor kidney transplantation program was started, along with the department of urology in the month of March 2012. The standing academic committee of JIPMER approved a proposal to start DM Nephrology training in the department of Nephrology. In addition to the new initiatives in the department, the existing patient care services and research activities registered an impressive growth during this period.

EDUCATIONAL COURSES

Undergraduate Courses

1. B.Sc Allied Medical Sciences - Dialysis Technology (BSc AMS DT): The dept conducts a 3 year graduate course in dialysis technology, where the students are trained in all aspects of renal replacement therapy including technical and medical aspects of intermittent haemodialysis, Sustained Low efficiency Dialysis (SLED), Continuous Renal Replacement Therapies (CRRT), Continuous Ambulatory peritoneal Dialysis (CAPD) etc. The annual intake is 4 candidates.

2. Dr R.P. Swaminathan, Dr Sreejith Parameswaran & Dr P.S. Priyamvada took didactic lectures for MBBS students on kidney disease. Dr Sreejith Parameswaran and Dr P.S. priyamvada are the Nephrology faculty responsible for training of BSc Allied Medical Sciences - Dialysis Technology course conducted by the dept of Nephrology.

Higher Specialty Courses - D.M. Nephrology

The JIPMER standing academic committee approved the proposal for starting DM Nephrology training in the dept, from the academic year 2012-13 (March 2012).

CONTINUING MEDICAL EDUCATION PROGRAMMES

1. “SAMSAAKA - The Circle of Life”: Awareness Program on Organ Donation for the state of Pondicherry, at JIPMER, was organized by the dept of Nephrology, in collaboration with the Ministry of Health & Family Welfare, Govt of India and MOHAN foundation Chennai on 29th August 2011. Guests at the program included
Dr N.K. Mohanty, Additional Director General, Dept of Health & Family welfare, Govt of India; Dr Dilip Kumar Baliga, Director of Medical Services, Pondicherry; Dr KSVK Subba Rao, Director, JIPMER; Dr Palanivelu, Regional Office of Dept of Health & Family welfare, Chennai & Dr Ashok Kumar Das, Medical superintendent, JIPMER. Lectures delivered by eminent faculty included: Current status of cadaver transplantation in India by Dr Sunil Shroff (MOHAN foundation), Diagnosis of brain death by Dr Roopsh Kumar (JIPMER), Identification & maintenance of brain dead donors by Dr Mathew Joseph (CMC, Vellore) and Transplantation of Human Organs act by Dr George Kurien (PIMS, Pondicherry). The program attracted audience from other medical institutions in Pondicherry, including Government General Hospital, Pondicherry & PIMS, Pondicherry, in addition to a large audience from JIPMER.

2. ‘Symposium on Preventive Nephrology - from despair to Hope?’ and World Kidney Day celebrations was organized by the dept of Nephrology on 6th March 2012. The Symposium was inaugurated by Dr TS Ravikumar, Director, JIPMER. Dr Rajiv Saran, Associate Professor of Medicine, Division of Nephrology, Department of Internal Medicine Associate Director University of Michigan Kidney Epidemiology and Cost Center (UM-KECC), Henry F. Vaughan School of Public Health, Ann Arbor, Michigan, USA was the chief guest and delivered lead talk on "Risk factors, screening and surveillance for CKD" at the symposium. Other lectures included: ‘Deceased donor kidney transplantation in India - Current status and future prospects’ by Dr Georgi Abraham (PIMS, Pondicherry & MMM, Chennai), ‘CKD in India - The Ugly Truth’ by Dr PS Priyamvada (JIPMER), ‘Living Donor Kidney Transplantation in India - current scenario & future prospects’ by Dr K. Muruganandham (JIPMER).

3. The dept of Nephrology organized a JIPMER Scientific Society (JSS) meeting on 2nd November 2011 where Dr Jai Radhakrishnan, Associate Professor of Clinical Medicine, Director, Nephrology Fellowship program & Director, Nephrology Clinic, at Division of Nephrology, Columbia University Medical center and associate editor of ‘kidney international’ - the flagship journal of International Society of Nephrology (ISN) delivered a lecture on ‘Diabetic Nephropathy’.

Dr. R.P. Swaminathan

- Attended a CME for the Post Graduates on 4th February 2012 and presented a guest lecture on “Neurogenic Bladder”.

- Organized and chaired a session and proposed vote of thanks on World Kidney Day Symposium on 6th March 2012.

Dr. Sreejith Parameswaran

- Organized “SAMSAARA - The Circle of Life”: Awareness Program on Organ Donation for the state of Pondicherry, at JIPMER, on 29th August 2011.

• Organized a JIPMER Scientific Society meeting on 2nd November 2011.

• Attended ‘Symposium on Statins’ organized by the depts of Cardiology, Neurology, Nephrology & Medicine on 23rd October 2011, at JIPMER, Pondicherry.

• Attended Pre-congress Symposium & Workshop on ‘Acute Kidney Injury’ on 8th December 2011, at Hyderabad, organized by the Indian Society of Nephrology as part of the annual conference of Indian Society of Nephrology (ISNCON 2011) held at Hyderabad.

CONFERENCES

Dr. R.P. Swaminathan

• Attended the National Medical Education Conference (MEDUCON 2011) from 30/09/11 to 02/10/11 organized by Alumni Association of National Teachers Training Centre, JIPMER (AANJ).

• Attended a Conference on Master Class on liver diseases conducted by Global Hospital from 02/12/11 to 04/12/11 at Chennai.

Dr. Sreejith Parameswaran:

• Participated as faculty at the annual conference of Society for Dialysis Technologists & Paramedics (STDPCON 2011) held at Chennai on 15th May 2011 and delivered a lecture on “Renal Replacement Therapy in Acute Renal Failure”.

• Participated as faculty at the annual conference of the Peritoneal Dialysis Society of India (PDSICON 2011) held at Chennai from 30th September to 2nd October, Delivered a lecture on ‘Indications & Contraindications of Peritoneal Dialysis’ and also chaired a session on ‘Peritoneal physiology & the importance of Peritoneal Equilibration Test (PET)’.

• Attended the annual national conference of Indian Society of Nephrology (ISNCON 2011) at Hyderabad from 7th to 11th December 2011. A paper was presented from the dept (corresponding author & principal investigator) on ‘Comparison of SLED vs IHD in hemodynamically stable AKI patients’, which won the Best Paper award in the dialysis category. Also contributed a chapter on ‘Wearable artificial kidney’ in the book ‘Postgraduate Nephrology’ brought out as a part of the conference.

RESEARCH PROJECTS

Funded Projects

Ongoing

“Longitudinal follow up of bone mineral density in adults with nephrotic syndrome from primary glomerular disease”
Collaborative Projects

**Completed**
- “Comparison of Slow Low Efficiency Dialysis (SLED) and intermittent hemodialysis for acute kidney injury” (Dept of Medicine).
- ‘Comparison of serum cystatin-c and creatinine as markers of renal function’ (Dept of Biochemistry & Nuclear Medicine)

**Ongoing**
- “A study of renal tubular function abnormalities in patients with endemic spontaneous symptomatic hypokalemia”.
- “Levels of proteinuria in patients with nephrotic syndrome and its relationship with dietary protein intake: An Indian scenario”.
- Oxidative stress, Protein glycation and Thyroid function in adult patients with nephrotic syndrome and after remission’.
- ‘The Role of serum NGAL level in predicting outcomes of patients with dialysis requiring acute kidney injury’.
- ‘Clinical Profile and Cardiovascular evaluation in Type 2 Diabetics with Nephropathy’.

**PUBLICATIONS**
- Parameswaran S, Indications and Contraindications for Peritoneal Dialysis (Abstract), PDSICON 2011.

**PATIENT CARE SERVICES**
The new patient care services started by the dept of Nephrology, during 2011-12 include:
- Living Donor Kidney Transplantation Program.
- Counselling for ESRD patients on treatment options available & guidance for the same.
• Services of a dedicated transplant coordinator.
• Maintenance dialysis program for patients waitlisted for kidney transplantation at JIPMER.
• Charcoal Haemoperfusion for poisonings and drug overdose.

Other patient care services provided by the dept of Nephrology include:
• Haemodialysis - 24 hours emergency dialysis services
• Sustained Low Efficiency Dialysis (SLED) for haemodynamically unstable, critically ill patients
• Therapeutic Plasma Exchange using plasma filter for renal and non-renal indications
• Continuous Ambulatory Peritoneal Dialysis (CAPD) program for End Stage Renal Disease patients, the dept completed one year of CAPD program in January 2012.
• Ultrasound guided kidney biopsy with in-house renal pathology services
• Renal Clinic twice a week (Monday & Friday)
• Glomerular diseases clinic once a week (Monday)
• Dedicated Nephrology in-patient services with isolation facility for admission of kidney transplant recipients.
• Nephrology consultation services
  Number of Nephrology OPD patients : 6556
  Number of Kidney Transplants : 03
  Number of Hemodialysis : New patients - 680 and sessions - 3526
  Number of Kidney biopsies : 88
  Number of Percutaneous CAPD catheter insertions : 05
  Nephrology consultations : 1163
  Therapeutic Plasma Exchange : New cases – 46 and sessions - 190
  Charcoal haemoperfusion : 01 patient, 02 sessions

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS
Dr R.P. Swaminathan
• Received the ‘Best Paper Award’ for the paper “Comparison of Sustained Low Efficiency Dialysis (SLED) and intermittent hemodialysis for acute kidney injury” presented at the Annual Conference of Indian Society of Nephrology (ISNCON 2011) held at Hyderabad, from 8th to 11th December 2011.
• First Kidney Transplantation done in JIPMER on 3rd March 2012
• Nominated as Examiner by the National Board of Examinations.

Dr. Sreejith Parameswaran
• Special invitee at the “Strategy meeting of Expert Group on Chronic Disease Biology research, of Department of Biotechnology (DBT), Government of India, Task Force on Endocrine, Cardiac & Renal, Autoimmune Diseases & Reproductive Biology” under the Chairmanship of Prof. Polani B. Seshagiri on 16-17th July, 2011 at Rajiv Gandhi institute of Biotechnology, Trivandrum.
• Invited to join the Editorial Board of Health Sciences, an interdisciplinary, open access, online, quarterly journal being newly launched by Kerala University of Health Sciences (Medical University of the state of Kerala)
• Received the ‘Best Paper Award’ (principal investigator) for the paper “Comparison of Sustained Low Efficiency Dialysis (SLED) and intermittent hemodialysis for acute kidney injury” presented at the Annual Conference of Indian Society of Nephrology (ISNCON 2011) held at Hyderabad, from 8th to 11th December 2011.
• Member of The Transplantation Society (TTS)
• Member of the Indian Society of Nephrology - Southern Chapter (ISN - SC).

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. R.P. Swaminathan
• Member of the institute core committee for Kidney transplantation at JIPMER.
• Member of the Kidney transplantation team at JIPMER
• Administrative head of Dept of Nephrology
• Supervised the preparation of curriculum and syllabus for D.M. Nephrology program, Dept of Nephrology, JIPMER.

Dr. Sreejith Parameswaran
• Member of the institute core committee for Kidney transplantation at JIPMER.
• Member of the Kidney transplantation team at JIPMER
• As the key member of the kidney transplantation team, JIPMER, from the dept of Nephrology, Dr Sreejith Parameswaran was given the responsibility of organizing the kidney transplantation program. He was primarily responsible for coordination of the multidisciplinary team for kidney transplantation, formulating the ‘JIPMER Protocol for Living Donor Kidney Transplantation’, maintaining the transplantation waiting list, preparation of recipients and donors for transplant operation and follow up care of the transplant recipients are donors.
• Formulated the curriculum and syllabus for D.M. Nephrology program, Dept of Nephrology, JIPMER.

• Member, Institute Adverse Drug Reaction (ADR) monitoring committee, JIPMER.

• Examiner and question setter for BSc Allied Medical Sciences - Dialysis Technology course.

• Co-Guide to M.D. Thesis candidates from the dept of Medicine, JIPMER.

• Co-Guide to MSc Biochemistry students from the dept of Biochemistry, JIPMER.

• Actively assisted Dr R.P. Swaminathan in administrative responsibilities associated with the dept of Nephrology.

SIGNIFICANT EVENTS IN THE DEPARTMENT

• JIPMER was registered as a center authorized for performing kidney transplantation in April 2011. The departments of Nephrology & Urology together organized the kidney transplantation program at JIPMER. The first kidney transplantation was carried out on 3rd March 2012, followed by another two transplants in the month of March, 2012. The Kidney transplantation team also formulated 'JIPMER Protocol for Living Donor Kidney Transplantation'. A dedicated transplant coordinator was appointed in the dept.

• The JIPMER standing academic committee approved starting formal training program in Nephrology (DM Nephrology), in the month of March 2012. Candidates are expected to be admitted in the academic year 2012 – 13.

• A new dialysis technician - Mr Krishna Kumar - joined the department on 20th Jan 2012.

• Dr Jai Radhakrishnan, Associate Professor, Department of Medicine and Nephrologist, Columbia University, New York visited the department on 2nd November 2011, Conducted ward rounds and bed side case discussion and gave lectures on the topics ‘Case based approach to treatment of hypertension’ for residents in dept of Medicine, and lead talk on ‘Diabetic Nephropathy - an update’ in the JIPMER Scientific Society meeting organized by the department on 2nd November 2011.

• Dr Rajiv Saran, Associate Professor of Medicine, Division of Nephrology, Department of Internal Medicine, Associate Director, University of Michigan Kidney Epidemiology and Cost Center (UM-KECC), Henry F. Vaughan School of Public Health, University of Michigan, Ann Arbor, Michigan, USA, visited the department from 5th to 7th March 2012. He delivered a lecture on 'Waking up to CKD' in the dept of Medicine on 5th March 2012 and the lead lecture on "Risk factors, screening and surveillance for CKD" at the Symposium on Preventive Nephrology and World Kidney Day Celebration organized by the dept of Nephrology, on 6th March 2012.
- A state of the art LCD projector was procured for the dept of Nephrology (March 2012).
- An ultrasonography machine was donated to the dept of Nephrology by the Dept of Cardiology, JIPMER.
- A state of the art ICU ventilator was donated to the dialysis unit by the Dept of Neurology, JIPMER.
- Dr. Sreejith Parameswaran participated in JIPMER outreach program to Karaikal, Pondicherry U.T. and conducted periodic Nephrology special outpatient clinic at the JIPMER outreach centre, Karaikal.
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 was ably assisted by Dr. Ram Niranjan Sahoo, as a Chief Medical Officer from 2003 to 2010. During the period 2000-2009, the department functioned in the main hospital block, with only 8 inpatient beds and two weekly clinics but acquired state-of-the art equipments 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. Academic training programmes started with DM (Neurology) in 2009 and BSc Neurotechnology in 2011. We have embarked on our future plans to set up comprehensive neurovascular, epilepsy care, clinical neurobiology and neurobionics programmes.

EDUCATIONAL COURSES

Undergraduate courses

- MBBS: Our faculty take didactic lecture classes in Neurology to final year MBBS students on topics such as stroke, epilepsy and parkinsonism and conduct yearly the Dr. Nanda memorial Gold Medal Examination in Neurology for MBBS students.

- BSc Neurotechnology: course started in 2011 with an intake of 4 students per year. We are the first in the country to start Neurotechnology as a comprehensive BSc course.
• BSc Nursing: Department takes part in the Neurology training of students through didactic lectures in Neuroscience topics.

**Postgraduate courses**
- MD postgraduate students of JIPMER 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, Pharmacology currently.
- We conduct Dr.Chandrasekhar Gold Medal Examinations for MD Medicine, Paediatrics and Psychiatry students.

**Postdoctoral courses**
- Department of Neurology admitted the third batch of students in DM course in Neurology. Seats: 2 per year.
- Department co-guides PhD students in Pharmacology, physiology and Microbiology.

**Short term learning**
- Two Neurophysiotherapy postgraduate students from Mother Theresa Institute of paramedical sciences, Pondicherry underwent training in Neurology.
- One batch of third year BSc nursing students were given didactic lectures and underwent rotations in Neurology.
- Two Students of Medical records training course received didactic lectures and underwent training in Neurology topics.

**CONTINUING MEDICAL EDUCATION**
The department conducted the following CMEs and Workshop during the year 2011-12:
- One-day CME on Update in Stroke on 29th October 2011 in connection with World Stroke Day. The following talks were delivered
  1. Tissue, Time and Thrombolysis: Dr. Archana, AB; PhD, National Centre for Biosciences, Bangalore.
  2. Vascular interventions in stroke: A hands on update: Dr. Santhosh Joseph, Professor and Head of Radiodiagnosis, Sree Ramachandra Medical College, Porur
  3. Emerging risk factors in stroke 1: Role of homocysteine: Dr. Sunil K Narayan, Professor of Neurology, JIPMER.
  4. Emerging risk factors in stroke 2: Obstructive sleep apnoea: Dr. Srijithesh PR, Assistant Professor of Neurology, JIPMER.

Dr. Vaibhav Wadhekar, Assistant professor of Neurology organized a quiz programme for postgraduate medical students and an elocution competition was held for BSc nursing students.
• One-day CME on Update in Multiple Sclerosis in connection with World Multiple Sclerosis Day on 25th May 2011. The following talks were delivered
  1. Introduction to Multiple Sclerosis and Allied Sciences. Indian and global scenario: Dr. Sunil K Narayan.
  2. Overview of management of Multiple Sclerosis for patients and caregivers: Prof. V. Natarajan, Institute of Neurology, Chennai.

CONFERENCES

Dr. Sunil Narayan
• Invited faculty for the CME programme and delivered a talk on” Neurogenetics: An update” at the annual National conference of Neurological Society of India, NIMHANS, Bangalore, 16th to 19th December 2012.
• Gave a talk on “Statins and stroke” on a one day seminar organized by the department of cardiology at JIPMER on 23.10.2011.
• Delivered a lecture on” From patient care to clinical Research” at the Workshop on Clinical Research for Clinical Investigators held on 21.10. 2011 organised by division of clinical pharmacology at JIPMER, Pondicherry.
• Delivered a talk on “Diabetes and Stroke: an update” at the DctCON 2011 held at Trichy in November 2011.
• Chaired a session at the Myocon 2012, 21st to 22nd Jan 2012, Chennai.
• Chaired a session at the ICNR 2012, International Conference on Neurology and Neurorehabilitation. 27th to 29th Jan 2012, Chennai.
• Chaired a teaching clinical session. at SHINE 2012, Chennai held on 12th February 2012.
• Chaired a session on “Inflammatory markers in stroke” at the annual Neurosciences India Group, Chennai meet held on 10th February 2012.
• Delegate at the Workshop on protocol development for Cochrane systemic review, CMC Vellore, February, 2012.
Dr. Pradeep Nair

- Participated as a delegate at NIH sponsored workshop on scientific paper writing December 8th-11th, 2011 at Lucknow.
- Participated as a delegate in the Preconference Workshop and conference at EPICON 2012 (Epilepsy conference) held from February 23 to 26 at Kochi.

Dr. Srijithesh PR

- Attended 19th Annual National conference of the Indian Academy of Neurology, held in Pune from 22nd to 25th September 2011.
- Delegate at Epidemiology and Research methodology workshop organized by the P&SM department, JIPMER.
- Delegates at the workshop on Delhi Course on Neurointervention, New Delhi, March 2012.

Dr. Praveen Kumar Sharma

- Delegate at the workshop on Delhi Course on Neurointervention, New Delhi, March 2012.

The following papers were presented from the department of Neurology at the 19th Annual National conference of the Indian Academy of Neurology, held in Pune from 22nd to 25th September 2011.


RESEARCH PROJECTS

Clinical Trials

- Randomized double blind placebo controlled trial of Sodium ozagrel and Edaravone in acute ischemic stroke (EDOZ): Principal investigator: Dr. Sunil K Narayan (CTRI REF/2012/03/003334).

- Effectiveness of Nitric Oxide in Stroke (ENOS): A multicentric international open labeled single blinded study-Principal investigator: Dr. Sunil K Narayan.

- Comparison of efficacy of local corticosteroid injection into carpal tunnel: Distal Vs Proximal approaches in patients with carpal tunnel syndrome, Randomized double blind non inferiority trial. Principal investigator: Dr. Pradeep Nair.

- A study to evaluate novel induction –de induction technique in patients with suspected Psychogenic Non epileptic seizure (PNES). Principal investigator: Dr. Pradeep Nair.
Other Research Works

- 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: Dr. Sunil Narayan.

- Association of thrombophilic factors (Protein C, Protein S, Antithrombin III, Factor V Leyden and antiphospholipid antibodies) in stroke: Principal investigator: Dr. Sunil Narayan.

- Effect of CYP2C19 and MDR1 genetic polymorphisms on antiplatelet effects of Clopidogrel in clinical settings: Co-guide, MD Pharmacology thesis: Dr. Sunil Narayan.

- Effect of CYP3A5 genetic polymorphisms on antiplatelet effects of Clopidogrel in patients on treatment with Clopidogrel: Co-guide, MD Pharmacology thesis: Dr. Sunil Narayan.

- Evaluation of Immunological and molecular methods in the rapid diagnosis of Herpes Simplex- Type 1 encephalitis: Co-guide, MD Microbiology thesis: Dr. Sunil Narayan.

- Evaluation of sleep disordered breathing using Polysomnography: Co-guide, MD Pulmonary Medicine thesis: Dr. Sunil Narayan.

- Predictors of intermediate syndrome in organophosphorus poisoning: Co-guide, MD Medicine thesis: Dr. Sunil Narayan.

- Identification of a diagnostic target by Phage display library for Neurocysticercosis: Co-guide, PhD Microbiology thesis: Dr. Sunil Narayan.

- Temporal Validity of Biochemical Platelet Responsiveness to Aspirin in Ischemic Stroke Patients: Dr. Srijithesh PR, Principal Investigator.

- Determinants of Delayed and Missed Diagnosis of Migraine: Dr. Srijithesh PR, Principal Investigator.

- Prevalence of Restless Legs Syndrome in Patients of Chronic Liver Disease. Dr. Vaibhav Wadhekar, Principal investigator.

- Somatosensory Evoked Potential Studies in patients of Tethered cord syndrome Dr. Vaibhav Wadhekar, co-investigator.

- Clinical pattern and survival analysis based on Amyotrophic lateral sclerosis functional rating scale –revised (ALSFRSr) scores and baseline characteristics in a south indian cohort of motor neuron disease patients: Dr. Aditya Murgai and Dr. Sunil Narayan.

- Determinants of Natural history in acquired central demyelinating diseases: A comparative study between multiple sclerosis, Neuromyelitis optica, relapsing ADEM and central nervous system Lupus: Dr. Nirmala Vangapandu and Dr. Sunil Narayan.

- Transcranial Doppler flow velocity measurements in cerebral vasculature: Reference values at rest and after breath holding in healthy volunteers: Dr. Sushma Sharma and Dr. Sunil Narayan.
PUBLICATIONS


BOOK CHAPTERS


PATIENT CARE SERVICES

A. Clinical

Outpatient Care:

Stroke Clinic: The stroke and TIA clinic led by a trained stroke neurologist augmented its follow-up services by the services rendered by a clinical stroke trial co-ordinator and the neurobiology technician, neurophysiotherapy trainees and social science trainees. 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 sees up to 25 new and 50 follow-up patients a week.

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 CNS infections and IV tPA thrombolysis therapy for acute ischemic strokes with prompt laboratory supports including neuroimaging, neurochemistry and neurophysiologic studies and access to internet in all wards makes our service efficient and unique.

Outreach Care
Department conducted 6 medical camps in Karaikkal at the JIPMER outreach Centre.

B. Laboratory
 Equipments: Department acquired a carotid colour duplex-cum-Transcranial Doppler machine.

Staff: A technician was appointed for the clinical Neurobiology laboratory.

C. Community Work

- Department conducted a public awareness programme on “Stroke care in community and special community homes” in connection with the World Stroke Day observation on 29.10.2010.
- Department also conducted a public awareness programme on “Multiple Sclerosis” in connection with the World Multiple Sclerosis day.
- Department of Neurology with Neurosurgery conducted 6 medical camps in Karaikkal at the JIPMER outreach centre. This was attended by around 75 patients on average.

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr. Sunil Narayan led a 4-member Indian team which won the first runner-up place at the “Tournament of Minds” held at the WCN, 2011. Dr. Rohit Bhatia, Dr. Pawan Ojha and Dr. Shripad Pujari were the other three members.
ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. Sunil Narayan

- Expert for the Medical Council of India inspection at SRM Medical College, Kancheepuram for DM Neurology course.
- Expert for Kerala State Council for Science, Technology and Environment for evaluation of research project proposals for grants.
- Expert for evaluation of Neurology equipments under PMSSY scheme.
- Expert member for Neurosciences for evaluation of drug trial proposals and new drug proposals for NDAC for the Drug Control General of India.
- Vice president for the JIPMER Scientific Society.

Dr. Praveenkumar Sharma

- Served as executive officer for the JIPMER Scientific Society.

Dr. Vaibhav Wadhekar

- Served as the nodal-officer for the BSc. Neurotechnology course.

SIGNIFICANT EVENTS IN THE DEPARTMENT

- Department of Neurology observed a World Multiple Sclerosis Day on 25.05.2011.
- Department of Neurology observed World Stroke Day on 29.10.2011.
- Department of Neurology started a randomized double-blind Clinical trial on effectiveness of neuroprotective drugs (EDOZ) in acute ischemic stroke.
- Department started a new course, BSc in Neurotechnology.
8.19 Neurosurgery

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<tr>
<td>V.R. Roopesh Kumar</td>
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<td>M.S. Gopalakrishnan</td>
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<tr>
<td>Venkatesh S. Madhugiri</td>
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BACKGROUND INFORMATION ABOUT 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. Dr. Hari and Dr. 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. At the outset, beds were provided in the Cardiology and CTVS wards and post-operative patients were taken care of in the CTVS ICU (Ward 47). Operating time was allotted in OT 7 & 8 in the main hospital building.

Currently the department functions in the 2nd floor of the Superspecialty Block and has 18 general ward beds, 2 special ward beds and 6 ICU beds. Patients requiring emergency neurosurgical care or observation are admitted in the EMS block. There is a dedicated Neurosurgery OT in the SSB OT complex. Dr. Shankar Ganesh resigned and was relieved of his responsibilities in March 2012. The department continues to function with three faculty members as a unitary clinical and administrative entity.

EDUCATIONAL COURSES

Undergraduate Courses

Didactic lectures are delivered to M.B.,B.S students in their 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.

Postgraduate Courses (intramural)

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 neurosurgical 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 a special emphasis on neuro-otology is taught. Evaluation of patients with Cerebello-pontine angle and other skull base lesions and their clinical and operative management are part of the training.
Postgraduate Courses (extramural)
Since 2011, M.Ch. neurosurgery residents from Madras Medical College (Chennai) and Stanley Medical College (Chennai) are being posted as observers in the department for a period of one month. They observe all clinical activities and participate in the academic programmes of the department.

Four M.S. General surgery postgraduate residents from Mahatma Gandhi Medical College receive training for a period of one month. The training training pattern is similar to that of JIPMER General surgery residents.

M.Sc Physiotherapy students from Mother Theresa College of Physiotherapy are sent to our department for a period of one month. Functional rehabilitation of neurosurgical patients both in the intensive care and in the wards are the main theme of the training program.

Other Courses
These include training students of the ‘Pre-hospital trauma care technology’ course. Students are trained in ‘on-site’ assessment and initial management of patients with head injury.

CONTINUING MEDICAL EDUCATION PROGRAMMES
Dr. V.R. Roopesh Kumar
- Delivered a talk on “Ophthalmic Manifestations in Neurologic Practice” at a CME organized by the Aravind Eye Hospital, Pondicherry in November 2011.
- Delivered a talk on “Extent of resection of Low Grade Gliomas” at a CME organized by the Chennai Neuro Club in February 2012.
- Participated in a panel discussion on Gliomas at a CME on Gliomas organized by the RCC, JIPMER in August 2011.
- Delivered a talk on “Brain death” at a CME on Organ Donation organized by the Mohan Foundation, Chennai.
- Chaired a session on “Deceased donor transplant” at a symposium organized as part of the World Kidney Day celebrations at JIPMER in March 2012.

Dr. Venkatesh S Madhugiri
- Gave a talk on the Surgical management of Gliomas at a CME on Gliomas organized by the RCC, JIPMER in August 2011.

CONFERENCES ATTENDED AND PAPERS PRESENTED
Dr. V.R. Roopesh Kumar
- Presented a paper on “Surgical management of cerebral AVMs” at the Annual Conference of the Indian Society of Cerebrovascular Surgery at AIIMS, New Delhi in September 2011.
- Attended the first annual conference of the Neurospinal Surgeons Society of India and the pre-conference cadaver workshop in September 2011 at Bangalore.
• Presented a poster on “Malignant multifocal peripheral nerve sheath tumor” at the annual conference of the Neurospinal Surgeons Society of India in September 2011 at Bangalore.
• Attended the Annual Conference of the Society for Skull Base Surgery of India at CMC, Vellore in October 2011 and the pre-conference Cadaver workshop on skull base dissection techniques.
• Presented a paper on “Surgery for cavernous sinus tumors-our experience” at the Annual Conference of the Society for Skull Base Surgery of India at CMC, Vellore in October 2011.
• Attended the Joint Annual Conference of the Italian Society for Neurosurgery and the Neurological Society of India at Bangalore in December 2011.

Dr. Gopalakrishnan M.S.
• Invited paper presentation at the special symposium on peripheral nerve surgery at the Joint Annual conference the Italian Society for Neurosurgery and the Neurological Society of India at Bangalore in December 2011: “Cadaver dissection in peripheral nerve surgery : Generating instructional material.”
• Attended the first annual conference of the Neurospinal Surgeons Society of India and the pre-conference cadaver workshop in September 2011 at Bangalore.
• Presented a paper "Preoperative planning for arteriovenous malformations of the brain: CISS 3D is a neurosurgeon's best friend" at the Joint Annual Conference of the Italian Society for Neurosurgery and the Neurological Society of India at Bangalore in December 2011.
• Attended the Ginde Memorial oration conducted by the Bombay Hospital, Mumbai in March 2012.

Dr. Venkatesh S. Madhugiri
• Attended the Annual Conference of the Indian Society of Cerebrovascular Surgery at AIIMS, New Delhi in September 2011.
• Attended the 1st Workshop on Temporal Lobe Epilepsy and the hands-on cadaver dissection course on medial temporal lobe anatomy at M S Ramaiah Medical College, Bangalore in October 2011.
• Attended the Joint Annual Conference of the Italian Society for Neurosurgery and the Neurological Society of India at Bangalore in December 2011.
• Attended the Ginde Memorial oration conducted by the Bombay Hospital, Mumbai in March 2012.

RESEARCH PROJECTS
• Randomised controlled trial of the efficacy of tranexamic acid for prevention of progression of conservatively managed brain contusions. (Pilot Study) (Principal Investigator – Dr. Gopalakrishnan MS)
• Randomised controlled trial of the efficacy of ampicillin versus ceftriaxone for prevention of meningitis in traumatic pneumocephalus (Principal Investigator – Dr. Gopalakrishnan MS)
• A study of SPECT perfusion anomalies and correlation with MRI signal changes in brain tumors - an exploratory study. (under the ICMR) (Principal Investigator - Dr. Venkatesh S. Madhugiri)

• A study of CSF lactate levels in patients with tethered cord - a pilot study (ongoing) (Principal Investigator - Dr. Venkatesh S. Madhugiri)

PUBLICATIONS


PATIENT CARE SERVICES
The department of Neurosurgery holds outpatient clinics every Monday and Wednesday. 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 sub-specialty 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 the 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 inter-departmental intramural referrals. These number 90-100 per month.

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS
• Dr. Roopesh Kumar was faculty and demonstrated the technique of C1-2 arthroplasty in the Workshop on Advanced Spine Surgery conducted in the department in December 2011.
• Dr. Venkatesh S. Madhugiri was awarded the International Visiting Surgeons' Fellowship by the American Association of Neurological Surgeons for the year 2012.

• Dr. Gopalakrishnan MS designed and helped manufacture an operating chair mounted hand rest to eliminate tremor and fatigue during neurosurgery.

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

• Dr Roopesh Kumar was member of the technical committee of the PMSSY project.

• All three faculty members have been invited to frame questions for the MCh entrance examination of the AIIMS, New Delhi.

SIGNIFICANT EVENTS IN THE DEPARTMENT

• Conducted a Workshop on Advanced Spine Surgery with an emphasis on minimally invasive spine surgery in collaboration with Medtronic India Ltd in December 2011. This featured live surgical demonstration as well as hands-on stations for the participants.
8.20 Nuclear Medicine

Professor & In-charge
K.S. Reddy
Assistant Professor
Dhanapathi Halanaik

BACKGROUND INFORMATION OF THE DEPARTMENT

The department has one SPECT-CT Dual-Head Gamma Camera, 2 isotope dose calibrators, 2 contamination monitors and 2 radiation survey monitor. We are receiving weekly Technetium isotope generator of 250 mCi, various cold kits on quarterly basis, and iodine-131 of 5 mCi and 3 mCi capsules fortnightly from BRIT, Mumbai. The department is performing most of the general nuclear medicine studies like bone scan (Planar and SPECT.CT), thyroid scan, stress & rest myocardial perfusion SPECT, hepato-biliary scan, renal scan (DTPA, EC & DMSA), lymphoscintigraphy, brain perfusion SPECT, gastrointestinal studies (esophageal transit study, gastroesophageal reflux study and gastric emptying study) 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 3869 studies have been performed between 1st April 2011 to 31st March 2012 and 156 hyperthyroidism patients were treated with Iodine-131.

CONFERENCES

Dr. Dhanapathi Halanaik

2. Acted as a guest lecturer on “Emerging trends in renal scintigraphy” in 43rd Annual Conference Society of Nuclear Medicine India” at Chennai, on 9th Dec-2011.
3. Participated “9th Association of Nuclear Medicine Physicians of India, annual Conference at Hyderabad from 30th September 2011 to October 2nd 2011.
4. Participated in “8th Biennial Conference of Nuclear Cardiology at New Delhi on 19th-20th November 2011

RESEARCH PROJECTS

Sensitivity and specificity of qualitative and quantitative Tc99m sulfur colloid scintigraphy in differentiating cirrhosis from non cirrhotic portal fibrosis.

PUBLICATIONS

PATIENT CARE SERVICES
A total of 3869 studies have been performed between 1st April 2011 to 31st March 2012 and 156 hyperthyroidism patients were treated with Iodine-131.

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS
a) The process for new proposals involving PET.CT and dual head gamma camera has been undertaken in the form of finalizing specifications for both PET.CT and dual head gamma camera.

b) Also similar process has been undertaken for procurement of “thyroid probe with well counter” and TMT with defibrillator.

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<td>4025</td>
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</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 were inducted into the MS Obstetrics and Gynaecology postgraduate programme. Since 2011 the postgraduate seats have increased to 13.

On an average 1,10,000 outpatients and 20,000 in-patients are treated per year. The number of deliveries and major surgeries during the year are 14,329 and 951 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. They are posted in rotation to labour wards in 8th and 9th semesters for 10 days each where they acquire skills. Theory classes are also taken for the nursing students and OT Technicians.

Postgraduates undergo rigorous training in all aspects of Obstetrics and Gynaecology. Bedside clinics, journal clubs, symposia and lecture classes form part of their training in addition to practical training under supervision in the labor wards and operation theatres.

The department is equally involved in high quality research. Each Postgraduate carries out a 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 and contributed chapters to textbooks and edited textbooks. It is also a centre for Postpartum programme and a Human Reproductive Research Centre under the ICMR.

EDUCATIONAL COURSES

- Undergraduate course (MBBS, B.Sc, Nursing, B.Sc. OT Technology)
- Postgraduate course (MS, Obst. & Gynae.)
- Other courses (EMT Certificate course)

CONTINUING MEDICAL EDUCATION PROGRAMMES

Dr. S. Habeebullah

- Attended “India Adhesion Prevention Meet” organised by Ethicon division of Johnson & Johnson at Chennai on 12.4.2011 at Chennai.
- Attended a Principal Investigators meeting (ICMR) at Goa on 19.5.2011 and 20.5.2011.
- Conducted case discussions on ‘Ca cervix’ and ‘Gestational trophoblastic diseases’ during All India PG Training Programme ‘Focus-2011’ at Jubilee Mission Medical College & Research Institute, Thrissur, Kerala on 23.8.2011.
- Conducted case discussions on ‘Heart disease in pregnancy’ and ‘Malignant ovarian tumours’ at the ‘OG QUEST 2012’ at Sri Ramachandra Medical College & Research Institute, Porur, Chennai on 17.02.2012.
- Guest of Honour for Valedictory Ceremony of National Workshop on Kalladaippu (Urolithiasis) & its Management in Siddha at Mother Theresa Institute of Health Sciences Auditorium, Puducherry, organized by Siddha Regional Research Institute, Puducherry on 6.3.2011.
- Organised and Chaired 11 CME sessions conducted by the Obstetric and Gynaecological society of Pondicherry.

Dr. Reddi Rani

- Attended “India Adhesion Prevention Meet” organised by Ethicon division of Johnson & Johnson at Chennai on 12.4.2011 at Chennai.
- Gave a talk on “Progestin only Pill” at OGSP meet on 4.12.2011 in Pondicherry
- Chaired session on “Surgical Management of ovarian Ca” on 11.3.2012 at the meet of RCC, JIPMER.

Dr. Soundararaghavan

At JIPMER, attended

- Endocrinology Meet on Thyroid Disorders
- Meeting on Hepatitis B, May-2011
• CMEs of O.G. Society of Pondicherry
• CME on Epithelial Ovarian Tumor – 11\textsuperscript{th} March, 2012

\textbf{Dr. Dasari Papa}
• Gave a talk on “Surgical management of Epithelial Ovarian malignancies” 11\textsuperscript{th} March 2012, During the CME on “Epithelial Ovarian Malignancies” organized by RCC, JIPMER, Puducherry.
• Participated in a Workshop on Laparoscopy - ‘21st AMASI skill course and CME on advances in Laparoscopic Surgery. JIPMER, Puducherry, Feb 2012.
• Participated in On-line CMEs:
  i.  STI Screening in Gynecological Practice-22/8/11. Omnia Prova Education.
  ii.  HPV DNA testing and Genotyping Update 2011- 21/8/2011
  iv.  Bladder: Examining the Gaps in Patient Care through an Analysis of Educational Outcomes.
• Attended OGSP meet on “Combined oral contraceptives”, Pondicherry Dec 2011.
• Attended OGSP meet on Management of Fibroid uterus by High Intensity focused Ultrasound” Puducherry, India- Jan 2012

\textbf{Dr. Latha Chaturvedula}
• Attended “India Adhesion Prevention Meet” organised by Ethicon division of Johnson & Johnson at Chennai on 12.4.2011.
• Gave a talk on ‘Role of Vit. D and DHA in pregnancy' in July 2011 at OGSP meet, Pondicherry.
• Conducted case discussions on ‘Anemia’ and ‘Hypertension in Pregnancy’ in FOCUS 2011 (PG programme) at Thrissur Kerala on 23.08.2011.
• Attended workshop on “Clinical Research for Clinical Investigators” held in JIPMER from 21.10.2011 to 22.10.2011.
• As Secretary of Obs & Gyn Pondicherry, organized 11 monthly CME’s in Pondicherry.
• Attended “Live operative workshop and CME on the management of female stress urinary incontinence and genital Prolapse”, 3\textsuperscript{rd} December 2011, JIPMER, Pondicherry.
• Attended CME on epithelial ovarian malignancies in March 2012, JIPMER, Puducherry.

\textbf{Dr. Veena}
• Attended March 2012 CME on epithelial ovarian malignancies, JIPMER, Puducherry.
• Attended Monthly CME meetings organized by the Obstetrical and Gynecological Society of Pondicherry.
• Attended “Live operative workshop and CME on the management of female stress urinary incontinence and genital Prolapse”, 3\textsuperscript{rd} December 2011, JIPMER, Pondicherry.
Dr. Haritha Sagili
- Gave a talk on combined oral contraceptives at OGSP meet, Pondicherry, Dec 2011.
- Attended CME on epithelial ovarian malignancies in March 2012 JIPMER, Pondicherry.

Dr. Jayalakshmi D
- Gave a talk on Role of micro nutrients in pregnancy at OGSP meet, Pondicherry in July 2011.
- Attended CME on epithelial ovarian malignancies, JIPMER, in March 2012.
- Attended CME on Hepatitis, JIPMER, 2011.
- Attended CME on Thyroid disorders at JIPMER in 2011.

Dr. Dilip Kumar Maurya
- Attended Monthly CME meetings organized under the auspices of the Obstetrical and Gynecological Society of Pondicherry.
- Chaired a session on laparoscopic management of uterine and adnexal surgeries at 21st AMASI skill course and FMAS examination and CME on advances in laparoscopy. February 24-26, 2012, JIPMER, Pondicherry.

Dr. Kubera N.S.
- Gave a talk on ‘ Agents enhancing and suppressing lactation’ on 4th Sept 2011 at OGSP meet, Pondicherry.
- Attended the National Course on Educational Science for Teachers of Health Professionals, Department of medical education, at JIPMER, Pondicherry, from 5th to 15th Sept 2011.
- Attended 2nd Short Course On Basic Epidemiology, Department of P&SM, JIPMER Pondicherry, from 14th to 19th Nov 2011.
- Attended CME on epithelial ovarian malignancies 11th March 2012, JIPMER.
- Attended CMEs of Pondicherry O.G. Society

Dr. Manikandan K
- Attended Monthly CME meetings organized under the auspices of the Obstetrical and Gynecological Society of Pondicherry.
- Attended CME on epithelial ovarian malignancies. JIPMER. March 2012.
• Advanced Laparoscopy training: FOCSI recognized training course, June 1st through June 14th, at CIMAR hospital, Edappal, Kerala.

• Attended Workshop on Clinical Research for Clinical Investigators at JIPMER on 21st & 22nd October, 2011.

• Attended workshop on Scientific Paper Writing, Organised by SGPGI Lucknow under the auspices of the Office of AIDS research, National Institutes of Health, USA. December 8 – 11, 2011.

• Attended 64th National Course on Educational Science for Teachers of Health Professionals held from 15.02.2012 to 25.02.2012, Department of Medical Education, JIPMER

Dr. Sasirekha

• Attended CME on Thyroid disorders at JIPMER in 2011

• Gave a talk on Guidelines for thromboprophylaxis in Obstetrics & Gynaecology at OGSP meet, Pondicherry in Feb 2012.

• Attended CME on epithelial ovarian malignancies at JIPMER, in March 2012.

Dr. Anish Keepanasseril

• Attended Monthly CME meetings organised under the auspices of Obstetrics and Gynecological Society of Pondicherry.

• Attended CME on Epithelial Ovarian Malignancies, March 2012, JIPMER.

• Attended “Live Operative Workshop and CME on Operative Management of Stress Urinary Incontinence”, 3rd December 2011, JIPMER.

• Attended “Short term course in Basic Epidemiology” JIPMER, from 14-19 November 2011.

CONFERENCES

Dr. S. Habeebullah

• Attended 11th International Conference on “Practical aspects in managing sub-fertility, Obstetrics & Gynaecology – Dilemma in decision making” at Madras Medical Mission, Chennai on 17.7.2011. Chaired a session on ‘gyn cancer’ and was a panelist on ‘GTD- current views’.


• Gave a talk on “Radical trachelectomy” at the 28th Annual Conference of the Obst & Gyn Society of Southern India at Chennai on 12.11.2011.

• Was a member of panel discussion on “Gestational Trophoblastic Disease” and chaired a scientific session on ‘vulva-the disputed area’ at the “Annual Conference of Association of Gynecologic Oncologists of India” held in Bhubaneswar, Orissa from 9.12.2011 to 11.12.2011.
**Dr. Reddi Rani**
- Attended India Adhesion Prevention Meet” organised by Ethicon division of Johnson & Johnson at Chennai on 12.4.2011.
- Attended ARICOM 2011 at Jaipur from 24th to 27th December, 2011.
- Co-authored a paper presented titled” Comparative study of clomiphene & Letrozole for ovulation induction” at All India 55th FOGSI conference January, 2012 at Banaras.

**Dr. Latha Chaturvedula**
- Gave a talk on “Predictors of pre-term labour” on 12.11.2011 at OGSSI at Chennai.

**Dr. Veena**
- Attended State level Gestational Medicine - An Update, on Sep 2011 at MGMC, Puducherry.

**Dr. Haritha Sagili**

**Dr. Dilip Kumar Maurya**
- Attended 1st International congress of society of fetal medicine at New Delhi, October 1-2, 2011.
- II Annual conference on hospital infection control, November 3-4, 2011, MGCRI, Pondicherry.

**Dr. Kubera, N.S.**
- Attended, Ultrasound in Gynecology – Basics and Beyond, Manipal Hospital, Bangalore from 2nd to 4th Dec 2011.
- Attended International Scientific Meeting 2011 at Bangalore from 17th to 19th June 2011.
• Attended Opening Minds to Fetal needs at New Delhi from 1st and 2nd OCT 2011.
• Attended Scientific conference of the IADPSG 2012 at Chennai from 24th to 26th Feb 2012.

Dr. Jayalakshmi
• Attended conference on Transvaginal USG in gynecology, Bengaluru, Nov 2011.
• Attended International Congress on Emergencies in Obstetrics, Bengaluru, July 2011.

Dr. Manikandan
• Attended International Scientific Meeting, June 17th through 19th, 2011, Bengaluru.
• Attended 1st International congress of society of fetal medicine at New Delhi from October 1-2, 2011

Dr. Sasirekha
• Attended AGOICON (Association of Gynecologic Oncologists of India Conference) at Bhubaneswar December 2011.

Dr. Anish Keepanasseril
• Attended “PROGRESS 2011” Chennai, (Theme: Managing Complication in Obstetrics & Gynecology) in July 2011.

RESEARCH PROJECTS

Ongoing
1. “Thyroid dysfunction among antenatal women”. Dr. Dilip. K. Maurya, Dr. P.H. Ananthanarayan, Dr. Soundara Raghaven.
2. Effect of mid trimester yoga on the incidence of preeclampsia in high risk women. Dr. Manikandan K, Dr. M. Trakroo, Dr. AB Bhavanani, Dr. Veena P, Dr. Haritha Sagili, Dr. Kubera NS, Dr. Soundararaghavan.
3. Retrospective analysis of Obstetric and Gynaecological patients requiring intensive care. Dr. Veena P, Dr. Kubera N S, Dr. Soundararaghavan S.
4. Chromosomal abnormalities among fetuses with structural anomalies evaluated in JIPMER. Dr. Manikandan K, Dr. Suma, Dr. Veena P, Dr. Dilipkumar Maurya, Dr. Soundararaghavan.
5. Fetal growth charts for south Indian population. Dr. Manikandan K, Dr. Suma, Dr. Veena P, Dr. Dilipkumar Maurya, Dr. Soundararaghavan.
6. “Randomized controlled trial comparing two different regimes of magnesium sulphate in severe preeclampsia: A Pilot Study” Dr. Anish Keepanasseril, Dr S Soundara Raghavan, Dr Syed Habeebullah, Dr Manikandan K, Dr. Dilip Kumar Maurya.
PUBLICATIONS

Journals


Books

# PATIENT CARE SERVICES

<table>
<thead>
<tr>
<th>SL. NO.</th>
<th>CLINICS</th>
<th>NEW</th>
<th>OLD</th>
<th>TOTAL</th>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td>General OPD Obst</td>
<td>16,741</td>
<td>35,396</td>
<td>52,137</td>
</tr>
<tr>
<td>2.</td>
<td>Gynae</td>
<td>16,661</td>
<td>29,092</td>
<td>45,753</td>
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<tr>
<td>3.</td>
<td>Cancer Clinic</td>
<td>1,019</td>
<td>1,710</td>
<td>2,729</td>
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<tr>
<td>4.</td>
<td>Infertility Clinic</td>
<td>154</td>
<td>202</td>
<td>356</td>
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<td>5.</td>
<td>Post Natal clinic</td>
<td>1,432</td>
<td>1,050</td>
<td>2,482</td>
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## Operations Performed

### Gynaecology

<table>
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<tr>
<th>Procedure</th>
<th>Count</th>
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<tbody>
<tr>
<td>Major Abdominal surgery</td>
<td>359</td>
</tr>
<tr>
<td>Major Vaginal Surgery</td>
<td>352</td>
</tr>
<tr>
<td>Oncology Surgery</td>
<td>133</td>
</tr>
<tr>
<td>Diagnostic Lap/Hysteroscopy/ Operative Laparoscopy</td>
<td>107</td>
</tr>
<tr>
<td>D&amp;C/FC/EA</td>
<td>992</td>
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<tr>
<td>Biopsies/Polypectomy</td>
<td>1,766</td>
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<tr>
<td>Cystoscopy/Cryo/colposcopy</td>
<td>150</td>
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<tr>
<td>Pap smear</td>
<td>7,368</td>
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<tr>
<td>MTP</td>
<td>193</td>
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<tr>
<td>Sterilizations</td>
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### Obstetrics

<table>
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<tr>
<th>Procedure</th>
<th>Count</th>
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<tbody>
<tr>
<td>Deliveries</td>
<td>14,329</td>
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<tr>
<td>Operative vaginal deliveries</td>
<td>1,918</td>
</tr>
<tr>
<td>LSCS</td>
<td>2,300</td>
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<tr>
<td>Emergency Laparotomy</td>
<td>142</td>
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<tr>
<td>NST</td>
<td>857</td>
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<tr>
<td>USG</td>
<td>9,916</td>
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### Side Laboratory Investigations (O&G)

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<tr>
<th>Blood Test</th>
<th>Count</th>
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<tbody>
<tr>
<td>Hb</td>
<td>13,203</td>
</tr>
<tr>
<td>BT, CT</td>
<td>4,878</td>
</tr>
<tr>
<td>TC, DC</td>
<td>981</td>
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<tr>
<td>ESR</td>
<td>639</td>
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<tr>
<td>Blood Grouping</td>
<td>2,329</td>
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</table>
### Urine

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<tbody>
<tr>
<td>Routine &amp; Microscopy</td>
<td>5,072</td>
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<tr>
<td>Pregnancy Test</td>
<td>536</td>
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<tr>
<td>Ketones</td>
<td>57</td>
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<tr>
<td>BS</td>
<td>9</td>
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<tr>
<td>Protein</td>
<td>34,617</td>
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</table>

### Stool

<table>
<thead>
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<th>Test</th>
<th>Count</th>
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</thead>
<tbody>
<tr>
<td>Ova/ cyst</td>
<td>178</td>
</tr>
<tr>
<td>Occult blood</td>
<td>58</td>
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### POSTPARTUM PROGRAMME

**Achievement of different family planning methods**

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<tr>
<th>Method</th>
<th>Achievement</th>
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<tbody>
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<td>Copper T</td>
<td>98</td>
</tr>
<tr>
<td>Oral Pills</td>
<td>87</td>
</tr>
<tr>
<td>Condoms</td>
<td>279</td>
</tr>
<tr>
<td>Sterilisation (Tubectomy)</td>
<td>2549</td>
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<td>Vasectomy</td>
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### Immunization Particulars

**OPV**

**JIPMER OPD**

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<thead>
<tr>
<th>Vaccine</th>
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<th>Service Area</th>
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<tr>
<td>OPV I</td>
<td>65</td>
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</tr>
<tr>
<td>OPV II</td>
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<td></td>
</tr>
<tr>
<td>OPV III</td>
<td>56</td>
<td></td>
</tr>
<tr>
<td>Booster</td>
<td>-</td>
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</tbody>
</table>

**DPT**

<table>
<thead>
<tr>
<th>Vaccine</th>
<th>I dose</th>
<th>II dose</th>
<th>III dose</th>
<th>Booster dose</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPT I</td>
<td>65</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DPT II</td>
<td>52</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>DPT III</td>
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<tr>
<td>Booster</td>
<td>52</td>
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**Hepatitis B**

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<thead>
<tr>
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<th>II dose</th>
<th>III dose</th>
<th>Measles</th>
<th>MMR</th>
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<tbody>
<tr>
<td>I</td>
<td>65</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>II</td>
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<td>MMR</td>
<td>52</td>
<td></td>
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</table>

**T.T**

<table>
<thead>
<tr>
<th>Vaccine</th>
<th>I dose</th>
<th>II dose</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>64</td>
<td></td>
</tr>
<tr>
<td>II</td>
<td>60</td>
<td></td>
</tr>
</tbody>
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AWARDS, HONOURS AND OTHER ACHIEVEMENTS

Postgraduates

• Dr. A.V.Oumachigui Memorial Gold Medal - Dr.Sathyalakshmi.B

Undergraduates

• Dr & Dr (Mrs.) S.N Mukherjee Gold medal in Obstetrics and Gynecology - Aswanthi S (Miss)
• Dr Uvathi Memorial Endowment Prize - Venkata Ganesh

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. Habeebullah

• Nominated by National Board of Examinations to conduct DNB practical exams in Obst. & Gynae at Armed Forces Medical College, Pune from 17th to 20.09. 2011 and at UCMS & GTB Hospital, Delhi from 10th to 13-10-2011.
• Nominated as External Examiner for M.S. (Obst & Gynaec) Practical Examinations of October 2011 at Mahatma Gandhi Medical College and Research Institute, Pondicherry, on 22.10.2011.
• President of Obstetric & Gynaecological Society of Pondicherry.
• Member of State Level Assurance Committee for improving the Quality of Family Welfare Services under the National Family Welfare Programme.
• Member of pre-conception and Pre-Natal diagnostic technique (PNDT) Advisory committee.
• Reviewer for articles in the journal of Obst & Gyn India.
• Ethical committee member of Siddha Regional Research Institute, Puducherry
• Reviewer for DCGI
• Chairman of Cafeteria committee, JIPMER
• Chairman of OT monitoring committee, JIPMER
• Member of various committees in JIPMER
• Warden of JIPMER male resident doctor hostel

Dr. Reddi Rani

• Nominated as one of the members of the Inspection Committee by Pondicherry University to inspect medical colleges located at Puducherry on 30.6.2011, 5.7.2011 and 1.10.2011.
• Nominated by National Board of Examinations to conduct DNB practical exams in Obst & Gynae at Lady Hardinge Medical College, New Delhi from 10.10.2011 to 13.10.2011.
• External Examiner for M.S. (Obst & Gynaec) Practical Examinations of October 2011 at Pondicherry University of Medical Sciences (PIMS), Pondicherry on 21.10.201.
• Inspected the Medical Colleges located at Puducherry region for verifying the infrastructure and other facilities for grant of affiliation for the year 2012-13 on 26th & 27th of March, 2012.

Dr. S. Soundararaghavan
• Referee for reviewing articles for Fertility & Sterility.
• International referee for reviewing articles for British Medical Journal.

Dr. Latha Chaturvedula
• Secretary of Obstetric & Gynaecological Society of Pondicherry.
• Faculty of Dept. of Medical Education, JIPMER, Pondicherry
• Faculty for PG orientation session on Ethics for medical doctors, JIPMER.
• Warden of all Women hostels including Resident doctors and girl students of various courses (MBBS, PhD, M Sc, B Sc MLT, Lab technology, B Sc OT etc.) of JIPMER.
• Was examiner for M.B.B.S Practical Examinations at St. John’s Medical College, Bangalore from 16.1.2012 to 18.1.2012
• Member of suture committee, JIPMER.

Guides and Coguides
All faculty members are either Guides or Co guides of various postgraduate dissertations being done in the department.

SIGNIFICANT EVENTS IN THE DEPARTMENT

Visiting Professor
i. Dr. K.Umadevi consultant Kidwai Memorial Institute of Oncology, Bangalore visited our department from 15th to 17th March 2011 and performed Surgeries for genital malignancies and also had PG discussions on Genital malignancies.

ii. Purchased new operative laparoscopic equipment, foetal monitors and portable ultrasound machine.
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 an annual intake of 5 candidates.

CONTINUING MEDICAL EDUCATION PROGRAMS

A Workshop on Clinical Research for Clinical Investigators was organised by the Indian society for Clinical research held at JIPMER on October 21-22, 2011.

Dr. Vasudev Anand Rao

2. Attended “When does Glaucoma become a disease?” Lecture by Dr. Pradeep Y Ramulu at Le Pondy on 7th July 2011. Sponsored by Avesta, Sun Pharma.
3. Attended CME and General Body Meeting of Puducherry Ophthalmic Association on 4.9.11 at the Sunway GRT Grand, Sponsored by Bausch & Lomb.
4. Attended CME on AION by Dr. SS Hayreh at Hotel Anandha Inn on 6.2.12.
5. Attended World Stroke Day on 29th October 2011 at SS Block, JIPMER.
6. Attended Awareness Campaign – Samsaara THE CIRCLE of LIFE at SS Block on 29.8.11 by WHO.
Dr. Renuka Srinivasan

1. Attended CME and General Body Meeting of Puducherry Ophthalmic Association on 4.9.11 at the Sunway GRT Grand, Sponsored by Bausch & Lomb.

2. Attended Neuro-ophthalmology CME titled "Benign Intracranial Hypertension - Role of Ophthalmologist" by Dr. R. Ravinda Battu on 6th Nov 2011 at Hotel Annamalai, Pondicherry.

3. Attended CME on AION by Dr. SS Hayreh at Hotel Anandha Inn on 06.02.12.

Dr. Subashini Kaliaperumal

1. Invited speaker - Evaluation of optic nerve head in glaucoma diagnosis-new findings-October 16th 2011 organised by Aravind eye hospital, Puducherry.

2. Attended “When does Glaucoma become a disease?” Lecture by Dr. Pradeep Y Ramulu at Le Pondy on 7th July 2011. Sponsored by Avesta, Sun Pharma.

3. Attended CME and General Body Meeting of Puducherry Ophthalmic Association on 04.09.11 at the Sunway GRT Grand, Sponsored by Bausch & Lomb.

4. Organized World glaucoma awareness week from March 11th to 17th 2012.

5. Gave a talk on Glaucoma Awareness on Doordarshan, Pondicherry, 19th March, 2012.

6. Attended Neuro-ophthalmology CME titled "Benign Intracranial Hypertension - Role of Ophthalmologist" by Dr. R. Ravinda Battu on 6th Nov 2011 at Hotel Annamalai, Pondicherry.

Dr. Ramesh Babu

As General Secretary of Pondicherry Ophthalmologist's Association, organised the following CMEs

1. Invited Guest Lecture - Prof. Sohan Singh Hayereh - Anterior Ischemic Optic Neuropathy on 6th Feb 2012 at Hotel Anandha Inn, Pondicherry.

2. Neuro-ophthalmology CME titled "Benign Intracranial Hypertension - Role of Ophthalmologist" by Dr. R. Ravinda Battu on 6th Nov 2011 at Hotel Annamalai, Pondicherry.

3. Organised the 26th National Eye Donation Fortnight from August 25 – September 8, 2011. On September 6, 2011 an awareness program on eye donation was organised for the Staff members and JIPMER Nursing College Students in the Nursing college auditorium.

4. Delivered the talk on Eye Donation Awareness titled - "Eye Donation – The Need of the Hour" at the Mother Teresa Postgraduate and Research Institute of Health Sciences, Puducherry on September 4th 2011.

5. Gave a talk on Doordarshan-Puducherry about 'Eye Donation – Myths and Facts"
Dr Shashi Ahuja
1. Attended CME and General Body Meeting of Puducherry Ophthalmic Association on 04.09.11 at the Sunway GRT Grand, Sponsored by Bausch & Lomb.
2. Attended CME on AION by Dr. SS Hayreh at Hotel Anandha Inn on 06.02.12.

CONFERENCES

Dr. Vasudev Anand Rao
1. Attended the “The cutting edge” 30th Annual Karnataka State Ophthalmic Conference 2011 (11-13 Nov 2011) at NIMHANS Convention Center, Hosur Road, Bangalore.

Dr. Renuka Srinivasan
2. Presented papers at Annual Conference of All India Ophthalmic Society Cochin Feb 2-5 2012 E-Poster: A Rare Case of Endogenous Panophthalmitis in Cavernous Sinus Thrombosis E-Poster: Bilateral multiple choroidal and iris metastases with unilateral secondary glaucoma in breast cancer.
4. World Glaucoma Congress Paris June 29-July 2 2011 (POSTERS) Changes in pachymetry and keratometry after phacotrabeculectomy Comparative study of one site versus two site phacotrabeculectomy Bilateral angle closure with raised intraocular pressure following snake bite.

Dr. Subashini Kaliaperumal
2. Participated in the International Symposium on Diabetic Retinopathy and Retinal vascular diseases, Madurai, India from 7th to 8th January, 2012.

3. Participated in a Symposium on Modern eye care, Island OphthaFest, held at Port Blair from September 9th-11th, 2011.


**Dr. Ramesh Babu**

1. Attended the 11th International Ocular Inflammation Society Congress and International Assembly of Ocular Inflammation Societies - organised by International Ocular Inflammation Society in conjunction with Uveitis Society of India, held 13th to 16th November 2011 at Hotel Taj Exotica, Goa India

2. Attended the VI Asia Pacific Vitreoretina Society Congress in conjunction with the XX Annual Conference of the Vitreoretina Society – India from 1st to 3rd December 2011 at the HICC, Hyderabad

3. Attended the Annual Conference of IIRSI 2011 organised by Intraocular Implant & Refractive Society, India from 9th to 10th July 2011 at Hotel Le Meridien, Chennai


5. Attended the 59th Annual Conference of the Tamil Nadu Ophthalmic Association “Nellai Sandhippu 2011” held in Tirunelveli from 5th to 7th August 2011. Co-instructor for the Instruction Course on Contact Lens - "Contact Lens spectrum" Topic presented - "Rigid Gas Permeable Lenses".

6. Attended the 70th Annual Conference of the All India Ophthalmic Society held at Cochin, Kerala, on the 2nd-5th of February, 2012.

**Dr. Shashi Ahuja**

- Participated in 2nd short course on basic epidemiology from 14-19 November 2011, JIPMER.

**RESEARCH PROJECTS**

**Funded projects**

**Ongoing**


3. 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 Ananthanarayanan.

**Departmental projects**

**Ongoing**

1. Iris fluorescein angiography and correlation with aqueous levels of homocysteine and vascular endothelial growth factor in pseudexfoliation syndrome. (Inter-departmental). Principal Investigator - Dr Subashini Kaliaperumal, Co-investigators-Dr.Vasudev Anand Rao, Dr Soundaravally, Dr PH Ananthanarayanan

2. Preoperative subtergyal injection and intraooperative topical mitomycin C for pterygium removal : Comparison of recurrence rate and complications. Guide: Dr Ramesh Babu, Co Guide: Dr Renuka Srinivasan

3. Retinal nerve fiber layer changes in patients on long term Chloroquine/ Hydroxychloroquine therapy using OCT. Guide: Dr Shashi Ahuja, Co Guide: Dr. Vasudev Anand Rao


7. Comparison of opposite clear corneal incision and limbal relaxing incision to correct pre existing corneal astignation during phacoemulsification. Guide: Dr. K. Ramesh Babu, Co-guide: Dr. Renuka Srinivasan.

8. Tear film abnormalities and conjunctival cytological changes following manual small incision cataract surgery. Guide: Prof Vasudev Anand Rao, Co-guide: Dr. Subashini & Dr Pampa


11. A study on microbial etiolog of keratitis. Guide: Dr. S.C.Parija, Co-Guide: Dr. Shashi Ahuja
Completed


PUBLICATIONS


PATIENT CARE SERVICES

Clinical

<table>
<thead>
<tr>
<th>No. of surgeries</th>
<th>Inpatient</th>
<th>Outpatient</th>
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<tr>
<td>Elective</td>
<td>1522</td>
<td></td>
</tr>
<tr>
<td>Emergency</td>
<td>52</td>
<td></td>
</tr>
<tr>
<td>Sl. No.</td>
<td>Name of treatment</td>
<td>No. of Cases</td>
</tr>
<tr>
<td>--------</td>
<td>-----------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td></td>
<td><strong>Operation</strong></td>
<td></td>
</tr>
<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>13</td>
</tr>
<tr>
<td>4.</td>
<td>Trabeculectomy</td>
<td>18</td>
</tr>
<tr>
<td>5.</td>
<td>Combined surgery</td>
<td>21</td>
</tr>
<tr>
<td>6.</td>
<td>Squint Correction</td>
<td>8</td>
</tr>
<tr>
<td>7.</td>
<td>Evisceration</td>
<td>1</td>
</tr>
<tr>
<td>8.</td>
<td>Enucleation</td>
<td>4</td>
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<tr>
<td>9.</td>
<td>Anterior Retinal Cryotherapy</td>
<td>2</td>
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<tr>
<td>10.</td>
<td>Corneal tear repair</td>
<td>19</td>
</tr>
<tr>
<td>11.</td>
<td>Scleral tear repair</td>
<td>17</td>
</tr>
<tr>
<td>12.</td>
<td>Penetrating Keratoplasty</td>
<td>31</td>
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<tr>
<td>13.</td>
<td>Triple Procedure</td>
<td>5</td>
</tr>
<tr>
<td>14.</td>
<td>Anterior Vitrectomy</td>
<td>17</td>
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<tr>
<td>15.</td>
<td>Pars plana Vitrectomy</td>
<td>5</td>
</tr>
<tr>
<td>16.</td>
<td>D.C.R.</td>
<td>11</td>
</tr>
<tr>
<td>17.</td>
<td>Lamellar Keratoplasty</td>
<td>3</td>
</tr>
<tr>
<td>18.</td>
<td>D.C.T.</td>
<td>6</td>
</tr>
<tr>
<td>19.</td>
<td>Probing</td>
<td>5</td>
</tr>
<tr>
<td>20.</td>
<td>Cyclophoto coagulation</td>
<td>2</td>
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<tr>
<td>21.</td>
<td>Entropion Repair</td>
<td>1</td>
</tr>
<tr>
<td>22.</td>
<td>EUGA</td>
<td>4</td>
</tr>
<tr>
<td>23.</td>
<td>Manual I/A</td>
<td>17</td>
</tr>
<tr>
<td>24.</td>
<td>Orbital Implant</td>
<td>2</td>
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<tr>
<td>25.</td>
<td>AC Reformation</td>
<td>11</td>
</tr>
<tr>
<td>26.</td>
<td>Resuturing</td>
<td>4</td>
</tr>
<tr>
<td>27.</td>
<td>Iris repositioning</td>
<td>31</td>
</tr>
<tr>
<td>28.</td>
<td>Lens matter aspiration</td>
<td>42</td>
</tr>
<tr>
<td>29.</td>
<td>IOL Repositioning</td>
<td>16</td>
</tr>
<tr>
<td>30.</td>
<td>IOL explantation</td>
<td>5</td>
</tr>
<tr>
<td>31.</td>
<td>Amniotic membrane transplantation</td>
<td>11</td>
</tr>
<tr>
<td>32.</td>
<td>Intra Vitreal Antibiotics</td>
<td>12</td>
</tr>
<tr>
<td>33.</td>
<td>Intra Cameral Antibiotics</td>
<td>8</td>
</tr>
<tr>
<td>34.</td>
<td>Dermoid excision</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Procedure</td>
<td>Frequency</td>
</tr>
<tr>
<td>---</td>
<td>-----------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>35.</td>
<td>Excision Biopsy</td>
<td>7</td>
</tr>
<tr>
<td>37.</td>
<td>Pterygium excision</td>
<td>13</td>
</tr>
<tr>
<td>38.</td>
<td>Pterygium excision Conj. Autograft</td>
<td>8</td>
</tr>
<tr>
<td>39.</td>
<td>ACIOL Implantation</td>
<td>7</td>
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<td>41.</td>
<td>ICCE</td>
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**Miscellaneous**

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<td>42.</td>
<td>I &amp; D</td>
<td>132</td>
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<tr>
<td>43.</td>
<td>Chalazion(I &amp; C)</td>
<td>125</td>
</tr>
<tr>
<td>44.</td>
<td>Tarsorrhaphy</td>
<td>48</td>
</tr>
<tr>
<td>45.</td>
<td>Suture Removal</td>
<td>129</td>
</tr>
<tr>
<td>46.</td>
<td>Caterpillar hair removal</td>
<td>10</td>
</tr>
<tr>
<td>47.</td>
<td>FB removal (extraocular)</td>
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<tr>
<td>48.</td>
<td>Syringing</td>
<td>4462</td>
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<td>49.</td>
<td>Schrimer's Test</td>
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**Clinics**

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<th>Frequency</th>
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<tbody>
<tr>
<td>1.</td>
<td>Fundus clinic</td>
<td>8411</td>
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<tr>
<td>2.</td>
<td>Glaucoma clinic</td>
<td>493</td>
</tr>
<tr>
<td>3.</td>
<td>Post Operative Clinic</td>
<td>1185</td>
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<tr>
<td>4.</td>
<td>Cornea Clinic</td>
<td>279</td>
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**Special investigations and procedures**

<table>
<thead>
<tr>
<th></th>
<th>Procedure</th>
<th>Frequency</th>
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<tr>
<td>1.</td>
<td>Post Mydriatic Test</td>
<td>3606</td>
</tr>
<tr>
<td>2.</td>
<td>Refraction</td>
<td>6818</td>
</tr>
<tr>
<td>3.</td>
<td>Keratometry</td>
<td>1576</td>
</tr>
<tr>
<td>4.</td>
<td>Contact lens</td>
<td>80</td>
</tr>
<tr>
<td>5.</td>
<td>Nd-Yag Laser Capsulotomy</td>
<td>163</td>
</tr>
<tr>
<td>6.</td>
<td>A Scan</td>
<td>1619</td>
</tr>
<tr>
<td>7.</td>
<td>Automated Perimetry</td>
<td>231</td>
</tr>
<tr>
<td>8.</td>
<td>FAG</td>
<td>129</td>
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<td>9.</td>
<td>PanRetinal Photocoagulation</td>
<td>142</td>
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<tr>
<td>10.</td>
<td>Laser Iridotomy</td>
<td>43</td>
</tr>
<tr>
<td>11.</td>
<td>Pachymetry</td>
<td>151</td>
</tr>
<tr>
<td>12.</td>
<td>OCT</td>
<td>301</td>
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</table>
AWARDS, HONOURS, AND PERSONAL ACHIEVEMENTS

Dr. Subashini Kaliaperumal

Membership
- Fellow of International Medical Science Academy-2011

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. Vasudev Anand Rao

- Inspector for registration of Sri Manakula Vinayagar Medical College and Hospital, Puducherry for cornea transplantation facilities under TNOA – 1994 (Oct 2011).
- Member, New Drug Advisory Committee (NDAC) to advise Drugs Controller General (India) (DCG(1)) in matters for review of applications of New Drugs and Clinical Trials (April 2011).
- Inspector for renewal of Registration Certificate of Aravind Eye Hospital, Puducherry and Jyoti Eye Care Centre, Puducherry for Eye Banking and Corneal Transplant facilities under THOA – 1994 (March 2011).
- Member, Peer Team for Accreditation by NAAC of Pravara Institute of Medical Sciences, Ahmednagar, Maharashtra 6-9, April 2011.
- Inspector for Registration of Pondicherry Institute of Medical Sciences, Puducherry for Cornea transplant facilities and Eye Banking under THOA 1994.
- Expert for selection of Senior Resident (Ophthal) on 29.9.11 at JIPMER.
- NTTC, First Year PG orientation programme on Research, Ethics and Communication Skills, 2011 – Micro Training for Journal Article Presentation Skills on 01.08.11.
- Examiner in DNB (Ophthalmology) in New Delhi, May 2011.
- Examiner for MS (Ophthalmology) at Rajiv Gandhi University of Health Sciences at Bangalore on 31.05.11.
- Examiner in DNB at LV Prasad Eye Hospital, Hyderabad from 2-5th May 2011.
- Renewal of Registration of JIPMER, Puducherry for Eye Banking and Cornea Transplant facilities under THOA – 1994 on 29.04.11.
- Organization of World Glaucoma week from March 7th to 12th, 2011 in the Department of Ophthalmology, JIPMER.
- Conducted DNB examination Oct 13-14, 2011 at JIPMER.
- Question Paper setter for DNB examination during 27.08.11.

Dr. Ramesh Babu

Examinership
- Examiner for Undergraduate internal examiner for MBBS - Ophthalmology at JIPMER, Dec 2011 Examinations.
• Examiner for Undergraduate external examiner for MBBS - Ophthalmology at JSS Medical College, Mysore/JSS university. Jan 2012 Examinations.

Dr. Renuka Srinivasan

DNB Inspections for Accreditation
• Southern Railways Head Quarters Hospital 14.10.10.
• Vishaka Eye Hospital 11.10.10.
• Al Salama Eye Hospital Perunthalmamma 24.8.10 Kerala.
• Amritha Institute June 3, 2010, Cochin
• KG Hospital on 25.4.10 at Coimbatore
• Aravind Eye Hospital, Pondicherry: DNB Accreditation examination Sept, 2010
• Jubilee Hospital Thrissur, May 2010.
• Sadguru Netra Chikitsalaya Chitrakoot March 30, 2011.
• Specialty Board Ophthalmology meeting at Medical Council office on 10th June, 2011. at 11 am at Council Office. MCI N Delhi.

Dr Shashi Ahuja
• Member, JIPMER Official Language Supplementation Committee (TOLIC) – Aug 2011.
• Member of the Medical Board of C. MUnisamy (18.8.11).
• External examiner for MBBS examination at Thanjavur Medical College under MGR University from 13-15, March 2011.

SIGNIFICANT EVENTS OF THE DEPARTMENT
1. Teleophthalmology Project (Rs 50 lakhs) was sanctioned in April 2008 by the Ministry of Health and Family Welfare under the National Programme for Control and Prevention of Blindness (NPCB). In the first phase of the project, the Rural Health center of JIPMER at Ramanathapuram was utilized as a fully equipped 'vision center'. There after outreach camps are being conducted using the 'mobile vision center'. The mobile Vision center is equipped with state of the art diagnostic equipments like Nonmydriatic Fundus Camera, Digital Photo-slit lamp unit, autorefractometer and Noncontact Tonometer. All these along with a mini bus have been purchased from the scheme funds. A driver and medical social worker have been appointed.

World Glaucoma Week was observed from March 11th to 17th 2012 to create awareness and organize educational events about glaucoma. The Department of Ophthalmology organized special free screening for glaucoma for the whole week from 12th March to 17th March 2012 in the Outpatient block.
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 day a 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 round the clock. 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 Anterior Cruciate Ligament (ACL) reconstruction; limb salvage reconstruction after bone tumor resections (custom mega prostheses); resection and extracorporeal irradiation and reimplantation for malignant bone tumours (only centre in India carrying out this procedure); spinal surgeries like antero-lateral decompression, anterior decompression, discectomy, posterior instrumentation and fusion for spondylolisthesis; routine poliomyelitis and cerebral palsy corrective procedures. The department functions as two clinical units. There is bone banking facility which uses Ethylene Oxide (ETO) sterilized allograft bone. The department runs a post graduate programme with 4 MS candidates per year. In addition it takes part in Institute’s undergraduate MBBS, BSc (Medical Records), B.Sc (Nursing), Bsc OT technician course and Emergency Trauma Technician Course.

CONTINUING MEDICAL EDUCATION PROGRAMS AND FACULTY

Dr. D.K. Patro

- Course chairman, GAIT CME 2011, Conducted at JIPMER on 3rd and 4th December 2011
**Dr. Jagdish Menon**
- Co-Organised and attended Gait course 2011, 3rd and 4th December 2011, at JIPMER Auditorium, Pondicherry

**Dr. Murali Poduval**
- Convenor And Organising Secretary, GAIT CME 2011, Conducted at JIPMER on 3rd and 4th December 2011

**Dr. Nataraj**
- Co-Organised and attended Gait course 2011, 3rd and 4th December 2011, at JIPMER Auditorium, Pondicherry
- Attended Dr K T Dholakia IOACON CME 2011 on Complications in adult lower extremity trauma- prevention and management on 8th December 2011, at Ghaziabad-Noida

**Dr. Sreenivas T**
- Co-Organised and attended Gait course 2011, 3rd and 4th December 2011, at JIPMER Auditorium, Pondicherry

**Dr. Deep Sharma**
- Co-Organised and attended Gait course 2011, 3rd and 4th December 2011, at JIPMER Auditorium, Pondicherry
- CME on Percutaneous Pedicle Screw Fixation and Cervical Plating – Organized by Department of Neurosurgery, JIPMER, Pondicherry, 2nd – 3rd December 2011

**PUBLICATIONS**

1. Karthikeyan M, Nataraj AR, Murali Poduval, Patro DK. Radiolunate coalition: a case report and literature review. European J Orthopaed Surgery & Traumatology, Online First™, 9 September 2011


5. Sreenivas T, Lokare NB, Menon Jagdish, Nataraj AR, Multiple Osteochondroma of the hand in a 6 year old child-a case report. Published online 6th January 2012.

CONFERENCES

Dr. Jagdish Menon

- Was the Course Director for the “Basic Trauma Life Support” Workshop at Durgapur, West Bengal on 3rd/4th September 2011. Delivered a lecture on Recognition and Management of Shock and Management of Minuscoketal Injuries.
- Attended the “Joint Replacement State of the Art Conference at Hyderabad on 16th to 18th September 2012.
- Attended the Annual Paediatric Orthopaedic Association of India at Pune on 13th to 15th January 2012.

Dr. Murali Poduval

- Palakkad Deformity Course-- Deformity planning and correction Course. 28-30 August 2011. Palakkad, Kerala.
- Pondicherry Orthopedic Association, 1st annual Conference November 14 2011 at MGMC Pondicherry.
- Post Conference Workshop on Early Onset Scoliosis at the Pediatric Orthopedic Society annual Conference, Pune India, 15-16 Jan 2011.
- Annual Conference of the Paediatric Orthopedic Society of India, Pune, India 14-15 Jan 2012.
- 64th National course on Educational Science for Health Professionals, National Teacher Training Centre for Health Professionals (NTTC), from 15th to 25th February 2012 at JIPMER, Puducherry.

Dr. Nataraj AR

- 63rd National course on Educational Science for Health Professionals, National Teacher Training Centre for Health Professionals (NTTC), from 5th to 15th September 2011 at JIPMER, Puducherry.
- Sparsh Arthroplasty course – Basic 2012, 10th and 11th March 2012, at Sparsh Hospital for Advanced Surgeries, Bangalore.

Dr. Sreenivas T

- “ATLS Course” at Dr.RML Hospital, New Delhi from 16th to 18th February 2012.
- A.O. Trauma Advance Course at Kolkata from 15th to 17th March 2012.
Dr. Deep Sharma

- A.O. Trauma course – Principles in Operative Fracture Management, September 8th to 10th, Madurai.
- Workshop on Clinical Research for Clinical Investigators, October 21-22, 2011, JIPMER, Pondicherry.
- Masters Course on surgery of the Spine organized by Indo-German Orthopaedic Foundation, 29th – 30th October 2011, MIOT Hospital, Chennai.
- TRAUMA 2011 – Fourth Annual International Conference of Indian Society of Trauma and Acute Care [ISTAC], 9th – 13th November 2011, AIIMS, New Delhi.
- Pondicherry Orthopaedics association [POACON], 1st Annual Conference, November 19th 2011, Mahathma Gandhi Medical College and research Institute, Pondicherry.
- Gait Course 2011, 3rd and 4th December 2011, JIPMER, Pondicherry.
- Annual Conference of Indian Orthopaedic Association, 56th IOACON 2011, 8th – 11th December 2011, Ghaziabad, Noida.

Departmental

**Ongoing**

- 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.
- Role of Adenosine Deaminase [ADA], Interferon gamma [IFN-γ], Tumor Necrosis Factoralpha [TNF-α] and Interleukin-6 [IL-6] as diagnostic marker for Skeletal Tuberculosis.
- Evaluation of Treatment of Cong. Club Foot by Ponseiti Technique Idiopathic in patients presenting Late.
- Serum prolactitonin in Early Diagnosis of Acute Osteomyelitis and Septic Arthritis – A Prospective study.
• Assessment of Fracture Healing in Delayed Union Treated with Platelet Concentrate Injection – A RCT.
• Epidemiological Study for evaluation of Etiology and risk fracture in Patients with Lowback Pain.
• Evaluation of Epidemiological and Genetic Risk Factor associated with Telopathic CTEV in an Indian Population.
• Effectiveness of Limited Access Dressing in Open Injuries and associated with Type.III Compound Fractures.
• Clinical and Hematological Predictors of Acute Hematogenous Osteomyelities and Septic Arthritis.
• Clinico Radiological Outcome of Conservative Treatment in Osteoporatic Vertebral Compression Fractures.
• Compression of Efficiency of Intramedullary Nailing and Plating in Treatment of Extra-articular Proximal Tibial fractures.
• Assessment of Serum Vit.D3 and BMD and their Relation in Elderly Males with Hip fracture.
• Study of Coagulative and Cardiorespiratory Parameters in Reamed IMN of Isolated Closed SOF Fractures in Adults under RA.

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr. Murali Poduval
• Appointed as Editorial Secretary of the Pondicherry Orthopedic Association for 2011
• Appointed as a member of the Editorial Board of the Indian Journal of Orthopedics (Official indexed publication of the Indian Orthopedic Association) for a period of three years.
• Reviewed articles for the Journal of Bone and Joint Surgery (British)
• Reviewed articles for Indian Journal of Orthopedics

Dr. Nataraj AR
• Awarded the KOA Inland Travelling Fellowship, in KOACON 2012, 36th Annual Conference of Karnataka Orthopaedic Association, 3rd to 5th February 2012, J.N. Medical College, Belguam (In Absence)

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.
• DNB Inspectorship:
  Appointed Inspector for starting and renewal of DNB courses in the specialty of Orthopaedics at the following centers and conducted the same:
a. Pushpagiri Institute of Medical Sciences, Tiruvalla
b. Preethi Hospital, Madurai
c. Max Hospital, New Delhi
d. Railway hospital, Perambur, Chennai
e. St John Hospital, Katapana, Kerala
f. MIOT Hospital, Chennai

• MCI Inspectorship:
  Appointed inspector for conducting inspection by MCI for the following Institutions and conducted the same:
  a. KPC Medical College, Jadavpur, Kolkata for MBBS
  b. KS Hegde Medical College, Mangalore for MS, ORTHO
  c. JJ Medical College, Davangere, Karnataka for MS ORTHO
  d. Alluri Sitarama Institute of Medical Sciences, ELLURU, Andhra Pradesh for MS Ortho

• Post-Graduate Examiner for the following
  a. MGR Health University, TamilNadu
  b. NTR Health University, Andhra Pradesh
  c. Calcutta University, Kolkata
  d. Utkal University, Odisha
  e. VSS University, Odisha
  f. RGUHS, Karnataka
  g. MAHE, Manipal

• Dr. D. K. Patro have been selected as a member of New Drug Advisory Committee by Drugs Controller General[India], Directorate General of Health services, New Delhi.

• Dr Jagdish Menon was the MCI Inspection for MS[Orthopaedics] course at KVG, College of Medical Sciences, South Karnataka on 14.02.2012.

• Dr Murali Poduval, joined as life member of SICOT
• Dr Nataraj A R, joined as Life member of Karnataka Orthopedic Association

FUTURE PLANS
The following patient care services is planned to start
1. MIS Spine surgery
2. Navigated TKR and THR
3. Total shoulder replacement
4. Bone bank
5. Revision THR
6. Total femur and Total Humerus replacement
8.24 Paediatrics

<table>
<thead>
<tr>
<th>Professor &amp; Head</th>
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<tbody>
<tr>
<td>S. Srinivasan (till 30.11.2011)</td>
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<tr>
<td>B Vishnu Bhat (from 01.12.2011)</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Professors</th>
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<tr>
<td>S Mahadevan</td>
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<tr>
<td>Niranjan Biswal</td>
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<tr>
<th>Assistant Professors</th>
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<tbody>
<tr>
<td>P Narayanan</td>
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<tr>
<td>Sriram Krishnamurthy</td>
</tr>
<tr>
<td>B Adhisivam</td>
</tr>
<tr>
<td>J Barath</td>
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<tr>
<td>Reena Gulati</td>
</tr>
</tbody>
</table>

BACKGROUND INFORMATION OF THE DEPARTMENT

The Department of Paediatrics has 90 sanctioned beds including a 6 bedded PICU (Paediatric Intensive care Unit) and 25 bedded Level–III Neonatology Intensive Care Unit. The daily outpatient attendance averages around 200. The Department runs the following specialty clinics: underfive clinic, 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 pediatric emergencies. The PICU has state of the art facilities with 6 ventilators and invasive monitoring and has been adjudged as the best ICU in the hospital for the year 2010. The neonatal division caters to about 16000 deliveries with more than 2000 admissions in the NICU annually. All research work is being done on basic health problems relevant to our country.

The Department has regular teaching programme for undergraduate (M.B.B.S) and post graduate (M.D) students. A separate Division of Neonatology was formed and DM in neonatology was started from the academic year 2009-2010 with an intake of one student per year. The first PhD student joined during the academic year 2010-11. The Department also runs a Fellowship course in Paediatric Critical and Emergency care with effect from the academic year 2010-2011. Currently, 3 DM students in Neonatology and 2 Fellows in Pediatric Critical and Emergency care and 2 Ph.D. students are working in the Department of Pediatrics, JIPMER. During the Academic year 2011-12, Paediatric Endoscopy services were also started in the Department.

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 speciality courses**
   D.M (Neonatology) - 1 student per academic year.

D. **Research Courses**
   PhD in Pediatrics - 2 seats per academic year

E. **Other courses**
   Fellowship course in Paediatric Critical and Emergency Care – 2 seats per academic year.

**CONTINUING MEDICAL EDUCATION PROGRAMMES**

Second regional workshop on bedside diagnostics for paediatric intensive care in developing world: role of ultrasound

“Second Regional Workshop on Bedside Diagnostics for Paediatric Intensive Care in Developing World - Applications of Echocardiogram in Pediatric and Neonatal Intensive Care: A Skill Based Training” was conducted in the Department of Paediatrics on 10th December 2012 with financial support from Medical council of India. The objective of the workshop was to enhance the skills required at the bedside in treating critically ill neonates and children. The structured programme had introductory lectures followed by hands on training sessions which included sessions at the bedside in the ICU.

**CONFERENCES**

**Dr. S. Srinivasan**

- Delivered a talk on “Controversies” in the CME held at Mahatma Gandhi Medical College & Research Institute, Pondicherry on 30.7.2011.
- Participated as a Resource person at Tamirabarani Pedicon 2011, XXXVI Tamil Nadu State Annual Paediatric Conference, IAP, TNSC at Tirunelveli from 12th to 14th August, 2011
- Participated in the Breast Feeding week Celebration and one day seminar on Essential New Born Care at Mother Theresa Postgraduate and Research Institute of Health Sciences, Puducherry on 8.8.2011.
- Participated in the CME at Rainbow Children’s Hospital and Perinatal Centre, Hyderabad from 10th to 11th September, 2011.
- Participated as Facilitator for IMNCI Training programme in MTPG and RIHS in collaboration with SRHM, Puducherry on 7.9.2011
- Participated as a Faculty in the IYCF counseling specialist course, Govt. Dist. Hospital, Hindpur, Andhra Pradesh from 10.10.2011 to 15.10.2011
• Delivered a Guest Lecture in XII Millenium Oration and CME on clinical Paediatrics at Kanchi Kamakoti Childs Trust Hospital, Chennai on 1.10.2011 and 2.10.2011.
• Participated as a Faculty in the CME and School Health Camp on Paediatric Emergencies and Management and Hygienic Measures and Dental care at Mother Theresa Postgraduate and Research Institute of Health Sciences and Community Health Centre, Pondicherry on 4.11.2011.
• Attended the South Pedicon 2011 25th South Zone and 40th Kerala State Annual Conference of IAP on 6.11.2011.
• Participated as faculty in CME at Sabari College of Nurse, Pondicherry on 1.11.2011.

Dr. B. Vishnu Bhat

• Delivered a Talk on ‘Recent Concepts in management of perinatal asphyxia’ in the CME programme by IMSA, Puducherry Chapter held at PIMS, Puducherry on 1.4.2011
• Chaired a session on "Hemophilia factor inhibitors" at JIPMER as part of celebration of World Hemophilia Day on 17.4.2011
• Meducon 2011, JIPMER from 30.9.2011 to 2.10.2011
• Faculty for workshop on ‘Assessment methods for Postgraduate Medical Education.
• Coauthored a free paper ‘Need for reorientation of nurses in essential new born care’ which received best free paper award.
• Attended NTTC National Workshop on Medical Education as Faculty from 15th to 25th February, 2012 at JIPMER.
• Participated in World Cancer day as Chief Guest at JIPMER on 15.2.2012
• Delivered a Talk on “Essay Questions” at Shri Sathya Sai Medical College and Research Institute, Tiruporur, Chengalpet on 3.3.2012.

Dr. S. Mahadevan

Participated as faculty
• In Adolescent and Child Neurology 2011 conference at Chennai July, 2011.
• 13th National Conference of Paediatric Critical Care (NCPCC 2011) at Hyderabad in November, 2011.
• Expert Group Meeting on viral encephalitis at 49th National Conference of Indian Academy of Paediatrics, Gurgaon, January, 2012
• Office preparedness for Paediatric emergencies (TOT) at Gurgaon Preconference January, 2012.
Dr. Niranjan Biswal


Dr. P. Narayanan

- Participated in the 13th National Congress of Pediatric Critical Care at Hyderabad from 16th -20th November 2011 and presented two posters entitled “Early versus late enteral feeding in critically ill children: a randomized controlled trial” and “Extubation failure in mechanically ventilated children- a descriptive study”.
- Participated as faculty in Criticare 2011, the 2nd State conference of intensive care chapter of IAP Kerala at Institute of Maternal & Child Health, Calicut on 9th October 2011. Delivered two lectures on “Pediatric septic shock-management in resource poor settings” and “Nutrition in the critically ill child”
- Participated as faculty in the Pediatric CME organized by IAP Villupuram – Puducherry branch and IAP Cuddalore branch at Sri Manakula Vinayagar Medical College and Hospital on 18-3-2012 and delivered a lecture on “Septic shock – Identification to management in level 1 & 2 centres.”

Dr. Sriram Krishnamurthy

- Participated in the 23rd National Conference of the Indian Society of Pediatric Nephrology from 19-20 November 2011 at Thiruvananthapuram and presented 2 posters entitled ‘Clinico-etiological profile and predictors of outcome in pediatric acute kidney injury at a tertiary hospital in southern India’ and ‘Urate nephropathy due to impaired kinetic properties of hypoxanthine-guanine phosphoribosyltransferase in a 45 day old infant’.
- Participated as facilitator for Integrated Management of Neonatal and Childhood Illness course at Mother Theresa Postgraduate and Research Institute of Health and Medical Sciences, organized by Pondicherry Rural Health Mission, Pondicherry, 5th to 12th September, 2011
- 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
- Participated in the Pondicherry Pediatric Forum Meet on 4.3.2012 at JIPMER and delivered a presentation on 'Rickettsial infections in children: JIPMER Experience'.

Dr. B. Adhisivam

- Attended the workshop on allergic rhinitis and co morbidity Pondicherry -Nov 20, 2011 organized by IAP and the Allergy and applied Immunology chapter of IAP
- Attended the Regional Consultation Meeting on enhancing rates of optimal IYCF 19 Dec, Bangalore organized by NIPCCD
- Attended the Informal Consultation on Essential Medicines for children and implementation of children medicine formulary, July, 22, 2011 at Pondicherry organized by Indira Gandhi Medical College, Govt. of Pondicherry and WHO – SEARO.
Dr. Reena Gulati

- Participated in 63rd National Course on Educational Science for Teachers of Health Professionals from 5th September to 15th September, 2011 at NTTC, JIPMER.
- Participated in Workshop on Clinical Research for Clinical Investigators from 21st to 22nd October, 2011 at JIPMER, Pondicherry.
- Attended the “Hands on workshop on DNA diagnostics 2011” at SGPGIMS, Lucknow from 24th to 26th November, 2011
- Participated in workshop on Medical Statistics conducted by the Department of Medical Biometrics and Informatics, JIPMER, Pondicherry on 17.9.2011

Dr. J. Barath

- Attended the National Course on Educational Science for teachers of Health Professionals 2012 from 15th to 25th February, 2012 at JIPMER, Pondicherry.
- Delivered a guest lecture on Medical management of a child with cholestasis on 10.3.2012 in the CME on Neonatal cholestasis and biliary atresia at Narayana Hrudayalaya, Bangalore.

RESEARCH PROJECTS

A. Departmental Projects

**Completed**

- Propranolol in severe infantile hemangiomas – A pilot study.
- Early (6-24 hrs) versus late (>24 hrs) enteral feeding in critically ill children: A Randomized controlled trial.
- Extubation failure in mechanically ventilated children – a descriptive study.
- Clinical and Investigational Studies in Children with Syncope.
- Comorbidity and outcome in children diagnosed with ADHD.
- Co-morbidities associated with ADHD – influence on short term outcome – A naturalistic follow up study.

**Ongoing**

- Mortality pattern of hospitalized children in Pediatric Medicine, JIPMER
- Sodium valproate versus midazolam in Refractive Status Epilepticus in children- A randomized controlled trial.
• Clinical profile and predictive risk factors for major infections in nephrotic syndrome
• Clinical Profile and risk factors in children diagnosed with specific learning disability
• Hypertonic saline versus mannitol in the management of raised intracranial pressure in children with nontraumatic coma – A randomized controlled trial.
• Role of probiotic prophylaxis against nosocomial infections in patients on mechanical ventilation – An open labeled randomized controlled trial
• Quality of life in patients with Juvenile idiopathic arthritis
• Efficacy of scorpion antivenom plus prazosin alone for scorpion sting envenomation in children – A randomized controlled trial
• Evaluation of premature atherosclerosis in children with nephritic syndrome by carotid intimal medical thickness and endothelial dysfunction.
• Risk factors associated with methicillin resistant Staphylococcus aureus (MSRA) infection in children.
• Severe sepsis in a tertiary care pediatric intensive care unit (PICU) – A descriptive study
• Bacterial and fungal infectious complications in pediatric acute liver failure
• Epidemiological and clinical profile of hospitalized children with moderate and severe acute malnutrition

B. Funded Projects

i. Dr. Niranjan Biswal - Role of probiotic prophylaxis against nosocomial infections in patients on mechanical ventilation – An open labeled randomized controlled trial - Intramural Research Grant from JIPMER - Rs.40,000/-

ii. Dr P. Narayanan- Procalcitonin guided antibiotic therapy in pediatric intensive care patients – a randomized control trial - Intramural Research Grant from JIPMER - Rs.2,00,000/- for two years (one lakh for each year)

iii. Dr Sriram Krishnamurthy- Early versus late enteral prophylactic iron supplementation in very low birth weight newborn infants: A randomized controlled trial’ - Intramural Research Grant from JIPMER - Rs.80,000/-

iv. Dr. Reena Gulati - Screening for alpha thalassemia gene mutations in Pondicherry – a pilot study” - Intramural Research Grant from JIPMER - Rs.1,00,000/-

C. Collaborative Research Projects

Dr. B.Vishnu Bhat

Early outcome of congenital diaphragmatic hernia (with Department of Anatomy).

Dr. Niranjan Biswal

1. Heart rate variability and classical cardiovascular autonomic function tests in Children: Correlation with anthropometric parameters. (with Department of Physiology, JIPMER)
2. Evaluation of NSI antigen detection as an alternative to RT-PCR for the early diagnosis of Dengue (with Department of Microbiology, JIPMER).

3. Study of RSV and human metapneumovirus in acute LRI in children<60mo (with Department of Microbiology, JIPMER)

**Dr. P. Narayanan**

1. Evaluation of real-time PCR in diagnosis of amebiasis. (with Department of Microbiology, JIPMER).

2. ‘Circulating levels of acute phase proteins as prognostic markers of severe dengue disease” being conducted in the Department of Biochemistry, JIPMER.

**Dr. Sriram Krishnamurthy**:

1. Clinico-microbiological profile of Shigellosis in children (with Department of Microbiology, JIPMER).

2. Study of viral acute respiratory infections (ARI) and characterization of influenza isolates with special reference to oseltamivir resistance. (with department of Microbiology, JIPMER.)

**PUBLICATIONS**

**A. Journals**


4. Babu TA, Biswal N. Are Ellis-Van Crevel Syndromes predisposed to recurrent sepsis? IJMS (Online February 24, 2012)


JIPMER2011-2012/ 323


PATIENT CARE

A. Clinical

<table>
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<tr>
<th>S.No.</th>
<th>Details</th>
<th>Numbers</th>
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<tbody>
<tr>
<td>1.</td>
<td>General OPD</td>
<td>77,072</td>
</tr>
<tr>
<td>2.</td>
<td>Special Clinics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1. Genetic Clinic</td>
<td>846</td>
</tr>
<tr>
<td></td>
<td>2. Under Five Clinic</td>
<td>9,467</td>
</tr>
<tr>
<td></td>
<td>3. Follow Up clinics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. Cardiology</td>
<td></td>
</tr>
<tr>
<td></td>
<td>b. Child Guidance Clinic</td>
<td>4,104</td>
</tr>
<tr>
<td></td>
<td>c. Nephrology</td>
<td></td>
</tr>
<tr>
<td></td>
<td>d. T.B. Clinic</td>
<td></td>
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<tr>
<td></td>
<td>4. Paediatric Neurology Clinic</td>
<td>9,484</td>
</tr>
<tr>
<td>3.</td>
<td>Admissions</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Paediatrics</td>
<td>3,643</td>
</tr>
<tr>
<td></td>
<td>NICU</td>
<td>2,268</td>
</tr>
<tr>
<td>4.</td>
<td>Deliveries</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Live Births</td>
<td>13,615</td>
</tr>
</tbody>
</table>

a. Total Bed strength: 90 (sanctioned)
b. Average daily bed occupancy rate : 25%

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. Section Editor, Indian Journal of Pediatrics.
Dr. S. Mahadevan

1. Member of the National Taskforce on Snake bite management (GOI and ICMR)
2. Editor in Chief, Indian Journal of Emergency paediatrics
4. Editorial Consultant for Wilderness and Environmental Medicine, Stanford University, USA
5. Expert Consultative Group on Neuro Infections (encephalitis) of Indian Academy of Paediatrics

Dr. P. Narayanan

Won the first prize for best poster for the study “Early versus late enteral feeding in critically ill children: a randomized controlled trial”

Dr. Sriram Krishnamurthy

Presented two posters entitled ‘Clinico – etiological profile of Paediatric acute kidney injury at a tertiary care hospital in Southern India’ and ‘urate nephropathy due to impaired kinetic properties of HPRT enzyme in a 45 day old infant’ in XXIII National Conference of the Indian Society of Paediatric Nephrology (ISPNCON 2011) from 19th to 20th November, 2011 at Trivandrum. The former poster won the Second best prize in the poster section.

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. B. Vishnu Bhat

• Faculty NTTC, JIPMER

Dr. S. Mahadevan

• Dean, School of Medicine, Pondicherry University.
• Professor (Academic), JIPMER (Support in curriculum Planning with Board of studies, Standing Academic Committee and Member MARC of JIPMER.
• Support faculty to Dean, JIPMER for various JIPMER Entrance examinations (M.D./M.S./MCh/D.M. and M.B.B.S.)

SIGNIFICANT EVENTS IN THE DEPARTMENT

• Dr. Prakash, Final year P.G., attended 13th NCPCC 2011, Hyderabad and presented a poster entitled ‘early versus later enteral feeding in critically ill children: A Randomised controlled trial’ The poster was selected as the best in poster session – Hyderabad.

• Mr. Vijay and Mr. Santhakumar, final year MBBS Students of JIPMER participated in the National Annual Indian Academy of Paediatrics Undergraduate quiz held at Gurgaon in January 2012 and won the first prize.

• Dr. Shruti K Bharadwaj and Dr. Suganya Govindan, Postgraduates in the Department of Paediatrics participated in the National Annual Indian Academy of Paediatrics Postgraduate quiz held at Gurgaon in January 2012 and won the second prize.
The following visiting professors visited the department during the academic year 2011-12

- Dr. Prakash Kumar Dey, Paediatric Cardiologist from UK visited our Department on 22nd February, 2012 and delivered a talk on “Transition between Fetal and Neonatal Cardiology”.

BACKGROUND INFORMATION OF THE DEPARTMENT
The department of paediatric surgery was started in the year 1976 as a unit of General Surgery with a bed strength of 10 under the care of a part time consultant Prof. Chatterjee. In 1978, Prof. Chatterjee became a full time consultant looking after paediatric surgery. The department continued to grow and hence in 1986 two full time consultants were designated to look after the needs of the department. However in 1990 after the retirement of Prof. Chatterjee the department went back to having only a part time consultant to look after its needs until 2009. However the department continued to conduct undergraduate classes, look after the surgical needs of paediatric patients especially GIT, and training of postgraduates and Senior residents. It is to the credit of the department that at least a dozen post MS senior residents have gone on to complete their MCh in paediatric surgery.

Currently the Department is situated in the Superspeciality Block and it is a fully functional independent department after the recruitment of four new Assistant Professors, looking after all the surgical needs of children, operating on 10 days a month with daily OPD, a six bedded independent Paediatric Surgical ICU equipped with all modern open care systems for newborns, multi-parameter monitors and three ventilators, a four bedded paediatric burns ward in addition to 20 more in-patient beds.

The Department now takes care of all aspects of paediatric surgery including paediatric thoracic, paediatric gastrointestinal, paediatric genitourinary, paediatric solid malignancies (Cancer) and paediatric endoscopic (laparoscopic, thoracoscopic, etc.,) Surgeries.

EDUCATION COURSES

1. Undergraduate Course:
   Conducting undergraduate classes for the VI/VII Semester of the MBBS students and internal evaluation at the end of the term.

2. Postgraduate Training:
   Training of Postgraduate MS Students who are posted during their rotation of superspeciality postings.
CONFERENCES

Dr. Kumaravel S


- Attended as co-author of a paper presented at PONSICON 2011, Pondicherry from 12th to 14th August 2011.

- Presented 2 papers at the 6th Annual Confernece of IAPS, Karnataka Chapter held at Mysore from 6th to 8th January 2012.

- Attended 10th Biennial National Congress of IGES & Workshop on Minimal Assess” IAGES 2012” at Ahmedabad as Delegate from 16th to 19th February 2012.

- Faculty at the 5th Paediatric surgery Update 2012 in MAMC (Maulana Azad Medical College) at New Delhi, M Ch Paediatric Surgery CME from 23rd to 26th February 2012.

- Attended Paediatric CME in SMV Medical College, Pondicherry as Chairperson on 18-3-2012.

Dr. B Jindal

- Attended 2nd National Hands-on Workshop on diagnosis of Hirschsprung’s disease and allied disorder at Bangalore from 2nd to 3rd April 2011 organised by St John’s National Academy of Medical Sciences, Bangalore.

- Attended the 37th Annual Conference of Indian Association of Paediatric Surgeons (IAPSCON 2011) at Hotel Raddison, Mahabalipuram.

- Attended the 7th Annual conference cum workshop of Paediatric Endoscopic Surgeons of India (PESI-IAPS 2012) held at Hyderabad from 3rd to 5th February 2012.

- Attended and chaired a session at 21st AMASI Skill Course and CME on Advances in Laparoscopic Surgery conducted at JIPMER by Association of Minimal Access Surgeons of India between 24th to 26th February 2012.

Dr. Krishnakumar

- Attended Recent Advances in paediatric Urology seminar at Chennai as Delegate on 5-10-2011.

- Attended the Annual conference of Indian Association of Paediatric Surgeons as at Chennai as delegate on 6th to 9th October 2011.

- Attended the Paediatric Surgical Oncology Training Course in Mumbai as Delegate from 16th to 18th December 2011.

- Attended the Annual Conference on Paediatric Urology PUC-IAPS 2012 at Agra as Delegate from 30-03-2012 to 01-04-2012.
Dr. Bikash Kumar Naredi

1. Attended the Annual conference of Indian Association of Paediatric Surgeons at Chennai as Delegate on 6th to 9th October 2011.

2. Attended the 71st Annual Conference of association of Surgeons of Indian at Kochi, kerala as Delegate from 25th to 30th December 2011.

3. Attended the 7th Annual Conference cum workshop of Pediatric Endo surgeons of India (PESI-IAPS) 2012 at Hyderabad as Delegate from 3rd to 5th February 2012.

4. Attended the Annual Conference on Paediatric Urology PUC-IAPS at Agra as Delegate from 30-03-12 to 01-04-12.

TRAINING UNDERTAKEN

Dr. B Jindal attended and successfully completed the Paediatric Laparoscopic Training Course Organised by Indira Gandhi Institute of Child Health, Bangalore from 17th April 2011 to 21st April 2012.

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. There also is a Paediatric Surgical ICU with facilities for accommodating upto 6 neonates.

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 on an average 250 minor procedures are performed per month including Prepucial adhesiolysis, vaginal synchiae release, incision and drainage of abscess, Anal calibrations, dilatations, circumcisions, lymphnode biopsies in the OPD. 489 major surgeries (291 elective surgeries and 198 emergencies) have been carried out last year of whom 35% are neonatal operations.

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr. B Jindal attended and Passed the Fellowship in Minimal Access Surgery Examination held at JIPMER, Puducherry conducted by AMASI during the AMASI Skill course.
8.26 Pathology

Professor & Head
Surendra Kumar Verma

Professors
Bhawana Badhe
N Siddaraju
Debdatta Basu

Assistant Professors
Rakhee Kar
Rajesh NG
Pampa Ch Toi
Sajini Elizabeth 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 a well-developed undergraduate and postgraduate teaching. During 2011-12, the department played a major role in patient care by providing the essential in-patient and out-patient laboratory services including 24 hour emergency services. In addition Department of Pathology organized an Annual conference of Indian Society of Atherosclerosis Research. Dr. M. Prabhu, final year postgraduate student won the prestigious “Nalinibai Takkar award” which is given to young pathologists under the age of 35 years for their original work in cytology. The department is also a part of the Virtual Medical Class room project of AIIMS and National Knowledge Network.

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 and
9. B.Sc Neurotechnology

B. Postgraduate courses
1. MD (Pathology)
CONTINUING MEDICAL EDUCATION

A CME on Neuropathology was conducted by the department on 16.04.11 at JIPMER. Seventy five delegates attended the CME. The speakers included some big names in the world of Neuropathology including Dr S.K Shankar and Dr Anita Mahadevan from NIMHANS, Bangalore, Dr Chitra Sarkar from AIIMS, New Delhi, Dr D. Prathiba from SRMC, Chennai and Dr Shantha Ravisankar from Madras Medical College, Chennai. On the whole it was an academic feast for all the delegates. All the faculty members and residents of the department participated actively.

Dr. Surendra Kumar Verma
- Attended CME on Neuropathology held at JIPMER on 16 April 2011.
- Attended the International CME on Renal and Transplant Pathology at Hyderabad from 16th to 18th of September 2011.
- Participated in the 14th annual CME 2011 of the International Academy of Pathology-Indian Division (IAP-ID) on “Non-neoplastic liver diseases” held on 1st and 2nd October at PGIMER, Chandigarh.
- Attended 11th Annual meeting of the Society of Free Radical Research India at Kalyani University, West Bengal and delivered guest lecture on role of Galactin-3 in diagnosing follicular lesions of thyroid on 12th January 2012. He also delivered the same lecture at national Annual meeting of SFRR at Calcutta on 13th January.
- Attended the IXVII Indo US international CME at Himalayan Institute of Medical Sciences, Dehradun from 3rd to 5th February 2012. He chaired a session on Haematology and also delivered a talk on TV (Sadhana Channel) about the preventive aspect of cancer which was broadcasted on 3rd February 2012.
- Nodal officer for Virtual Medical Class room project of AIIMS and National Knowledge Network attended workshop of the same at AIIMS on 1st and 2nd March 2012. JIPMER was chosen as one of the seven centres across India for this purpose.
- Chaired sessions at the JIPMER Cancer update CME on gliomas, held on 27th August 2011 and on epithelial ovarian malignancies held on 11th Mar 2012.
- Represented our country at the XVI International Symposium on Atherosclerosis at Sydney Australia from 25th to 29th March 2012.

Dr. Bhawana A Badhe
- Chaired a session at the JIPMER Cancer update CME on epithelial ovarian malignancies held by Regional Cancer centre JIPMER on 11th Mar 2012.
- Attended CME on Neuropathology held at JIPMER on 16 April 2011.

Dr. N. Siddaraju
- Attended CME on Neuropathology held at JIPMER on 16 April 2011.
- Attended the 4th annual World Cancer Congress (WCC-2011) held from 22nd from 26th June 2011 at Dalian, China and spoke on “Immunohistochemical distinction of mesothelial vs. adenocarcinoma cells on serous body fluid cytology”
- Guest speaker in the MAPIMS- CYTOCME: 2011 held at Melmaruvathur Adhiparasakthi Institute of Medical sciences & Research, Melmaruvathur, on 8th December, 2011. He spoke on the “Cytology of Malignant effusions and conducted a slide seminar on “Interesting cases of serous body fluid cytology.”
Dr. Debdatta Basu

- Chairied session at the JIPMER Cancer update CME on gliomas, held on 27th August 2011
- Guest faculty at the workshop on CBC and peripheral blood examination and CME in Pathology held at Maulana Azad Medical College, New Delhi on 7th and 8th October 2011. He delivered a guest lecture on Principles of automated cell counting at the workshop. He also conducted a quiz for postgraduate students during the CME.
- Guest faculty at the International CME on Liver Pathology held at GB Pant Hospital, New Delhi from 27th to 29th January 2012. He conducted a post graduate quiz competition at the CME.

Dr. Rakhee Kar

- Attended CME on Neuropathology held at JIPMER on 16 April 2011.
- Participated in the 14th annual CME 2011 of the International Academy of Pathology Indian Division (IAP-ID) on “Non-neoplastic liver diseases” held on 1st and 2nd October at PGIMER, Chandigarh as a delegate and presented a poster entitled “Intricacies of hepatic coagulopathy- study of 110 patients from a tertiary care superspecialty institute in North India.” Also participated in the pre-conference postgraduate course in liver pathology held on 30th September.
- Participated in the 2nd short course in Basic Epidemiology organized by Department of PSM, JIPMER from 14th to 19th Nov 2011.

Dr. Pampa Ch. Toi

- Attended Neuropathology CME on 16 April 2011 at JIPMER, Puducherry.

Dr. N.G. Rajesh

- Attended CME on Neuropathology held at JIPMER on 16 April 2011. Officiated as Incharge for Scientific Committee in the CME.
- Underwent training in Renal Transplant Pathology at PGIMER Chandigarh as a visiting fellow in the Department of Histopathology from May 15- May 30 2011.
- Attended the International CME on Renal and Transplant Pathology at Hyderabad from 16th to 18th of September 2011
- Attended Short Course on Basic Epidemiology conducted by Department of Preventive and Social Medicine at JIPMER, Puducherry from 14th to 19th November 2011

Dr. Sajini Elizabeth Jacob

- Attended CME on Neuropathology held at JIPMER on 16 April 2011.
- Guest speaker and delivered talks on (a) role of pathology in the management of gliomas in the CME on gliomas conducted by Regional Cancer centre JIPMER on 27.08.2011 (b) controversies in the pathology of epithelial ovarian tumors in the JIPMER Cancer update CME on epithelial ovarian malignancies held by Regional Cancer centre JIPMER on 11th Mar 2012.
CONFERENCES

Organized

- The Department of Pathology in collaboration with Departments of Pharmacology, Biochemistry, Medicine, Neurosciences, Cardiology and Cardiothoracic Surgery organized 24th Annual National Conference of Indian Society for Atherosclerosis Research and International CME on Atherosclerosis (ISARCON) 2011 between 24th and 25th September 2011 at JIPMER. Dr. S.K. Verma, HoD of Pathology was the Organising Secretary. Around 200 delegates from all parts of the country attended the meeting. All the faculty members and residents of the department actively participated in organizing the conference and in the various scientific activities. Five international speakers and nineteen national speakers of repute delivered their lectures covering all aspects of atherosclerosis, its effects, new modes of treatment and prevention. Three symposiums were conducted of which two based on AYUSH (Ayurveda Yoga Unani Siddha & Homeopathy) and one based on Nanotechnology. A separate session on 'Angiogenesis and Vascular Remodeling' was also organized. All the faculty members actively participated in various capacities as under:
  - Dr. Surendra Verma – Organising Secretary, chaired a session
  - Dr. Bhawana Badhe – Registration, chaired a session
  - Dr. N. Siddaraju – Transport and Accommodation, chaired a session
  - Dr. D. Basu – Scientific Committee
  - Dr. Rakhee – Co-ordination
  - Dr. Pampa – Inauguration and Reception
  - Dr Rajesh – Souvenir and Exhibition
  - Dr. Sajini – Presentations and Mementoes

Dr. Surendra Kumar Verma

- Attended Annual Conference of Indian Association of Pathologists & Microbiologists (IAPM) at Patiala, from 1st - 4th December 2011. Presented a poster titled “Immunohistochemical markers in malignant epithelial ovarian tumors and its correlation with clinicopathological variables.” and was chair person & Judge for the Best paper session

- Attended the 1st Annual Conference of Indian Academy of Biomedical Sciences and International Advances in clinical research at C.S.M. Medical University Lucknow on February 21 – 22, 2012. He delivered guest lecture on role of angiogenetic bio markers in Meningoma and also chaired the session in the same conference.

- Attended International Conference on Cardiovascular Research Convergence as an invited faculty and chaired a session at AIIMS, New Delhi on 18th Feb, 2012.

Dr. Bhawana A Badhe

- Attended the Medical Education Conference 2011 (MEDUCON 2011) organised at JIPMER on 1st and 2nd October 2011
Dr. N. Siddaraju

- Invited guest speaker at the Annual conference of IAPM, Tamil Nadu and Pondicherry chapter, held on at MMC, Chennai on 5th & 6th, November, 2011. He spoke on “Cytology of malignant effusions”.
- Attended the 41st annual conference of Indian Academy of Cytologists, held at Dharwad, Karnataka from 10th to 13th November 2011. Presented a poster on Elongated microfollicles and enlarged ovoid nuclei as “cytodiagnostic clues” of follicular variant of papillary thyroid carcinoma.

Dr. Debdatta Basu

- Core faculty member of the Medical Education Conference 2011 organised at JIPMER on 1st and 2nd October 2011. He was a faculty member of the session on Summative Evaluation of postgraduate education held in the pre-conference workshop on Evaluation of Postgraduate Education held on 30th September 2011.
- Participated in the 52nd Annual Conference of the Indian Society of Hematology and Blood Transfusion Hematocon PGI 2011 held on 10th to 12th November at PGIMER, Chandigarh as Guest Faculty. Dr. Basu was a judge for one of the poster sessions and presented a poster entitled “Diagnostic clues in bone marrow in spontaneous tumor lysis syndrome in hemato-lymphoid malignancies”.

Dr. Rakhee Kar

- Presented an award paper entitled “Clopidogrel resistance in North Indian patients of Coronary Artery Disease and the role of platelet ADP receptors P2Y1, P2Y12 gene polymorphisms in its pathogenesis” at ISARCON 2011 organised at JIPMER on 24th and 25th September 2011.
- Co-authored a paper presented in Meducon 2011 on “Student centred learning: are students ready? A case study from JIPMER, Puducherry” on 1st and 2nd October 2011, organized by AANJ and department of Medical Education, JIPMER, Puducherry.
- Participated in the 52nd Annual Conference of the Indian Society of Hematology and Blood Transfusion Hematocon PGI 2011 held on 10th to 12th November at PGIMER, Chandigarh as Guest Faculty. She presented “interesting cases” in the pre-conference thalassemia workshop, and an oral paper entitled “Clinico-hematological profile of 70 patients with Hereditary Spherocytosis: diagnosed at a tertiary care centre in North India” in the JC Patel award paper category. She also presented a poster entitled “Gelatinous marrow transformation: A series of 11 cases from a tertiary care centre in South India”.

Dr. Pampa Ch Toi

- Attended the 41st annual conference of Indian Academy of Cytologists, held at Dharwad, Karnataka from 10th to 13th November 2011. Won the best paper award for her paper entitled “Utility of toluidine blue wet mount films in serous body fluid cytology”.
- Attended MEDUCON” on 1st and 2nd October 2011, organized by AANJ and department of Medical Education, JIPMER, Puducherry.
• Attended & helped in organizing the 24th Annual National Conference & CME 2011 (ISARCON) of Indian Society for Atherosclerosis research held in JIPMER on 24th & 25th Sep 2011.

Dr. Rajesh NG
• Attended International CME and National Conference on Atherosclerosis Research held at JIPMER Pondicherry on 24th and 25th of September 2011. Officiated as In-charge in Souvenir, Brochure and Website Committee and Sponsorship, Trade and Exhibition Committees of the ISARCON

Dr. Sajini Elizabeth Jacob
• Attended and helped in organizing the 24th Annual National Conference & CME 2011 (ISARCON) of Indian Society for Atherosclerosis research held in JIPMER on 24th & 25th Sep 2011.
• Attended National Medical Education Conference 2011 organized by AANJ (MEDUCON) at JIPMER on 1st & 2nd Oct 2011.
• Attended and presented a poster on “Metastatic chondrosarcoma in pleural fluid” at the 60th Annual conference of IAPM and Annual Conference of IAP-ID (APCON 2011) held at Patiala on 2nd to 4th Dec 2011.

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.
• Screening for paroxysmal nocturnal hemoglobinuria in the local patient population using gel card technology.
B. Departmental projects
  Completed
  • Evaluation of Vascular Endothelial Growth Factor Expression and Microvascular Density in Meningioma.
  • Histomorphological and Immunohistochemical Correlation of high Grade Non-Hodgkin Lymphomas.
  • Hodgkin Lymphoma – Immunohistochemical Features and Association with Epstein-Barr Virus.
  • Cyto-histopathologic Correlation of the Follicular Lesions of Thyroid
  • Role of p63 and High Molecular Weight Cytokeratin 34BE12 in the Differential Diagnosis of Prostatic Tumors.
  • The Expression of Immunohistochemical Markers P53, Ki-67, ER, PR and Her-2-neu in Epithelial Ovarian Tumours and Their Clinicopathological Correlation.
**Ongoing**

- Role of FNAC in necrotizing lesions
- Histopathologic study of vessel wall biopsies in thromboembolic events.
- Immunohistochemical profile and bone marrow angiogenesis in multiple myeloma with reference to its clinical significance.
- Role of P16, CK17 and P63 in distinguishing squamous cervical intra-epithelial lesions from its mimics.
- Fine needle aspiration of salivary gland neoplasms with histopathological correlation.
- Histopathological and immnohistochemical evaluation of follicular pattern neoplasms of thyroid
- Nodal peripheral T cell lymphoma: immunophenotyping and its association with tepstein barr virus
- Clinico haematological profile and bone marrow histomorphology in Imatinib treated chronic myeloid leukemia
- Fine needle aspiration cytology of spindle cell lesions and their histopathologic correlation
- Study of immunohistochemical profile of p53,ki-67,CK20,CD10 in urothelial neoplasms of urinary bladder
- Diagnosis of endometrial intraepithelial neoplasia and the role of PTEN, BCL2 and ki-67 in endometrial lesion
- Role of micronucleus in cervical intraepithelial lesions and carcinoma

**Collaborative projects**

- Relationship between preeclampsia and placental bed vascularity: a study comparing placental bed microvascular density and trophoblastic invasion of spiral arteries in normal and preeclamptic pregnancies.
- Study of clinicopathological prognostic factors in Peripheral T cell lymphomas from south India.
- Neoadjuvant docetaxel and carboplatin in triple negative locally breast cancer in Indian population.
- Efficacy of transvaginal sonography Vs MR imaging for estimating the depth of myometrial involvement in endometrial carcinoma.
- Molecular subtyping of breast cancer and its correlates to clinical stage, response to neoadjuvant chemotherapy or hormone therapy.
- Effect of norsinesaline on calprotectin induced severe inflammatory response and outcome in neonatal rat models.
- Distribution of melanosomes in white hair (graying hair) compared to black hair.
- Association of Herpes simplex virus, CMV and Staphylococcus aureus in patients with Pemphigus and their contribution to glucocorticoid resistance.
• Retrospective audit of skin biopsies done in dermatology department in a tertiary care hospital in South India.
• Role of bronchial brush cytology and cytology of pre- and post-bronchial washings in evaluation of lung cancers.
• Role of gray sound ultrasound, power Doppler, spectral Doppler and radionucleide scintigraphy to differentiate benign and malignant thyroid nodules.
• Incidence of heparin induced thrombo cytopenia in patients undergoing cardiovascular surgery and the relationship with clot morphologies. Reg RIIa polymorphism and association of thrombosis in HIT with platelet PLA2 polymorphism.
• Immunohistochemical evaluation of bone marrow angiogenesis and its clinical correlation in primary and secondary myelofibrosis.
• Role of iron deficiency in diffuse hair loss (female pattern hair loss and chronic telogen effluvium) in women.
• Evaluation of platelet activation based on platelet indices, platelet aggregability, soluble P-selectin and platelet oxidative stress in chronic urticaria.
• Clinical profile of stillbirths.
• Tear film and conjunctival cytological changes following small incision cataract surgery.

PUBLICATIONS

Chapters in Books
Dr. N. Siddaraju contributed a chapter entitled “Clinical cytology in the diagnosis and management of melanoma” to the text book “Current Management of Malignant Melanoma” published by In Tech publishers.

PATIENT CARE SERVICES
Laboratory Services
Surgical Pathology
In 2011-12, 18,326 biopsies were examined. Routine Hematoxylin-eosin and all special stains are performed. In 9,673 cases immunohistochemistry services were provided. Immunofluorescence laboratory has been standardized. Routine frozen sections and cryostat facilities were done in 70 cases.
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).

17,201 samples were investigated in the year 2011-12. These included fine needle aspiration (6432), gynecologic (cervicovaginal smears) (7162 and non-gynecologic (fluid) cytology (3064), as well as more recently introduced squash (for CNS tumors), imprint and brush (gastrointestinal and bronchial) cytology. Routine fluid cell count is also done in this section.

Hematopathology

The lab caters to routine hemograms, BM aspiration and biopsy, coagulation and hemolytic anemia workup. The External quality assurance scheme is followed for the coagulation with CMC, Vellore and blood counts with AIIMS, New Delhi. The lab provides a 24-hour emergency in-patient service. During 2011-12, diagnostic workup of 32079 patients was performed including 639 bone marrow studies.

Central Lab and Superspecialty Lab (Clinical Pathology &Hematology Lab)

The OPD laboratory under the control of department of Pathology dealt with 65583 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 54768 samples including routine hemogram, peripheral smear, urine, stool and fluid analysis.

Superspecialty block Renal histopathology laboratory dealt with 300 Immuno-fluorescence studies

Autopsy

23 autopsies were performed during the period from April 2011 – March 2012

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr. Surendra Kumar Verma

• Dr. Surendra Kumar Verma was elected as president of the Pondicherry Tamilnadu chapter of Indian Association of Pathologists and Microbiologists (IAPM) for 2012 to 2013 tenure.

• Dr. Surendra Kumar Verma was selected as Executive member of Indian Society of Atherosclerosis Research (ISAR).

• Dr. Surendra Kumar Verma was chosen as vice president of Indian Association of Biomedical research.

Dr. D.Basu

• Elected as the General Secretary of Alumni Association of NTTC JIPMER (AANJ) for the year 2011-2012
Dr. Rakhee Kar

Dr. Pampa Ch Toi
- Won the best paper award for her paper entitled “Utility of toluidine blue wet mount films in serous body fluid cytology” at the 41st annual conference of Indian Academy of Cytologists, held at Dharwad, Karnataka from 10th to 13th November 2011.

Dr. N.G. Rajesh
- was elected as an Executive member of Indian Society of Renal and Transplant Pathology

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.
- Organising Secretary for ISARCON 2011
- 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
- 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
- Examiner of 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.
- Member of organizing committee of various National Conferences and student related activities held in JIPMER
- Chaired sessions for paper presentation in the ISARCON 2011 Conference held at JIPMER on September 2011.
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 Journal of Cytology; Melanoma research; International Journal of Infectious diseases and Southern Medical journal.
- Participated in interdepartmental activities such as Orthopedic tumor clinics

Dr. Debdatta Basu
- Incharge of Hematopathology Division, with special interest in Bone Marrow Biopsy and Lymphoma
- In-charge of undergraduate (MBBS) classes
- Staff advisor for students of JIPMER since Jan 2012.
- Nominated as expert for Equipment selection for Pathology for the six AIIMS like institute under PMSSY.
- External examiner for MD Pathology for Maharashtra University of Medical Sciences at Mumbai in June 2011.
- Internal Examiner for MBBS
- Coordinator for DNB Pathology exams
- 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. Core faculty member for MEDUCON
- Deputy Warden of Postgraduate Hostel in JIPMER.
- Member of the CRAFT Committee of JIPMER.
- 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, specially oncopathology CPCs and hematology grand rounds.
• 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.
• Involved in interdepartmental clinicopathological conferences including Hematology grand rounds.
• Incharge of Autopsy section of the department.
• Coordinator of Institute CPCs.
• Reviewer for Clinical and applied thrombosis and hemostasis (CATH)
• Principal Investigator of the project Screening for paroxysmal nocturnal hemoglobinuria in the local patient population using gel card technology.

Dr. Pampa.Ch.Toi
• Incharge of reporting cytopathology
• In–charge of B.Sc. MLT classes
• Internal examiner for B.Sc. MLT (JIPMER-2011)
• Involved in undergraduate and postgraduate teaching
• Involved in interdepartmental clinicopathological conferences
• Organising committee member for 2nd Convocation Day in JIPMER on 9th April 2011
• 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
• 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, Cardiothoracic technology and Neurotechnology

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. Sajini Elizabeth Jacob

- Actively involved in UG/PG teaching
- Incharge of UG teaching programme
- Actively involved in intra-and interdepartmental activities
- Incharge of Neuro-oncology CPCs.
- Coordination of Institute CPCs.
- Independently reported in “Hematology”, “Cytology”, “Histopathology” and “Clinical Pathology” Divisions
- Principal Investigator for Role of p16 and CISH in detection of HPV in oral squamous cell carcinoma.

SIGNIFICANT EVENTS IN THE DEPARTMENT

Achievements

1. The prestigious 'Nalinibai Takkar award' which is given to young pathologists under the age of 35 years for original work in cytology was won by one of our final year postgraduate student. It was for his oral paper entitled "Cytohistopathologic correlationof the follicular lesions of thyroid" presented at the 41st annual conference of Indian Academy of Cytologists, held at Dhanward, Karnataka from 10th to 13th November 2011. His work was done under the guidance of Dr. N. Siddaraju, Prof, Dept. of Pathology and Dr. Gopalakrishnan, Prof. & HOD, Dept. of ENT, JIPMER.

2. The same final year post graduate student along with postgraduates from Dept. of Transfusion Medicine and Dept. of Medicine case second in the South Zonal Hematology (ISHTM) Quiz competition held in Bangalore on 24th September 2011.
3. The second prize for the Liver Pathology Quiz conducted at the International CME on Liver Pathology held at GB Pant Hospital, New Delhi from 27th to 29th January 2012 was won by our second year post graduate student.

**New equipments added**

- Liquid Based Cytology services
- Grossing station and embedding station were added in the division of Histopathology
- Automated coagulometer and facilities for thrombophilia workup started.
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 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 sleep studies 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, B.Sc. Neurotechnology in both theoretical and practical aspects of pharmacology. MBBS students are also taught topics like essential medicines, pharmacovigilance, drug information services etc. The sessional examinations for MBBS and B.Sc. MLT students include the Objective Structured Practical

8.27 Pharmacology

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<td>C. Adithan</td>
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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**

- Organizing Secretary for the “Eighth National Workshop on Basic Techniques in Molecular Biology and Bioinformatics in Pharmacogenomics” jointly organized by the ICMR Centre for Advanced Research in Pharmacogenomics, Department of Pharmacology, JIPMER, Vector Control Research Centre (VCRC) and Centre for Bioinformatics, Pondicherry University, Pondicherry during August 08 -13, 2011. He delivered a lecture on “Pharmacogenomics: Basics and its applications in Clinical Practice” during the workshop.

- Organizing chairman for the conference of the Indian Pharmacological Society (Pondicherry Branch), organized by the department of pharmacology held on 22nd September 2011 in conference hall, SS Block, JIPMER.

- Attended the meeting of the Expert Committee for approval of new drugs and global clinical trial on 17 December 2011 at the Office of the Drug Controller General of India, Govt. of India, FDA Bhawan, New Delhi.

- Attended the meeting of the Scientific Advisory Group of Division of Basic Medical Science that was held on 26th December 2011 in ICMR Hqrs. Office New Delhi.
Dr. S. C. Pradhan

- Attended World Health Day celebration under the auspices of WHO at Nursing College in JIPMER, Puducherry on 7th April, 2011 on the theme “Combating antimicrobial resistance: No action today, No cure tomorrow” and delivered a lecture on “Antimicrobial resistance and its global spread”
- Resource person for the “Eighth National Workshop on Basic Techniques in Molecular Biology and Bioinformatics in Pharmacogenomics” jointly organized by the ICMR Centre for Advanced Research in Pharmacogenomics, Department of Pharmacology, JIPMER, Vector Control Research Centre (VCRC) and Centre for Bioinformatics, Pondicherry University, Pondicherry during August 08-13, 2011.
- Appointed as an examiner for the evaluation of a Ph.D. thesis entitled “A computational approach to the understanding of anticonvulsants affecting GABA – ergic system.

Dr. D. G. Shewade

- Resource person for the “Eighth National Workshop on Basic Techniques in Molecular Biology and Bioinformatics in Pharmacogenomics” jointly organized by the ICMR Centre for Advanced Research in Pharmacogenomics, Department of Pharmacology, JIPMER, Vector Control Research Centre (VCRC) and Centre for Bioinformatics, Pondicherry University, Pondicherry during August 08-13, 2011.
- Delivered a talk on ‘Role of pharmacotherapy and pharmacogenomics in stroke prevention’ on world stroke day in the CME organized by the department of Neurology, JIPMER, Puducherry on 29.10.2011.

Dr. R Raveendran

- Chief editor, Indian Journal of Pharmacology and Pharmacotherapy.
- Resource person in Interns’ Orientation on 1st Jul 2011 in JIPMER.
- Delivered a lecture cum demonstration on "Alternatives to use of animals in life science education" at a workshop conducted at Father Muller Medical College, Mangalore on 2 Jul 2011.
- Delivered lectures on Research Methodology for Pharmacy PG students in Mother Theresa PG Institute of Health Sciences, Pondicherry on 19 & 20, Jul 2011.
- Resource person in PG Orientation program on 28 & 29 Jul 2011 in JIPMER.
- He was the organizing secretary for the conference of the Indian Pharmacological Society (Pondicherry Branch), organized by the department of pharmacology held on 22nd September 2011 in conference hall, SS Block, JIPMER.
- Invited as a resource person and delivered a lecture on 'ethics in research and publication' in a workshop on designing and ethics in research at Muthayammal College of Arts & Science, Rasipuram, TN on 29 Sept 2011.
- Attended the Advisory Board Meeting of the Mahatma Gandhi – Dorenkemp Centre held at Bharathidasan University in Tiruchirapalli, TN on 1st and 2nd October 2011.
• Invited as a resource person and delivered lectures in a workshop on Paper Writing held in the 1st Annual Conference on “Research Methodology and Art of Scientific Paper Writing at Maulana Azad Medical College, New Delhi on 9 Oct 2011.

• Invited as resource person to deliver lectures in a workshop on ‘Alternative novel methodologies in teaching of life science and biomedical sciences laboratory courses’ at Rajalakshmi Engineering College, Chennai, on 28 & 29 Nov 2011.

• Invited to conduct a session on biomedical statistics in the pre-conference workshop of the 64th Indian Pharmaceutical Congress on 14-15 December 2011 at Al Ameen college of Pharmacy, Bengaluru.

• Resource person to deliver lectures in a program on Alternatives to use of animals in drug discovery and testing to be conducted at Periyar College of Pharmaceutical Sciences, Trichy on 26 Dec 2011

• Invited as a resource person to deliver lectures in a workshop on Research Methodology and Biostatistics in Agnihotri College of Pharmacy, Wardha on 28 & 29 Jan 2012.

• Resource person in the workshop on "Modernizing medical training : Replacing animals in undergraduate programs" 17-01-2012 organized by People for ethical treatment of animals (PETA) at SSB hall, JIPMER.

Dr. Steven. A. Dikhar
• Resource person for the “Eighth National Workshop on Basic Techniques in Molecular Biology and Bioinformatics in Pharmacogenomics” jointly organized by the ICMR Centre for Advanced Research in Pharmacogenomics, Department of Pharmacology, JIPMER, Vector Control Research Centre (VCRC) and Centre for Bioinformatics, Pondicherry University, Pondicherry during August 08-13, 2011.

Dr. M. Jayanthi
• Resource person in Post graduate orientation programme during April 2011 at JIPMER and gave a talk on ‘References in scientific writing’.

• Attended the seminar on “Research designs: Sampling and basic steps involved in project formulation” on September 17, 2011 at JIPMER that was organised by the Dept. of Medical Biometrics and Informatics (Biostatistics)

• Attended a workshop on 'Research methodologies for women scientists' held at AIIMS, New Delhi from 3rd-7th October, 2011.

• Attended National workshop on “clinical research for clinical investigators” held by division of clinical pharmacology, JIPMER in association with Indian Society for Clinical Research (ISCR), 21-22 October 2011

• Attended workshop on ”Modernizing medical training : Replacing animals in undergraduate programs” on 17-01-2012 organized by People for ethical treatment of animals (PETA) at SSB hall, JIPMER.

• Invited as a resource person and delivered a talk on ‘Protocol writing in pharmacoeconomics’ at the ‘Workshop on Basic Principles of Pharmacoeconomics’ that was held on February 25, 2012 in the Department of Pharmacology, Indira Gandhi Medical College and Research Institute, Puducherry.
- Attended The National seminar cum workshop sponsored by the Department of Biotechnology (DBT), India on “Drug design and its industrial applications" from 7th to 9th March, 2012 held at Pondicherry University.

**Dr. R. Kesavan**

- Invited for WHO Sponsored workshop on informal consultation on essential medicine list for children (EMLc) and implementation children medicine formulary 22nd July 2011
- Resource person in Eighth National Workshop on Basic Techniques in Molecular Biology & Bio-informatics in Pharmacogenomics, Organised by JIPMER and VCRC, Pondicherry, 08-13 August 2011
- Attended National workshop on “clinical research for clinical investigators” held by division of clinical pharmacology, JIPMER in association with Indian Society for Clinical Research (ISCR), 21-22 October 2011
- Invited as External Member for 'Instrument Purchase committee' In Mother Theresa College post graduate and Research institute of Health sciences, Pondicherry, 3-11-2011.
- Attended WHO sponsored Asian Regional Training Course on “Medication management in Hospitals: Role of Drug & Therapeutic committees” at New Delhi from 31-10-2011 to 05-11-2011
- Attended Indo-Swiss Symposium, Cohorts and Biobanks at Sree Chitra Tirunal Institute for Medical Sciences & Technology, Trivandrum, Kerala from 27-28 Jan 2012.

**CONFERENCES**

**Dr. C. Adithan**

- Attended the International Conference on Medical Genetics and Genomics (ICMG-2011) on 13 December 2011 at the Bharathidasan University, Tiruchiirappalli and delivered a Guest Lecture titled “Genetic polymorphism of drug metabolizing and transporters genes of South Indian Populations and their clinical importance”.
- Attended the 44th Annual conference of India Pharmacology Society, organized by Kasturba Medical College, Manipal during 19-21, December, 2011. He Chaired a Guest Lecture on Clinical Development of Newer Anticoagulants and moderated a symposium on “Pharmacologists Meeting the Regulatory Challenges”.

**Dr. R Raveendran**

- Delivered an invited talk on "Alternatives to Animals in Teaching : Experience in Indian Medical School" and chaired a session on "Development of non-animal teaching/training models" in the 8th World Congress on Alternatives & Animals Use in the Life Sciences in Montreal, Canada on 21-25 August 2011.
- Attended the 3rd National Conference & CME cum Workshop of the Indian Society of Rational Pharmacotherapeutics on 25-27 November 2011 at Govt Medical College, Jammu, JK and delivered lectures on 'Literature search' and 'Publication ethics'.
Dr. R. Kesavan

- Attended conference on Molecular Medicine (MOLMED 2012) at Vellore Institute of Technology, Vellore from 19-22\textsuperscript{th} February 2012.

**PROJECTS**

A. Funded Projects

a. Extramurally Funded Projects

(i) *Completed*

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Title</th>
<th>Principal Investigator</th>
<th>Funding</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Association between CYP2C8, CYP2C9, CYP2J2 and eNOS gene polymorphisms and susceptibility to Acute Myocardial Infarction in South Indian population</td>
<td>Dr. C. Adithan</td>
<td>Rs 38.75 lakhs DST, Govt. of India, New Delhi.</td>
<td>4 years (2007-2011)</td>
</tr>
<tr>
<td>2</td>
<td>Phase-I clinical trial project of Thrombinase</td>
<td>Dr. R. Raveendran</td>
<td>Malladi Drugs &amp; Pharmaceuticals Limited, Chennai</td>
<td>Closed on Jan, 2011</td>
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(ii) *Ongoing*

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<th>Sl. No.</th>
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<th>Duration</th>
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<tbody>
<tr>
<td>1</td>
<td>ICMR Center for Advance Research in Pharmacogenomics</td>
<td>Dr. C. Adithan</td>
<td>Rs 1.58 crores ICMR, New Delhi.</td>
<td>5 years (2007-2012)</td>
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<tr>
<td>2</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>
<td>Dr. DG Shewade</td>
<td>ICMR-INSERM</td>
<td>2 years (2010–2012)</td>
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b. Intramurally Funded Projects

(i) Completed

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<tr>
<th>Sl. No.</th>
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<th>Title of Dissertation</th>
<th>Name of the Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dr. C. Adithan</td>
<td>Effect of CYP2C9 and VKORC1 genetic polymorphisms on warfarin dose requirements and adverse events in South Indian population</td>
<td>Dr. Madhan. S</td>
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<tr>
<td>2</td>
<td>Dr. S C Pradhan</td>
<td>Influence of CYP2D6 genotype on recurrence of breast cancer in patients receiving tamoxifen as an adjuvant therapy</td>
<td>Dr. Damodaran S E</td>
</tr>
<tr>
<td>3</td>
<td>Dr. D. G. Shewade</td>
<td>Effect of CYP3A5 and P2Y12 genetic polymorphisms on platelet aggregation in patients on treatment with clopidogrel</td>
<td>Dr. Priyadharsini. R</td>
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<tr>
<td>4</td>
<td>Dr. Steven. A. Dkhar</td>
<td>Effect of CYP2C19 and MDR1 genetic polymorphisms on antiplatelet effects of clopidogrel in clinical settings</td>
<td>Dr. K. Subraja</td>
</tr>
<tr>
<td>5</td>
<td>Dr. R. Raveendran</td>
<td>Isolation of cleistanthin A and B from Cleistanthus collinus Roxb. leaves and evaluation of pharmacological and toxicological profile of cleistanthin A and B in animal models.</td>
<td>Dr. S. Parasuraman</td>
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(ii) Ongoing Projects

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<th>Name of the Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dr. D.G. Shewade</td>
<td>Effect of cardiovascular drugs on eNOS gene expression and enzyme activity in cultured human umbilical endothelial cells</td>
<td>Miss. Anichavezhi. D</td>
</tr>
<tr>
<td>2</td>
<td>Dr. Steven Aibor Dkhar</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>Mr.G.Umamaheswaran</td>
</tr>
<tr>
<td>3</td>
<td>Dr. C. Adithan</td>
<td>Influence of genetic factors on endothelial function with reference to risk of Myocardial infarction and atorvastatin response</td>
<td>Mr.A.S.Arun Kumar</td>
</tr>
<tr>
<td>4</td>
<td>Dr. Steven. A. Dkhar</td>
<td>Influence of DPYD*2A mutation on 5-Fluorouracil/Capecitabine induced toxicity</td>
<td>Dr. Rajani Anil Kanaiyalal</td>
</tr>
<tr>
<td>No.</td>
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<td>Title</td>
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</tr>
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<td>-----</td>
<td>---------</td>
<td>-------</td>
<td></td>
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<tr>
<td>5</td>
<td>Dr. S C Pradhan</td>
<td>Effect of ABCB1 and ABCC1 polymorphism on the lipid lowering response and adverse effect profile of Atorvastatin</td>
<td></td>
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<tr>
<td>6</td>
<td>Dr. R. Raveendran</td>
<td>Evaluation of antihypertensive effect of Cleistanthin A and B in Sprague Dawley rats</td>
<td></td>
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<tr>
<td>7</td>
<td>Dr. D G Shewade</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></td>
</tr>
<tr>
<td>8</td>
<td>Dr. R. Raveendran</td>
<td>The role of stem cells and platelet derived growth factor on proliferation and differentiation</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Dr. Steven A. Dkhar</td>
<td>Effect of HMGCR and CYP3A5 genetic polymorphisms on the lipid response to atorvastatin in Tamilian population</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Dr. S C Pradhan</td>
<td>Population pharmacokinetics and Pharmacogenetics of Imatinib mesylate in Chronic myeloid leukemia patients</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Dr. C. Adithan</td>
<td>Influence of ATM and SLC22A1 gene polymorphisms on response to metformin for achieving glycemic control in type 2 diabetes mellitus patients of South India.</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Dr. S C Pradhan</td>
<td>Efficacy and safety evaluation of Silymarin in Hepatitis cases of various etiologies: A double blind placebo controlled clinical trial.</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Dr. D G Shewade</td>
<td>Effect of Antituberculosis treatment on Hepatic drug metabolizing enzyme CYP2C19.</td>
<td></td>
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<tr>
<td>14</td>
<td>Dr. Steven A. Dkhar</td>
<td>Effect of MDRI and 5HT-2C genetic polymorphisms on risperidone induced weight gain in patients of schizophrenia and acute psychosis.</td>
<td></td>
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<tr>
<td>15</td>
<td>Dr. Steven A Dkhar</td>
<td>Comparison of ranolazine and trimetazidine on glycemic status in chronic angina patients with diabetes mellitus – A randomized double blind parallel arm trial.</td>
<td></td>
</tr>
<tr>
<td>Sl. No.</td>
<td>Name of Guide</td>
<td>Title of Dissertation</td>
<td>Principal Investigator</td>
</tr>
<tr>
<td>--------</td>
<td>---------------------</td>
<td>---------------------------------------------------------------------------------------</td>
<td>------------------------</td>
</tr>
<tr>
<td>15</td>
<td>Dr. D G Shewade</td>
<td>Pharmacogenetics of Fluoxetine in South Indian Major Depressive Disorder Patients.</td>
<td>Mrs. M. Aarthi</td>
</tr>
<tr>
<td>16</td>
<td>Dr. Steven A. Dkhar</td>
<td>Influence of DNA repair gene polymorphisms on platinum based chemotherapy in cancer patients of south Indian population.</td>
<td>Mr. Srinivas Rao</td>
</tr>
<tr>
<td>17</td>
<td>Dr. S C Pradhan</td>
<td>Influence of genetic polymorphisms on Pharmacodynamics &amp; pharmacokinetics of methotrexate in acute lymphoblastic leukemic patients treated in a south Indian teaching hospital.</td>
<td>Ms. Sunitha kodidela</td>
</tr>
</tbody>
</table>

(iii) Faculty project

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Title</th>
<th>Principal Investigator</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Effect of alcohol on drug metabolizing enzyme CYP2C19</td>
<td>Dr. Jayanthi .M</td>
<td>2 yrs</td>
</tr>
</tbody>
</table>

B. Departmental Projects (Ongoing)

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Name of Guide</th>
<th>Title of Dissertation</th>
<th>Name of the Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dr. R. Raveendran</td>
<td>Evaluation of the in vivo antitumor activity of cleistanthin B in Swiss albino mice.</td>
<td>Dr. Vipul R. Thummar</td>
</tr>
</tbody>
</table>

PUBLICATIONS

a. Journals


5. Damodaran SE, Pradhan P. Genetic polymorphisms of CYP2D6 increase the risk for recurrence of breast cancer in patients receiving tamoxifen as an adjuvant therapy. Cancer Chemother Pharmacol. 2012 (accepted for publication).


b. Books


c. Software


PATIENT CARE SERVICES

a. Clinical

The department is providing clinical services like adverse drug reaction monitoring and drug information services. During the year 2011 – 2012, a total of 653 adverse drug reactions (ADR) have 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 2011-2012, 236 TDM assays have been performed. Urinary VMA assays are also carried out. TDM for immunosuppressants like methotrexate, cyclosporine and tacrolimus have been standardized to optimize therapy in renal transplant recipients. Now TDM for these drugs started.

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr. S. C. Pradhan

Dr. R. Raveendran

- Received a best poster award for his paper entitled “ExPharm Online” in the 44th Annual Conference of the Indian Pharmacological Society on 19-21 December 2011 at Kasturba Medical College, Manipal.

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. C. Adithan

1) Faculty in-charge, Division of Clinical Pharmacology
2) Co-ordinator, ADR Monitoring Centre
3) Co-ordinator, Drug Information Centre
4) Chairman, JIPMER Ph.D. Studies committee
5) Member-Secretary, Institute Ethics Committee (Human studies)
6) Member-Secretary, Advisory Committee for establishing Multidisciplinary Advanced Research Centre, JIPMER
7) Faculty-in-charge, Finance Division, JIPMER
8) Vice-Chairman, Drug Purchase and Utilization Monitoring Committee
9) Warden - Lister, Ooler and Aschoff House (UG Men’s Hostel), JIPMER
10) Member, Board of Examinations, JIPMER
11) Member, Committee for assessing man power requirements of JIPMER
12) Member, Institute core committee for starting renal transplantation at JIPMER
13) Member, Editorial Board – JIPMER News
14) Postgraduate (M.D.) teaching in-charge
15) Internal examiner for M.D. and M.B.B.S courses
16) Recognised Ph.D guide

Dr. S. C. Pradhan

1) Vigilance officer of JIPMER
2) Undergraduate (M.B.B.S) teaching in-charge
3) Internal examiner for M.D. and M.B.B.S courses
4) Recognised Ph.D guide

Dr. D. G. Shewade

1) Officer in-charge of purchase, JIPMER
2) Teacher in-charge for Emergency Medical Technician Course
3) Member of the subcommittee on book procurement for purchase of books for central library, departmental libraries and book bank
4) Officer for condemnation/breakage of articles below Rs. 10,000/- for the department of microbiology and physiology
5) Member of the board of studies in pharmacy, Pondicherry University, Puducherry
6) Doctoral committee member (Ph D Pharmacology) of SBV University, MGMC & RI, Puducherry
7) MCI inspector for MD (Pharmacology) course
8) Recognised Ph.D guide

**Dr. Raveendran**
1) Chief editor, Journal of Pharmacology and Pharmacotherapeutics
2) Officer in-charge of Pharmacy
3) The officer-in-charge of CRAFT (Centre for Research and Academic Facilities and Training)
4) Chairman of JIPMER departmental canteen.
5) Secretary, Students' cafeteria
6) Liaison officer, OBC
7) Recognised Ph.D guide

**Dr. Steven A. Dkhar**
1) Officer in-charge of Linen and laundry sections, JIPMER hospital
2) Officer in-charge of stores, Dept. of pharmacology
4) Sub Co-ordinator, ADR Monitoring Centre
5) Recognised Ph.D guide

**Dr. M. Jayanthi**
1) Teacher in-charge for B.Sc. Nursing
2) Involved in undergraduate and postgraduate teaching
3) Internal examiner for B.Sc. MLT

**Dr. R. Kesavan**
1) Officer in-charge (Assistant), Dept. of Pharmacy
2) Officer for condemnation/breakage of articles below Rs. 10,000/- for the department of pathology, forensic medicine and medical education
3) Involved in undergraduate and postgraduate teaching
SIGNIFICANT EVENTS IN THE DEPARTMENT

- Dr. M. Raj Rajasekaran, Project Scientist, Department of Medicine, University of California San Diego, USA visited the Department of Pharmacology on 5th and 6th January 2012. He visited various laboratories of our department. He interacted with PG and PhD students. He gave lectures on stem cell therapy for genito-urinary disorders, experimental models for drug development for bladder dysfunction, video demonstration and discussion of experimental techniques, he also discussed on literature search, writing protocols for animal experiments and manuscript writing. All postgraduate students, PhD scholars, senior residents and faculty members attended his lecture and demonstration.

- PhD public viva voce of the following students were held in the department during 2011-2012

<table>
<thead>
<tr>
<th>Date of viva voce</th>
<th>Title</th>
<th>Name of the student</th>
<th>Name of the guide</th>
</tr>
</thead>
<tbody>
<tr>
<td>15/07/2011</td>
<td>Genetic variations in the exonic and 5' regulatory region of CYP2C19 and their functional importance as explored in South Indian population</td>
<td>Dr. Chakradhara Rao U.S</td>
<td>Dr. D G Shewade</td>
</tr>
<tr>
<td>15/12/2011</td>
<td>Influence of some polymorphic genes on phenytoin plasma levels, adverse effects, dose requirement and clinical response in epileptic patients</td>
<td>Dr. R. Kesavan</td>
<td>Dr. C. Adithan</td>
</tr>
<tr>
<td>29/03/2012</td>
<td>Isolation of cleistanthin A and B from Cleistanthus collinus Roxb., (Euphorbiaceae) Leaves and Evaluation of Pharmacological and Toxicological Profile of Cleistanthin A and B in Animal Models</td>
<td>Dr. S. Parasuraman</td>
<td>Dr. R. Raveendran</td>
</tr>
</tbody>
</table>
## 8.28 Physical Medicine and Rehabilitation

<table>
<thead>
<tr>
<th>Staff Role</th>
<th>Name</th>
</tr>
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<tbody>
<tr>
<td>Professor &amp; Head</td>
<td>D.K. Patro</td>
</tr>
<tr>
<td>Officer In-charge of PMR</td>
<td>Murali Poduval</td>
</tr>
<tr>
<td>Assistant Professor</td>
<td>Navin Kumar</td>
</tr>
<tr>
<td>Senior Physiotherapist</td>
<td>V. Kaleeswaran</td>
</tr>
</tbody>
</table>

### 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 specified branch of PMR 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 to establish good relationship with the patient to enable them and their families to co-operate in treatment.

### Staff Pattern

- Senior Physiotherapist-01
- Junior Physiotherapists-05
- Physiotherapy Technician Gr.I-01
- Physiotherapy Technician-01
- Physiotherapy Technician Trainee-01
- Physiotherapy Attendant.-01
PATIENT CARE SERVICES

Physiotherapy services are provided to the patients as out patient 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 and cerebral palsy clinic weekly once. We also take part in Institute's under-graduate MBBS (Interns), and B.Sc(Nursing), MRT(Medical Records Trainee's) course.

Out-Patient Services

Patient referred from various OPDs
1. PMR
2. Orthopaedics Surgery.
5. Neurology
6. Neuro-surgery
7. Paediatrics.
8. Pediatrics surgery
10. Oncology.
11. Obst & Gynaecology
12. Immunology.
13. Plastic Surgery
15. E.N.T
16. DTCD

Are evaluated and taken up for regular therapy (pain management & rehabilitation) 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, NICU, 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].

All the patients are given therapy using.

1. Exercise therapy
   • Passive exercise
   • Active exercise
   • Active assisted exercise
• Resisted exercise
• ADL training
• Gait training
• Mobilisation-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 Mobilisation
      • 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 Inclinometer
   • Shoulder compass
   • Ankle exercise
   • Finger exercise
   • Forearm and Wrist mobiliser

Statistics of the Year
Physiotherapy Annual Census [2011-2012] Out/In-Patient's Attendance

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<td>09.</td>
<td>Dec.</td>
<td>2011</td>
<td>1468</td>
<td>2267</td>
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<td>3735</td>
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<td></td>
<td>10,505</td>
<td>27,872</td>
<td>2069</td>
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<td>40446</td>
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</table>

Grand Total 40446

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Mr. V. Kaleeswaran
- Attended CME on “Handling of Chemotherapy Management”, “Extravasation Management and Lymphoedema Care” conducted by RCC, JIPMER in July 2011.
- Attended CME programme on “Fall Screening, prevention and evidence based Management” conducted by Cuddalore District Physiotherapists Association in Sep 2011.
• Attended “Cardio-respiratory fitness, awareness Camp 2011” at Mother Teresa Post Graduate and Research Institute of Health Science, Pondicherry.
• Attended “Gait Course” 2011 at JIPMER (Two days on 3rd & 4th Dec 2011).

SIGNIFICANT EVENTS IN THE DEPARTMENT

• Mrs. M. Suganthi, Junior Physiotherapist attended 8th Annual Conference on Cancer Rehabilitation on 9th & 10th Dec 2011 at Tata Memorial Hospital, Mumbai. She also attended a two days workshop on ‘Topics technique and Theraband application’ held in Mother Teresa Post Graduate and Research Institute of Health Science, Pondicherry on 9th & 10th Feb 2012 and workshop on ‘Chronic Pulmonary Diseases’ held in Mother Teresa Post Graduate and Research Institute of Health Science, Pondicherry on Jan 2012.

• Mrs. Bhanumathy Mohanakrishnan, Junior Physiotherapist completed Master in Physiotherapy (MPT) in Cardio Respiratory from Mother Teresa Post Graduate and Research Institute of Health Science affiliated to Pondicherry university, and rejoined the duty on 13 Aug 2011. She actively participated in a study on “Comparative analysis of the effectiveness of Eccentric exercises over joint play techniques and conventional physiotherapy on non-traumatic shoulder stiffness”. She has attended a CME programme on “Fall Screening, prevention and evidence based Management” conducted by Cuddalore District Physiotherapists Association in Sep 2011.

• Mr. J. Mohanakrishnan, Junior Physiotherapist presented a paper in the International Seminar on “Positive Perspectives of Adapted Physical education” by IFAPA at Coimbatore on 19th and 20th of Sep 2011, titled “Yogasanas as a category to be included in Paralympics to encourage a better participation”. He presented a paper and won the “Best paper Award” at the International conference on “Better life better world through yoga with allied sports sciences” in association with NAPESS on 16th to 18th Feb 2012 at Chennai, Paper titled “A critical Analysis of shoulder Kinematics in suryanamaskar – an approach in designing a therapeutic tool for shoulder Rehabilitation’ which got published in journal of Physical Education and sports science Volume II 2013. ISSN 229-7049.

• Mr. J. Mohanakrishnan, Junior Physiotherapist attended as a faculty at Ortho one orthopaedic speciality centre and delivered a lecture as “Manual Therapy on Shoulder” for the “2nd Indo-US Shoulder Course” under auspices of shoulder and Elbow society of India on 29 Jan 2012.

• Mr. J. Mohanakrishnan, Mrs. Bhanumathy Mohanakrishnan and Mrs. R. Salaja, Junior Physiotherapists were involved in the study on “Comparative Analysis of the effectiveness of eccentric Exercises over joint play techniques and conventional physiotherapy” in non traumatic shoulder stiffness.

• Mrs. R. Salaja, Junior Physiotherapist gave manual lymphatic drainage and comprehensive decongestive therapy in patients with lymphoedema following mastectomy.
Mrs. Bhanumathy Mohanakrishnan and Mrs. R. Salaja, Mrs. L. Sivagami, Junior Physiotherapists attended the awareness programme on breast cancer organized by R.C.C. JIPMER.

Mrs. L. Sivagami, Junior Physiotherapist was called as an external examiner in SRM College of Physiotherapy for electrotherapy practicals during the academic year 2011. She also attended a workshop on gait Analysis at JIPMER, Puducherry in Dec 2011.

The following patient care services were provided.

1. Computerized Lumbar and cervical traction using Chattanoga Auto traction Unit.
2. Continuous passive mobilization of upper limb using CPM shoulder, CPM elbow and forearm units.
3. Ultra sound therapy using ultra sound unit with computerized sensor.
4. Aerobic exercises for Cardiac fitness.
5. Cryotherapy is introduced as an adjuvant in pain management.
6. Bio feed back as a preview has been used in treatment of Urinary in continence, and sports injury management.
7. Manual Lymphatic drainage and comprehensive decongestive therapy [MLD&CDT] is given as an intensive part of the treatment in lymphoedema patients [following mastectomy].
8. Apart from their routine patient care services our staffs find time for a weekly clinical discussion as part of academic accreditation on every Thursday.
9. 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.
- Aerobic programme for middle aged population.
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 was later shifted to spacious PMRC block II floor in the year 1985. Occupational therapy is a specified branch of PMRC mainly concerned with prevention, treatment and rehabilitation of disabilities.

Staff Pattern

Category of Staff attached to Occupational Therapy Section [At present].

1. Senior Occupational Therapist-01
2. Junior Occupational Therapist-05
3. Occupational Therapy Technician-01
4. Occupational Therapy Assistant -01
5. Craft Teacher-01
6. Blacksmith-01
7. Weaver-01
8. Occupational Therapy Attendant-01

CONTINUING MEDICAL EDUCATION PROGRAMS

Mrs. V. Brinda

- CME Programme- Gait mechanism analysis of normal and pathological gait pattern 3rd & 4th Dec 2011, Auditorium, JIPMER.

PATIENT CARE SERVICES

Occupational therapy services are provided to the patients as out patient department services in forenoon and in patient services in the afternoon sessions.
1) In addition to routine duties, therapists attend special clinics like cerebral palsy clinic.

2) This section also takes part in orientation programmes to the institutes under graduate MBBS (Intern) & B.Sc. (Nursing), MRTC (Medical Record trainees).

Out-Patient Services

Patient referred from various OPDs

1. PMR
2. Orthopaedics Surgery.
5. Neurology
6. Neuro-surgery
7. Paediatrics.
8. Paediatric surgery
10. Oncology.
11. Obst & Gynaecology
12. Immunology.
13. Plastic Surgery
15. E.N.T
16. DTCD Next Line 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].

Therapy Services are

1. Therapeutic approaches and activities.
2. Splintage and Assistive services.
3. Hand function evaluation & Rehabilitation.
5. Sensory motor Evaluation and Rehabilitation.
6. Sensory integration therapy.
7. Stress management and Relaxation.
8. Ergonomic Consultation and Advice.
10. Pre-vocational Assessment and Training.
12. Education and counseling to patients and care takes.
13. Craft section providing various craft activities to OP & IP.

STATISTICS OF THE YEAR
Occupational Therapy Annual Census [2011-2012]

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Month</th>
<th>Year</th>
<th>OPD New cases</th>
<th>OPD Old cases</th>
<th>IP</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>01.</td>
<td>April</td>
<td>2011</td>
<td>49 Male</td>
<td>62 Female</td>
<td>293 Male</td>
<td>157 Female</td>
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<tr>
<td>02.</td>
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<td>2011</td>
<td>78 Male</td>
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<tr>
<td>03.</td>
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<td>93 Male</td>
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<td>04.</td>
<td>July</td>
<td>2011</td>
<td>87 Male</td>
<td>65 Female</td>
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<td>05.</td>
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<td>2011</td>
<td>76 Male</td>
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<td>06.</td>
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<td>90 Male</td>
<td>64 Female</td>
<td>476 Male</td>
<td>279 Female</td>
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<td>10.</td>
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<td>61 Male</td>
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<td>344 Male</td>
<td>164 Female</td>
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<td>11.</td>
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<td>88 Male</td>
<td>82 Female</td>
<td>421 Male</td>
<td>250 Female</td>
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<td>12.</td>
<td>Mar.</td>
<td>2012</td>
<td>92 Male</td>
<td>63 Female</td>
<td>418 Male</td>
<td>261 Female</td>
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</table>

Grand Total = 11,399

SENSORY INTEGRATION THERAPY STATISTICS – 2011-2012

<table>
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<th>Sl. No.</th>
<th>Month</th>
<th>Year</th>
<th>No of SI CLIENTS</th>
</tr>
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<tr>
<td>01.</td>
<td>April</td>
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<tr>
<td>02.</td>
<td>May</td>
<td>2011</td>
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<td>03.</td>
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<td>2011</td>
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<td>July</td>
<td>2011</td>
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<td>05.</td>
<td>Aug.</td>
<td>2011</td>
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</tr>
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<td>Sept.</td>
<td>2011</td>
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<tr>
<td>07.</td>
<td>Oct.</td>
<td>2011</td>
<td>49</td>
</tr>
<tr>
<td>08.</td>
<td>Nov.</td>
<td>2011</td>
<td>56</td>
</tr>
<tr>
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<td>Dec.</td>
<td>2011</td>
<td>19</td>
</tr>
<tr>
<td>11.</td>
<td>Feb.</td>
<td>2012</td>
<td>17</td>
</tr>
</tbody>
</table>

Grand Total - 469
SIGNIFICANT EVENTS IN THE DEPARTMENT

- All the Occupational therapists, Occupational Therapy Technician and Occupational therapy Assistant had attended a guest lecture on “Matric – Repatterning” → structural, Diagnosis, Analysis and treatment of mechanical problems in the field of Physical Medicine by Mr. Leonard Roxon on 15-12-2011.


- Mr. Satish Kumar, Ms. Sujatha J.B, Mrs. Prasanna.R, Ms. Jose Mary Sangeetha.X, Ms. Bandana Senapati, Mrs. Subha Growther, Junior Occupational Therapists and Ms. M. Suganya Occupational Therapy Assistant attended a CME Programme- Gait mechanism analysis of normal and pathological gait pattern 3rd & 4th Dec 2011, Auditorium, JIPMER.
8.28.3 Orthotics Section

Professor & Head
D.K. Patro

Officer In-charge
Murali Poduval

Assistant Professor
Navin Kumar

Orthotist
K. Srikanth

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 Cobbler and one Attendant. 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 collar etc]
- Having fully equipped sophisticated laboratory.

Staff Pattern
- Orthotist -01
- Orthotic Technician-02
- Orthotic Craftsman-02
- Cobbler Gr.C-02
- Cobbler Gr.D-03

SERVICES PROVIDED
- Treating of 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 of the Year 2011-2012
- New Cases - 2371
- Old Cases - 1544
- Upper and Lower limb Orthoses - 317
- Spinal Orthoses - 298
- Orthopaedic footwear - 150
- Footwear modification - 374
- Orthoses repair - 279

ACHIEVEMENTS/SIGNIFICANT EVENTS
- 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 cost [based on Income certificate] to patient.
- Orthotic Section is updated with latest equipments and machineries. Staff at par with rehabilitation Council of India guidelines to conduct Degree course for Prosthetic and Orthotics [BPO].

Mr. K. Srikanth
- Attended National conference of Orthotics and Prosthetics Association of India at Shillong during Feb 2012.
- 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 of Orthotics and Prosthetic Association of India.
- Life member of International Society of Prosthetics and Orthotics.
- Registered Professional of Rehabilitation Council of India[RCI]

SIGNIFICANT EVENTS OF THE DEPARTMENT
Mr. Mana Govinda Dalai and Mr. V. Sargunan attended National Conference of “Orthotic Prosthetic Association of India” at shilong from 14-02-2012 to 16-02-2012.

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

Professor & Head
D.K. Patro

Officer In-charge of PMR
Murali Poduval

Assistant Professor
Navin Kumar

Prosthetist
K. Mathivanan

BACKGROUND INFORMATION OF THE DEPARTMENT

Prosthetics section is functioning since 1986 at PMR block, with the technical staff of one prosthetics, two prosthetics technicians, one prosthetics craftsman and one carpenter.

The Prosthetics were fitted to all types of amputees visiting from various geographical areas of neighboring states. The majority of patients are being referred by various departments of JIPMER such as general surgery, Orthopaedics surgery, Plastic surgery and cardiothoracic surgery.

Assessment of stump, counseling, measurements, fabrication, fitment, gait training on trial prosthetics, checkout and comfort are patient care procedure on every individual patient.

All the prostheses are custom design. Apart from the “ALIMCO” components, we have started using endo-skeletal Hi-Tech components and joints in the fabrication of prosthesis.

PATIENT CARE SERVICE

1. Inpatient and out patient are attended on all week days.
2. Axillary Crutches, Elbow crutches are issued for all the lower limb amputees on free of cost.
3. Upper limb and lower limb amputees are provided with appropriate prosthesis.
4. Necessary repair works are carried out for the old Prosthetic cases.
5. Periodical follow-ups are done for the earlier fitted patients.
6. Prosthetic gait training is given to all the patients.
7. 597 cases were treated.
8. 27 new prostheses were fitted.
AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Mr. K. Mathivanan

- Life member in Orthotic Prosthetic Association of India.
- Life member in Indian Orthotist & Prosthetist Association.
- Professional Member in RC I.
- Committee Member in JSRC(JIPMER).
- Committee Member in “JIPMER Hospital Day”.
- President, JIPMER Tamil Kalai Peravai.

SIGNIFICANT EVENTS IN THE DEPARTMENT

1. Every new patient is assessed and discussed with the consultant of physical medicine and rehabilitation to provide the best treatment.

2. Advanced knee-mechanism with modular endo-skeletal prostheses fitted to a local unilateral above-knee amputee and the monthly follow-ups are made.

3. JIPMER MBBS Interns are placed in the section for amputee assessment and provided theoretical basic knowledge in prescription design and functions of prosthesis.
8.29 Physiology

Professor & Head
Madanmohan Trakroo (Till 29.02.2012)
G. K. Pal (From 01.03.2012)

Professor
P. Vijayalakshmi (Till 31.07.2011)

Additional Professors
G. S. Gaur
Pravati Pal

Assistant Professors
Vivek Kumar Sharma
S. Velkumary

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. The Department of Physiology 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/ Neurotechnology.

B. Postgraduate courses
These include four MD 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. G. K. Pal

- Participated as a delegate in the workshop on “Advanced Techniques in the Study of vascular functions” in APPICON 2011 held at AIIMS, New Delhi, on 14th December 2011

Dr. G. S. Gaur

- Attended a international CME ISARCON 2011 held at JIPMER Pondicherry on 24th –25th September, 2011.
- Participated as a delegate in the workshop on “young scientist training workshop on tools and techniques in physiological and pharmacological sciences” at AIIMS, New Delhi, on 14th December 2011
- Participated as a delegate in the workshop on “Applications of radio-isotopes in molecular imaging” organized by Punjab University, Chandigarh on 11th November 2011.

Dr. Pravati Pal

- Participated as a delegate in the Workshop on “Short Course in Basic Epidemiology” organized by Department of Preventive and Social Medicine, JIPMER from 14.11.11 to 19.11.11
- Participated as a delegate in the workshop on “Integral health Management and Practice of Yoga” in APPICON 2011 held at AIIMS, New Delhi, on 14th December 2011
- Attended seminar on “Research designs, sampling & basic steps involved in project formulation held on 17.09.2011 at JIPMER
- Attended a CME on “Modernizing Medical Training: Replacing Animals in MBBS curriculum” was held on 17.01.2012 at SS block JIPMER by the Department of medical education, JIPMER and PETA, India.

Dr. Vivek Kumar Sharma

- Participated as a delegate in the Level – I Accreditation Workshop in Kinanthropometry organized by Department of Physiology, JIPMER & International Society for the Advancement of Kinanthropometry (ISAK) from 14.06.11 to 17.06.11
- Participated one day seminar on “Research designs, sampling & basic steps involved in project formulation held on 17.09.2011 at JIPMER
- Participated one day seminar on “Update in stroke management & public awareness program” in connection with world stroke day on 29.10.2011 at JIPMER
Dr. S. Velkumary

- Participated as a delegate in symposium on "Hepatitis B resolving dilemma" conducted by departments of medical & surgical gastroenterology, on 6th August 2011 at JIPMER.
- Participated one day seminar on “Research designs, sampling & basic steps involved in project formulation” held on 17.09.2011 at JIPMER.
- Attended one day seminar on “update in stroke management & public awareness program in connection with world stroke day” held on 29.10.2011 at JIPMER.

CONFERENCES

Dr. Madanmohan Trakroo

- Presented an Invited talk on “Integrating Naturopathy and Yoga in Conventional Medical Education” and chaired a session in the International Conference on Yoga, Naturopathy and AROGYA Expo – 2012 held at Bangalore on February 10th, 2012.
- Presented a Key Note addresses and chaired scientific sessions during National Yoga Week held at MDNIY, New Delhi on February 12th –18th, 2012.

Dr. G. K. Pal

- Delivered an invited guest lecture on “Contribution of sympathovagal imbalance to cardiovascular dysfunction in prehypertension and hypertension” in second International conference on Clinical Research: Cardiology, Ophthalmology and Dermatology, held at Omaha Marriott, Omaha, USA, from 5th-7th March 2012.
- Delivered an invited talk on “Assessment of sympathovagal imbalance in prediction and prevention of pregnancy-induced hypertension” and participated as a delegate in the 57th Annual conference of Association of Physiologists and Pharmacologists of India held at AIIMS, New Delhi in 14-17 December 2011.
- Delivered an invited talk on “Mind body relaxation for effective homeostasis” and participated as a delegate in the XXIII Annual National Conference of Physiological Society of India, held from 21st-23rd December, 2011 at NRI Medical College, Chinakakani, Andhra Pradesh.

Dr. G. S. Gaur

- Presented a paper on ‘Low optimal luminance gives better Flash Visual Evoked Potentials (FVEP): An observational study of intra and inter-individual variability’ and chaired a scientific poster session in the 57th Annual conference of Association of Physiologists and Pharmacologists of India held at AIIMS, New Delhi in 14-17 December 2011.
• Participated as a delegate and presented a paper entitled “Immediate effect of suryamaskar on heart rate and blood pressure of normal human subjects at the 32nd annual conference of IABMS held at Punjab university, Chandigarh between 11th – 13th November 2011.

• Participated as a delegate in MEDUCON 2011 held at JIPMER, Pondicherry on 1st and 2nd October 2011

• Participated as a delegate in ISARCON 2011 held at JIPMER Pondicherry on 24th – 25th September, 2011.

Dr. Pravati Pal

• Chaired a free paper session on respiratory physiology and participated as a delegate in the 57th Annual conference of Association of Physiologists and Pharmacologists of India held at AIIMS, New Delhi in 14 -17 December 2011.

• Judged a poster sessions and participated as a delegate in the XXIII Annual National Conference of Physiological Society of India, held from 21st-23rd December, 2011 at NRI Medical College, Chinakakani, Andhra Pradesh.

Dr. Vivek Kumar Sharma

• Participated and presented paper titled, “Effect of Sahaj Yoga on neuro-cognitive functions in healthy volunteers” in the 5th state conference of association of physiologist of tamilnadu (APTCON 2011), conducted by dept of Physiology, CMC Vellore, on 7 and 8 October, 2011.

• Participated & presented paper titled, “Yogic management of obesity” in the “International conference on better world through yoga with allied sports sciences” organized by dept of yoga ,Tamilnadu physical education & sports university (TNPESU), Chennai from16.03.12 to 18.03.12

Dr. S. Velkumary

• Participated as a delegate in the 5th state conference of association of physiologist of Tamilnadu APTCON 2011 conducted by dept of Physiology CMC Vellore, on 7 and 8 October 2011,

• Participated & Presented a paper on “Role of yoga in Prediabetes” in the international conference on “Better life Better world through yoga with allied sports sciences” organized by dept of yoga Tamilnadu physical education & sports university Chennai on March 16 & 18 Feb. 2012.

RESEARCH PROJECTS

A. FUNDED PROJECTS

Intramural funded projects

Completed

• Assessment of autonomic functions in patients with polycystic ovary syndrome: correlation with body mass index, insulin resistance, lipid profile and thyroid profile. Dr. Saranya K (PG), guided by Dr. G K Pal. (Rs. 25,000)
• Gender difference in the role of VMH in high fat diet-induced and sucrose-induced obesity in albino rats of Wistar strain: correlation with insulin resistance, lipid profile and thyroid profile. Dr. Archana Gaur T (PG), guided by Dr. G K Pal. (Rs. 37,500)

**Ongoing**

• Effect of gender on autonomic dysfunctions in hypothyroidism: Correlation with BP, BMI, immunological and inflammatory markers. Mr. Naga Syam Sunder Kiran A (Ph. D), guided by Dr. Pravati Pal. (Rs. 50, 000)

• Gender difference in adiposity and immunological parameters in ventromedial hypothalamus and posterodorsal amygdala lesioned albino Wistar rats. Dr. Lalitha V (PG), guided by Dr. G K Pal. (Rs. 50, 000)

• Oxidative stress and inflammatory markers in pregnant women with risk factors for pregnancy induced hypertension: correlation with sympathovagal imbalance. Dr. Vidya Karpagam (PG), guided by Dr. G K Pal. (Rs. 50, 000)

• Inflammatory marker and cardiac dysfunctions in hypothyroidism: Correlation with sympathovagal imbalance. Dr. Shaikh Sameer Aijas (PG), guided by Dr. G K Pal. (Rs. 53, 000)

• Effect of yoga therapy on cardiac autonomic functions and oxidative stress in prehypertensive subjects: A randomized controlled study. Mr. Ramkumar T (Ph. D), guided by Dr. Pravati Pal. (Rs. 50, 000)

• Effect of yoga therapy on autonomic function tests and Biochemical profile of heart failure patients. Mr. Bandi Hari Krishna (Ph. D), guided by Dr. Pravati Pal. (Rs. 50,000)

**B. DEPARTMENTAL PROJECTS**

**Completed**

• 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.

• Effect of 12-week yoga therapy on cardiac autonomic functions in patients of essential hypertension – a randomized control study.

**Ongoing**

• Effect of yoga training on cognitive and autonomic parameters in healthy subjects. In collaboration with ACYTER, JIPMER

• Effect of yoga therapy on cognitive and autonomic parameters in patients of unipolar 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.

C. COLLABoration Projects

Ongoing

• Effect of slow and fast pranayams on cognitive and autonomic parameters in young healthy subjects, in collaboration with ACyTER, JIPMER.

PUBLICATIONS

A. Journals


3. Chandrasekaran K, Velkumary S, Samraj P. Influence of melatonin supplementation during sleep deprivation on speed & leg endurance in sports person. BNJPEES. June 2011; vol 3 (1) 4-11.


The following papers were presented during the 57th Annual conference of Association of Physiologists and Pharmacologists of India held at AIIMS, New Delhi in 14-17 December 2011

- Rajajeayukumar M, Madanmohan T, Amudharaj D, B. Harikrishna, Jeyasettiseloune, Bhavanani B. Immediate effect of suryanadi and chandranadi pranayam on short term heart rate variability in healthy young volunteers.

- Amudharaj D, Pal GK, Pravati Pal, Sridhar MG, Dutta TK. Autonomic functions in Obesity: Associations with anthropometric indices, lipid and thyroid profiles.

- Punita P, Madanmohan T, Swaminathan RP. Effect of 12 week yoga therapy on cardiac autonomic functions in patients of essential hypertension.
Nishanth S, Madanmohan T, Das AK, Ramkumar T and Senthilkumar S. Effect of 12 week yoga therapy as a lifestyle intervention in patients of type 2 diabetes mellitus with distal symmetric polyneuropathy


The following papers were presented during the 23rd Annual Conference of Physiological Society of India, held from 21st-23rd December, 2011 at NRI Medical College, Chinakakani, Andhra Pradesh.


Archana Gaur T, GK Pal, PH Ananthanarayanan, Pravati Pal. Gender difference in the role of VMH in high-fat and sucrose induced obesity in rats: correlation with lipid profile, thyroid profile and insulin resistance.

Saranya K, Pal GK, Habeebullah, A Narayanan. Assessment of autonomic functions in patients with polycystic ovary syndrome: correlation with BMI, insulin resistance, lipid and thyroid profile.

Dr. Punita P, Madanmohan T, Swaminathan RP. Effect of yoga therapy on cardiac autonomic functions in patients of essential hypertension.

Hari Krishna Bandi, Madanmohan T, Balachander J, Jeyasettiseloune E. Effect of 5 minutes chandranadi pranayam on short-term heart rate variability in heart failure patients.

The following papers were presented during the “International conference on better world through yoga with allied sports sciences” organized by dept of yoga, Tamilnadu physical education & sports university (TNPESU), Chennai from 16.03.12 to 18.03.12

Dinesh T, Madanmohan T, Gaur GS, Sharma VK, Harichandrakumar KT. Effect of pranayama on pulmonary function parameters in young healthy volunteers.

Rajajeyakumar M, Madanmohan T. Effect of pranayama on sympathovagal balance.

Hari Krishna Bandi, Madanmohan, Balachander J, Jayasettiaselon E, Bhavanani AB. Immediate effect of shavasana on short term heart rate variability in heart failure patients, presented in the International Conference on Cardiovascular Research Convergence held in February 2012, at AIIMS, New Delhi.

B. Books


PATIENT CARE SERVICES

Laboratory

1. Electrophysiology laboratory
   I. Nerve conduction studies ... 545
   II. Electromyography ... 58
   III. Evoked potential ... 137

2. Autonomic Function Test Laboratory
   I. Autonomic Function Tests ... 678
   II. Tilt Table Tests ... 32
   III. Phonocardiogram ... 11

3. Pulmonary Function Tests ... 465

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr. Madanmoham Trakroo

• Honoured with DSc (Yoga) by SVYASA University, Bengaluru on January 12, 2012. This prestigious award was bestowed upon him in recognition of his yeoman service towards the cause of scientific validation of yoga

Dr. G. K. Pal

• Received the prestigious B. K. Anand Research Prize of the Association of Physiologists and Pharmacologists of India (APPI), for the best research paper in Physiology for the year 2011, during the 57th Annual conference of APPI held at AIIMS, New Delhi from 14-17 Dec 2011.

• Was elected as Editor (Physiology) of Indian Journal of Physiology and Pharmacology for the second term for a period of three years from 2012 to 2014, in the general body meeting of APPI held at AIIMS, New Delhi ON 16th December, 2011.

• Participated as resource faculty in the National Seminar on “Ethics of Medical Research and Publication” held at Al-Ameen Medical College, Bijapur, Karnataka, on 23rd July, 2011. Dr. Pal delivered the key note address in the seminar on the topic “Ethics of Medical Publication : Role of Editors of Medical Journals of India”.

• Received the fellowship award and title FABAP from the Association of Biotechnology and Pharmacy.

• Received fellowship title FSAB from Society of Applied Biotechnology of India for his outstanding contribution in the field of medical biotechnology.

Dr. G. S. Gaur

• Undergone WHO fellowship training on “Health impact assessment” held at University of Liverpool, U.K from 19th to 23rd march 2012 .

• Received the certificate of appreciation Prashasti-Patra at the national conference of Tamilnadu Hindi Sahitya academy Chennai held at University of Pondicherry between 2nd – 3rd December for working towards implementation of official language.
Dr. Pravati Pal
- Nominated as Associate Editor of Indian Journal of Physiology and Pharmacology for the second term for the year 2012-2014.

Dr. S. Velkumary
- Completed M.Sc. Course in Yoga in Tamilnadu Physical Education & Sports University, Chennai in May 2011

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. Madanmohan
- Member, JIPMER Scientific Advisory Committee
- Chairman of Official Language Implementation Committee
- Chairman of JIPMER Condemnation Committee
- Member of purchase committee, JIPMER.
- External examiner for MD, Ph D, MBBS and other paramedical courses at JIPMER and other institutes/universities.
- Guided two Ph D students and two MD student and co-guide for one MD student during this period.
- Recognized Ph. D. guide

Dr. G. K. Pal
- Vice–President of South Asian Association of Physiologists (SAAP)
- Officer-in-Charge of Central Workshop of JIPMER
- Editor (Physiology) of Indian Journal of Physiology and Pharmacology
- Posted as Chief Supervisor to conduct JIPMER MBBS entrance examination, Bhopal center from 03.06.11 to 07.06.11
- Chairman for committee for condemnation of old and obsolete books in the central library of JIPMER.
- Member of JIPMER staff canteen management committee since 2007.
- Member of JIPMER news and annual report committee.
- Member of JIPMER telephone committee and central stores purchase committee.
- Officer In-Charge of Department store for more than 15 years.
- Officer In-charge of departmental PG programme and Ph.D. Programme.
- Member of the International advisory board of Al-ameen journal of Medical Sciences (indexed in pub med).
- Examiner for DNB courses in Physiology at National Board of Examinations, New Delhi.
- Member of selection committee for Ph D scholars and the committee for deciding course
• Curriculum for M D and Ph D courses in Rajeev Gandhi University Health Sciences, Bangalore, Karnataka.
• Guided six M D students and was co-guide for three Ph D students during this period.
• Author of two textbooks of Medical Physiology and two textbooks of Practical Physiology.
• Reviewer for Indian Journal of Experimental Biology, Medical Science Monitor, Japanese
• Examiner for M. B. B. S., M. D. and Ph D courses in Tamilnadu Dr. M. G. R. Medical University, Rajeev Gandhi University of Health Sciences, Bangalore, Annamalai University, Chidambaram, Pondicherry University and medical colleges in Orissa, Maharashtra, Kerala, Gujarat and West Bengal.
• Recognized Ph. D. guide

Dr. G. S. Gaur
• MCI inspector for verifying facilities available for starting MBBS course at Malda Government Medical College and hospital, Malda, West Bengal in April 2011.
• Guided two M.D. student and was co-guide for one M.D. student and one Ph. D. student.
• 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.
• Expert for doctoral committee for Ph D at Sathyabama University in November 2011 and January 2012.
• Examiner on panel for Diplomat National Board (DNB) New Delhi.
• Continued to be core committee executive member of NTTC Alumni Association in 2010-2011 worked for organizing the N.T.T.C. Alumni Association Conference MEDUCON-2011.
• Teaching-in-charge for B Sc Nursing and also Officer-in-charge of electrophysiology lab.
• Nominated secretary of TOLIC Pondicherry.
• Nominated as an officer in charge for condemnation of obsolete and unserviceable items of JIPMER OPD.

Dr. Pravati Pal
• Member of advisory board of Biomedicine, the journal of Indian Association of Biomedical Scientists for the year 2011.
• Reviewer for Indian Journal of Physiology and Pharmacology, Biomedicine and Al-Ameen journal of Medical Sciences during this period.

• Guided three Ph D students and was co-guide for one M D student and one Ph D student during this period.

• Examiner for M.B.B.S., M.D. and Ph D courses in Tamilnadu Dr. M. G. R. Medical University, Rajeev Gandhi University of Health Sciences, Bangalore, Annamalai University, Chidambaram, Pondicherry University, and Calcutta University.

• Teaching –in-charge MBBS and M. Sc. (Medical Biochemistry)
• Officer- in-charge for animal research laboratory of the department

• Nominated as an officer in charge for condemnation of obsolete and unserviceable items of JIPMER horticulture department.

• Recognized Ph. D. guide

Dr. Vivek Kumar Sharma

• Co-guide for two MD students.

• Officer-in-charge for department library.

• Posted to conduct invigilation for JIPMER MBBS entrance examination, Delhi center from 03.06.11 to 07.06.11

• Examiner for paramedical course MRT/MRO, BSc (AMS)

• Member in the Publicity Committee for the 2nd Convocation of JIPMER

Dr. S. Velkumary

1. Examiner for various paramedical & M.B.B.S courses in JIPMER & Pondicherry University.

2. Co guide for one MD student

8.30 Plastic Surgery

Additional Professor & Head
Ravi Kumar Chittoria (from 23.03.2012)

Assistant Professors
Friji M.T.
Devi Prasad Mohapatra
Dinesh Kumar S.

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 in February, March, April 2012 respectively and Dr. Ravi Kumar Chittoria joined as Additional Professor & Head in March 2012.

**Bed Strength:** The department started with 14 General Ward Beds. In 1987 it was 18 Beds with inclusion of 4 ICU beds. After shifting to 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.

**EDUCATIONAL COURSES**

**Undergraduate Courses**
- The Department continues with its undergraduate teaching program. It holds regular classes for Undergraduate MBBS students. The 4th semester MBBS students are given lectures on Basic Principles of Plastic Surgery, Maxillofacial Injuries, Craniofacial Anomalies, etc.
- B.Sc (Nursing) 7th semester students were given bed side training in the plastic surgery ward for a period of one month.

**Postgraduate Courses**
- The faculties were involved in teaching and training of Junior Resident (Postgraduate) students of MS General Surgery, Orthopedic Surgery and ENT during their peripheral posting in the department of Plastic Surgery by giving didactic lectures, moderating seminars, journal clubs, etc. and clinical teaching during ward rounds.
- Master in Physiotherapy students from Mother Theresa Institute had given hands on training for the rehabilitation of patients with hand injury and burn wound contracture prevention.

**CONTINUING MEDICAL EDUCATION PROGRAMMES**

**Dr. Friji M.T**
- Emergency management of severe burns course 2012 by Dutch Burn Foundation and Australian and NEW Zealand Burn Association at New Delhi 6th February 2012.
- Emergency management of severe burns course, Training the Trainers Course 2012 by Dutch Burn Foundation and Australian and NEW Zealand Burn Association at New Delhi 7th February 2012.
- Interactive Seminar on Research Design at JIPMER on 17th September 2011.

**Dr. Devi Prasad Mohapatra**
- Microvascular training programme, Amrita institute of medical sciences, Kochi 20-26 June 2011
• National teachers training course for teachers in medical education
• AOCMF course- principles of craniomaxillofacial fracture management, 28-30 October 2011, Hyderabad
• Pre conference course in nasoendoscopy and secondary speech surgery on during Indocleftcon 2012, 26-28th January 2012.

CONFERENCES

Dr. Friji. M.T
• Attended APSI Ethicon Craniomaxillofacial Instructional Course on 14 & 15th May 2011.
• Attended 46th Annual Conference of Association of Plastic Surgeons of India held from 7th to 11th September 2011 at Coimbatore.
• Attended AOCMF Course in Principles in Craniomaxillofacial fracture management from 5th to 7th March 2011 in Lucknow.

Dr. Deviprasad Mohapatra
• Participated in the 5th Annual National conference of Society for wound care ad Research held from 11th to 13th November 2011 at New Delhi.
• Participated in 11th annual conference of the Indian society of cleft lip and Palate-Indocleftcon, 26th – 28th January 2012 at Bangalore.
• Participated in 64th national course on educational science for health professionals at JIPMER, Puducherry, 15-25th February, 2012.

Dr. Dinesh Kumar S.
• Participated in the 46th Annual Conference of “Association of Plastic Surgeons of India” at Coimbatore from 7th to 11th September 2011.
• Participated in the Annual Conference of the Indian Association of Aesthetic Plastic Surgeons at Kodaikanal from 29th to 31st March 2012
• Attended the ISAPS Course 2012 at Goa form 20th - 22nd January 2012.

RESEARCH PROJECTS

Ongoing
• Association of Cleft Lip & Palate with handedness among Patients with Cleft Lip & Palate in South Indian Population.
• Effect of Stromal Vascular Fraction of Lipoaspirate on Tissue Regeneration in patients with Atrophic Rhinitis – A double blind Randomized control trial
• Speech Handicap Index in Patients with Oro-facial and Neck contracture
• Evaluation of effectiveness of limited access dressing in the management of Type IIIA and Type IIIB open fractures with extensive soft tissue (with Department of Orthopedics)
• Comparison of micro skin grafting and transplantation of non-cultured Melanocyte keratinocyte suspension for the treatment of stable vitiligo (with Department of Dermatology)
PUBLICATIONS

Journals


Book Chapters


Text Book

Chittoria RK. Wound Management For Nurses (in Press).

Dr. Friji.M.T


Dr. Deviprasad Mohapatra


PATIENT CARE SERVICES

OPD : Two times in a week (Tuesday and Thursday)
Main OT : Three times in a week (Monday, Wednesday, Friday & alternate Tuesdays)
Laser OT : Monday to Friday
Minor OT : Monday to Friday
Nasal Endoscopy - Monday to Friday
Supportive Services to Different Departments including Department of Surgery, Oncology, Paediatric Surgery, Urology and Obst and Gynaecology.

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr. Ravi Kumar Chittoria

- Recieved prestigious ‘Bharat Jyoti Award-2011’.
- Member of ‘Indian Association of Surgical Oncologists’.

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• Member of Association of Gynaecological Endocrine Society of India (GESI).
• Member of International Society for Infectious Diseases (ISID).
• Member of National Academy of Burns-India (NABI).
• Member of ‘World Antiaging Network’.
• Member of Editorial Board of ‘Clinical Reviews & Oponions (CRO) Journal’.
• Member of Editorial Board of Medical Practice & Reviews (MPR) Journal.
• Member of Organising Committee of ‘Annual Conference of Society of Nuclear Medicine (Southern Chapter) held at SVIMS Tirupati On 23-24 July 2011.
• ‘Reviewer’ of Editorial Board of ‘Indian Journal of Medical Sciences (IJMS)’ in Oct 2011.
• ‘Member’ of Advisory Board of ‘Journal of Web Med Central’ U.K on 23 Nov 2011.

Dr. Friji.M.T.
• Life Member Indian Medical Association
• Life Member Society for Wound Care and Research India

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. Ravi Kumar Chittoria
• Elected as ‘President-Elect’ for Year 2013 of ‘Society for Wound Care & Research (Swcr)’ in GBM Elections Held in Conference ‘Swcrcon-2011’ In Delhi From 11 to 13 Nov 2011.
• Selected As ‘Question Paper Setter’ for Mch (Plastic Surgery) by Utkal University, Orissa in Nov 2011.
• Nominated as Member of Committee of Arogyasri Scheme to Examine Pros & Cons of of Issue Related to Payment to Faculty Under Arogyasri Scheme in Andhra Pradesh on 20 Jan 2011.
• Nominated as ‘Course Director’ in Feb 2012 by President & Organising Chairman IPA for ‘Podiatry Course’ organised by ‘Indian Podiatry Association (IPA) in New Delhi from April to July 2012.

Dr. Friji M.T.
• Dr. Friji.M.T.was selected as a faculty by Australian & NewZealand burn association
• Incharge of Departmental Library
• In charge of Departmental store of Plastic Surgery
• Officer in charge of Right to information for department of plastic surgery
Pondicherry University inspector for the post graduate courses
Co –Guide for 2 post graduate students from department of Orthopedics and Dermatology
Member of selection committee for speech therapist in JIPMER
Member Medical board to assess disability

Dr. Dinesh Kumar. S.
• Officer-in-charge of Burns Unity 5th floor EMS.
• Member of Bid Evaluation Committee, Noida, New Delhi.

SIGNIFICANT EVENTS IN THE DEPARTMENT
• Dr. Ravi Kumar Chittoria joined as Additional Professor & Head in the department of Plastic Surgery
• Free functioning Microvascular Muscle transfer for facial reanimation in facial nerve palsy done in department
• Microvascular reconstruction of Bilateral breast in a single sitting completed successfully for the first time in JIPMER
• First successful Fingertip replantation carried out in the department of Plastic Surgery.
• Miscellaneous Activities by Non-faculty Staff

Following Conferences were attended by Manju Mohan P, Speech Therapist
- Participated in the Amrita Head and Neck Supportive Oncology Meet on “Swallowing Issues in Head and Neck Cancer” held on 27th February 2012 at Amrita Institute of Medical Sciences at Kochi, Kerala
- Attended the Continuing Rehabilitation Education (CRE) Programme on “Acoustical and Perceptual Analysis of Voice and Speech” held from 20.12.11 to 22.12.11 at National Institute of Speech and Hearing, Trivandrum
- Participated in the One day Interactive Seminar on “Research Designs: Sampling and Basic Steps involved in Project Formulation” conducted on 17.09.11 at Jawaharlal Institute of Postgraduate Medical Education and Research (JIPMER)
- Participated in the “National Symposium on Exploring Areas of Research in Cognitive Sciences”, All India Institute of Speech and Hearing, June 30th and July 1st, 2011.

8.31 Preventive and Social Medicine

Director & In-charge
TS Ravikumar

Professors
Gautam Roy
KC Premarajan

Assistant Professors
Sonali Sarkar       Ganesh Kumar S
Sitanshu Sekhar Kar   Swaroop Kumar Sahu

BACKGROUND INFORMATION OF THE DEPARTMENT
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 Courses
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, Behavioural 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. Practical learning exercises on epidemiology, disaster management, injury prevention, health economics, inventory control, nutrition demonstration, tribal health, geriatric health are also included in the fourth and fifth semesters. During Community Diagnosis posting at
fifth semester students are given hands on experience in conducting a research for a specific epidemiological topic. Under the Family Health Advisory Programme (FHAP), fourth and fifth 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. In sixth and seventh semester, Public Health Administration concepts are dealt in detail. Concept of Primary Health Care is reinforced through 15 days posting on “Revitalizing Primary Health Care”. 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.

**Postgraduate Courses**

Total numbers of PGs are 13. 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 Paediatrics, Obstetrics & Gynaecology, Microbiology, Trauma care 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. During the final year, PG students are posted in offices of the various National Health programs, to gain practical exposure in field monitoring and program review.

**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 and all of them completed the course in July 2011. 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 & Behavioural 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.

**CONTINUING MEDICAL EDUCATION PROGRAMS**

**Dr. Gautam Roy**

1. Resource person to deliver a guest lecture on Diabetes prevention in the community as part of training programme organized by IGMC& RI, Puducherry, on 29.04.11.
2. Delivered the lead talk in monthly meeting of JSS on “Prevention: Don’t make me laugh” on 29.04.11.
3. Resource person at a workshop for Medical Officer on Diabetes organized by IGMC & RI, Puducherry on 29th July 2011.
5. Resource Person in “Orientation Programme on Influenza A H1N1 for JIPMER Nursing staff” on 17.08 and 18.08.2011.

6. Participated in a two day finalization workshop at JIPMER, on “Health Promoting Hospital Manual Development” sponsored by the WHO Country Office for India on November 29th and 30th 2011.

7. Dr Gautam Roy acted as the Resource Person and was the Course Director in the “Short Course on Basic Epidemiology” conducted by the department of PSM from 14th to 19th November 2011.

Dr. K.C. Premarajan
1. Delivered a talk on “Combating the Killer Disease – Dengue and DHF” at the national CME on Vector Borne Diseases organized by PIMS, Puducherry on 26.08.11.

2. Attended the national CME on “Vector Borne Diseases” organized by PIMS, Puducherry on 26.08.11.


4. Resource Person in the “Short Course on Basic Epidemiology” conducted by the department of PSM from 14th to 19th November 2011.

Dr. Sonali Sarkar
1. Delivered a lecture on “Basic Biostatistics” in a workshop on Research methodologies and writing a Research paper at Sri Aurobindo Ashram, Puducherry on 1st may, 2011.

2. Attended the national CME on “Vector Borne Diseases” organized by PIMS, Puducherry on 26.08.11.

3. Resource Person & Course Coordinator in the “Short Course on Basic Epidemiology” conducted by the department of PSM from 14th to 19th November 2011.

4. Participated in a workshop on "What and How to treat Community Medicine" organized by IGMC&RI, Puducherry on 3rd August 2011.

Dr Ganesh Kumar.S
1. Delivered a talk on Public health aspects of Antimicrobial Resistance on the occasion of World Health Day celebration organized by Department of Pharmacology, JIPMER, on 7th April 2011.


3. Attended PGDPHM partner institutes meeting on 17.10.2011 at NIHFW, New Delhi.

4. Resource person on the topic ‘Measurement and Data Quality’ in the 2nd International Conference on aspire to inspire through nursing research, at Mother Theresa Post Graduate and Research Institute of Health Sciences, Puducherry held from 05.01.2012 to 07.01.2012.
5. Resource Person in the “Short Course on Basic Epidemiology” conducted by the department of PSM from 14th to 19th November 2011.

6. Attended the national CME on “Vector Borne Diseases” organized by PIMS, Puducherry on 26.08.11.

Dr. Sitanshu Sekhar Kar

1. Attended the PGDPHM examination coordination meeting held at NIHFW, New Delhi on 07.06.11, organized by PHFI and NIHFW, New Delhi.

2. National Consultation to Review Non communicable Diseases in India: Building a Case for Strengthening Public Health Response was attended by Dr Sitanshu Sekhar Kar at Conference Room, National Institute of Pathology, Safdarjung Hospital campus, New Delhi, on 29.06.11. Dr Kar acted as a panelist in the panel discussion on “CVD prevention: issues and challenges”.

3. Resource Person in “Orientation Programme on Influenza A H1N1 for JIPMER Nursing staff” on 17.08 and 18.08.2011.


6. Resource person at the 63rd & 64th round of National Teachers Training Course organized by Department of Medical Education at JIPMER, Puducherry from 5th to 15th September 2011 and 15th to 25th February 2012 respectively.

7. Attended an one day programme in the capacity of internal mentor of Dr Subitha L, Senior Resident for a project on “Feasibility of implementing a Diabetes Registry in Primary Health care Setting in Puducherry” as part of Health Research Mentorship Program-2011 conducted by St John's Research Institute (SJRI), Bangalore; Population Health Research Institute, McMaster University, Canada; and Indian Cardiovascular Research and Advocacy Group at SJRI, Bangalore on 19th September 2011.


9. Member of the organizing committee on MEDUCON-2011 organized by AANJ & Dept of Medical Education, JIPMER, Puducherry held at 29-1st October 2011 at JIPMER, Puducherry.

10. Participated and presented an invited talk on “How to develop a Health promoting Hospital” in a two day workshop sponsored by WHO country office, India for finalization of “Health Promoting Hospital Manual Development” at JIPMER, on Nov 29th and 30th 2011.

11. Attended two days workshop on module writing in the capacity of an author on Operations Research in RCH programme on 16th – 17th January 2012 conducted by Indian Institute of Public Health (IIPH), New Delhi.
12. Resource Person in the “Short Course on Basic Epidemiology” conducted by the department of PSM from 14th to 19th November 2011.

13. Attended the national CME on “Vector Borne Diseases” organized by PIMS, Puducherry on 26.08.11.

Dr. Swaroop Kumar Sahu

1. Attended meeting of ICDS project organized by NIPCCD, New Delhi at Bangalore on 25.09.2011.

2. Resource Person in the “Short Course on Basic Epidemiology” conducted by the department of PSM from 14th to 19th November 2011.

CONFERENCES

Dr. Sonali Sarkar

• Attended and presented a scientific paper on Anemia in pregnant women: the invincible scourge? at 39th National Conference of IAPSM at Kangra, Himachal Pradesh from 27.02.2012 to 29.02.2012.

• Presented a paper titled ‘Teaching epidemiology to health professionals: Workshop method’ in MEDUCON 2011 organized by AANJ and department of Medical Education JIPMER, Puducherry on 02.10.2011.

Dr. Ganesh Kumar S

• Attended and presented a scientific paper on Low vision and its associated factors among school children in rural Puducherry, India at 56th National Conference of IPHA at Kochi, Kerala from 09.02.2012 to 12.02.2012.


Dr. Sitanshu Sekhar Kar

• Attended and presented a scientific paper on “Influenza A H1N1: experience from JIPMER” at 56th National Conference of IPHA at Kochi, Kerala from 09.02.2012 to 12.02.2012.

• Presented a paper in Meducon 2011 on “Student centred learning: are students ready? A case study from JIPMER, Puducherry” on 2nd October 2011, organized by AANJ and department of Medical Education, JIPMER, Puducherry.

• Coauthored a paper titled “Intricacies of hepatic coagulopathy- study of 110 patients from a tertiary care super specialty institute in North India”, presented in the 14th annual CME 2011 of the International Academy of Pathology-Indian Division (IAP-ID) held on 1st and 2nd October at PGIMER, Chandigarh.

Dr. Swaroop Kumar Sahu

• Attended and presented a scientific paper on ‘Student’s perspective on student’s presentations and Faculty lectures’ at 39th National Conference of IAPSM at Kangra, Himachal Pradesh from 27.02.2012 to 29.02.2012
RESEARCH PROJECTS

**Ongoing**

1. Trend of permanent sterilizations in women after implementation of family planning insurance scheme (Investigator: Dr Sonali Sarkar, approved by JSAC & Institute Ethics Committee)

2. Community based prevalence of antimicrobial resistance in the gram negative aerobic enteric bacteria in Pondicherry (Inter-Departmental project with microbiology department, Dr Sonali Sarkar and Dr Gautam Roy as co-investigators)

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)

6. An inter institutional project titled, “Assessing the Effectiveness of Community Leaders in Driving Mass Diabetes Screening Program at Primary Health Centres - A Community Intervention Study” approved by JSAC. (Investigator: Dr Swaroop Sahu)

7. “Assessing the level of Physical Activity among the Undergraduate Medical Students in JIPMER, Pondicherry”. Suneha Kumari, Dr Gautam Roy. Approved by ICMR Short Term Studentship 2012.


9. Quality of life in cervical cancer patients on follow up care in the regional cancer center in JIPMER. Saishree Pradhan, Dr Sonali Sarkar. Approved by ICMR Short Term Studentship 2011 and completed.


13. A student project titled ‘Knowledge and attitude of adolescent girls in Pondicherry on family formation’ by Aarthi G and guided by Dr KC Premarajan.
14. Student project titled ‘Factors related to compliance of antiretroviral therapy in HIV/AIDS patients in a tertiary care hospital’ by Abyramy Balasundaram and guided by Dr Sonali Sarkar.

15. Student project titled ‘Prevalence and factors influencing pattern of tobacco use among school children in urban Puducherry’ by Ms. Jyoti Baghel and guided by Dr Sitanshu Sekhar Kar.

16. A student project titled, “Impact of free sanitary napkin distribution among the adolescent girls attending schools” by K.Devada Sindhu, IIIrd year MBBS student, JIPMER, Puducherry and guided by Dr Swaroop Kumar Sahu.

Following Postgraduate dissertation works are guided by the faculty.

<table>
<thead>
<tr>
<th>Sl. 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 Diabetes 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>7.</td>
<td>Dr. Vinayagamoorthy . V</td>
<td>Health education intervention on personal hygiene among urban school children in Pondicherry</td>
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<td>8.</td>
<td>Dr. Iswarya . S</td>
<td>Risk factors of colorectal carcinoma: A case control study</td>
</tr>
<tr>
<td>9.</td>
<td>Dr. Archana R</td>
<td>Medicosocial conditions and quality of life of the elderly in rural Puducherry</td>
</tr>
<tr>
<td>10.</td>
<td>Dr. B. N. Naik</td>
<td>Incidence of injuries in rural and urban areas of Pondicherry</td>
</tr>
<tr>
<td>11.</td>
<td>Dr. Suman Saurabh</td>
<td>Evaluation of DOTS calendar intervention in urban Puducherry: A cluster randomized controlled trial</td>
</tr>
</tbody>
</table>
PUBLICATIONS

A. Journals


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 Vaithikupam since 1983. The facility was temporarily shifted from the building in Kurusukuppam to a Community Hall in Vazhakulam to facilitate demolition of old dilapidated building and construction of new structure in the original site at Kurusukuppam. 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&M, 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 2011 to March 2012

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>SERVICE</th>
<th>RHC</th>
<th>UHC</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>No of Villages / Wards</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>2.</td>
<td>Population</td>
<td>9,101</td>
<td>8,633</td>
</tr>
<tr>
<td>3.</td>
<td>OPD Attendance</td>
<td>19,844</td>
<td>31,065</td>
</tr>
<tr>
<td></td>
<td>Average for month</td>
<td>1,654</td>
<td>2586</td>
</tr>
<tr>
<td>4.</td>
<td>Emergencies</td>
<td>4,781</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Average for month</td>
<td>398</td>
<td>-</td>
</tr>
<tr>
<td>5.</td>
<td>Chronic Illness Clinic conducted</td>
<td>50</td>
<td>52</td>
</tr>
<tr>
<td></td>
<td>Patients attending clinic every month</td>
<td>254</td>
<td>530</td>
</tr>
<tr>
<td>6.</td>
<td>TB Report</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>A. DOTS - Category 1</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>DOTS - Category 2</td>
<td>5</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>DOTS - Category 3</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>B. NON - DOTS</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>7.</td>
<td>Antenatal Clinics Conducted</td>
<td>45</td>
<td>47</td>
</tr>
<tr>
<td></td>
<td>New ANC Registered</td>
<td>116</td>
<td>114</td>
</tr>
<tr>
<td>8.</td>
<td>Under-five Clinics Conducted</td>
<td>51</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>New Under-five children registered</td>
<td>143</td>
<td>136</td>
</tr>
<tr>
<td>9.</td>
<td>Immunization</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>A. Antenatal</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TT 1 dose</td>
<td>93</td>
<td>90</td>
</tr>
<tr>
<td></td>
<td>TT 2 dose</td>
<td>92</td>
<td>89</td>
</tr>
<tr>
<td></td>
<td>Boost</td>
<td>15</td>
<td>11</td>
</tr>
</tbody>
</table>
Laboratory services include basic investigations like hemoglobin estimation, blood sugar, urine examination and pregnancy tests. 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 GFATM (Global Fund for AIDS, Tuberculosis and Malaria) training, MDA training and Maternal and Child Health Training conducted by NRHM, Puducherry.

AWARDS, HONOURS AND SIGNIFICANT EVENTS

**Dr. Ganesh Kumar S**
- Reviewer for Kathmandu University Medical Journal.

**Dr. Sitanshu Sekhar Kar**
- Selected for the Foundation for Advancement of International Medical Education and Research (FAIMER) fellowship for the year 2012-2014.

**Dr. Swaroop Kumar Sahu**
- Reviewer in Indian Journal of Community Medicine.

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

**Dr. Gautam Roy**
- Member of core committee for Intern’s orientation programme.
- Member of Hospital Nutrition Committee
- Member of House Allotment Committee
- Member of task force for implementation of RNTCP for Medical officers.
- Guide for 4 Postgraduate dissertations.
- External examiner for UG and PG to Orissa, RGUHS Karnataka, MGR University.
- Evaluated Theory papers for DNB course in Community Medicine
- National Consultant for ICDS Monitoring Project by NIPPCD

<table>
<thead>
<tr>
<th></th>
<th>B. Children</th>
<th>C. School Children</th>
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<tbody>
<tr>
<td></td>
<td>DPT + OPV 1 dose</td>
<td>152</td>
</tr>
<tr>
<td></td>
<td>DPT + OPV 2 dose</td>
<td>150</td>
</tr>
<tr>
<td></td>
<td>DPT + OPV 3 dose</td>
<td>164</td>
</tr>
<tr>
<td></td>
<td>DPT + OPV Booster</td>
<td>130</td>
</tr>
<tr>
<td></td>
<td>Hepatitis B 1 dose</td>
<td>147</td>
</tr>
<tr>
<td></td>
<td>Hepatitis B 2 dose</td>
<td>149</td>
</tr>
<tr>
<td></td>
<td>Hepatitis B 3 dose</td>
<td>161</td>
</tr>
<tr>
<td></td>
<td>Measles</td>
<td>131</td>
</tr>
<tr>
<td></td>
<td>MMR</td>
<td>90</td>
</tr>
<tr>
<td></td>
<td>DPT at 5 Yrs</td>
<td>125</td>
</tr>
<tr>
<td></td>
<td>TT at 10 Yrs</td>
<td>152</td>
</tr>
<tr>
<td></td>
<td>TT at 16 Yrs</td>
<td>147</td>
</tr>
<tr>
<td></td>
<td>DPT + OPV 3 dose</td>
<td>164</td>
</tr>
<tr>
<td></td>
<td>DPT + OPV Booster</td>
<td>130</td>
</tr>
<tr>
<td></td>
<td>Hepatitis B 1 dose</td>
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</tr>
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<td>Hepatitis B 2 dose</td>
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</tr>
<tr>
<td></td>
<td>Hepatitis B 3 dose</td>
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</tr>
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<td></td>
<td>Measles</td>
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</tr>
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<td></td>
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<td></td>
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</tr>
<tr>
<td></td>
<td>DPT + OPV 3 dose</td>
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</tr>
<tr>
<td></td>
<td>MMR</td>
<td>90</td>
</tr>
</tbody>
</table>

|                      | DPT + OPV 1 dose                                | 152               |
|                      | DPT + OPV 2 dose                                | 150               |
|                      | DPT + OPV 3 dose                                | 164               |
|                      | DPT + OPV Booster                               | 130               |
|                      | Hepatitis B 1 dose                              | 147               |
|                      | Hepatitis B 2 dose                              | 149               |
|                      | Hepatitis B 3 dose                              | 161               |
|                      | Measles                                         | 131               |
|                      | MMR                                             | 90                |

|                      | DPT + OPV 1 dose                                | 152               |
|                      | DPT + OPV 2 dose                                | 150               |
|                      | DPT + OPV 3 dose                                | 164               |
|                      | DPT + OPV Booster                               | 130               |
|                      | Hepatitis B 1 dose                              | 147               |
|                      | Hepatitis B 2 dose                              | 149               |
|                      | Hepatitis B 3 dose                              | 161               |
|                      | Measles                                         | 131               |
|                      | MMR                                             | 90                |

|                      | DPT + OPV 1 dose                                | 152               |
|                      | DPT + OPV 2 dose                                | 150               |
|                      | DPT + OPV 3 dose                                | 164               |
|                      | DPT + OPV Booster                               | 130               |
|                      | Hepatitis B 1 dose                              | 147               |
|                      | Hepatitis B 2 dose                              | 149               |
|                      | Hepatitis B 3 dose                              | 161               |
|                      | Measles                                         | 131               |
|                      | MMR                                             | 90                |

|                      | DPT + OPV 1 dose                                | 152               |
|                      | DPT + OPV 2 dose                                | 150               |
|                      | DPT + OPV 3 dose                                | 164               |
|                      | DPT + OPV Booster                               | 130               |
|                      | Hepatitis B 1 dose                              | 147               |
|                      | Hepatitis B 2 dose                              | 149               |
|                      | Hepatitis B 3 dose                              | 161               |
|                      | Measles                                         | 131               |
|                      | MMR                                             | 90                |
Dr. K. C. Premarajan
• Guide for 4 postgraduate residents.
• Faculty In Charge of Undergraduate teaching programs of the department of PSM and Rural Health Center, Ramanathapuram.
• Deputy Warden for Lister, Osler, Aschoff house.
• Postgraduate thesis evaluator for Ramachandra university, Porur, Chennai and KLE University Belgaum, Karnataka.
• Internal examiner of MD and MBBS at JIPMER.
• National Consultant for ICDS Monitoring Project by NIPPCD

Dr. Sonali Sarkar
• In charge of Postgraduate studies and guide for 2 postgraduates
• Actively engaged in UG, PG and PGDPHM teaching activities
• Assisted in smooth functioning of RHC activities
• ICDS Consultant and Monitored the ICDS activities in Union Territory of Puducherry
• External examiner for PGDPHM Course
• Member of JIPMER Official Language Implementation Committee
• Course coordinator for 2nd Short course on Basic Epidemiology

Dr. Ganesh Kumar S
• In charge of PGDPHM course.
• National Consultant for ICDS Monitoring Project by NIPPCD.
• Assisted in coordinating ICDS project activities.
• External examiner for Undergraduate MBBS course in Manipal University
• Actively engaged in PG and PGDPHM teaching.
• Assisted in smooth functioning of RHC activities.

Dr. Sitanshu Sekhar Kar
• Influenza A H1N1 Nodal Officer and Member of the Influenza A H1N1 coordination committee at JIPMER, Puducherry for the year 2010-11.
• In charge of Integrated Disease Surveillance Project (IDSP) activities and the department of PSM acts as the nodal department for IDSP activities.
• Actively engaged in UG (MBBS, BSc MLT), PG and PGDPHM teaching and assisted in planning and implementation of Community Diagnosis postings.
• Selected as a reviewer of dissertation for MPH course by PGIMER, Chandigarh.
• Monitored the ICDS activities in Union Territory of Puducherry.
• Assisted in smooth functioning of UHC activities.
• Member of Health Promoting Hospital Committee of JIPMER, Puducherry.
• Member of Editorial Team for “Operational Manual on Development of Health Promoting Hospitals in India”, GOI-WHO India funded project - 2010-11.
• Editorial team member for JIPMER annual report and NTTI Bulletin.

Dr. Swaroop Kumar Sahu
• Faculty In-Charge for ICDS Monitoring Project by NIPPCD
• Actively engaged in UG and PG teaching and assisted in planning and implementation of Community Diagnosis postings.
• Monitored the ICDS activities in Union Territory of Puducherry.
• Assisted in smooth functioning of UHC activities.

SIGNIFICANT EVENTS IN THE DEPARTMENT
• Dr. Arun Ghorpade presented a poster scientific paper on ‘Incidence of Diabetes Mellitus over 3 years in rural Pondicherry, India: Population based study’ at World Diabetes Congress, 5th to 8th December 2011 at Dubai conducted by International Diabetes Federation.
• Dr. Ishwarya, Junior resident presented a paper titled ‘Study of Factors Affecting the Compliance to Treatment among Patients with Type II Diabetes Mellitus Attending the Urban Health Centre, JIPMER’ at 56th National Conference of IPHA at Kochi, Kerala from 09.02.2012 to 12.02.2012.
• Dr. Archana R, Junior resident presented a paper at MEDUCON 2011 on “Perception of MBBS students towards community diagnosis posting in the department of PSM, JIPMER” on 2nd October 2011 organized by AANJ & Dept of Medical Education, JIPMER, Puducherry.
• Dr. Archana R, Junior resident presented a paper on ‘Use of Electronic Media and Awareness of Health Related Advertisements among the School Students of Classes 6-9 in JIUHC and JIRHC Service Areas’ at 56th National Conference of IPHA at Kochi, Kerala from 09.02.2012 to 12.02.2012.
• Dr. Suman Saurabh, Junior resident presented a scientific paper on ‘Female literacy rate is a better predictor of IMR and birth rate in India’ at 39th National Conference of IAPSM at Kangra, Himachal Pradesh from 27.02.2012 to 29.02.2012
• Dr. Bijaya Nanda Naik, Junior resident presented a scientific paper on ‘Awareness about IUCD as a method of contraception: Among the eligible couples of Ramanathapuram village, Pondicherry’ at 39th National Conference of IAPSM at Kangra, Himachal Pradesh from 27.02.2012 to 29.02.2012.
• Dr. Subitha L, Senior Resident was awarded a research grant under the Health Research Mentorship Program-2011 for the project titled “Feasibility of implementing a Diabetes Registry in Primary Health care Setting in Puducherry”, conducted by St John’s Research Institute (SJRI), Bangalore; Population Health Research Institute, McMaster University, Canada; and Indian Cardiovascular Research and Advocacy Group at SJRI, Bangalore.
• Dr. Ishwarya, Postgraduate student was given the best prize award for the oral paper titled ‘Study of Factors Affecting the Compliance to Treatment among Patients with Type II Diabetes Mellitus Attending the Urban Health Centre, JIPMER, Puducherry’, presented at IPHA conference, Kochi, Kerala from 09.02.2012 to 12.02.2012.

• Short Course on basic Epidemiology: Second Short course on Basic Epidemiology was conducted by Dept of PSM, JIPMER, from 14.11.11 to 19.11.11. The objectives of the course were to empower participants in the basic principles of epidemiology and apply the same in planning and conducting research, understand and interpret the results of screening tests and their importance in clinical practice, get sensitized to the use of statistical software programmes like SPSS and Open Epi. 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 27 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, Dr Sitanshu Sekhar Kar and Dr Swaroop Kumar Sahu from department of PSM, JIPMER, acted as resource persons for this course.

• Faculty and residents visited thirty Anganwadi centers and 2 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.

• Department has carried out detailed outbreak investigation of Cholera at Mudaliarpet, Pondicherry during January 2012. A total of 968 households were surveyed in 3 days and investigated. Out of 4643 individuals enumerated, 566 (12.2%) cases of Acute gastroenteritis were reported. This activity was co-ordinated by IDSP Unit of JIPMER.

• Malaria month was observed both in Urban Health Center and Rural Health Center in June 2011. Health education session on Prevention of Malaria was conducted at Rural Health center Ramanathapuram to celebrate malaria month on 29.06.11.

• Ophthalmology clinic was started in JIRHC and JIUHC for screening common eye conditions under Tele Ophthalmology Project in collaboration with Department of Ophthalmology.

• IDSP unit of department of PSM acts as nodal center for surveillance of communicable diseases in collaboration with State IDSP unit. Under the IDSP unit, dengue surveillance has been initiated in collaboration with department of Microbiology. 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.

• Multispeciality health camps at Kadaperikuppam, Sandhaipudukuppam and Veerampattinam were organized by the Department as a part of Community Diagnosis posting for students learning of organization and planning of health camp. In this camp patients were given consultation from 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 in the camp about Healthy Nutrition and Prevention of Cardiovascular disease.

- Department of PSM participated in WHO National Polio Surveillance Project activities at Pondicherry from 19.02.2012 to 22.02.2012.

- Dr J.S. Thakur, National Professional Officer, Cluster Focal Point - Non Communicable Diseases and Social Determinants of Health, WHO Country Office, India; Dr Gourdas Chaudhary, Professor, Department of Gastroenterology, SGPGIMER, Lucknow; Dr Deepak Pradhan, Head of the Department of Community medicine, Vardhman Mahavir Medical College and Safdarjung Hospital, New Delhi visited the Department of PSM on 30th November 2011. They held an interactive session with the Residents and faculty.
8.32 Psychiatry

Professor & In-charge
D. K. S. Subrahmanyam

Assistant Professors
Shivanand Kattimani  Ravi Philip Rajkumar

BACKGROUND INFORMATION OF THE DEPARTMENT
The Department of Psychiatry in JIPMER was started in 1962. It is involved in research, training and educational activities as well as patient care. Professor N.C. Surya, the first Head of the Department, who was also instrumental in starting this department, has been credited for the first epidemiologic study in mental health in India in the year 1964. The department has played a key role in initiating and supporting the drafting of the model undergraduate curriculum for psychiatry in India. Along with regular clinical services, the Department has streamlined patient care by setting up various specialty clinics. Apart from the general hospital psychiatry unit, it participates in Community mental healthcare activities. The outreach patient care services are provided through rural and urban Health Centres of this institute at Ramanathapuram and Kuruchikuppam in Pondicherry and also through regularly held health camps organized by the Institute as part of comprehensive health care to the community. This department 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 mental health needs of children aged 12 years and below. The department has conducted pioneering research in the field of mental health related to acute psychosis, suicide, dissociative disorders, substance use disorders and electroconvulsive therapy (ECT).

The department has been designated as a Regional De-addiction Centre in 1991 by 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 programme for medical and paramedical professionals and participation in community health camps. An elaborate database is maintained to facilitate research in this area.

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 epidemiologic Catchment Area Study
2005 - Participation in Tsunami rehabilitation work
2010 – Increase in M.D. (Psychiatry) seats to 2 candidates per year.

EDUCATIONAL COURSES

A. Undergraduate Courses

The undergraduate teaching in Psychiatry for MBBS students includes theory lectures on various aspects of psychiatry, and clinical training in the department including 15 days of 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 ability to diagnose common psychiatric conditions. The department also imparts teaching of Psychiatry to B.Sc Nursing students in the VI semester that includes clinical as well as theory classes. The department also conducts training on psychiatry terminology and classification to the batch of trainees of medical record officer courses at this institute. For the past two years, the department also takes part in modular teaching for students of Diploma in Emergency Medical Technology (EMT) of JIPMER.

B. Post Graduate Courses

The Department has four post graduate students (I year, II year and III year) pursuing MD courses currently. The intake of one postgraduate for MD in Psychiatry has been increased to two candidates from the last academic year onwards. Regular academic programmes including case conference, journal club, seminars and faculty presentations are conducted for the postgraduate students.

C. Short term training

Students pursuing psychology, social work, nursing from other colleges in the region regularly undergo orientation programme in the field of mental health and substance abuse in this department.

Students of Pondicherry University (Applied Psychology) and Masters in Social Work, American College (Masters’ In Social Work) and Mother Teresa College of Nursing (Post-Basic B.Sc Nursing) and M.Sc. Nursing have all undergone short-term (1-2 months’) training in the Department of Psychiatry.

CONTINUING MEDICAL EDUCATION PROGRAMS

Dr. Shivanand Kattimani

- Delivered a guest lecture on ‘Drug abuse and illicit trafficking’, on the occasion of International Day against Drug Abuse and Illicit Trafficking, to students, organized by NCC, Naval Academy, Puducherry on 26 June 2011.
• Attended Southern Regional Zonal Meet on ‘Networking of Drug De-addiction services from Govt, and NGOs’, organized by NIMHANS, Bangalore on 19 August 2011.

• Attended state level workshop on ‘Adults with disability: Needs and Deeds’, organized by National Institute for Empowerment of Persons with Multiple Disabilities (NIEPMD), Chennai on 15-16 September 2011.

• Attended national level workshop on ‘Assessment Strategies for Postgraduate Medical Education’ at Medical Education Conference (MEDUCON), organized by JIPMER, Puducherry on 30 September 2011.

• Attended national level workshop on ‘Train the trainers on Screening and Brief Intervention’, organized by AIIMS-Delhi and WHO Collaborating centre based at Adelaide-South Australia, at Delhi from 12-15 October 2011.

• Attended national level workshop on ‘Training of Trainers on OST’, for learning on how to train medical and paramedical staff involved in treating Opioid addiction with substitute treatment and harm minimization, organized by NACO and UNODC, at Parwanoo, Himachal Pradesh from 21-26 November 2011.

• Attended International level workshop, ‘Developing a protocol for a Cochrane systematic review’, organized by South Asian Cochrane Network and Center at CMC, Vellore, India from 13-17 February 2012.


• Attended as a trainer for conducting workshop on training medical and paramedical staff involved in running “OPIOID substitution Therapy” clinics for Injecting Drug Abusers, organized by NACO at Aizawl, Mizoram, from 26-31, March 2012.

Dr. Ravi Philip Rajkumar

• Attended the 63rd National Course on Education Science for Teachers of Health Professionals organized by the National Teacher Training Centre, JIPMER, at Puducherry from September 5th-15th, 2011.

• Attended the Workshop on Clinical Research for Clinical Investigators (CRCI) organised by the Division of Clinical Pharmacology, JIPMER along with the Indian Society for Clinical Research (ISCR) at Puducherry on October 21-22, 2011.

• Delivered a talk and conducted a question-and-answer session on “Mental health” for students of St. Joseph’s College, Cuddalore at the Fraternal Life Services Home, Puducherry, on August 27, 2011.

• Delivered a talk on "Investing in mental health" on the occasion of World Mental Health Day at Pondicherry University, on October 10, 2011.
CONFERENCES

Dr. Shivanand Kattimani

- Attended ‘International Conference on Student’s Mental Health (ICSMH)’, organized by Pondicherry University, Puducherry on 26 July 2011.
- Attended national level, Medical Education Conference (MEDUCON), organized by JIPMER, Puducherry on 1 and 2nd October 2011.
- Attended national level, Annual Conference of Indian Psychiatric Society (ANCIPS), organized by Indian Psychiatric Society, at Kochi, Kerala from 19-22 January 2012.
- Presented a scientific paper on ‘Clinico-demographic determinants of suicidal intent among adolescents with Deliberate self-harm (DSH): a hospital based study’ during Annual Conference of Indian Psychiatric Society (ANCIPS), organized by Indian Psychiatric Society, at Kochi, Kerala from 19-22 January 2012.
- Presented a scientific paper on ‘Retrospective study of characteristics of non-impulsive and impulsive suicide attempters’ during Annual Conference of Indian Psychiatric Society (ANCIPS), organized by Indian Psychiatric Society, at Kochin, Kerala from 19-22 January 2012.

RESEARCH PROJECTS

A. Departmental projects

Completed

- “Comparative study of components of Metabolic Syndrome in drug-naïve persons with schizophrenia and their first-degree relatives” (Dr. Rajkumar RP - Co-guide).

Ongoing

- “Control study of Impulsivity in children of persons with alcohol dependence” (Dr. Kattimani S and Rajkumar RP - Co-guide)
- A prospective study of episode length in acute psychosis
- A study of the time course of response to risperidone in patients with psychosis
- A study of neurological soft signs in patients with drug-naïve psychosis

B. Collaborative projects

Completed

- Study on Determinants of Attempted Suicides in Pondicherry and in Tamilnadu in collaboration with department of Preventive and Social Medicine, JIPMER
- Short term outcome in children with ADHD in collaboration with department of Pediatrics, JIPMER
- Association between postpartum depression and Homocysteine and its vitamin determinants, serum serotonin and serum BDNF in collaboration with department of Biochemistry and Obstetrics, JIPMER
- Association between postpartum depression and levels of gonadal steroids and HPA axis hormones –in collaboration with department of Biochemistry and Obstetrics, JIPMER
Ongoing

- Levels of oxidative stress markers in alcohol withdrawal state and its correlation with severity of alcohol withdrawal in collaboration with department of Biochemistry
- "A Study of Pro- and Anti-Inflammatory Immune Markers In Acute Psychosis And Their Relation To Stress And Clinical Status" in collaboration with the departments of Clinical Immunology and Biochemistry, JIPMER

PUBLICATIONS

A. Journals


PATIENT CARE SERVICES

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 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 the patients.

Special clinics are run for schizophrenia, affective disorders and neuropsychiatry. The child guidance clinic in collaboration with the Department of Pediatrics focuses on developmental and behavioral problems of children and adolescents. Crisis intervention services in the form of Crisis Intervention Clinic is available specially for suicide prevention, including supportive counseling for suicide attempters. Psychiatric services are made available for
urban population by integrating them with the general health care provided by the Urban Health Centre at Kuruchikuppam and to the rural population by organizing health camps in the nearby rural area of Pondicherry.

Creation of awareness for mental health issues among public is one of the priority area of this department. Frequent talks are given from the department in schools, through media. Psychologist-education of patients and their relative is taken by the residents at individual level. Psychologist and social worker engage groups for the same. Patient education materials such as pamphlets and audio-visuals are used for topics related to substance abuse in drug-deaddiction clinic. Brief pulse electroconvulsive therapy machine, transcranial magnetic stimulation equipment, 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, OPDs are supported by interns, social worker, psychologist, nursing staff and other support staff.

Special clinic in OPD is also run for patients with specific disorders. Drug Deaddiction Clinic caters to people who are habituated to alcohol, smoking tobacco, chewing tobacco, cannabis or other drugs. 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**

<table>
<thead>
<tr>
<th>Day</th>
<th>Clinic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
<td>Marital and Psychosexual Clinic</td>
</tr>
<tr>
<td>Tuesday</td>
<td>Affective Disorder Clinic</td>
</tr>
<tr>
<td>Wednesday</td>
<td>Child Psychiatry forum</td>
</tr>
<tr>
<td>Thursday</td>
<td>Crisis Intervention Clinic</td>
</tr>
<tr>
<td></td>
<td>Memory Clinic</td>
</tr>
<tr>
<td>Friday</td>
<td>Schizophrenia (follow up) Clinic</td>
</tr>
<tr>
<td>Saturday</td>
<td>Neuropsychiatric Clinic</td>
</tr>
<tr>
<td></td>
<td>Drug Deaddiction Clinic</td>
</tr>
</tbody>
</table>

Inpatient service has a bed strength of twenty-seven, with facility for occupation therapy and recreational activities. Special equipment available in the department is Brief Pulse Electro Convulsive Therapy machine, with facility of Electro Convulsive Therapy under general anesthesia. Serum lithium analyzer is available for lithium estimation.

Total number of patients that attended in OPD during the period 01.04.2011 to 31.03.2012 is as below

**A. General clinics**

<table>
<thead>
<tr>
<th>Category</th>
<th>Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>New cases</td>
<td>4,885</td>
</tr>
<tr>
<td>Old cases</td>
<td>55,364</td>
</tr>
<tr>
<td>Total</td>
<td>60,249</td>
</tr>
</tbody>
</table>
B. **Special clinics**

1. **Affective disorders clinic**
   - New Cases: 880
   - Old Cases: 16,566
   - Total: 17,446

2. **Schizophrenia clinic**
   - New Cases: 867
   - Old Cases: 17,348
   - Total: 18,215

3. **Drug de-addiction clinic**
   - New Cases: 986
   - Old cases: 1,253
   - Total: 2,239

4. **Crisis Intervention clinic**
   - New Cases: 160

5. **Marital and psychosexual clinic**
   - New Cases: 57

6. **Memory clinic**
   - New Cases: 43

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

**Dr. Shivanand Kattimani**

1. Member of state alcohol policy committee, state of Puducherry
2. Public Information Officer, for the department of Psychiatry, JIPMER, under the Right to Information Act, 2005

**Dr Ravi Philip Rajkumar**

1. Member of the Anti-Ragging committee, State of Puducherry
2. Member of the Pharmacovigilance Committee, JIPMER with effect from May 2011.

**SIGNIFICANT EVENTS IN THE DEPARTMENT**

- Education and awareness programme through media: Talk on alcohol and Drug abuse for common public, through All India Radio, Puducherry station by Mrs. V. Chitralekha, Psychiatric Social Worker on 7th June 2011 and 28th December 2011.
- Promoted public awareness by putting up posters and conducting a poster making competition for MBBS Students on the occasion of International Day Against Drug Abuse and Illicit Trafficking on 25th July 2011.
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).

Postgraduate Courses
The department continues with its postgraduate (M.D. Pulmonary Medicine) PG teaching programmes.

CONFERENCES

Dr. S. Vinod Kumar
- Attended Zonal Task Force Workshop (South Zone) on the Involvement of Medical colleges in RNTCP (Revised National Tuberculosis Programme) at Kamineni Hospital, Hyderabad, from 11/08/2011 to 12/08/2011.

Dr. Manoj Kumar Panigrahi
- Attended 18th annual conference of Indian Society of Critical Care Medicine and International critical care congress (Criticare) 2012, in Pune from 15/02/2012 to 19/02/2012.

RESEARCH PROJECTS

Departmental Projects

Ongoing
- Sclerotherapy for Malignant Pleural effusion: a prospective randomized trial of vincristine, Cisplatin and Bleomycin – Dr. S. Vinod Kumar, Dr. N. Narendra Kumar, Dr. M.K. Panigrahi, Dr. S. Mathanraj.
- “Clinical Profile of patients with spontaneous neumomediastinum”
- “Is adenosine deaminase in pleural fluid a useful marker for identifying malignant pleural effusion”.
- “Clinico-epidemiological profile of lung cancer in JIPMER”
Collaborative Projects
Dr. S. Vinod Kumar
Guide for the following dissertations:
1. “Clinical and Polysomnographic profile of patients with sleep related breathing disorder.”
2. “Pulmonary manifestation and rheumatoid arthritis hospital based descriptive study.”

Dr. Manoj Kumar Panigrahi
Co-guide for the following dissertations:
1. “Clinical and polysomnographic profile of patients with sleep related breathing disorder.”
2. “Pulmonary manifestation and rheumatoid arthritis hospital based descriptive study.”

PUBLICATIONS
Journals

Book Chapters

PATIENT CARE SERVICES
1. A. Clinical:
   1. OPD : New Cases: 3844
      Old Cases: 26560
      Total: 30404
   2. Total Cases Referred to DOTs (RNTCP) Centres:
      Pulmonary Tuberculosis 494
      Extra Pulmonary 280
      Total : 774
   3. Special Clinic: Respiratory Allergy and Immunotherapy Clinic :
      (Friday 2 pm. to 4.30 pm.)
      New Cases: 1669
      Old Cases : 7122
      Total : 8791
4. HIV/AIDS: New Cases: 5
   PTB with HIV: 3
   Extra PTB with HIV: 2
   TOTAL: 5

5. Bronchoscopy:
   Fiberoptic Flexible Bronchoscopy Performed: 210

6. Respiratory Physiotherapy: 1812

B. Laboratory:
   Pulmonary Function Test:
   Spirometry Procedures: 490
   Diffusion Capacity Estimation: 29

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr. S. Vinod Kumar
- Is a life member of Indian Chest Society (I.C.S.).
- Is a member of Indian Association for Bronchology.
- Is a member in R.N.T.C.P. (Revised National Tuberculosis Programme) Core-committee, JIPMER, Puducherry.
- DPC (Departmental Promotaion Committee) member as SC/ST representative in JIPMER and in Census Operation Department, Puducherry, INDIA.
- Member in Vidyalaya Management committee for Kendriya Vidyalaya -1, JIPMER Campus.

Dr. Manoj Kumar Panigrahi
- Is a life member of Indian Chest Society (I.C.S.).
- Is a life member of Indian Society of Critical Care Medicine
- Is a member of American Association of Bronchology and Interventional Pulmonology (AABIP).
- Fellow, American College of Chest Physician (FCCP), USA.

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. S. Vinod Kumar
- 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.
- Visited Narayana Hrudyalaya, Bangalore on 16/12/2011 as Inspector of National Board of Examinations for the accreditation of their Respiratory Diseases Department.
- Visited National Board of Examinations, New Delhi from 9th to 13th February 2012 as an Assessor of theory answer sheets in the specialty of Respiratory Diseases.
- Attended Expert Committee Meeting on 03/12/2011 in New Delhi to examine the matters related to the approval of New Drugs and Global Clinical trials.
- Attended Expert Committee Meeting on 28/01/2012 in New Delhi to examine the matters related to the approval of New Drugs and Global Clinical trials.
8.34 Radiodiagnosis

Professor & In-charge
S. Vivekanandam (From 02.09.2012)

Professor
S. Elangovan

Assistant Professors
A. Ramesh
Deepak Barathi S

BACKGROUND INFORMATION OF THE DEPARTMENT
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.

CONFERENCES
Dr. A. Ramesh
• Participated as a delegate in the CME on Chest and Cardiovascular Imaging “Everything you need to know” held on 8-10 of July, 2011 at Bernrud Institute of Radiology and Madras Medical College, & Hospital,(BRACE), Chennai.

• Participant in the CME programme on MUSCULOSKELETAL IMAGING on 12-14 August, 2011 held at Govt. Stanley Medical College, conducted by the Department of Radiodiagnosis, Govt. Stanley Medical College & Hospital, Chennai.

RESEARCH PROJECTS
A. Departmental Projects

Completed
• Role of diffusion and Contrast enhanced MRI in detecting recurrent or residual cholesteatoma in patients who have undergone tympanomastoid surgery. – Dr. K. C. Venugopal
• Role of Tranvaginal sonography and contrast enhanced Magnetic Resonance imaging in determining the depth of myometral invasion in endometrial Carcinoma. - Dr. Vijaya Kumar A.R

**Ongoing**

• Anatomical variation of Splanchnic vasculature studies with 64 -row CT Angiography in a south Indian population - Dr. A. Ramesh, Dr. S. Elangovan & Mr. Harichandrakumar K.T.

• Abdominal organ dimensions and volumes. A Comparison of Ultrasound and CT measurements - Dr. A. Ramesh, Dr. S. Elangovan & Mr. Harichandrakumar K.T.

• Characteristics of focal liver lesions by contrast enhanced Ultrasound in comparison to CECT. Dr. Sandeep B.S.

• Title: MRI evaluation of response of breast cancer to Neoadjuvant Chemotherapy/hormone therapy – Diffusion weighted imaging in comparison with dynamic CEMR – Dr. Santhosh.

• Role of MR virtual cystoscopy in the diagnosis of Carcinoma bladder – Dr. Pallavi. S

• Comparison of Sonohystrosalpingography and salpingography in patient of infertility – Dr. Chalumuri Tejaswi.

• Study of Renal hemodyamic changes in patient of liver cirrhosis – Dr. Londhe Srikant Ramhari.

• Role of gray scale, ultrasound , power doppler, spectral doppler and radionucleide scintingraphy to differentiate between benign and malignant thyroid nodules – Dr. Arpita Bhaumik

**Collaborative Projects**

**Completed**

**Dr. S. Elangovan**

Study of Effectiveness of Letrozole as Neoadjuvant Hormonal Therapy in Postmenopausal Women with Estrogen Receptor Positive Breast Carcinoma.

**Ongoing**

Dr. S. Elangovan is the Co-guide for the following projects

1. Randomized controlled clinical trial comparing fluoroscopy versus flexible nephroscopy for confirming stone clearance in percutaneous nephrolithotomy.

2. Role of intrapleural streptokinase in empyema in complicated parapneumonic effusion - Double blinded randomized controlled Study.

3. Study of effectivenes of Letrazole as neoadjuvant hormonal therapy in postmenopausal estrogen receptor positive breast carcinomas.
Dr. A. Ramesh is the co-guide for the following extra departmental Research Projects.

1. Usefulness of Investigations in the differential Diagnosis of Right Iliac Fossa Pain.
2. Comparison of CECT and diagnostic laproscopy in detecting peritonial metastasis in carcinoma stomach.

**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.

<table>
<thead>
<tr>
<th>Statistics for the period from April 2011 to March 2012</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>X- Rays</td>
<td></td>
</tr>
<tr>
<td>1. Routine</td>
<td>61852</td>
</tr>
<tr>
<td>2. Emergency</td>
<td>40546</td>
</tr>
<tr>
<td>3. M.L.C.</td>
<td>4234</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spl. Investigation</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. IVP</td>
<td></td>
</tr>
<tr>
<td>2. Barium studies</td>
<td></td>
</tr>
<tr>
<td>3. MCU</td>
<td>2468</td>
</tr>
</tbody>
</table>
4. RGU
5. HSG
6. Oral Contrast Studies
7. Loopogram
8. Fistulogram
9. Sinogram
10. Venogram
11. DCG
12. Miscellaneous (Cystogram, Cavitogram, percutaneous Nephrogram, Cholangiogram)

<table>
<thead>
<tr>
<th></th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultrasound Routine</td>
<td></td>
</tr>
<tr>
<td>Gen. USG</td>
<td>24620</td>
</tr>
<tr>
<td>Emergency</td>
<td>10821</td>
</tr>
<tr>
<td>Total</td>
<td>35441</td>
</tr>
<tr>
<td>CT Routine</td>
<td></td>
</tr>
<tr>
<td>Emergency</td>
<td>5773</td>
</tr>
<tr>
<td>Total</td>
<td>15933</td>
</tr>
<tr>
<td>MRI</td>
<td>2156</td>
</tr>
</tbody>
</table>

**SIGNIFICANT EVENTS IN THE DEPARTMENT**

- Dr. Arutselvam, Interventional Radiologist, University of Florida, USA delivered guest lectures on Interventional Radiology to residents in the Department of Radiodiagnosis on 23-01-2012.
8.35 Radiotherapy

Director RCC, Professor & Head
K.S. Reddy
Professor
S. Vivekanandam

Assistant Professors
V. Parthasarthy
Shyama Sudha Prem

Lecturers in Radiology (Medical Physics)
N. Vijayaprabhu
R. Seenisamy
Gunaseelan. K
Ashutosh Mukherji
K. Saravanan

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. 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. 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. 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.

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 treatment 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 eight 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

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-in-law late Sri K.S.V. Sivaram.

Postgraduate

First Batch of Postgraduate students have joined for MD Radiotherapy in April 2009. 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 10 PG students have joined and following are the training programmes organized at regular intervals at our Department.

A. Regular lecture classes and clinics in clinical subjects and Medical physics
B. Seminars & Case discussions done twice weekly
C. Bedside discussion and grand rounds weekly on every Monday
D. Treatment planning decisions and discussions on every Thursday
E. Hands on training for treatment planning done at monthly postings
F. Compulsory peripheral postings to the allied subjects in relation to oncology were allotted at monthly basis
G. Maintaining Log books and regular review of log books.

Short term training

The Department imparts training for 15 obstetrics and gynecology DNB students from Indira Gandhi Government Medical College, Puducherry and Pondicherry Institute of Medical Science (PIMS), Puducherry for 1month 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 seven CME till March 2012.

1. Fifth CME on Bladder and Prostate Malignancies on 4th April 2011
2. Sixth CME on Glioma on 27th August 2011.

Dr. K.S. Reddy
- Moderated a session for the topic “role of radiotherapy in bladder cancer” at JIPMER CME on Bladder and Prostate Malignancies on 4th April 2011
- Panel member at JIPMER CME on epithelial ovarian cancer on 11th March 2012.

Dr. S. Vivekanandam
- Moderated a session for the topic “role of radiotherapy in prostate cancer” at JIPMER CME on Bladder and Prostate Malignancies on 4th April 2011.
- Moderated a session for the topic “role of radiotherapy in Gliomas” at JIPMER CME on Glioma on 27th August 2011.
- Moderated a session for the topic “role of chemotherapy and biological therapy for ovarian cancers” at JIPMER CME on epithelial ovarian cancer on 11th March 2012.

Dr. Ashutosh Mukherji
- Delivered Lecture on “Radiotherapy in the management of bladder cancers” at JIPMER CME on Bladder and Prostate Malignancies on 4th April 2011.
- Delivered Lecture on “Head and Neck Cancers: Detection and Prevention” as part of community cancer awareness programme under Indian Red Cross Society Puducherry at Petit Seminar School on 16th November 2011.
- Delivered Lecture on “Ovarian cancers: No longer silent killers” at JIPMER CME on epithelial ovarian cancer on 11th March 2012.

Dr. Shyama Prem
- Delivered Lecture on “Radiotherapy in the Management of Prostate Cancers” at CME on Bladder and Prostate Malignancies organized by JIPMER at Puducherry on 4th April, 2011.

CONFERENCES

Dr. K.S. Reddy
- Delivered lecture in the 26th annual state conference AROI-TN&PY CON 2011 at Cancer Institute, Adaiyar on Oct 8th - 9th 2011.
- Attended the National Conference of Association of Radiation Oncologists of India November’11: 33rd AROICON at Jaipur.
Dr. Parthasarathy

- Attended the 26th annual state conference AROI-TN&PY CON 2011 at Cancer Institute, Adaiyar on Oct 8th - 9th 2011.

Dr. Gunaseelan. K

- Attended MEDUCON 2011 national conference at JIPMER on 1st and 2nd October 2011.
- Attended 26th annual state conference AROI-TN&PY CON 2011 at Cancer Institute, Adaiyar on Oct 8th - 9th 2011
- Attended Palliative Care Conference (Palliative Care Initiative under Jiv Daya Foundation) at New Delhi on March 2012
- Attended AROI ASTRO workshop on “Recent Advances in Radiotherapy for Head & Neck Cancer” at Mumbai on March 2012.

Dr. Ashuotsh Mukherji

- Attended 26th annual state conference AROI-TN&PY CON 2011 at Cancer Institute, Adaiyar on Oct 8th - 9th 2011
- Attended National Conference of Association of Radiation Oncologists of India November’11: 33rd AROICON at Jaipur.

RESEARCH PROJECTS

Departmental projects

**Ongoing**

1. “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).
2. “To measure degree of hearing loss in patients with squamous cell carcinomas of the head and neck region receiving cisplatin based chemotherapy” (with Department of ENT, Radio-diagnosis, JIPMER).
4. 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.
5. Optimal source position for 2D – based HDR treatment planning of cancer of uterine cervix using ring applicator
6. Role of Extra-Corporeal Irradiation for bone tumors (With the Department of Orthopedics, JIPMER).
8. Randomized control trial comparing Argan laser Vs Steroid Sucralfate enema in management of radiation proctitis.
PUBLICATIONS

Journals


4. Dr. Gunaseelan.K. Advances in radiation oncology for brain tumors. JIPMER Cancer Update (JCU) volume 3 (2) August 2011 (Review Article)

5. Dr. Shyama Prem. Malignant Peripheral Nerve Sheath Tumor of lower mandible. (Case Report) Accepted for publication in the journal of neurological research.


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.

Malignancy wise Cancer statistics for the year 2011-2012 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>750</td>
<td>416</td>
<td>1166</td>
<td>31.84</td>
</tr>
<tr>
<td>Gynecologic</td>
<td>-</td>
<td>1202</td>
<td>1202</td>
<td>32.82</td>
</tr>
<tr>
<td>Breast</td>
<td>3</td>
<td>576</td>
<td>579</td>
<td>15.81</td>
</tr>
<tr>
<td>GIT</td>
<td>71</td>
<td>81</td>
<td>152</td>
<td>4.15</td>
</tr>
<tr>
<td>Thorax</td>
<td>47</td>
<td>21</td>
<td>68</td>
<td>1.85</td>
</tr>
<tr>
<td>Hematology</td>
<td>44</td>
<td>18</td>
<td>62</td>
<td>1.69</td>
</tr>
<tr>
<td>Urology</td>
<td>79</td>
<td>4</td>
<td>83</td>
<td>2.26</td>
</tr>
<tr>
<td>CNS</td>
<td>34</td>
<td>41</td>
<td>75</td>
<td>2.04</td>
</tr>
<tr>
<td>Thyroid</td>
<td>23</td>
<td>2</td>
<td>25</td>
<td>0.68</td>
</tr>
<tr>
<td>Unknown Primary</td>
<td>76</td>
<td>42</td>
<td>118</td>
<td>3.22</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>81</td>
<td>51</td>
<td>132</td>
<td>3.60</td>
</tr>
<tr>
<td>Total</td>
<td>1208</td>
<td>2454</td>
<td>3662</td>
<td>100</td>
</tr>
</tbody>
</table>
Radiotherapy Treatment Statistics for the Year 2011 – 2012

<table>
<thead>
<tr>
<th>Name of the Equipment</th>
<th>Male</th>
<th>Female</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low Energy Linear Accelerator 6MV (External Beam Radiation)</td>
<td>2107</td>
<td>19052</td>
<td>21159</td>
</tr>
<tr>
<td>High Energy Linear Accelerator (External Beam Radiation)</td>
<td>51</td>
<td>60</td>
<td>111</td>
</tr>
<tr>
<td>Cobalt Theratron – 780 C (External Beam Radiation)</td>
<td>8593</td>
<td>8524</td>
<td>17117</td>
</tr>
<tr>
<td>High Dose Rate Brachytherapy (HDR) Ir. $^{192}$ (New &amp; Old Machine)</td>
<td>63</td>
<td>2795</td>
<td>2858</td>
</tr>
</tbody>
</table>

Special equipments available for patient care are

- Varian Clinac DHX linear accelerator (6 MV & 15MV photons, and 4, 6, 9, 12, 16, 20 MeV Electrons) with 120 Leaves MLC, IMRT,IGRT facility and Eclipse Inverse and Forward Planning System.
- 6 MV linear Accelerator (Varian Clinac 6/100)
  
  Make: Varian Medical Systems (USA)
  
  Features: 6 MV Photon beam, Asymmetric jaws, Electronic Portal Vision, variable dose-rates, indexed patient couch, etc.
- Theratron – 780C Co-60 Teletherapy unit
- TPS - ASHA 3D TPS & Oncentra Brachy Planning System
- MicroSelectron -HDR (Ir-192) remote controlled Brachytherapy Unit
- Surface Mould Brachytherapy for scalp, thigh, post mastectomy chest wall
- Plato 3-D Treatment Planning system (Nucletron)
- Varian Acuity Simulator
  
  Model: Acuity iX
  
  Features: Amorphous Silicon Technology, X-ray, Flouroscopic modes, Carbon fibre table top.
- Intracavitary cervical and vaginal HDR applicators.
- Nasopharyngeal Brachytherapy MicroSelectron-HDR applicators
- Intraluminal Brachytherapy in carcinoma esophagus
- Interstitial Brachytherapy applicators for Breast, Soft tissue sarcoma, cervix, prostate and oral cavity
- X-Ray 500MV & Portable 100MV X-Ray Machine
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 Government General Hospital (Yanam), Kidwai Memorial Institute of Oncology (Bangalore), Mandya Institute of Medical Science (Mandya), Arignar Anna Memorial Cancer Hospital (Kanchipuram) and Government General hospital (Arakonam). Nearly 26 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 Bladder and Prostate Malignancies, Glioma and Epithelial Ovarian Cancer.
- Designated as guide for two Ph.D. Scholars. Topics are
  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.
- Designated as 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.
  Dosimetric comparison of tandem and ovoid versus tandem and ring applicator for HDR brachytherapy of carcinoma cervix.
  Early cardiac changes due to doxorubicin based chemotherapy and radiotherapy in early stage and locally advanced carcinoma breast.
  Effect of source strength of Iridium HDR 192 Brachytherapy in carcinoma cervix association with local control and late rectal complications.
Auditory function sparing with the use of Intensity Modulated Radiotherapy in Head and Neck Cancers

- 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.

- “Evaluation of acute toxicity of concurrent chemoradiation in carcinoma cervix when ct based 3-dimensional planning with dose optimization is used for external planning with dose optimization is used for external beam radiation-a prospective descriptive study.”

3D Planning In HDR Brachytherapy for Carcinoma Cervix – A Dose Volume Analysis to Targets and Organ At Risk.

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.

- Member of Specification committee for Brachytherapy Equipment by the (PMSSY) Scheme at Noida, New Delhi on November 2011.

- MCI – Inspection of Narayana Medical College, Nellore for UG Course – Final Certification and Examination Pattern of NTR Medical University at February 2012.

- Additional Administrative Responsibilities of Department of Radiodiagnosis, JIPMER as a Acting HOD since September 2011

- Member of sub committee for Procuring Ultrasound Machine & Computerized Radiography for the Department of Radiotherapy, RCC, JIPMER.

- Designated as Co-guide for PG (MD) dissertations entitled 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 guide for M.D thesis - “HDR brachytherapy boost in T1, T2 early stage and locally advanced T3/N0, T1-3N1, N2a in oral cavity squamous cell carcinomas”
• 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”.

• Attended Brachytherapy training under Nucletron from 19th March to 21st March 2012 at Tata Memorial Hospital, Mumbai.

• Member of organizing committee of Fifth CME on Bladder and Prostate Malignancies on 4th April 2011.

• Member of organizing committee of sixth CME on Glioma on 27th August 2011.

• Member of organizing committee of Seventh CME on epithelial ovarian cancer on 11th March 2012.

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 “Bladder and Prostate Cancer” and “Recent Advances in the Management of Gliomas”.

• Member of organizing committee of Fifth CME on Bladder and Prostate Malignancies on 4th April 2011.

• Member of organizing committee of sixth CME on Glioma on 27th August 2011.

• Member of organizing committee of Seventh CME on epithelial ovarian cancer on 11th March 2012.

• Principal clinical collaborator for B.Sc., (Medical Radiation Technology) course.

• Principal collaborator for Palliative Care Initiative in JIPMER under Jiv Daya Foundation, Texas, USA.

• Member of Task Force Group for Establishing Wi-Fi & website of JIPMER.

• Delivered a live telecast interview with public in Doordhhasan Television on August 2011.

• Delivered a live telephonic program on Cancer Awareness in Suriyan FM, Puducherry on January 2012.

• Attended IMRT training under Varian Medical System from 5th December to 9th December 2011 at Yasodha Hospital, Hyderabad.

• Attended training program - Oncology Information System Training, JIPMER from 4th July 2011 to 8th July 2011. (on-site training)

• Attended training program - High Energy Clinac Training, JIPMER from 23rd August 2011 to 26th August 2011. (on-site training)

• Assisted in Procuring Ultrasound Machine & Computerized Radiography for the Department of Radiotherapy, RCC, JIPMER.

• Exam Supervisor in MBBS entrance exam for Puducherry centre, June 2011.

• Exam Supervisor in MD/MS entrance exam for Puducherry centre, February 2012.
- Member of Stage and Decoration Committee for 1st Convocation of JIPMER 2011.
- Guide for M.D Radiotherapy Post graduate dissertation
- Student - Dr. karthik
- 3D Planning In HDR Brachytherapy for Carcinoma Cervix – A Dose Volume Analysis to Targets and Organ at Risk.
- Co-Guide for M.D Radiotherapy Post graduate dissertation
- Student: Dr. Sudhakar
- Effect of Source Strength of Iridium HDR 192 Brachytherapy In Carcinoma Cervix Association With Local Control And Late Rectal Complications.
- Student: Dr. Rajprakash
- Assessment of DNA Damage And Repair Capacity In Palliative Radiation Dose Fractionation Schedules In Locally Advanced Oral Cavity Cancer
- As a Co-Guide for M.B.B.S student for the topic role of sliver sulphadiazine in the prevention of radiation induced skin toxicity.

**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.
- Co-editor of JIPMER Cancer Bulletin.
- Exam Supervisor in MBBS entrance exam for New Delhi centre, June 2011.
- Exam Supervisor in MD/MS entrance exam for New Delhi centre, February 2012.
- Co-guide in thesis: Auditory function sparing with the use of Intensity Modulated Radiotherapy in Head and Neck Cancers.
  Student: Dr. Anney Harshita Arun; 2011 – 2013.
- Training on the use of Interstitial Brachytherapy at Indo-American Cancer institute, Hyderabad from 9th -13th February 2012.
- Organizing Secretary of 5th CME Regional Cancer Centre JIPMER held on 3rd April 2011 on Bladder and Prostate Malignancies.
- Organizing Secretary of 7th CME Regional Cancer Centre JIPMER held on 11th March 2012 on Epithelial Ovarian Malignancies.
- Part of organizing committee of 6th CME Regional Cancer Centre JIPMER held on 27th August 2011 on Gliomas.

**Dr. Shyama Prem**
- Member of organizing committee of Fifth CME on Bladder and Prostate Malignancies on 4th April 2011
• Member of organizing committee of sixth CME on Glioma on 27th August 2011.
• Member of organizing committee of Seventh CME on epithelial ovarian cancer on 11th March 2012.
• Attended IMRT training under Varian Medical System from 5th December to 9th December 2011 at Yasodha Hospital, Hyderabad.
• Attended workshop on “Basis in Bio-Statistics” at Lucknow in April 2011
• Attended NTTC Teacher Training Workshop at JIPMER in February 2012.
• As a Guide - for the M.D thesis- Evaluation of acute toxicity of concurrent chemoradiation in carcinoma cervix when ct based 3-dimensional planning with dose optimization is used for external planning with dose optimization is used for external beam radiation-a prospective descriptive study.

Mr. Vijayaprabhu, N
• Life member of Association of Medical Physicist of India (AMPI)
• Member of editorial board for JIPMER CANCER UPDATE (JCU) bulletin.
• Attended training program on Product Introduction and Clinical Workflow Course under Varian Medical System from 28th Jun to 30th Jun 2011 at Mumbai
• Attended training program on Eclipse Administration & Physics Course (32 hours) under Varian Medical System, from 12th July to 15th July 2011 at Mumbai
• Attended training program on Eclipse Operations Course, Mumbai from 18th July to 21st July 2011
• Attended training program - Eclipse in Clinical Practice Course, Mumbai on 22nd July 2011
• Attended training program - Oncology Information System Administration Course, Mumbai on 25th July 2011 to 29th July 2011
• Attended training program - Oncology Information System Training, JIPMER from 4th July 2011 to 8th July 2011. (on-site training)
• Attended training program - High Energy Clinac Training, JIPMER from 23rd August 2011 to 26th August 2011. (on-site training)
• Coordinated the establishment of RCC, Project Phase II
• Obtained commissioning approval from the AERB for the equipments installed under RCC, Project Phase II viz. Clinac iX High Energy Linear Energy with IMRT capabilities.
• Completed successfully all the beam data acquisition for High Energy Linear Accelerator for Photons and Electrons.
• Commissioned Eclipse Treatment Planning System for 3DCRT, IMRT, and RapidArc.
• Successfully started three dimensional conformal radiotherapy (3DCRT) at RCC, JIPMER in September 2011.
Successfully started Intensity Modulated Radiotherapy Treatment (IMRT) at RCC, JIPMER in February 2012.

Completed Part-I Ph.D exam on 2nd July 2011.

Co-investigator – “Electron Beam irradiation vs. External Photon Beam irradiation combined with surface mould Brachytherapy boost for Post-mastectomy chest wall irradiation in Locally Advanced Breast Cancer: Dosimetric and Clinical study.”

Principal investigator – “A study on advantages of using mono-isocentric technique in the teletherapy treatment of post-operative carcinoma of breast cases.”

Co-guide for M.D Thesis – 3D Planning In HDR Brachytherapy for Carcinoma Cervix – A Dose Volume Analysis to Targets and Organ at Risk.

Mr. Saravanan. K

Life member of Association of Medical Physicist of India (AMPI)

Member of editorial board for JIPMER CANCER UPDATE (JCU) bulletin.

Attended training program on Product Introduction and Clinical Workflow Course under Varian Medical System from 28th Jun to 30th Jun 2011 at Mumbai

Attended training program on Eclipse Administration & Physics Course (32 hours) under Varian Medical System, from 12th July to 15th July 2011 at Mumbai

Attended training program on Eclipse Operations Course, Mumbai from 18th July to 21st July 2011

Attended training program - Eclipse in Clinical Practice Course, Mumbai on 22nd July 2011

Attended training program - Oncology Information System Administration Course, Mumbai on 25th July 2011 to 29th July 2011

Attended training program - Oncology Information System Training, JIPMER from 4th July 2011 to 8th July 2011. (on-site training)

Attended training program - High Energy Clinac Training, JIPMER from 23rd August 2011 to 26th August 2011. (on-site training)

Completed Part-I Ph.D exam on 2nd July 2011.

Co-investigator – “Electron Beam irradiation vs. External Photon Beam irradiation combined with surface mould Brachytherapy boost for Post-mastectomy chest wall irradiation in Locally Advanced Breast Cancer: Dosimetric and Clinical study.”

Co-investigator – “A study on advantages of using mono-isocentric technique in the teletherapy treatment of post-operative carcinoma of breast cases.”

Co-guide – “Evaluation of acute toxicity of concurrent chemoradiation in carcinoma cervix when ct based 3-dimensional planning with dose optimization is used for external planning with dose optimization is used for external beam radiation-a prospective descriptive study.”
Mr. R. Seenisamy

- Is a life member of Association of Medical Physicist of India (AMPI)
- Attended on site training by Oncology Information System, ARIA, Training in JIPMER from 4th July 2011 to 8th July 2011
- Attended on site training on High Energy Clinac iX in JIPMER from 23rd August 2011 to 26th August 2011
- Attended on site training in HDR Brachytherapy at Indo – American Cancer Hospital Hyderabad from 10th January 2012 to 12th January 2012
- Being the co-guide for the project of “HDR brachytherapy boost in T1, T2 early stage and locally advanced T3/N0, T1-3N1, N2a in oral cavity squamous cell carcinomas

SIGNIFICANT EVENTS

Visiting Professor

Dr. Arunkumar Rathi, Professor, Department of Radiotherapy, from Maulana Azad Medical College, New Delhi visited JIPMER from 4th April 2011 to 6th April 2011

- Chared a session on “Role of Radiotherapy in Bladder Cancer” for the CME on Bladder and Prostate Cancer 4th April 2011
- Delivered a lecture in JIPMER Scientific Society on “Recent Advancement in Radiotherapy” 6th April 2011.
8.36 Surgery

Professor & Head
S. Jagdish

Professors
K. Srinivasan  S. Sarath Chandra
Vikram Kate   D. Kadambari

Additional Professor
N.R. Vishnu Prasad

Assistant Professors
Nanda Kishore Maroju  G.S. Sreenath
R. Muthukumarassamy  S. Manwar Ali

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 29 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 a first-aid training programme for Undergraduates which is unique to this Institution.

B. Postgraduate Courses

Thirteen postgraduates (PG) per year are admitted for the MS Course. In addition to their work as Junior Residents in the department, PGs have a teaching programme consisting of PG seminars, clinical meetings and journal clubs.

C. Other Courses

The Department of Surgery coordinates a BSc programme in Operation Theatre Technology. This course aims at training dedicated personnel to assist in the Operation theatre setting. It also 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. Jagdish. S.

• Delivered a Lecture on Upper GI bleeding & conducted PG clinics in the 31st CME Programme 2012 organized by the Tamilnadu & Pondicherry Chapter of Association of Surgeons of India held at Madurai from 03.02.2012 to 05.02.2012.

• Was a Resource Person for the Postgraduate clinics in the 31st CME Programme 2012 organized by the Tamilnadu & Pondicherry Chapter of Association of Surgeons of India held at Madurai from 03.02.2012 to 05.02.2012.

Dr. Vikram Kate

• Attended the CME in Upper GI Surgery as invited faculty organized by the Department of Upper GI Surgery Unit, Christian Medical College, Vellore General Surgery, on 10th September 2011. Delivered the following lectures at the CME.
  a) Helicobacter pylori and gastric cancer.
  b) Esophageal perforations.
  c) Chronic corrosive injuries of the stomach.

Dr. Manwar Ali

Participated and underwent a skill course in 21st AMASI Skill course CME & Advances in Laparoscopic Surgery from 24th to 26th February 2012. He has also qualified in the FMAS Exam.

CONFERENCES

Dr. Vikram Kate

• Attended the 35th Annual Conference of the Tamil Nadu and Pondicherry Chapter of the Association of Surgeons of India held at Pondicherry from 11th to 14th August 2011 and delivered a lecture in the Prof. R. Saratchandra Memorial CME and spoke on “Enterocutaneous Fistula”. He also chaired the Sundaram best paper award session, Dr. V. Jegannathan best paper award session and the Gem Foundation award paper session.
• Attended the “International Hepato-Pancreato-Biliary Association – Indian Chapter” conference as invited faculty organized by the Department of GI Surgery, Bhopal Memorial Hospital and Research Centre, Bhopal from 25th to 26th November 2011 and chaired a guest lecture session on “What Surgeons’ need to know about Hepatitis B & C.

Dr. D. Kadambari
• Participated as resource person in the preconference workshop on Assessment Strategies in Postgraduate Medical Education during MEDUCON 2011 held at JIPMER from 30th September - 2nd October, 2011.

Dr. Vishnu Prasad N.R.
• Attended Hindgut 2011 workshop on 23rd July 2011 at lifeline hospital, Chennai
• Attended the 1st international live workshop & conference on esophageal disease from 5th to 7th August 2011 at Coimbatore.
• Attended the International rectal cancer update on 3rd February 2012 at Cancer Institute, Chennai.

Dr. Nanda Kishore Maroju
• Successfully completed a ATLS provider course at Falmouth, Cornwall, UK from 9th to 11th November 2011.

Dr. Manwar Ali
• Attended the Hindgut Workshop from 23rd to 24th July 2011 at Lifeline Hospitals in Chennai.
• Participated and Chaired a session at the 35th Annual Conference of Association of Surgeons of India (Tamil Nadu & Pondicherry Chapter) from 11th to 14th August 2011.
• Participated in Surgical Oncology workshop in Tata Memorial Hospital Mumbai from 11th to 13th November 2011.

PAPERS PRESENTED AT CONFERENCES
1. Paper presented at the 35th Annual Conference of the Tamil Nadu and Pondicherry Chapter of the Association of Surgeons of India held at Pondicherry from 11th to 14th August 2011.
   ii. An audit of secondary bacterial peritonitis with special reference to peritoneal fluid culture - Vishnu Prasad NR
2. Papers presented at the National conference of Medical Education MEDUCON 2011 organized by the Alumni Association of NTTC JIPMER from 1st and 2nd October 2011. Dr Vikram Kate presented a paper as co-author on “Problem solving interactive clinical seminars for under-graduates – a different methodology for teaching clinical reasoning skills”.
3. Papers presented at the XXIth National Conference of the Indian Association of Surgical Gastroenterology held at Jaipur from 13th to 16th October 2011.
   
   i. Comparison of efficacy of standard triple therapy versus levofloxacin based therapy for eradication of Helicobacter pylori and prevention of ulcer recurrence in patients with perforated duodenal ulcer following simple closure - a randomized trial. Raj Gopal, Vikram Kate, Jagdish S, Debdatta Basu. This was selected as the best paper in the oral category presentation in the 'Luminal disorders section' and was awarded a certificate and cash prize of Rs 5000.
   
   
   iii. Retrograde jejunogastric intussusception following Billroth II gastrectomy with a Braun jejunooejunostomy. Raj Gopal, Sri Aurobindo Prasad Das, Sunny Hage, Muthukumarassamy R, Vikram Kate, Ramesh A. This was selected as the best poster in the 'Intestinal Diseases section' and was awarded a certificate and cash prize of Rs 3000.
   
   iv. Formalin dab versus Sucralfate-Steroid retention enema as primary treatment in haemorrhagic radiation proctitis - a prospective randomized controlled trial. Vishnu Prasad NR
   
   v. Role of ultrasonography in predicting the severity of acute pancreatitis. Vishnu Prasad NR

4. Intrahepatic Stones – a case report – presented by Dr Vishnu Prasad NR in the GUT CLUB of Pondicherry. 21/01/2012

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.
- Clinico microbiological profile of perforated peptic ulcer with special reference to anaerobic organisms.
- Prognostic factors in septic diabetic foot with special reference to glycosylated hemoglobin

Dr. K. Srinivasan

- Study of effect of Letrozole in postmenopausal estrogen receptor positive breast cancer.
- Detection of candida in perforation peritonitis and the effect of Fluconazole 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

Role of C-Reactive Protein, Leukocyte count, Bilirubin levels and imaging in the diagnosis of acute appendicitis as a cause of Right iliac fossa pain

Dr. Sarath Chandra. S

- 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
- Effect of negative pressure wound therapy (NPWT) on bacterial burden of the wound and changes in wound histology: A randomized controlled trial
- Effect of intraperitoneal and intravenous lignocaine on pain relief following laparoscopic cholecystectomy - A randomized clinical 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.
- Effect of Helicobator pylori eradication on platelet counts in patients with chronic immune thrombocytic purpura - A case control study
- The role of Helicobacter pylori in alcohol induced acute pancreatitis in a tertiary care hospital of South India

Dr. D. Kadambari

- 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.
- Safety and efficacy of lignocaine-Epinephrine infiltration in patients undergoing mastectomy - A double blinded placebo controlled placebo controlled randomised trial
- A randomized controlled trial comparing early oral feeding Vs Traditional feeding in patients undergoing elective open bowel surgery
- Prevalence of post-treatment chronic pain in breast cancer patients and effect of pain on their quality of life
- Workplace-based formative assessment as an educational tool
- Objective Structured Clinical Examination (OSCE) during undergraduate surgical clerkship
- A study of the incidence of metabolic syndrome in breast cancer survivors on adjuvant hormonal therapy (ICMR Short term studentship)

Dr. Vishnu Prasad
- Acute upper gastrointestinal bleeding at JIPMER – a descriptive study.
- Short term outcome in patients undergoing D2 gastrectomy for gastric cancer

Dr. Nandakishore Maroju
- Role of preoperative abdominal drains in patients with peritonitis unfit for early surgery.
- The role of a clinical audit system as a quality improvement tool in the management of breast cancer in JIPMER.
- Objective Structured Clinical Examination (OSCE) during undergraduate surgical clerkship.

Dr. Sreenath G.S.
- Comparison of diagnostic laparascopy and CA 125 with CECT in detecting peritoneal metastasis in gastric cancer

Dr. Manwar Ali
- Comparison of 2 days versus 5 days of octreotide infusion along with endoscopic therapy in preventing early rebleed from esophageal varices - A randomized clinical study

Completed

Dr. S. Jagdish
- Comparison of bone biopsy with aspiration wound swab in infected diabetic foot.

Dr. K. Srinivasan
- The role of ultrasound in predicting severity of acute pancreatitis.
- The effect of exercise on shoulder function post mastectomy.

Dr. Sarath Chandra. S
- The role of imprint smear in H pylori detection in comparison with urease test.

Dr. D. Kadambari
- P-glycoprotein expression as a predictor of response to neoadjuvant chemotherapy in breast cancer – a prospective study.

PUBLICATIONS


**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
AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr. Vikram Kate

- Appointed as a Member on the Editorial Board of the “World Journal of Critical Care Medicine”, international journal published from Beijing, China.

- Appointed as the Member of the Specialty Advisory Board in Surgery - National Board of Examinations, New Delhi for the year 2010-11.

- The Biography of Dr. Vikram Kate, was included in the 2011 Edition of Marquis Who’s Who in the World – source of current biographical information documenting the lives of the world’s most distinguished individuals.

- Awarded Best Paper in oral category presentation in the ‘Luminal disorders section” and was awarded a certificate and cash prize of Rs 5000 at the XXIth National Conference of the Indian Association of Surgical Gastroenterology held at Jaipur from 13th to 16th October 2011 for paper titled “Comparison of efficacy of standard triple therapy versus levofloxacin based therapy for eradication of Helicobacter pylori and prevention of ulcer recurrence in patients with perforated duodenal ulcer following simple closure- a randomized trial.” Raj Gopal, Vikram Kate, Jagdish S, Debhatta Basu.

- Awarded the best poster in the ‘Intestinal Diseases section” and was presented a certificate and cash prize of Rs 3000 at the XXIth National Conference of the Indian Association of Surgical Gastroenterology held at Jaipur from 13th to 16th October 2011 for poster titled “Retrograde jejunogastric intussusception following Billroth II gastrectomy with a Braun jejunojejunostomy.” Raj Gopal, Sri Aurobindo Prasad Das, Sunny Hage, Muthukumarassamy R, Vikram Kate, Ramesh A.

- Is a peer reviewer for several International and National medical journals.

International

- The Surgeon (Journal of The Royal College of Surgeons of Edinburgh & Ireland)
- Medical Science Monitor
- Case Reports in Gastroenterology
- African Journal of Microbiology Research
- Surgical Science

National

- National Medical Journal of India
- Indian Journal of Pharmacology
- Journal of Postgraduate Medicine
- Indian Journal of Urology
- Tropical Gastroenterology
- Indian Journal of Medical Sciences.
- Indian Journal of Surgery
• Indian Journal of Medical Microbiology
• Indian Journal of Medical Research
• Journal of Pharmacology and Pharmacotherapeutics

Dr. D. Kadambari
• Was Selected as expatriate field volunteer for Médecins Sans Frontières (MSF)
• Is a member of the following societies
  1. International surgical society (ISS)
  2. Breast Surgery International (BSI)
  3. Reviewer for Journal of Pharmacology & Pharmacotherapeutics

Dr. Nanda Kishore Maroju
• International Fellow in Surgery, sponsored by the Royal College of Surgeons of Edinburgh, from 12th April 2011 to 29th February 2012.

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. Jagdish S
• Is the Chief Co-ordinator for Emergency Medical Technician Certificate Course

Dr. Kadambari D
• Course Co-ordinator for BSc (Operation Theatre Technology) program.
• Resource person for the National Teacher Training Centre. JIPMER

Dr. Nanda Kishore Maroju
• Is the Course Co-ordinator for Emergency Medical Technician Certificate Course

Dr. Manwar Ali
• Nodal Facilitator for O.T. Technology course.

SIGNIFICANT EVENTS IN THE DEPARTMENT
• Dr. Sri Aurobindo Prasad Das, Senior Resident was awarded the GOLD MEDAL in the DNB (General Surgery) examinations conducted by the National Board of Examinations.
8.37 Surgical Gastroenterology

**Professor & Head**
Vikram Kate

**Additional Professor**
Vishnuprasad NR

**Assistant Professors**
Ranjit Hari V
Biju Pottakkat

**BACKGROUND INFORMATION OF THE DEPARTMENT**
The Department of Surgical Gastroenterology at JIPMER was started in March 2010 with joining of Dr Ranjit Hari V as Assistant Professor and with Dr. Vikram Kate taking over as Professor & Head. Dr Vishnu Prasad, Additional Professor in General surgery, was deputed to the department in May 2010, after he completed his MCh. Dr Biju Pottakkat, joined the department as assistant professor on June 30th 2011. The department started MCh Surgical Gastroenterology course in August 2011 (2 seats). Currently there are four faculty & three senior residents in the department.

**Bed strength:**
- 8 IP beds
- 6 general ward beds
- 2 ICU beds

**EDUCATIONAL COURSES**
Started M.Ch in Surgical Gastroenterology (2 seats) in August 2011.

**CONTINUING MEDICAL EDUCATION PROGRAMS**
Dr. Vishnu Prasad N.R

- Coordinated the Annual guest oration of JIPMER Scientific Society (JSS) on 5th September 2011 – Dr. Subhas Gupta, Senior Consultant in Hepatobiliary surgery and liver transplantation, Indraprastha Apollo hospital, New Delhi spoke on the topic of oration – “Live donor liver transplantation – where we stand today?”

- Member of the Organizing Committee for the 21st AMASI Skill course & CME on advances in laparoscopic Surgery held at JIPMER from the 24th - 26th February 2012. He delivered a lecture on “Diagnostic Laparoscopy” and also chaired the following sessions.
  a. Laparoscopic cholecystectomy in difficult situation
  b. Complications during laparoscopic – how to manage?
  c. CBD stones – laparoscopic & endoscopic management.
Dr. Ranjit Hari V
- Delivered an invited lecture on complications of “laparoscopic cholecystectomy- how to manage” in the 21st AMASI skill course and CME on advances in laparoscopic surgery held at JIPMER from Feb 24th to 26th 2012

Dr. Biju Pottakkat
- Delivered a lecture on Laparoscopic Cholecystectomy at Skill course- February 2012, 21st AMASI Skill Course and CME on advances in Laparoscopic surgery, JIPMER, Puducherry.
- Chairing a session on Video recording for presentations- Skill course- February 2012, Amasi Skill Course, JIPMER, Puducherry.

Dr. Vishnu Prasad N.R
- Attended the International rectal cancer update. 3rd February 2012, Cancer Institute, Chennai
- Attended the 21st AMASI Skill course & CME on advances in laparoscopic Surgery. 24th 26th February 2012, JIPMER, Puducherry. He also delivered a lecture on Diagnostic Laparoscopy and chaired sessions on
  1. Laparoscopic cholecystectomy in difficult situation
  2. Complications during laparoscopic – how to manage?
  3. CBD stones – laparoscopic & endoscopic management.

CONFERENCES

Dr. Vikram Kate
- Attended the XXIth National Conference of the Indian Association of Surgical Gastroenterology held at Jaipur from 13th to 16th October 2011. He delivered a guest lecture in the Video Session on “Closure of a difficult duodenal stump” and participated as an expert on “Meet the Expert session” on “Stomach disorders”. He also chaired a guest lecture on “Tumor biology for G.I. Surgeons” and a session on “Landmark publication in GI Surgery: Their impact on my practice’. Dr. Vikram Kate also judged the poster session on “Esophageal disorders”.

Papers presented at the XXIth National Conference of the Indian Association of Surgical Gastroenterology held at Jaipur from 13th to 16th October 2011.
• Attended the 1st International conference and live operative workshop on Single incision Laparoscopic (SILSCON2011) Surgery at Mumbai between April 29 – May 1, 2011.

Dr. Vishnu Prasad N.R
• Attended 1st international live workshop & conference on esophageal disease, 5th-7th August 2011, Coimbatore
• Attended the International liver Symposium 2011 at Gurgaon,(NCR Delhi) Haryana. 26-28 August 2011
• Attended the 21st Annual conference of Indian Association of Surgical Gastroenterologist (IASG) at Jaipur from 13th to 16th October 2011 and presented a paper on Formalin dab versus Sucralfate-Steroid retention enema as primary treatment in hemorrhagic radiation proctitis - a prospective randomized controlled trial. Also presented as a poster on Role of ultrasonography in predicting the severity of acute pancreatitis.
• Attended the Master class in liver diseases- clinical and pathological perspective-Dec 2nd to 4th 2011 at Chennai.
• Attended PONSICON 2011 at Puducherry from 11th-14th August 2011, and presented a paper on 'An audit of secondary bacterial peritonitis with special reference to peritoneal fluid culture'.
• Intrahepatic Stones – a case report – presented in the GUT CLUB of Pondicherry. 21/01/2012

Dr. Ranjit Hari . V
• Attended the 21st Annual conference of the IASG (Indian Association of Surgical Gastroenterology), Jaipur from 13th to 16th October 2011.
• Attended the 5th Annual Conference of Association of Surgical Gastroenterologists of Kerala at Thrissur, Kerala 5th Feb 2012 and chaired a session on “Difficult situations in Surgical Gastroenterology, 1. Leak after pancreatico jejunostomy, 2. Leak after Low anterior resection”.
• Attended the 1st International workshop and conference on the diseases of esophagus, held at Coimbatore, GEM hospital from 5th to 7th August 2011.

Dr. Biju Pottakkat
• Attended the NIH workshop on systematic reviews and metaanalysis, Lucknow, September 2011.
• Attended the Annual conference of the Indian association of surgical gastroenterology, Jaipur, October 2011.
• Attended the ICON 2012 conference at Bangalore on 24th-25th march 2012.
• Delivered a lecture on Prospective strategy of extended resection in gall bladder cancer, Annual conference of the international college of surgeons, Srinagar Sept. 2011.
RESEARCH PROJECTS

Dr. Ranjit Hari .V

1) Principal investigator in the project “Bacterial profile of pancreatic ductal fluid in patients with chronic calcific pancreatitis undergoing lateral pancreaticojejunostomy” approved by JIPMER Scientific Advisory Committee and pending for approval from JIPMER Ethics committee, collaborating with the departments of Medical Gastroenterology and Microbiology Co investigator to the project

2) Co investigator in the project “Cytokine profile in pancreatic ductal fluid in Indian patients with chronic pancreatitis”. study approved by JIPMER Scientific Advisory Committee and pending for approval from JIPMER Ethics committee, received intramural funding grant of Rs 1 lakh per year for two years for the project., (Collaborating with the department of Medical Gastroenterology and Biochemistry)

3) Coinvestigator to the project titled “Sensitivity and specificity of qualitative and quantitative Tc 99 sulphur colloid scintigraphy in differentiating cirrhosis from non cirrhotic portal fibrosis” approved by JIPMER Scientific Advisory Committee and JIPMER Ethics committee, collaborating with the departments of Medical Gastroenterology and Nuclear Medicine.

Dr. Biju Pottakkat

Principal investigator- Sensitivity and specificity of quantitative and qualitative Tc99m sulphur colloid scintigraphy in differentiating cirrhosis from non-cirrhotic portal fibrosis

PUBLICATIONS


PATIENT CARE SERVICES
1. Admitted and treated as IP, 300 patients in 2011/2012
2. In patient services were started in May 2010, and admitted and treated approximately 300 patient including patients with benign esophageal strictures, esophageal cancers, Liver cancers, Hydatid disease of liver, acute pancreatitis, Chronic pancreatitis, pancreatic cancer, and colorectal cancer.
3. OPD Services were started in May 2010 and approximately 2000 patients were seen and managed in the OPD which runs 2 days a week, Monday and Friday.
4. Endoscopy services including diagnostic upper and lower GI endoscopies on 2 days of the week, Tuesdays and Thursdays.
5. OT Started in June 2010 and a total of 200 surgeries performed in 2011/12, (including trans hiatal and transthoracic esophagectomies, esophago-coloplasties, major liver resections, portal vein embolization for liver tumors, Splenorenal shunts for portal hypertension, Frey’s procedure, Whipple's procedure, Sphincter saving procedures for rectal cancer, and various laparoscopic procedures)
AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Memberships – Professional Bodies:

Dr Vikram Kate
- Royal College of Surgeons of England
- Royal College of Surgeons of Edinburgh
- Royal College of Surgeons of Glasgow
- American College of Gastroenterology
- American College of Surgeons
- Member of the American Society of Colon and Rectal Surgeons
- Association of Surgeons of India
- Indian Association of Surgical Gastroenterology
- National Academy of Medical Sciences
- International Medical Sciences Academy

Dr. Vishnu Prasad N.R
- Presented in the award paper session of 21st annual conference of Indian Association of Surgical Gastroenterologists -IASG 2011, at Jaipur, on 15th Oct 2011 and won the best paper award of RS.10000/-. Paper: Formalin dab versus Sucralfate-Steroid retention enema as primary treatment in haemorrhagic radiation proctitis - a prospective randomized controlled trial.
- Life member of Indian association of Gastrointestinal Endo-Surgeons(IAGES)
- Member of International Hepato-Pancreato-Biliary Association (IHPBA)
- Member of Asia-Pacific Hepato-Pancreato-Biliary Association (A-PHPBA)
- Appointed as subject expert in Surgical Gastroenterology on 02/08/2011 by National Board of examination, New Delhi
- Appointed as subject expert in Surgical Gastroenterology on 02/08/2011 by National Board of examination, New Delhi.

Dr. Ranjit Hari V
- Conferred the Fellowship of Minimal Access Surgeons of India (FMAS) by the Association of Minimal Access Surgeons of India (AMASI)
- Life member of Indian chapter of IHPBA (International Hepato Pancreatic and Biliary Association)
- Life member of AMASI (Association of Minimal access surgeons of India)

Dr. Biju Pottakkat
- Fellowship of the international college of surgeons
- Member of Association of Surgeons of India (ASI)
- Member of Indian Association of Surgical Gastroenterology (IASG)
• Member of Association of Colon and Rectal Surgeons of India (ACRSI)
• Member of Indian Society of Gastroenterology (ISG)
• Member of International hepatopancreatobiliary association- IHPBA
• Member of American Society of Transplantation

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. Vikram Kate

• Appointed as a Member on the Editorial Board of the “World Journal of Critical Care Medicine”, international journal published from Beijing, China.

• The Biography of Dr. Vikram Kate, Professor of Surgical Gastroenterology was included in the 2011 Edition of Marquis Who’s Who in the World – source of current biographical information documenting the lives of the world’s most distinguished individuals.

Peer Reviewer for Journals

The Surgeon (Journal of The Royal College of Surgeons of Edinburgh & Ireland)

• Medical Science Monitor
• Case Reports in Gastroenterology
• African Journal of Microbiology Research
• Surgical Science
• National Medical Journal of India
• Indian Journal of Pharmacology
• Journal of Postgraduate Medicine
• Indian Journal of Urology
• Tropical Gastroenterology
• Indian Journal of Medical Sciences.
• Indian Journal of Surgery
• Indian Journal of Medical Microbiology
• Indian Journal of Medical Research
• Journal of Pharmacology and Pharmacotherapeutics

Dr Vishnu Prasad N.R


• Member of organizing committee for 21st AMASI Skill course & CME on advances in laparoscopic Surgery. 24th 26th February 2012, JIPMER, Puducherry.
Dr. Ranjit Hari V
- Organizing Secretary for the 21st AMASI skill course FMAS examination and CME on advances in Laparoscopic Surgery held in JIPMER from February 24th-26th 2012.
- Member of Hospital Information system (HIS) committee of JIPMER for the year 2011.
- Initiated Colonic replacement of esophagus (esophago coloplasty) and Trans thorasic esophagectomy in the department.
- Peer reviewer for Indian Journal of Gastroenterology.

Dr. Biju Pottakkat
- Secretary of the Gut club Pondicherry which organizes academic meetings once in two months
- Reviewer- two journals- Name out of disclosure
- Initiated Segmental liver resections, Portocaval shunts and Pre-operative portal vein embolization in the department of Surgical Gastroenterology
- Member of the Skills lab committee, JIPMER

SIGNIFICANT EVENTS IN THE DEPARTMENT

CME Conducted by the Department
1. On the occasion of the world hepatitis day, the department of Surgical Gastroenterology jointly with the department of Medical Gastroenterology conducted a symposium on viral hepatitis on 06.08.2012 in SSB Auditorium, JIPMER.
2. The Department of Surgical Gastroenterology, conducted the 21st AMASI (Association of minimal Access surgeons of India) skill course and FMAS exam & CME on Advances in Laparoscopic Surgery in JIPMER from 24th Feb to 26th Feb 2012.
8.38 Surgical Oncology

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<tr>
<th>Professor &amp; In-charge</th>
<th>K. Srinivasan</th>
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<tr>
<td>Assistant Professor</td>
<td>R. Aravind</td>
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BACKGROUND INFORMATION OF THE DEPARTMENT

It is under the administrative control of the Department of Surgery. Department is located in Superspecialty Block in JIPMER and provides the surgical oncology services to patients who are referred to it.

CONFERENCES

Dr. R. Aravind

- Attended the Oncosurg 2011, Surgical Oncology workshop in TATA Memorial Hospital, Mumbai between 11.11.2011 to 13.11.2011.

PUBLICATIONS


PATIENT CARE SERVICES

Clinical

Outpatients: Outpatient clinic run on Monday and Wednesday every week. Patients are generally referred from other departments in JIPMER on a case by case basis if there is a need for surgical oncology consultation.

Inpatients: 6 general ward beds, 2 ICU beds are available.

Operation theatre

One operating slot per week and two every alternate week are currently provided. Minor OT is available for minor surgical procedures or upper airway endoscopy.

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr. R. Aravind

- Passed the Fellowship in Minimal Access Surgery (FMAS) examination held on 26.02.2012 in JIPMER.
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. Renal transplant surgery was started in March 2012.

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

4. Resource person in the 63rd National Course on Educational Science for Teachers of Health Professionals, September 5 to 15, 2011, JIPMER, Puducherry.


Dr. L.N. Dorairajan

1. Organising secretary of the ‘Live Operative Workshop and CME on Operative Management of Female Stress Urinary Incontinence and Genital Prolapse’ at JIPMER, Puducherry on 3rd December 2011

2. Resource person at the Continuing Urological Education Programme on April 2nd and 3rd, 2011, conducted at Ranipet by Christian Medical College, Vellore.

3. Attended as a faculty the ‘Live Workshop on Stricture Urethra and Men’s Health Symposium’ in Dr. RML Hospital & PGIMER, New Delhi from 13.08.2011 to 14.08.2011 and demonstrated flap urethroplasty.

4. Delivered a lecture on ‘Management of female urethral injuries after pelvic fracture’ at the ‘Live Workshop on Stricture Urethra and Men’s Health Symposium’ in Dr. RML Hospital & PGIMER, New Delhi held from 13.08.2011 to 14.08.2011.

Dr. K. Muruganandham

1. Delivered a Lecture on “Role of Surgery in High Risk and locally advanced Prostate cancer” in CME on Bladder and Prostate Malignancies conducted on 3rd April, 2011 at JIPMER, Puducherry.

2. Participated as a Panel member in the Panel discussion “Advances in Prostate and bladder cancer” in CME on Bladder and Prostate Malignancies conducted on 3rd April, 2011 at JIPMER, Puducherry.

3. Member of the Organising Committee of the ‘Live Operative Workshop and CME on Operative Management of Female Stress Urinary Incontinence and Genital Prolapse’ at JIPMER, Puducherry on 3rd December 2011.

4. Chaired a session on “Basics in Laparoscopy” at 21st AMASI skill course and CME on Advances in Laparoscopic surgery from 24th to 26th Feb 2012 at JIPMER, Pondicherry.

5. Delivered a talk on “Live donor kidney transplantation in India: Current perspective and future directives” on 6.03.2012 in the CME as a part of World Kidney Day program conducted at JIPMER.
Dr. R. Manikandan

1. Member of the Organising Committee of the ‘Live Operative Workshop and CME on Operative Management of Female Stress Urinary Incontinence and Genital Prolapse’ at JIPMER, Puducherry on 3rd December 2011.
2. Delivered a Lecture on “Role of Surgery in muscle invasive bladder cancer” in CME on Bladder and Prostate Malignancies conducted on 3rd April, 2011 at JIPMER, Puducherry.

CONFERENCES

Dr. L.N. Dorairajan


Dr. R. Manikandan

4. Attended 2nd Live Advanced LAPURO workshop” on 12th and 13th November 2011 at Civil Hospital, Ahmedabad, Gujarat.
5. Attended “Live operative workshop on Operative management of female stress urinary incontinence and genital Prolapse” held on 3rd December at JIPMER, Puducherry.
6. Attended the ‘Live Workshop on Stricture Urethra and Men’s Health Symposium’ in Dr. RML Hospital & PGIMER, New Delhi from 13.08.2011 to 14.08.2011.

Dr. Muruganandham K.

I. Presented the following papers at the 22nd Annual Conference of Association of Southern Urologists (SZ-USICON 2011) from 8 – 10 July 2011 at Mamallapuram, Chennai.
• Laparoscopy-assisted percutaneous uretero-lithotomy and ureteric reimplantaion for megaureter with large secondary calculi.

• Laparoscopic and endourological management of iatrogenic ureterovaginal fistulæ.

• Circumcaval ureter: Laparoscopic solution to rare congenital anomaly.

• Laparoscopic management of pelviureteric junction obstruction with secondary matrix calculus: focus on complete stone clearance.


III. Conferences and workshops attended:

1. “XVI Annual conference and Operative workshop of TamilNadu and Pondicherry Association of urologists-TAPASUCON “from 23rd to 25th Sep 2011 at Madurai

2. “22nd Annual conference of Urological society of India-South Zone chapter (SZUSICON)” at Mahabaliburam, Chennai from 8th to 10th July 2011

3. “2nd Live Advanced LAPURO workshop” on 12th and 13th November 2011 at Civil Hospital, Ahmedabad, Gujarat

4. “Live operative workshop on Operative management of female stress urinary incontinence and genital Prolapse” held on 3rd December at JIPMER, Puducherry

5. 21st AMASI skill course and CME on Advances in Laparoscopic surgery from 24th to 26th Feb 2012 at JIPMER, Pondicherry

The following papers were presented from the Department of Urology at the 16th Annual Conference of the Tamilnadu and Pondicherry Association of Urologists (TAPASUCON 2011) from 23-25 September 2011 at Madurai.


3. Kumar A, Muruganadham K, Dorairajan LN, Kumar S. Laparoscopic pyeloplasty in crossed fused renal ectopia (L- shaped) and horse shoe kidneys.

4. Rustagi Y, Muruganadham K, Manikandan R, Dorairajan LN, Kumar S. Laparoscopic closure of traumatic bladder perforation-A simple and safe technique


The following papers were presented from the Department of Urology at the 45th Annual Conference of the Urological Society of India (USICON 2012), held in Bengaluru from 5 – 9 January, 2012.


The following papers were presented from the Department of Urology at various JIPMER Scientific Society meetings in the year 2011-12.


RESEARCH PROJECTS

Departmental Project

i. Completed

a. Randomised clinical trial comparing intracorpus spongiosum block versus topical anesthesia for performing internal urethrotomy in urethral stricture.

ii. Ongoing

a. Randomized controlled trial comparing fluoroscopy versus flexible nephroscopy for confirming stone clearance in percutaneous nephrolithotomy.
PUBLICATIONS

Journals:

Chapters in books:

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.
- Surgery for vascular access for dialysis.
- Renal transplant surgery.

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. Examiner for the National Board of Examinations in the subject of Genitourinary Surgery (Urology).
4. Vice President of the JIPMER Officers’ Club for the year 2011-12.

Dr. K. Muruganandham
1. Visited Christian Medical College, Vellore as “Visitor Observer” in the department of Urology from 24th to 26th May 2011 and had exposure in Renal transplantation, Advanced Laparoscopic Urology and Endourology.
2. Served as a coordinator for the “Orientation training program in renal transplantation” for a team of surgeons, anesthesiologists and nursing staff at Christian Medical College, Vellore on 19.02.2012.
3. Played an instrumental role in starting renal transplantation program in JIPMER and did the first renal transplantation surgery (transplant recipient) with the Guidance from Team from CMC, Vellore.
4. Elected as Secretary of JIPMER Scientific Society (JSS) for 2011 – 12 in the General body meeting conducted in December 2011.
8. Passed AMASI skill course (theory, practical and Viva) and obtained Fellowship in Minimal Access Surgeons of India (FMAS).

SIGNIFICANT EVENTS IN THE DEPARTMENT
• Renal transplant surgery was started.
9. DIVISIONS

9.1 Clinical Immunology

Professor & Head
V.S. Negi

Assistant Professor
Molly Mary Thabah

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.2.43 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 these diseases.

EDUCATIONAL COURSES

A. Higher Specialty Courses

DM (Clinical Immunology) since academic year 2009. Intake one student per year. Total number of students enrolled: 3 (JIPMER is one of the 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: 5. One student is enrolled as joint/cotutelle PhD scholar at JIPMER and University of Paris 7, Paris, France.

C. Other Courses

To promote interdisciplinary research and integrate basic biological sciences with medical sciences, the division offers 3 months to 6 months training in the field of Immunology and Molecular Biology to students pursuing M.Sc / M.Tech courses.
CONTINUING MEDICAL EDUCATION PROGRAMS

Dr. Vir Singh Negi

- “Expert Committee meeting on DM, Clinical Immunology” as Co-ordinator at MCI office New Delhi, April 24, 2011.
- Indian Rheumatology Association Conference (IRAICON) 2011, December 1-4, 2011 at CMC Vellore.

Dr. Molly Mary Thabah

- Indian Rheumatology Association Conference (IRAICON) 2011, December 1-4, 2011 at CMC Vellore.

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></td>
<td></td>
<td></td>
<td></td>
</tr>
<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: Correlation with HLA profile</td>
<td>ICMR-INSERM</td>
<td>23.53</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></td>
<td></td>
<td></td>
<td></td>
</tr>
<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>
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</table>
## II. Funding from National Agencies

<table>
<thead>
<tr>
<th>No.</th>
<th>Project Description</th>
<th>Agency</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Immunological studies on Pollen Allergy.</td>
<td>UGC</td>
<td>12.00</td>
</tr>
<tr>
<td>2</td>
<td>Lupus Nephritis: Studies on immunogenetic profile of patients from South India.</td>
<td>DST</td>
<td>31.50</td>
</tr>
<tr>
<td>3</td>
<td>Immunological studies in rheumatoid arthritis treated with homeopathic drugs.</td>
<td>CCRH</td>
<td>28.00</td>
</tr>
<tr>
<td>4</td>
<td>Modulation of cytokine profile by homeopathic drugs in RA: in-vitro</td>
<td>CCRH</td>
<td>23.00</td>
</tr>
<tr>
<td>5</td>
<td>Identification of urinary biomarkers for diagnosis, prognosis and follow up of patients with SLE nephritis</td>
<td>DBT</td>
<td>11.87</td>
</tr>
</tbody>
</table>

## III. Intramural Funding

<table>
<thead>
<tr>
<th>No.</th>
<th>Project Description</th>
<th>Institution</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Effect of genetic polymorphisms in methotrexate transporter genes on treatment response in patients with rheumatoid arthritis</td>
<td>JIPMER</td>
<td>2.0</td>
</tr>
<tr>
<td>2</td>
<td>Molecular characterization of non classical HLA genes (HLA-G, HLA-E) and their contribution to disease susceptibility and severity in Rheumatoid Arthritis (RA)</td>
<td>JIPMER</td>
<td>1.0</td>
</tr>
<tr>
<td>3</td>
<td>A study of Pro- and Anti-inflammatory immune markers in acute psychosis and their relation to stress and clinical status.</td>
<td>JIPMER</td>
<td>0.93</td>
</tr>
<tr>
<td>4</td>
<td>Study of genetic factors influencing susceptibility to infections in Systemic Lupus Erythematosus (SLE)</td>
<td>JIPMER</td>
<td>1.0</td>
</tr>
<tr>
<td>5</td>
<td>Inflammatory mediators as markers of infection and predictors of outcome in perinatal asphyxia</td>
<td>JIPMER</td>
<td>1.0</td>
</tr>
</tbody>
</table>

**TOTAL** | **243.34**

Total Research Grants generated by division till March 2012: Rs. 243.34 Lakh

PhD Scholar enrolled: 5 (International Joint PhD Program: 1 student)

Research personnel employed under the research projects:

1. Senior Research Fellow (SRF): 2
2. Laboratory Technician: 1

**PUBLICATIONS**

2. Panner D, Negi VS. IL1 Receptor Antagonist (IL1RA) VNTR polymorphism confers susceptibility to SLE in South Indian Tamil population” in 5th Autoimmunity Congress Asia 2011 at Singapore, November 17-19, 2011.
PATIENT CARE SERVICES

A. Clinical

At present, the “Division of Clinical Immunology” and its “Clinical Immunology Laboratory” offer a large number of patient care services. The immunodiagnostic services include advance immunological (Immunoflorescence, ELISA, RIA, Nephelometry, Immunoblotting) and molecular (PCR- HLA B27, DR-DQ) tests for early and specific diagnosis of autoimmune 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 in near future.

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 2011-2012 was 16,347. In addition, 25,448 research investigations were also performed which are likely to be helpful in establishing newer patient care facilities in near future.

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Name of the Test / Procedure</th>
<th>Numbers performed</th>
</tr>
</thead>
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<tr>
<td></td>
<td></td>
<td>2011-2012</td>
</tr>
<tr>
<td>Patient care services</td>
<td></td>
<td></td>
</tr>
<tr>
<td>I. Diagnostic Services</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>ELISA</td>
<td>3,717</td>
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<tr>
<td>2.</td>
<td>Indirect Immunoflorescence (IIF)</td>
<td>1,917</td>
</tr>
<tr>
<td>3.</td>
<td>Nephelometry</td>
<td>5,465</td>
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<tr>
<td>4.</td>
<td>Immunoblot</td>
<td>2,040</td>
</tr>
<tr>
<td>5.</td>
<td>PCR (HLA B27, DR, DQ)</td>
<td>1,304</td>
</tr>
<tr>
<td>6.</td>
<td>Allergy test (SPT)</td>
<td>104</td>
</tr>
<tr>
<td>7.</td>
<td>Joint aspirations</td>
<td>205</td>
</tr>
<tr>
<td>8.</td>
<td>Miscellaneous</td>
<td>273</td>
</tr>
</tbody>
</table>
AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS
Dr. V.S. Negi visited INSERM unit 940, Hospital St. Louis, Paris, France for a period of 15 days from 18.12.2011 to 03.01.2012 under the ICMR-INSERM collaborative research project.

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS
Dr. Vir Singh Negi
1. MCI inspector for DM (Rheumatology) course.
2. Technical expert for selecting medical equipment for Ministry of Health and Family Welfare under PMSSY scheme of the Govt. of India.
3. Pondicherry University nominee for selection of Faculty for the Indira Gandhi Govt. Medical College, Puducherry.
4. Member, MCI core committee for development of curriculum for DM Clinical Immunology.
5. Head of the division of Clinical Immunology. Responsible for establishment of dedicated patient care services, research facilities and DM and PhD teaching / training programs in the speciality.
6. Member, Institute Core Committee on Renal Transplantation.
7. Member, Advisory committee for establishing Multidisciplinary Advanced Research Center (MARC).
8. Member, research projects monitoring committee.
9. Member, PhD program implementation and monitoring committee.
SIGNIFICANT EVENTS IN THE DEPARTMENT

Fellowship / overseas visits for training:

1. Dr. V.S. Negi visited Hospital Saint Louis, Paris, France from 18th December 2011 to 3rd January 2012 under the ICMR-INSERM collaborative research program in Medical Sciences between the Govt. of India and France.

2. M. Christina Mary, PhD student visited Hospital Saint Louis, Paris, France from 8th October 2011 to 2nd January 2012 for a period of three months under the ICMR-INSERM collaborative research program in Medical Sciences between the Govt. of India and France.

Up gradation of Education Facilities:

Establishment of an international cotutelle/joint PhD program with the University of Paris 7, Paris, France under an MOU between JIPMER and University of Paris 7, Paris, France. Under this program at present one student is enrolled as joint PhD student at both the institutions. The second is likely to join shortly.

Establishment of New Patient Care Facilities:

Diagnostic: Establishment of HLA typing facilities.

Establishment of New Research Facilities: Establishment of stem cell culture facilities (for use in stem cell transplantation program).

Acquisition of new equipment:

1. CO2 incubator
2. -20°C Deep Freezer
3. Gel documentation system
4. Water purification system
5. ELISA reader and washer
6. Cell harvester
7. Steam sterilizer
8. Floor model centrifuge

The following students attended the various conferences:

- Dr. Mithun C.B (DM Student) – Indian Rheumatology Association Conference (IRACON) 2011, December 1-4, 2011 at CMC Vellore.

JIPMER:2011-2012/463
Dr. D. Panneer (PhD Scholar) – Attended and presented a paper entitled “IL1 Receptor Antagonist (IL1RA) VNTR polymorphism confers susceptibility to SLE in South Indian Tamil population” in 5th Autoimmunity Congress Asia 2011 at Singapore, November 17-19, 2011.

M. Niveditha (PhD Scholar) – “International Conference on Medical Genetics and Genomics” at Thiruchirapalli, December 12-14, 2011.

M. Benita Nancy Reni (PhD Scholar) – “International Conference on Medical Genetics and Genomics” at Thiruchirapalli, December 12-14, 2011.

S. Aparna (PhD Scholar) – “International Conference on Medical Genetics and Genomics” at Thiruchirapalli, December 12-14, 2011.

Visiting Professors:

I. Visit of Foreign Faculty:

ICMR-INSERM collaborative research program between Govt. of India and France:

a. Dr. Ryad Tamouza, AP HP and Director Research, INSERM Unit 940, Centre Hayem, Institut d'Hématologie, Hôpital Saint Louis, 1 Av. Claude Vellefaux, Paris, France. (18th September to 2nd October 2011).

b. Dr. Krishnamoorthy Rajagopal DR1, INSERM, Paris, France. (18th September to 2nd October 2011).

c. Dr. Ryad Tamouza, AP HP and Director Research, INSERM Unit 940, Centre Hayem, Institut d'Hématologie, Hôpital Saint Louis, 1 Av. Claude Vellefaux, Paris, France, (February 3-7 & 21-22, 2012).

d. Dr. Krishnamoorthy Rajagopal DR1, INSERM, Paris, France, (February 3-7 & 21-22, 2012).

During their visits they discussed the research projects being implemented under ICMR-INSERM international scientific collaboration program between Govt. of India and Govt. of France. They also helped to establish many molecular and immunological research facilities at ‘Clinical Immunology Laboratory’ of JIPMER.

II. Visits of Indian Faculty:

1. Dr. G. Harish Kumar, Scientist ‘D’, SERC-Division, Dept. of Science and Technology, New Delhi visited JIPMER from 25.01.2012 to 27.01.2012 to assess the progress of the projects and functioning of the Clinical Immunology Laboratory established under DST-FIST funding.

2. Dr. Ramnath Misra, Senior Professor and Head, Department of Clinical Immunology, SGPGIMS, Lucknow visited the Division of Clinical Immunology from 05.03.2012 to 10.03.2012.
9.2 Clinical Pharmacology

Professor & In-charge
C. Adithan
Professor
Steven Aibor Dkhar

BACKGROUND INFORMATION OF THE DEPARTMENT

Clinical pharmacology is the scientific discipline that involves all aspects of the relationship between drugs and humans. Clinical pharmacologist has the 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. They participate 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. 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 superspecialty services, the Department of Pharmacology, JIPMER started DM Clinical Pharmacology course in 2009.

EDUCATIONAL COURSES

The DM Clinical Pharmacology superspecialty course was started on 1st October 2009 with an intake of one candidate per year. The candidate is selected based on the performance in the entrance examination.

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

Dr. C. Adithan

- Organizing Secretary for WHO sponsored “CME on anti-microbial resistance” that was organised on April 7th 2011 (World Health Day) under the chairmanship of Dean Dr. K.S Reddy.

- Organizing chairman for the conference of the Indian Pharmacological Society (Pondicherry Branch), organized by department of pharmacology held on 22nd September 2011 in conference hall, SS Block, JIPMER.

- Organizing secretary for the “National workshop on clinical research for clinical investigators” organized by Division of Clinical Pharmacology, JIPMER in association with Indian Society for Clinical Research (ISCR), in JIPMER Puducherry during 21st – 22nd, October, 2011.
• Attended the meeting of the Expert Committee for approval of new drugs and global clinical trial on 17 December 2011 at the Office of the Drug Controller General of India, Govt. of India, FDA Bhawan, New Delhi.

• Attended the meeting of the Scientific Advisory Group of Division of Basic Medical Science that was held on 26th December 2011 in ICMR Hqrs. Office New Delhi.

Dr. Steven Aibor Dkhar

• Joint organizing secretary for the “National workshop on clinical research for clinical investigators” organized by Division of Clinical Pharmacology, JIPMER in association with Indian Society for Clinical Research (ISCR), in JIPMER Puducherry during 21st – 22nd, October, 2011.

Workshops organized by the department

The Division of Clinical Pharmacology organized Workshop on “Clinical Research for Clinical Investigators” in collaboration with the Indian Society for Clinical Research and Clintec, Bangalore on October 21 and 22, 2011. The objective of the workshop was to train the participants with the essential skills and knowledge involved in carrying out clinical trials. Dr. KSVK. Subba Rao, Director, JIPMER inaugurated the workshop and gave the inaugural address. A total of 41 delegates from various parts of the country from both academia and industry attended the workshop. Reputed speakers from the academia and industry shared their vast experiences with the delegates of workshop.

CONFERENCES

Dr. C Adithan

• Attended the International Conference on Medical Genetics and Genomics (ICMG-2011) on 13 December 2011 at the Bharathidasan University, Tiruchirappalli and delivered a Guest Lecture titled “Genetic polymorphism of drug metabolizing and transporters genes of South Indian Populations and their clinical importance”.

• Attended the 44th Annual conference of India Pharmacology Society, organized by Kasturba Medical College, Manipal during 19-21, December, 2011. He Chaired a Guest Lecture on Clinical Development of Newer Anticoagulants and moderated a symposium on “Pharmacologists Meeting the Regulatory Challenges”.

Dr. Steven Aibor Dkhar

• Attended the conference of the Indian Pharmacological Society (Pondicherry Branch), organized by department of pharmacology held on 22nd September 2011 in conference hall, SS Block, JIPMER.

Poster Presentations by DM Clinical Pharmacology Senior Residents in conferences

• “Status of clinical trials in India in comparison to developed countries.” in the annual conference of Indian Pharmacological Society (IPSCON) – 2011, Manipal during 19-21, December, 2011.
“Effect of Pharmacovigilance awareness programme on ADR reporting in a tertiary care hospital” in ‘5\textsuperscript{th} International conference on Clinical Pharmacology discovery development and beyond’ organized by South Asian Chapter of American College of Clinical Pharmacology (SAC-ACCP) in Mumbai from 27-28\textsuperscript{th} Aug, 2011.

**Academic programmes of the Division**

Seminars and lectures were conducted in the following topics. The presentations were made by DM students viz., Dr. Melvin George, Dr. S. Sandhiya and Dr. Suresh Kumar S.

1. Principles of ECG
2. Clinical Trials in stroke
3. Phase 1 clinical trials (Part 1 & 2)
4. Sleep disorders
5. Schedule Y
6. Coronary artery disease diagnosis and treatment (Part 1 & 2)
7. Pulmonary function testing (Part 1, 2)
8. DRESS syndrome
9. Warfarin therapeutic dilemma
10. Therapeutic drug monitoring
11. Gum enlargement
12. Human placentrix
13. Clinical trials in oncology – an overview
14. PK/PD modelling (Part 1, 2, 3)
15. Clinical trials in therapeutic cancer vaccines
16. Cardiopulmonary exercise testing (CPET)
17. Adaptive design clinical trials
18. Bioavailability and Bioequivalence studies
19. Pharmacotherapy of Alcohol dependence
20. Assessment of Cardiovascular Risk – PeriScope
21. Intention to treat Vs Non Intention to treat analysis
22. Clinical Trial Endpoints for the Approval of Cancer Drugs
RESEARCH PROJECTS

The list of ongoing projects that are being undertaken by clinical pharmacology division

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Project Name</th>
<th>Collaborating department(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Effect of nebivolol on endothelial dysfunction in coronary artery disease patients (NEDCAD)</td>
<td>Cardiology</td>
</tr>
<tr>
<td>2.</td>
<td>Efficacy of nitric oxide in stroke (ENOS)</td>
<td>Neurology</td>
</tr>
<tr>
<td>3.</td>
<td>Comparison of ranolazine and trimetazidine on glycemic status in chronic angina patients with diabetes mellitus – randomized parallel arm trial (CORANT)</td>
<td>Cardiology</td>
</tr>
<tr>
<td>4.</td>
<td>Randomized double blind placebo controlled trial of sodium ozagrel and edaravone in acute ischemic stroke (EDOZ)</td>
<td>Neurology</td>
</tr>
<tr>
<td>5.</td>
<td>Assessment of arterial stiffness index in hypertensive patients attending a tertiary health centre in South India</td>
<td>Medicine</td>
</tr>
<tr>
<td>6.</td>
<td>Prescription patterns at admission to pediatric general ward in a tertiary health centre.</td>
<td>Paediatrics</td>
</tr>
<tr>
<td>7.</td>
<td>Frequency of ADR among the outpatients with ischemic heart disease attending the cardiology OPD in a tertiary care hospital.</td>
<td>Cardiology</td>
</tr>
<tr>
<td>8.</td>
<td>Cardiopulmonary exercise testing in South Indian healthy volunteers.</td>
<td>Cardiology, Pulmonary Medicine &amp; Endocrinology</td>
</tr>
</tbody>
</table>

PUBLICATIONS

1. Drug alert, an official News letter of “Adverse drug reaction monitoring centre” being published regularly. (Feb, May, August 2011 issues)


PATIENT CARE SERVICES

a. Adverse drug reaction monitoring centre
   - ADR reports are assessed for causality every week and sent to the ADR database of
     the country. Periodic release of drug safety article “Drug alert”
   - Pharmacovigilance advisory committee meeting was conducted on 13th March, 2012

b. Therapeutic drug monitoring
   TDM service to hospital is being provided for drugs such as tacrolimus, cyclosporine,
   phenytoin, phenobarbitone, and carbamazepine. During 2011-2012, 236 TDM assays
   have been performed. Urinary VMA is also being done. It is planned to extend the
   TDM service to more drugs of oncology and neurology.

c. Polysomnography studies
   Polysomnography studies are being conducted in Division of Clinical Pharmacology,
   with effect from December 2011 in patients with symptoms suggestive of obstructive
   sleep apnoea / hypopnoea syndrome.

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

DM Clinical Pharmacology Senior residents team comprising Dr. Melvin George, Dr.
Sandhiya and Dr. S. Suresh Kumar were awarded 2nd prize in Quiz organized by IPSCON
2011, 44th Annual conference of Indian Pharmacological Society in Manipal during 19-21st
December.

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
   - Postgraduate (M.D.) teaching in-charge
Dr. Steven A. Dkhar

- Officer in-charge of stores, Dept. of pharmacology
- Officer in-charge of laundry and linen sections
- Teaching in-charge for MRO
- Sub co-ordinator, ADR monitoring centre

SIGNIFICANT EVENTS IN THE DEPARTMENT

- Dr. Melvin George delivered a guest lecture on “Advances in Pharmacogenomics” in Dept of Biotechnology, Vel Tech Engineering college, Avadi, Chennai in August 2011.
- Dr. S. Sandhiya attended Preconference workshop on ‘Pharmacokinetics: Protocol development, conduct & analysis’ organized by South Asian Chapter of American College of Clinical Pharmacology (SAC-ACCP) in Mumbai on 26 Aug, 2011

Procuring of the following equipments

- ZAN-600 Cardiopulmonary exercise testing system for assessment of cardiopulmonary function.
- HDPFT-4000 Body box plethysmography for basic and advanced pulmonary function testing system.
- Periscope for assessment of arterial stiffness, ankle brachial index and carotid femoral pulse wave velocity.
9.3 Emergency Medical Services

Chief Medical Officer & In-charge
Rajan Swain

PATIENT CARE SERVICES
A. Clinical

Emergency Medical Services Department caters to very large population from very wide area bordering Vellore, Cuddalore, Villupuram, Ariyalur, Thanjavur, Nagappattinam & Thiruvannamalai districts. All kinds of medical and surgical emergencies are being treated in the EMSD including polytrauma, poisonings, myocardial infarction, acute abdomens, burns etc.

Casualty Medical team consisting of 4 Nos. of Casualty Medical Officers, 6 Nos. of Assistant Casualty Medical Officers, Nurses assisted by Trauma Technicians, Student Nurses, Dressers, Nursing Attendants, Safaiwala and other ancillary hospital staffs.

In order to Cater to the emergency referral services, EMSD is provided with 2 ambulances equipped with life support systems. The patients are treated by the referred to specialty duty teams medicine, surgery, Neurosurgery, ortho, CTVS etc., for specialty treatment after initial assessment.

For the diagnostic purposes, the EMSD 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 for burns is functioning with additional paramedical workers for burns affected patients.

Emergency OT situated in the 2nd floor of EMSD, along with post operative Ward & CCCU. The Emergency OT is equipped with 3 OT tables and averages of 400 operations a month, functioning round the clock. It also has separate ID OT for gas gangrene cases.

Statistics of patients attended Casualty during 2011 – 2012

<table>
<thead>
<tr>
<th>Month &amp; Year</th>
<th>No. of patient attended Casualty</th>
</tr>
</thead>
<tbody>
<tr>
<td>April</td>
<td>2560</td>
</tr>
<tr>
<td>May</td>
<td>2645</td>
</tr>
<tr>
<td>June</td>
<td>2667</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 creatining, ionized calcium, ionized magnesium electrolyte sodium, electrolyte potassium, creatinine kynase direct, creatinine kynase total, bilirubin total, bilirubin direct, SGOT, SGPT, troponin – I card test, heamoglobin estimation, packed cell volume, serum ALP, total protein, etc.

Statistics of Laboratory Services during 2011 – 2012

<table>
<thead>
<tr>
<th>Month &amp; Year</th>
<th>Total samples received</th>
<th>Total Investigations conducted</th>
</tr>
</thead>
<tbody>
<tr>
<td>April</td>
<td>4775</td>
<td>24151</td>
</tr>
<tr>
<td>May</td>
<td>5410</td>
<td>28266</td>
</tr>
<tr>
<td>June</td>
<td>5195</td>
<td>207407</td>
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<tr>
<td>July</td>
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<td>28979</td>
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<td>August</td>
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<td>September</td>
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<td>January</td>
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<td>29712</td>
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<tr>
<td>February</td>
<td>5221</td>
<td>29001</td>
</tr>
<tr>
<td>March</td>
<td>4973</td>
<td>26321</td>
</tr>
</tbody>
</table>

ACADEMIC, ADMINISTRATION, CENTRAL FACILITIES, ETC.,
The administrative head of EMSD is a Chief Medical Officer, monitoring the patient services rendered at EMSD.
9.4 Neonatology

Professor & In-charge
B. Vishnu Bhat
Assistant Professor
B. Adhisivam

BACKGROUND INFORMATION OF THE DIVISION

The Division of Neonatology was started in August 2009. DM Neonatology course was commenced on August 2009 with an intake of one student per year. Ph. D 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, two or more Postgraduates in Paediatric are allotted dissertation topics in Neonatology. Clinical Research in basic neonatal care is another key task undertaken by the Division.

EDUCATIONAL COURSES

A. Undergraduate Courses
   The undergraduate teaching of the department comprises of M.B.B.S. course. The number of students in each batch is 116.

B. Postgraduate Courses
   M.D. (Paediatrics) 10 students per academic year from 2011.

C. Post doctoral Courses
   D.M. (Neonatology) – 1 student per academic year.

D. Research Courses
   • Ph.D. in Neonatology – currently 2 Ph.D. scholars are enrolled in Neonatology.
   • In addition, collaborative postgraduate dissertations / Ph.D. thesis is on with Department of Anatomy and Microbiology.

CONTINUING MEDICAL EDUCATION PROGRAMMES

“Second Regional Workshop on Bedside Diagnostics for Paediatric Intensive Care in Developing World - Applications of Echocardiogram in Pediatric and Neonatal Intensive Care: A Skill Based Training” was conducted in the Department of Paediatrics on 10th December 2012 with financial support from Medical council of India with an objective to enhance the skills required at the bedside in treating critically ill neonates and children.
CONFERENCES
Dr. B. Vishnu Bhat

- Delivered a talk on ‘Recent Concepts in management of perinatal asphyxia’ in the CME programme by IMSA, Puducherry Chapter held at Pondicherry Institute of Medical Sciences, Puducherry on 01.04.2011
- Chaired a session on ‘Anti-hemophilia factor inhibitors at JIPMER as part of celebration of World Hemophilia Day on 17.4.2011
- Delivered a Guest lecture on “Pitfalls in the diagnosis and management of Neonatal Jaundice” from 11th to 14th August, 2011 at Tamirabarani Pedicon 2011, XXXVI Tamil Nadu State Annual Paediatric Conference, IAP, TNSC at Tirunelveli
- Attended NTTC National Workshop on Medical Education as Faculty from 5.9.2011 to 15.9.2011 at JIPMER.
- Meducon 2011, JIPMER from 30.9.2011 to 2.10.2011. Faculty for workshop on ‘Assessment methods for Postgraduate Medical Education. Coauthored a free paper ‘Need for reorientation of nurses in essential new born care’ which was given best free paper award.
- Attended APSMEC 2012 Conference at Mamata Medical College, Khammam and delivered a guest lecture on “Development of Clinical Skills in Undergraduate curriculum” on 28th and 29th January, 2012.
- Attended Kerala NEOCON 2012 at Thiruvananthapuram on 18th and 19th February, 2012 and delivered a guest lecture on ‘Therapeutic Hypothermia in Perinatal asphyxia and outcomes’.
- Attended NTTC National Workshop on Medical Education as Faculty from 15th to 25th February, 2012 at JIPMER.
- Delivered a Talk on “Essay Questions” at Shri Sathya Sai Medical College and Research Institute, Tirupurur, Chengalpet on 3.3.2012.

Dr. B. Adhisivam

- Attended INDVAC 2011 -Second Advanced Vaccinology course, Vellore - Sep 27 - Oct 6, 2011
- Participated as a faculty in the workshop on Neonatology for Obstetricians held during Neocon 2011 XXXI Annual Convention of National Neonatology Forum, Chennai - Dec 15, 2011
- Attended the District Instructor Training - IAP Neonatal resuscitation programme, 14th and 15th May, 2011 at Pondicherry.
- Participated as a Facilitator for IMNCI Programme for Nurses, 5-12th Sept.2011 at Mother Theresa Postgraduate and Research Institute of Health Sciences organized by State Rural Health Mission, Pondicherry.
• Attended as an expert in the Protocol Finalization Meeting - Multicentre study on Stratification of perinatal risk factors and outcome at Trivandrum, 17th - 18th March 2012, organized by Child Development Centre, Medical College, Thiruvananthapuram, Kerala.
• Participated as a faculty in hands on training “Basic neonatal care and resuscitation” on 29th March, 2012 at Mother Theresa Postgraduate & Research Institute of Health Sciences organized by the Indian Academy of Paediatrics and School of Nursing and Society of Midwives, India.

RESEARCH PROJECTS
A. Funded Projects
Dr. Vishnu Bhat
• Polymorphism in S100A9 gene in relation with disease susceptibility and outcomes in neonatal sepsis. ( DBT funding requested )
• Early versus late enteral prophylactic iron supplementation in very low birth weight newborn infants: A randomized controlled trial - Intramural fund, Rs.80,000 )

B. Departmental Projects
Completed
• Early neonatal outcome in caesarean section.
• Outcome of late preterm babies.
• DNA damage in perinatal asphyxia.
• Chromosome breakage in Down syndrome.
• Therapeutic hypothermia in perinatal asphyxia.
• Therapeutic hypothermia on oxidative stress among term neonates with Hypoxic Ischemic Encephalopathy.
• Fungal septicemia among newborn babies.
• Outcome of surfactant therapy for preterm babies.

Ongoing
• Inflammatory mediators as markers of infection and predictors of Outcome in Perinatal Asphyxia
• Probiotics therapy for prevention of Necrotising Enterocolitis (NEC) in preterm infants – a randomized controlled trial
• Oxidative stress and antioxidant status in neonates born to pre eclamptic mothers and their effect on early neonatal outcome.
• Postnatal counseling on exclusive breast feeding using video
• Effect of therapeutic hypothermia on DNA damage in term neonates with perinatal asphyxia.
• Transport of sick neonates to JIPMER: A simple clinical score at arrival and its effect on outcome
• Respiratory morbidity among newborns and their outcome during early infancy.

JIPMER:2011-2012 / 475
C. Collaborative Research Projects

Dr. Vishnu Bhat

Co-guide for the following extra – departmental research projects with the Department of Anatomy.

- DNA Damage in Phototherapy.
- DNA Damage in neural tube defects
- Immunoglobulin level in Down syndrome
- Oxidative stress in Down syndrome
- Chromosomal breakdown in Down syndrome
- Oxidative stress in perinatal asphyxia
- Evaluation of new molecular based diagnostic system in comparison to routine blood culture in diagnosing neonatal sepsis –RCT

Dr. B. Adhisivam

- Co-guide for research project titled “DNA Damage in children with cleft lip and cleft palate (with Department of Anatomy)

PUBLICATIONS

Journals


**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. Section Editor – Indian Journal of Paediatrics
3. Participated in World Cancer day as Chief Guest at JIPMER on 15.2.2012 and at University (Nov. 16 – 30, 2011).

ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

Dr. B. Vishnu Bhat
1. Faculty NTTC, JIPMER
2. Executive committee member, NTTC Alumni Association

Dr. B. Adhisivam
1. Executive committee member, JIPMER Scientific Society
2. Executive committee member, JIPMER Faculty Association

SIGNIFICANT EVENT IN THE DEPARTMENT

The following visiting consultants have interacted with the faculty, Neonatology fellows, residents and Ph.D Scholars in Paediatrics. Their interactions were useful and appreciated by all the residents and faculty.

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Name</th>
<th>Affiliation</th>
<th>Period of visit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr. Dharmapuri Vidyasagar</td>
<td>Professor Emeritus Pediatrics, Division of Neonatology, University of Illinois at Chicago, USA</td>
<td>30.10.11 to 08.11.11</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Nagamani R. Beligere</td>
<td>Medical Director, Developmental Follow-up Program University of Illinois at Chicago Medical Center, USA</td>
<td>30.10.11 to 08.11.11</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Rama Bhat</td>
<td>Professor of Pediatrics, Medical college of Wisconsin, USA</td>
<td>31.01.12 to 05.02.12</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. Prakash Kumar Dey</td>
<td>Pediatric consultant , NHS, UK</td>
<td>22.02.12</td>
</tr>
</tbody>
</table>

Awards won by Junior Residents in the department

- Dr. Sukanya Govindan and Dr, Shruti K. Bharadwaj, Final Year PGs successfully won the Divisional round of Neonatology Forum PG quiz held in CMC, Vellore.
- In NEOCON 2011, XXXI Annual Convention of National Neonatology Forum, Chennai (14-18, Dec 2011), the following 6 free scientific papers (1 oral and 3 posters) were presented.
<table>
<thead>
<tr>
<th>Oral/Poster</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poster I</td>
<td>Fungal septicemia among preterm babies</td>
<td>Femitha P, Adhisivam, Vishnu Bhat B</td>
</tr>
<tr>
<td>Poster II</td>
<td>Color change of skin in Fungal sepsis</td>
<td>Femitha P, Adhisivam, Vishnu Bhat B</td>
</tr>
<tr>
<td>Poster III</td>
<td>Therapeutic Hypothermia For Term Neonates With Perinatal Asphyxia</td>
<td>Shruthi K Bharadwaj, Vishnu Bhat B</td>
</tr>
<tr>
<td>Poster IV</td>
<td>Outcome of surfactant therapy – JIPMER Experience</td>
<td>Femitha P, Vishnu Bhat B</td>
</tr>
<tr>
<td>Poster V</td>
<td>Cantu Syndrome</td>
<td>Rojo Joy, Adhisivam, Vishnu Bhat B</td>
</tr>
</tbody>
</table>

- Dr. Femitha, Fellow in Neonatology bagged the best paper award in MEDUCON 2011 for the paper titled “Essential newborn Nursing: Need for re-orientation of staff”.

- Dr. Benet Bosco Dhas, Ph.D scholar in Neonatology underwent a 15 days training course “Epigenetics 1: DNA Methylation Analysis”, sponsored by UGC – NRCBS at Madurai Kamaraj.
9.5 Transfusion Medicine

Additional Medical Superintendent & In-charge
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) was 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 60 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. Leukoreduced blood components are also available. Advanced procedures such as plasma exchange, Plateletpheresis, Leukopheresis 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, BMRT and B.Sc Perfusion Technology students

B. Postgraduate Course

MD Immunohaematology and blood transfusion

C. Post B.Sc MLT certificate course in blood banking and blood components
CONFERENCES

Dr. S.P. Subbiah

- Participated in Blood bank/blood centre Quality management program organized by NACO from 29th to 31st Aug 2011 at Mumbai.
- Participated and delivered a guest lecture on autoimmune haemolytic anemia in TAPCON conference held on 05.11.2011 at Madras Medical College, Chennai.

Dr. Pratul Sinha

- Blood bank/blood centre Quality management program organized by NACO from 29th to 31st Aug 2011 at Mumbai.
- Participated and presented four posters in 36th Annual National Conference of the Indian society of Blood Transfusion & Immunohaematology (TRANSCON’2011) Haryana from 30.10.2011 to 01.11.2011

RESEARCH PROJECTS

A. 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.

B. Collaborative 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.

PATIENT CARE SERVICES

A. Clinical

Blood component Issues

<table>
<thead>
<tr>
<th>Component</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>PRBC</td>
<td>11527</td>
</tr>
<tr>
<td>FFP</td>
<td>10904</td>
</tr>
<tr>
<td>Random Donor Platelets</td>
<td>07942</td>
</tr>
<tr>
<td>Cryoprecipitate</td>
<td>00102</td>
</tr>
</tbody>
</table>
B. Laboratory
Blood Grouping, Rh typing 37337
In-direct Antiglobulin Test 01512
Direct Antiglobulin Test 01481
Irregular Antibody screening 10512
Investigation of auto immunohaemolytic anemia 00071
Plasmapheresis 00005
Plateletpheresis 00067
Leukopheresis 00003

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.
- 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, Puducherry, Kerala and Karnataka.

Dr. Pratul Sinha


SIGNIFICANT EVENTS IN THE DEPARTMENT

1. A quiz competition on blood donation awareness was organized on 08.07.2011(Friday) at JIPMER Auditorium. In this quiz competition students from 15 medical colleges in Puducherry and nearby places of Tamil Nadu participated.

2. A Blood Donation Awareness Rally was organized on 09.07.2011(Saturday). About 1000 NSS / NCC students and nursing College Students participated in the rally holding slogan written banners and display cards.


5. Intercollege quiz competition was organized on 01.12.2011 on World AIDS Day at JIPMER Auditorium.

7. Dr. Mohandoss. M, II\textsuperscript{nd} yr PG won third prize in Haematology Quiz competition at SRMC Chennai on 16\textsuperscript{th} April 2011.

8. A team of three Post Graduate students represented JIPMER in State level Quiz Competition Organized by Indian Society of Hematology & Transfusion Medicine (ISHTM) on 24.07.2011 held at Cancer Institute Adyar, Chennai. Dr. Mohandoss. M, Second Year, Junior Resident, Transfusion Medicine was one of the participant and the team won First prize. The same team won Second prize in Zonal level Quiz Competition in Narayana Hrudhalaya Hospital, Bangalore.
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>
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</tr>
<tr>
<td>S. Ramesh</td>
<td></td>
</tr>
<tr>
<td>R. Lakshmi</td>
<td></td>
</tr>
<tr>
<td>D. Vetriselvi</td>
<td></td>
</tr>
<tr>
<td>Padmavathi Nagarajan</td>
<td></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 with an annual intake of 75 students.

CONTINUING NURSING EDUCATION PROGRAMME

Mrs. D. Vetriselvi

- Attended Continuing Nursing Education programme on critical care nursing at JIPMER as a Resource person and delivered a lecture on “Infection control in ICU” on 29.10.11
CONFERENCES

Dr. S. Revathi

- Attended National Consensus Workshop for GFATM staff organized by Indian Nursing Council at Jaipur, Rajasthan from 10.2.12 to 11.2.12.
- 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, Kerala on 07.04.2011 and 08.04.2011

Mrs. M.J. Kumari

- Attended Conference of the Indian Pharmacological Society at JIPMER organized by Department of Pharmacology, JIPMER on 22.09.11.
- Attended International Conference on Transcultural nursing from 09.11.2011 to 12.11.2011 at Manipal College of Nursing and presented a poster on "Impact of citric acid in diabetic wound healing".
- Attended State level conference on current concerns of foundation in nursing, as resource person on 16.11.11 at Indirani College of Nursing, Puducherry and presented a paper on "Over viewing on Nursing Process".
- Presented a paper on "Strategies to improve peaceful life" in the conference on National Seminar on values in health care organized by Annamalai University at Rani Meyyammai College of Nursing from 15.08.12 to 16.08.12.

Mrs. R. Lakshmi


Mrs. Padmavathi Nagarjan

- Attended International Conference on "Students mental health; Issues and challenges in Pondicherry University" from July 25th to July 26th 2011.
- Attended National UGC Seminar on "Evidence based nursing" at Rani Meyyammai College of Nursing, Annamalai University, Chidambaram from 7.3.12 to 8.3.12.

Mrs. D. Vetriselvi

- Attended National UGC Seminar on Evidence based nursing at Rani Meyyammai College of Nursing, Annamalai University, Chidambaram from 7.3.12 to 8.3.12.
PUBLICATIONS

- Janarthanan B. A descriptive cross sectional study to assess patient satisfaction from hospital services, Nightingale Nur Times, July 2011; 7(4); 12-14,40
- Janarthanan B. Study on substance abuse among adolescents, Nightingale Nur Times, 2011; 7 (9); 14-16,17.
- Kalaiarasi E. Hazards of radiation exposures for nursing staff and measures to control, Nur J of Ind, 2011; CII (3); 54-56.
- Kumari M.J. Assess and compare the behavioural practice on preventive aspect of oral problems among students of a medical and nursing college at Sri Venkateshwaraa Medical College Hospital and Research centre in Puducherry, Int J Nur Edu 2011; 3 (2); 70-71.
- Revathi S. Study on self care behaviours among patients with heart failure, Nightingale Nur Times 2012; 7 (10); 52-56.

AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Dr. 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.
- Member in Sigma Theta Tau International, University of Wisconsin, Oshkosh, USA
- Member in Trained Nurses Association of India.
- Member in Society of Midwives India, Puducherry Chapter

Mrs. Kumari. M.J

- Member in Trained Nurses Association of India.
- Member in Society of Midwives India, Puducherry Chapter

Mr. R.S. Ramesh

- Member in Trained Nurses Association of India.
- Member in Red Cross Society of India, Puducherry branch
Mrs. Lakshmi. R
- Member in Trained Nurses Association of India.

Mrs. Padmavathi Nagarajan
- Successfully completed In-Country Fellowship of the World Health Organization An introduction to Principles of genetic Counseling at the Department of Psychiatry De-addiction and Regional Centre for Tobacco Cessation, PGIMER – Dr. Ram Manohar Lohia Hospital, New Delhi from 1st August to 6th August 2011
- Member in Trained Nurses Association of India.
- Member in Indian Society for Psychiatry Nurses

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.
- Member in Trained Nurses Association of India.

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 two Ph.D., candidates at CMC, Vellore which is one of the Ph.D., Study centres under Indian Nursing Council Ph. D. consortium on 17th November 2011.

Inspectorship
- Dr. Mrs. S. Revathi appointed as Inspector by Indian nursing council to conduct annual inspection of nursing schools and colleges in Kerala from 01.06.2011 to 10.06.2011.

Examinership
Mrs. M.J. Kumari
- As a External Examiner for B.Sc. Nursing Medical Surgical Nursing and Nursing Research students under Annamalai University at Rani Meyyammai College of Nursing from 9.08.11 to 10.08.11.
- As a External Examiner for B.Sc. Nursing Medical Surgical Nursing students in Vinayaka Mission University, Salem on 11.02.12.

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.
SIGNIFICANT EVENTS IN THE DEPARTMENT

- World Health Day 2011 was celebrated on 7th of April 2011 on the theme “Antimicrobial Resistance and in Global Spread.”
- International Nurses Day 2011 was celebrated on 12th May 2011.
- Breast Feeding Week was celebrated from 1st August 2011 to 7th August 2011.
- Six nursing faculty members of College of Nursing, JIPMER were trained as GFATM Trainers by INC. From April 2011 to March 2012, fifteen workshops were organized and 499 staff nurses were trained.
- Mrs. S. Arul Nisha attended Continuing Nursing Education programme on critical care nursing at JIPMER as a resource person and delivered a lecture on “Non Invasive ventilation” on 29.10.11.
- Mrs. M. Lakshmi Prasanna attended Continuing Nursing Education programme on Critical Care Nursing at JIPMER as a resource person and delivered a lecture on “Nutritional support for ICU patients” on 29.10.11.
- Mrs. S. Angelin Mary Sheela, Ms. P. Aruna and Ms. N. Subha attended Continuing Nursing Education programme on Critical Care Nursing organized in JIPMER from 28.10.11 to 29.10.11.
- Mrs. Kavittha. R.R attended Continuing Nursing Education programme organized by Vinayaka Mission College of Nursing, Puducherry as a Resource person and gave a speech on Dementia – A Public health burden” on 28.09.11
- Staff Development Programmes at College of Nursing were organized for Faculty members on all third Thursday’s afternoon in which one faculty member presents a topic on current issues in nursing.
- Mrs.T.V. Yamuna, Mrs. Porkodi Rabindran, Mrs.S. Arul Nisha, Mrs. Angelin Mary Sheela, Mrs. Lakshmi Prasanna, Mrs. R.R. Kavittha, Mrs. Niksy Abraham, Mrs. Safeena Beevi, Mrs. K.Kanimozhi, Mrs. D.Veni, Mrs. E. Kalaiaarasi, Mrs. Bakiyalaluthumi and Mr.B. Janarthanan are members in Trained Nurses Association of India.
- Mrs. D. Veni, Mr.B.Janarthanan are members in Indian Society for Psychiatry Nurses
- B.Sc. (N) students participated in World Stroke day on 29.11.2011 which was organized by the Department of Neurology, JIPMER and also our students participated in World Diabetic Walk on 14.11.11 which has been organized by JIPMER.
- World AIDS Day 2011 was observed on 1st December by Red Ribbon Club unit of College of Nursing in collaboration with Pondicherry AIDS Control Society.
- Lamp Lighting Ceremony for B.Sc. Nursing students – 2011 batch was celebrated on 10th January 2012 between 10.00am to 12.00 pm at JIPMER Auditorium.
The Red Ribbon Club (RRC) of College of Nursing, JIPMER in association with Pondicherry AIDS Control Society celebrated 'International Youth Day' on 27.3.2012 at 2.30 pm in Conference Hall, Super Specialty Block, JIPMER.

Mrs. T.V.Yamuna attended National Conference on Nursing Yesterday, Today and Tomorrow organized by Pondicherry Institute of Medical Sciences, College of Nursing, Puducherry from 25.2.12 to 26.2.12.

Mrs. Porkodi Rabindran attended Workshop on Basic Epidemiology conducted by the department of Preventive and Social Medicine, JIPMER from 14.11.2011 to 19.11.11.

Mrs. Niksy Abraham attended National Conference on Nursing Yesterday, Today and Tomorrow organized by Pondicherry Institute of Medical Sciences, College of Nursing, Puducherry from 25.2.12 to 26.2.12.


Ms. N. Subha and Mrs. S. Rani attended International Conference on Mixed method Research at Omaiyal Achi College of Nursing, Chennai from 18.01.12 to 20.01.12.

Mr. B. Janarthanan attended a National Conference on Management of Depression and Prevention of Suicide: Nursing Perspective organized by Himalayan College of Nursing in association with Indian Society of Psychiatric Nurses (ISPN) at Dehradun, Uttarakhand from 10.3.12 to 12.3.12.
# 11. Central Facilities

## 11.1 Advanced Centre For Yoga Therapy, Education & Research (ACYTER)

<table>
<thead>
<tr>
<th>Professor &amp; Programme Director</th>
<th>Madanmohan Trakroo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programme Co-ordinator</td>
<td>Ananda Balayogi Bhavanani</td>
</tr>
</tbody>
</table>

### 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 focuses primarily on role of yoga in the prevention and management of cardiovascular disorders and diabetes mellitus.

**Aims & Objectives of ACYTER:**
- 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 Puducherry and surrounding regions.

### SERVICES PROVIDED WITH STATISTICS

Yoga therapy OPD is functioning in the Super Specialty Block of JIPMER daily from 9 AM to 1 PM and yoga therapy sessions are being conducted at ACYTER yoga hall for diabetes everyday from 10 – 11 AM, for cardiovascular diseases from 11 AM – 12 noon on Mondays, Wednesdays and Fridays and for other disorders from 12 noon – 1 PM everyday.

Sessions are conducted individually and in groups as per requirements of the patients and directions of therapists. Yoga classes for normal subjects are being conducted on Mondays, Wednesdays and Fridays at 6.30 AM and 4.30 PM and for senior citizens on Thursdays between 11 AM and 12 noon.
ACYTER Yoga Research Lab is functioning in SS Block since 6 July 2011 and regular studies are being conducted on patients of diabetes, hypertension and heart failure. Various pilot studies on patients as well as normal volunteers are being conducted.

### Statistics between April 2011 and March 2012

<table>
<thead>
<tr>
<th>OPD attendance</th>
<th>1356</th>
</tr>
</thead>
<tbody>
<tr>
<td>Therapy sessions</td>
<td></td>
</tr>
<tr>
<td>• Diabetes</td>
<td>2379</td>
</tr>
<tr>
<td>• Hypertension</td>
<td>1909</td>
</tr>
<tr>
<td>• Other disorders</td>
<td>2389</td>
</tr>
<tr>
<td>Yoga classes for senior citizens</td>
<td>459</td>
</tr>
<tr>
<td>Yoga classes for normal subjects</td>
<td>2558</td>
</tr>
<tr>
<td>Number of patients studied in research lab</td>
<td>231</td>
</tr>
<tr>
<td>Total</td>
<td>11,271</td>
</tr>
</tbody>
</table>

### ACHIEVEMENTS / SIGNIFICANT EVENTS DURING THE YEAR 2011

May 20-June 20: Pranayam classes were conducted for 20 senior and junior residents and research scholars of Physiology Department.

July 6: The ACYTER Yoga Research Lab was inaugurated by Dr. KSVK Subba Rao, Director, JIPMER in the Super Specialty Block.

August 6: Free hypertension screening and yoga consultation programme conducted in Lawspet, Pondicherry. Residents and PhD scholars of the Department of Physiology and staff members of ACYTER conducted the programme in coordination with the local MLA Sri Vaithiyanathan and his colleagues.

August 7: Programme Co-ordinator presented an invited talk on “Dealing with obesity the Yoga way” during the CME on obesity organized by Woman Doctors Association (TN) at Sri Lakshminarayana Institute of Medical Sciences, Pondicherry. Mr. G Dayanidy, Yoga Instructor gave an excellent yoga demonstration to complement the talk.

August 20- November 15: ACYTER staff conducted 40 hour Foundation Course in Yoga for Paramedical Students at the Department of Physiotherapy, Mother Theresa Post Graduate and Research Institute of Health Sciences, Pondicherry. 16 students of BPT course participated in the training programme that included 20 hours of lectures and lecture-demonstrations and 20 hours of practice sessions. The sessions were conducted by Sri G Dayanidy and Selvi L Vithiyalakshmi. All participants had 100% attendance. 15 participants reported that they were practising daily at home for an average of 30 minutes. A post intervention, retrospective wellness questionnaire compiled by ACYTER was used to evaluate the comparative feelings of the participants after the training programme.

October 15: Eleventh edition of ACYTER bulletin published

December 10-11: IEC materials were distributed and free consultation given for general public by the ACYTER team during the 26th Pondicherry State Yoga Sport Championship event.
December 21: Dr Ananda Balayogi Bhavanani, Programme Co-ordinator ACYTER was invited to deliver a lecture on “Yoga and Education” in the 19th International Yoga conference at SVYASA, Bangalore.

2012

January 12: Dr Madanmohan, Programme Director, ACYTER was honoured with DSc (Yoga) by SVYASA University, Bengaluru. This prestigious award was bestowed upon him in recognition of his yeoman service towards the cause of scientific validation of yoga.

January 21: Staff of ACYTER conducted a special Yoga Awareness programme for more than 50 corporate executives and invitees of the Harmony Company at Hotel Atithi.

January 24: ACYTER staff conducted Foundation Course in Yoga for Paramedical Students at the Department of Physiotherapy, Mother Theresa Post Graduate and Research Institute of Health Sciences. 6 students of MPT course participated in the training programme conducted by Sri G Dayanidy and Selvi L Vithiyalakshmi.

February 4: Dr Madanmohan, Programme Director presented an Invited talk on “My Work in Yoga” at Golden Jubilee Celebrations and CME of Kashmir Medicos Association at New Delhi.

February 10: Dr Madanmohan, Programme Director presented an Invited talk on “Integrating Naturopathy and Yoga in Conventional Medical Education” and chaired a session in the International Conference on Yoga, Naturopathy and AROGYA Expo – 2012, Bangalore.

February 12-18: Dr Madanmohan, Programme Director and Dr Ananda Balayogi Bhavanani, Programme Co-ordinator presented Key Note addresses and chaired scientific sessions during National Yoga Week at MDNIY, New Delhi. Poster presentation of ACYTER activities was exhibited by Sri E Jayasettiaseelon, SRF and Miss L Vithiyalakshmi, Yoga Instructor. Sri E Jayasettiaseelon was awarded consolation prize for his paper entitled “Immediate effect of anuloma viloma pranayama on short term heart rate variability” in the Best Paper session.

March 1: Twelfth edition of ACYTER Bulletin was published as a Special Edition with comprehensive report of all activities at ACYTER since June 2008 till February 2012.

RESEARCH WORKS

Many research projects are being conducted at JIPMER as collaborative efforts between ACYTER and the Departments of Physiology, Medicine, Biochemistry, Cardiology and Obstetrics & Gynecology. Papers and abstracts have been published and also submitted for publication. Details of various studies completed / in progress are given below:

PhD theses (in progress)

1. Effect of yoga therapy on cardiac autonomic functions and oxidative stress in prehypertensive subjects: a randomized controlled study.

2. 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

Completed
1. Effect of 12 week yoga therapy as a lifestyle intervention in patients of type 2 diabetes mellitus with distal symmetric polyneuropathy – a randomized controlled study.
2. Effect of yoga therapy on cardiac autonomic function in patients of essential hypertension – a randomized controlled study.

In Progress
1. Effects of slow and fast pranayams on pulmonary function, handgrip strength and endurance in young healthy volunteers – a randomized controlled trial.
2. Effect of yoga training on autonomic functions and reaction time in young healthy females during different phases of menstrual cycle.
3. Effect of pranayam on maximal exercise performance, pulmonary function, recovery heart rate and blood pressure in healthy adults.

MSc dissertations (completed)
1. Effect of yoga training on cardiorespiratory functions of normal young volunteers
2. Effect of yoga therapy on reaction time, biochemical parameters and wellness score of peri and post menopausal diabetic patients.
3. Effect of yoga training on heart rate, blood pressure and lipid profile of patients with essential hypertension.
4. Effect of yoga training on physical and biochemical variables of type 2 diabetes mellitus patients.

Other Research Projects

Completed:
Patient feedback survey and retrospective wellness questionnaire was completed for 100 patients in June 2011.

In progress
1. Effect of slow and fast pranayams on cognitive and autonomic parameters in young healthy subjects.
2. Effect of mid trimester yoga on the incidence of pre-eclampsia in high risk women.

Pilot Studies

Completed
1. Immediate effect of sukha pranayama on heart rate and blood pressure of patients with hypertension.
2. Immediate cardiovascular effects of kaya kriya in normal healthy volunteers.
3. Immediate effect of shavasana and savitri pranayama on heart rate and blood pressure of hypertensive patients.
4. Immediate effect of chandra nadi pranayama on heart rate and blood pressure of hypertensive patients.
5. Immediate cardiovascular effects of shavasana and pranava pranayama on heart rate and blood pressure of hypertensive patients.
6. Immediate effects of yoga nidra on heart rate and blood pressure.
7. Immediate effect of suryanadi and chandranadi on short term heart rate variability in healthy volunteers.
8. Immediate cardiovascular effects of pranava pranayama in hypertensive patients.
9. Immediate effect of yoga practices on blood pressure.
10. Immediate effect of suryanadi pranayama on heart rate and blood pressure of hypertensive patients.

**In Progress**
1. Acute effect of anulom vilom pranayam on heart rate variability in healthy volunteers.
2. Immediate effect of 5 minutes chandranadi pranayam on heart rate variability in hypertensive patients.
3. Immediate effect of 5 minutes chandranadi pranayam on heart rate variability in diabetes mellitus patients.
4. Acute effect of 5 minutes chandranadi pranayam on heart rate variability in patients with diabetes mellitus and hypertension.
5. Immediate effect of 5 minutes chandranadi pranayam on heart rate variability in patients of heart failure.
6. Effect of respiratory rate on heart rate variability in healthy volunteers.
7. Effect of yoganidra on short term HRV in heart failure patients.
9. A controlled trial of immediate effects of pranava pranayama in shavasana on patients having both diabetes and hypertension.

**Case Studies (completed)**
1. Effect of yoga on subclinical hypothyroidism.
2. Effect of yoga in newly diagnosed hypertension.
5. Case report on bronchial asthma in a 4 year old child.
PUBLICATIONS


8. Bhavanani AB. Importance of body mass index (BMI) and waist circumference (WC) in yoga therapy in pre- empting possible complications of obesity. Yoga Mimamsa 2012; 43: 4: 316-325


Published abstracts


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 Mathai

BACKGROUND INFORMATION

Biomedical waste may be defined as any waste generated during the diagnosis, treatment and research involving human beings. Indiscriminate disposal of such potentially hazardous and infectious wastes poses a definite health risk to the human population.

Recognizing the importance of disposal of medical waste in an environmentally sound manner the Hospital Biomedical Waste Management wing was started in 1998 at JIPMER Hospital under Dr. D. Basu, Professor of Pathology.

SERVICES PROVIDED

1. Segregation of the wastes is done under the headings of infectious biological wastes, waste sharps and general noninfectious wastes and are transported in yellow, blue and black coloured bags respectively for disposal.

2. The infectious biological wastes are taken for incineration. Two incinerators are fully operational. It has the capacity of burning 120 kgs, of waste material per hour. The second standby 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 Infectious diseases wards.

5. All infectious 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 2011 – 12 was 7,84,632 kgs. The quantum of Bio Medical Waste treated in the Hospital itself between 2011 – 12 was 1,30,032 kgs. The remaining noninfectious waste was sent to the dumping yard within the JIPMER Campus itself.
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

Law Officer & Secretary
M. Krishna Rao

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 was 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. K.S.V.K. Subba Rao, Director</td>
<td>Patron</td>
</tr>
<tr>
<td>(till 04.12.2011)</td>
<td></td>
</tr>
<tr>
<td>Dr. T.S.Ravikumar, Director</td>
<td></td>
</tr>
<tr>
<td>(from 05.12.2011)</td>
<td></td>
</tr>
<tr>
<td>Dr. Raveendran, Professor of</td>
<td>Chairman</td>
</tr>
<tr>
<td>Pharmacology</td>
<td></td>
</tr>
<tr>
<td>Shri M. Krishna Rao, Law Officer</td>
<td>Secretary</td>
</tr>
<tr>
<td>Shri M. Balasubramanian, Lab</td>
<td>Member</td>
</tr>
<tr>
<td>Attendant</td>
<td></td>
</tr>
<tr>
<td>Dr. Gopal K Pal, Professor of</td>
<td>Member</td>
</tr>
<tr>
<td>Physiology</td>
<td></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,</td>
<td>Member</td>
</tr>
<tr>
<td>Canteen</td>
<td></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</td>
<td>Member</td>
</tr>
<tr>
<td>Records Clerk</td>
<td></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 coolies are being sanctioned.
SERVICES PROVIDED

The canteen is run on “No loss, No Profit” basis. The canteen is providing the food items to its customers at the lowest prices. Currently the canteen is functioning at three places. The main section is located in the administrative block where the production of eatables is carried out. In the Super Specialty block, an AC canteen is functioning to serve snacks and drinks. A bunk located near the main gate also caters to 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 drinks, snacks, ice creams</td>
</tr>
<tr>
<td>Summer special</td>
<td>Lassi, fruit juices, sweet orange are being sold during summer</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 various 15 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 are sanctioned.
11.4 Central Animal House

Professor & Officer-in-charge
S.C. Parija

The central animal house is looked after by one animal assistant, one senior animal attender and one animal attender.

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 01.04.2011 was
- Mice 360
- Rats 300
- Guinea Pig 30
- Rabbits 55

The closing stock as on 31.03.2012 was
- Mice 360
- Rats 268
- Guinea Pig 26
- Rabbits 52

A total of 387 small animals (rats, mice, rabbits and guinea pigs) were supplied to various departments of the institution. The following are the details:

<table>
<thead>
<tr>
<th>SL.No</th>
<th>Animals</th>
<th>No issued for Teaching</th>
<th>No. issued for Research purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Rats</td>
<td>60</td>
<td>177</td>
</tr>
<tr>
<td>2</td>
<td>Mice</td>
<td>120</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>Rabbits</td>
<td>15</td>
<td>-</td>
</tr>
<tr>
<td>4</td>
<td>Guinea Pig</td>
<td>12</td>
<td>1</td>
</tr>
</tbody>
</table>

The facility houses 6 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
11.5 Central Library

<table>
<thead>
<tr>
<th>Assistant Professor of Educational Technology &amp; Officer-in-charge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z. Zayapragassaranaz</td>
</tr>
<tr>
<td>Assistant Library and Information Officer</td>
</tr>
<tr>
<td>Kalyani Sathiyakumar</td>
</tr>
</tbody>
</table>

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.

Eligible Users and Membership

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 for reference purpose is also considered at the discretion of the Officer-in-Charge.

Temporary Membership

Non-members of JIPMER are allowed to refer in the Central Library with the approval of Education Section of JIPMER. They will be given temporary pass to use the Central Library facilities.

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.

STAFF PATTERN

1. Assistant Library and Information Officer- 1 no.
2. Library Clerks- 7 nos.
3. 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 Pediatric - 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. T. 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) Mr. Z. Zayapragassarazan, Asst. Professor of Educational Technology & Officer-in-charge of Central Library - Member Secretary

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. Jagadish, Prof. of Surgery - Member
4) Dr. G. K. Pal, Prof. of Physiology - Member
5) Dr. T. Vinod Kumar, Prof. & HOD of Pulmonary Medicine - Member
6) Dr. D.G. Shewade, Prof. of Pharmacology - Member
7) Dr. T. Kathiravan, Asst. Prof. of Medicine - Member
8) Dr. V. R. Roopesh Kumar, Asst. Prof. of Neurosurgery - Member
9) Mr. Z. Zayapragassarazan, Asst. Prof. of Educational Technology - Member Secretary & Officer-in-charge of Central Library

SERVICES PROVIDED

Issue Section
The issue section has 3693 books as on 31.03.2012 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 31.03.2012 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 students on term basis through an additional membership card provided to them. About 50 students are currently availing this facility.

New Addition
The Central Library has added 713 books in the reference section for the users which was procured for this year.

New Arrivals alert service
Newly procured books for the current year are displayed in the new arrivals rack in the reference section of the Central Library for the users.

Conference Alert service
Forthcoming conferences, seminars, workshops & competition pamphlets & circulars are displayed in the notice board of the Central Library for the information of the users.

CD-ROM Search
Central Library provides CD-ROM search facility for the users. The Central Library has 300 CDs of books and journals maintained by the concerned staff of Central Library.

Question Paper Collection
The Central Library has previous years question papers for U.G. & P.G. courses for reference of the users of the Library. It is maintained by the Assistant Library and Information Officer of the Central Library.

Current Journals and periodicals Section
268 (Two hundred and sixty eight) journals from national and international publishers was subscribed for the year 2011. 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 2783 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 2011-12. An updated catalogue book providing all the WHO publication details is available in the Library and it may be provided on request by 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

Out of 268 print version journals subscribed through Total Library Solutions (TLS), the firm offers free online access for 47 print journals published by several foreign publishers. MD Consult online data base published by Elsevier Science publishers, USA was procured by the Library. 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.

Uptodate

The library is subscribing to Uptodate an online clinical decision support system assisting clinicians throughout the world in providing best patient care. It is provided by Wolter & Kluwer Health, Gurgoan, India. Uptodate is available via computer or mobile device including an optimized interface for iphone. Information can be accessed by the user at any time when and where it is needed. It is an online resource with an editorial process aimed at improving patient care while at the point of care.

Computer Lab & Internet services

The Central Library has a seminar hall cum computer lab with 31 computer terminals. 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 2011-12.
<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 MLT Students</td>
</tr>
<tr>
<td>2</td>
<td>Department of Medical Education</td>
<td>18.04.2011 - 21.04.2011</td>
<td>III Year P.G. Orientation on Research Methodology</td>
</tr>
<tr>
<td>3</td>
<td>Department of Pharmacology</td>
<td>29.04.2011</td>
<td>Practical class for the MBBS IV semester Students</td>
</tr>
<tr>
<td>4</td>
<td>OVID SP</td>
<td>06.05.2011</td>
<td>Demonstration of Ovid Sp Platform</td>
</tr>
<tr>
<td>5</td>
<td>Department of Pharmacology</td>
<td>12.08.2011 - 13.08.2011</td>
<td>Eighth National Workshop on “Basic Techniques in Molecular Biology &amp; Bioinformatics in Pharmacogenomics” (Schedule)</td>
</tr>
<tr>
<td>6</td>
<td>Department of Medical Biometrics &amp; Informatics</td>
<td>17.09.2011</td>
<td>Seminar on &quot;Research Designs, Sampling and Basic Steps involved in project formulation&quot;</td>
</tr>
<tr>
<td>7</td>
<td>Establishment Section</td>
<td>01.11.2011 - 04.11.2011</td>
<td>Computer Training Programme for Administrative Staff</td>
</tr>
<tr>
<td>8</td>
<td>Establishment Section</td>
<td>15.11.2011 - 18.11.2011</td>
<td>Computer Training Programme for Administrative Staff</td>
</tr>
<tr>
<td>9</td>
<td>Establishment Section</td>
<td>05.12.2011 - 09.12.2011</td>
<td>Computer Training Programme for Administrative Staff</td>
</tr>
<tr>
<td>11</td>
<td>Establishment Section</td>
<td>06.02.2012 - 07.02.2012</td>
<td>Computer Training Programme for Administrative Staff</td>
</tr>
<tr>
<td>12</td>
<td>Establishment Section</td>
<td>09.02.2012 - 10.02.2012</td>
<td>Computer Training Programme for Administrative Staff</td>
</tr>
<tr>
<td>13</td>
<td>Establishment Section</td>
<td>27.02.2012 - 02.03.2012</td>
<td>Computer Training Programme for Administrative Staff</td>
</tr>
</tbody>
</table>

**LIBRARY COMMITTEE MEETING**

The Library committee meeting was held on 06.07.2011 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 (2011-2012)
7) Condemnation and disposal of old obsolete books.
8) Review the current status of journals
9) Procurement of journals for the year 2012
10) Review the subscription of online journals.

Book Fair 2011

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 2011-12 was organized from 24.08.2011 to 26.08.2012 at the Banting Hall, JIPMER. 10 nationally reputed book sellers from different states of India took part in the Book Exhibition. A total of 1853 Books were purchased for Central Library, Department Library and Book Bank for SC/ST students.

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) Automation of Library is likely to be implemented during this year.
2) A proposal for establishing an E-resource centre has been submitted for approval of Standing Finance Committee. If approved it will be established in the thesis section of the Central Library in addition to existing computer Lab in Journal Section. The main resource for E-resource centre will be the popular online resources Science Direct.
3) Partitioning of the waiting hall and adjoining areas with glass.
4) Partitioning of the Book Counter, Reference section, and Journal Section of the library with glass.
5) Partitioning of the basement of the library with glass
6) Vinyl Flooring in selected places of the library
7) Install new air-conditioners (Split A/C)
Statistics for the Year 2011-12

<table>
<thead>
<tr>
<th>Members</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>New members</td>
<td>73</td>
</tr>
<tr>
<td>Members issued no due certificate</td>
<td>575</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>User Statistics (Library)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty</td>
<td>982</td>
</tr>
<tr>
<td>SRs, JRs</td>
<td>9515</td>
</tr>
<tr>
<td>Students</td>
<td>20050</td>
</tr>
<tr>
<td>Staff Members</td>
<td>997</td>
</tr>
<tr>
<td>Members from other institutes</td>
<td>1203</td>
</tr>
<tr>
<td>Total</td>
<td>32748</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>User Statistics (Computer Centre)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty</td>
<td>132</td>
</tr>
<tr>
<td>SRs, JRs</td>
<td>3057</td>
</tr>
<tr>
<td>Students</td>
<td>20640</td>
</tr>
<tr>
<td>Staff Members</td>
<td>75</td>
</tr>
<tr>
<td>Total</td>
<td>23904</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Budget (in Rupees)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Books</td>
<td>64,84,044</td>
</tr>
<tr>
<td>Journals</td>
<td>1.43 Crore</td>
</tr>
<tr>
<td>Online Subscriptions</td>
<td>15,47,438</td>
</tr>
<tr>
<td>Binding</td>
<td>1,15,200</td>
</tr>
<tr>
<td>Computers</td>
<td>1,20,000</td>
</tr>
<tr>
<td>Total Amount utilized</td>
<td>2,25,66,682</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Books</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Central Library</td>
<td>1365</td>
</tr>
<tr>
<td>SC/ST Book Bank</td>
<td>488</td>
</tr>
<tr>
<td>Reference books</td>
<td>713</td>
</tr>
<tr>
<td>Books transferred to departments</td>
<td>652</td>
</tr>
<tr>
<td>Books procured</td>
<td>1853</td>
</tr>
<tr>
<td>Total no. of books condemned</td>
<td>Approx.15000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Journal Subscriptions</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Renewed</td>
<td>268</td>
</tr>
<tr>
<td>Unsubscribed</td>
<td>28</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>1,200</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Book Fair</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of Publishers Participated</td>
<td>10 Firms</td>
</tr>
<tr>
<td>Value purchased</td>
<td>64,84,044/-</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. 1850/-</td>
</tr>
<tr>
<td>Book fair entry fee (Rs.)</td>
<td>Rs. 1,00,000/-</td>
</tr>
<tr>
<td>New facilities added</td>
<td>Online subscription of Uptodate</td>
</tr>
</tbody>
</table>
11.6 Central Stores

<table>
<thead>
<tr>
<th>Officer-in-charge</th>
<th>Rajan Swain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stores Officer</td>
<td>A. Chinnapparaj</td>
</tr>
<tr>
<td>Stores Superintendent</td>
<td>P. Madhivanane</td>
</tr>
</tbody>
</table>

The Central Stores procures and issues most materials required for the hospital and institute other than medicines. The Central Stores 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 of furniture 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
Total funds allocated Rs. 55,00,000
Total expenditure booked Rs. 58,80,000

Furniture Stores
Total funds allocated Rs. 60,00,000
Total expenditure booked Rs. 57,20,000

Condemnation Stores
Total revenues received by disposal of condemned items Rs. 8,15,000

Instrument Stores
Total funds allocated Rs. 7,50,00,000
(Common pool for Pharmacy, CSSD and Central Stores)
Total expenditure booked Rs. 3,97,00,000

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 and Engineering Division

**Professor & Officer-in-charge**  
G. K. Pal

## 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 Engineering Division has started since 2010.

## STAFF PATTERN

### (a) Workshop 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.  
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. Engineers in-charge - 02 nos.  
2. Junior Engineers - 05 nos.

## SERVICES
The central workshop of JIPMER has been performing mainly the repair and maintenance of equipments and 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 and instruments are also carried out in the Central Workshop.
**Repair and Maintenance**

The repairing of refrigerators, water coolers, deep freezer, cold room, ice machine, cold storages, trolleys, sterilizers, geysers, wooden items, 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 to 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. are 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 Engineering Division which is presently located at Central Workshop and has undertaken the jobs allocating the work of workshop Manager (falls vacant). In additional to these works, Engineering works of Civil and Electrical and Air-condition maintenance inside the campusl are estimated and executed as and when instructed by the Director, JIPMER.

**STATISTICS**

About 5000 repairing works were done in the year 2011-12 in the central workshop of JIPMER.

**Engineering Division Work (Electrical)**

1. Replacement of balance defective 2X11W CFL fittings recess type and Energy saving tube lights at EMSD in first & Second floor, JIPMER
2. Replacement of out lived worn out CFL and 4"-40W Tube light fittings Administrative Block JIPMER.
4. Supply, Installation and Testing of 1no of 12 mtrs High Mast Light in EMSD JIPMER
5. Provision of Energy Saving Fittings and Replacing the outlived, non-burning fittings to make uniform illumination at Community Hall –JIPMER
6. Replacement of defective Telephone UG cable from C-12 Quarters to Director Bungalow and from E25 to DII5 JIPMER
7. Provision of Water Heater and Electric Heater at the college of Nursing JIPMER
8. Additional and alteration works for the temporary provision of partition works at JIPMER (R.H.C) Hospital at Ramanathapuram
9. Inspection to C.S.S.D- Ducting for exhaust provision to reduce heat generated through radiation by the working Auto Clave Machine-JIPMER.
10. Replacement of Damaged and outlived panel Board at central Workshop with MCB and DB Panels at Central Workshop-JIPMER
11. Replacement of partly damaged electrical panel board with wiring, outlived electrical fittings, and additional fittings at Old guest House JIPMER
12. Inspection to the canteen at Administrative Block –Insufficient Ventilation – Improvement JIPMER
13. Placement of Purchase Order for Kitchen Equipments for Canteen JIPMER
14. Replacement of condemned Water Heaters at Community hall JIPMER
15. Temporary shifting of UHC -Provision of extra electrical works at UHC JIPMER, Puducherry
16. Providing path lights to drift away the darkness around the servant quarters at Type V Block JIPMER
17. Replacement of outlived fittings and Distribution Boards with Fans, shifting of existing indoor fittings to Ist Floor and other rooms in community hall–JIPMER
18. Rewiring and replacement of outlived, Conduit internal wiring in Central Workshop
19. Replacement of Electrical Panel Board, MCB with Earthing at Ramanathapuram RHC with Electricity Department metering Panel and Essential power supply (Generator supply) to avoid fire Hazards–JIPMER (work in process)
20. Provision of Television sets in all rooms with cable wiring and Intercom connections at the old Guest House JIPMER. (work in process)

**Engineering Division Work (Civil)**

**A. Works Completed**

1. Installation of two water coolers and miscellaneous works at Library JIPMER.
2. Provision of Barrier guards and SS handrails at EMSD JIPMER.
3. Increasing the height of the flag post in front of Admin Block JIPMER.
4. Comprehensive repairs and improvements to special wards B21 and B22 and vertical Shaft at Ward 20.
5. Urgent repairs to duty doctors cabin & Nursing Station in JIPMER.
6. Urgent repairs to EMSD Replacing of fly proof steel wires mesh & broken glass doors.
7. Disconnection and reconnection of oxygen gas & suction pipe at special wards B21 & B22
8. Relaying steam pipelines for new drying tumblers at laundry at JIPMER.
9. Modifications and repairs to Rural Health Centre at Ramanathapuram
10. Providing mosquito proof steel wire mesh to Rural Health Centre at Ramanathapuram.
B. Work in progress

1. Alterations additions and miscellaneous works for CSSD at Ground Floor of Pharmacy.
2. Total replacement of worn out AC Sheets with pre painted Zinc-Aluminum sheet at Central Workshop.
3. Urgent repairs and miscellaneous works at Urban Health Centre at Vazhikulam.
4. Repairing and refilling of old fire extinguishers in JIPMER.
## 11.8 Computer Facilities

### 11.8.1 Administrative Information System (AIS)

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
<th>Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Director &amp; Chairman</td>
<td>K.S.V.K. Subba Rao (Till 04.12.2011)</td>
<td>T.S. Ravikumar (From 05.12.2011)</td>
</tr>
<tr>
<td>Professor, Vice Chairman (AIS Advisory Committee) &amp; Faculty –in-charge</td>
<td>P.H. Ananthanarayanan</td>
<td></td>
</tr>
<tr>
<td>Sub-Systems-in-charge</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Establishment &amp; Estate</td>
<td>Sudha V. (DDA)</td>
<td></td>
</tr>
<tr>
<td>Finance &amp; Account</td>
<td>Viswanathan R. (F &amp; CAO)</td>
<td></td>
</tr>
<tr>
<td>Academics</td>
<td>James Terrance Sekar (Registrar)</td>
<td></td>
</tr>
<tr>
<td>Officer-in-charge</td>
<td>Unnikrishnan C.B., Admin. Officer (HR)</td>
<td></td>
</tr>
</tbody>
</table>

### BACKGROUND INFORMATION

The computerization of administrative matters of the Institute commenced during 1987 with two Desktop systems. The idea was to develop it into a Management Information System (MIS) that is suitable for JIPMER. Computer oriented Management Information System (MIS) for hospital was launched during 1994 with the help of National Informatics Centre (NIC) regional Office at Hyderabad. The hardware, peripherals and software provided to this unit were minimum, which included two “486-servers” with 6 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. After an interaction with the faculty and staff members of the Institute, a system study was carried out by the regional office of NIC, Hyderabad for developing appropriate software for Hospital Information System (HIS) as well as for Administrative Information System (AIS) in 1994. The concerned faculty and staff members visited the NIC, Hyderabad during the development stage of the software. 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 from 1994, steps were initiated to create the project “JICMIS” (JIPMER Integrated Computerised Management Information System) during 1998-99 with an objective to integrate the Hospital 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. outpatients’ 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 the various Establishment Sections, Finance, Accounts, Education and Research were coordinated by the AIS Unit.

In November 1999 the JICMIS organizational structure was further fine-tuned to create additional physical infrastructure with the available facilities. Accordingly a new Centre, viz, Centre for Research and Academic Facilities and Training (CRAFT) was established in the library building. The objective of CRAFT was to promote distribution and creation of media through CDs, provision of Internet and e-mail facilities to the various units in 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

An Advisory Committee headed by the Vice-Chairman, Medical Superintendent & Dean reviews the performance of AIS, HIS & CRAFT periodically. A combined annual review meeting takes place under the Chairmanship of Director, who is also the Chairman of all the three committees. The performance of each unit is reviewed in the meeting. Administrative approval for new projects, along with the decision to allot funds to these units for their developmental activities, are taken 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:

ADMINISTRATIVE INFORMATION SYSTEM

![Administrative Information System Diagram]
EXISTING INFRASTRUCTURE
Presently the AIS Unit is having in its control four Servers, 177 Desktop systems (Standalone terminals or with network connectivity), 39 Laser Printers, including two A3 and two multi-function colour printers, 60 Dot Matrix Printers, one line matrix printer & 7 heavy duty dot matrix printers, 6 scanners, 103 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 running smoothly. It is developed in such way as to link it with overall software to be developed for all sections which is 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 are 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.
- Bulk data entry and processing of applications for undergraduate and postgraduate admissions, conduct of entrance examinations, preparation of Mark-sheet statements, Provisional Certificates, Degree Certificates, Attendance and periodic/semester examinations results for students.
- Bilingual data entry for implementation of Hindi teaching and popularisation schemes.
- Training programmes for staff administrative members of the institute in administrative as well as computers were conducted by the AIS Unit during 2011-12 and around 150 staff members were benefitted from the training.

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 new software for pay roll has been developed and is running well after installation. 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 coming year. 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. There is only scarce linkage between JIPMER and NIC, Puducherry at present and hence the Institute is not getting any technical support from them. Hence an urgent situation has been created 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

It was decided to create independent sub-systems for the three wings of activities like Finance & Accounts Division, Establishment & Estate Sections and Academic Wing after a review of the existing units. Accordingly, two subsystems, namely 'Establishment & Estate' and 'Finance & Accounts' were created under the purview of AIS. The independent charge of these sub-systems have been entrusted with 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 developed further and would become functional to strengthen and expand the existing systems for better management of further computerisation of the administration and finance. 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 funds have been allocated and approved by the Standing Finance Committee. Steps to procure comprehensive software for all the sub-systems have also been done and it is expected to be completed during the financial year 2012-13.
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 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.K.S.V.K. Subba Rao</td>
<td>Chairman</td>
</tr>
<tr>
<td>Dr. T.S. Ravikumar</td>
<td></td>
</tr>
<tr>
<td>Dr. KS Reddy, Dean</td>
<td>Vice-chairman</td>
</tr>
<tr>
<td>Dr. Ajit Sahai, Prof. of Biometrics &amp; Informatics</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, Prof of Pathology</td>
<td>Member</td>
</tr>
<tr>
<td>Dr. R. Raveendran, Prof of Pharmacology</td>
<td>Member-Secretary cum Officer-in-charge</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, firewalling and website.

**Website:**
The JIPMER website server is located in the data centre. Website provides information about JIPMER and its services.

**Wireless network:**
Wireless network is established between the SS Block and the Nursing College. Campus-wide wireless network is in the process of being established.

**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 2011-2012**
Fifteen LCD projectors were ordered and 12 were received and distributed to the following departments:

- Biochemistry, PSM, Surgery, Surgical Oncology, Dental Surgery, Pediatric Surgery, Nephrology, Nuclear Medicine, Medical Gastroenterology, Endocrinology, Transfusion Medicine, Medical Oncology

The internet service was provided for 24 hours throughout the year without break. The uptime was 99.99%.

**Future plans**
- Campus-wide wireless network will be established.
- The Internet bandwidth will be increased.
- The datacenter will be renovated.
- The website will be renovated and upgraded.
11.8.3 Hospital Information System (HIS)

Additional Medical Superintendent & Officer-in-charge
Anita Rustagi*

Computer Data Processor
T. Mahalingam

*CHS

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 HIS 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 to capture clinical data of the patients in main hospital, EMS and Super Specialty Block.

PERFORMANCE
1. 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 system by replacing the existing UNIX terminals.
2. The Hospital network is also being extended to the clinical departments of SSB.
3. Centralized special clinics registration has been started in SSB Reception
4. The HMIS-Software(Panacea) through the HIS network is being used in the following departments of:
   a) Medical Records
      ▪ Out-Patient Registration with generation of various statistics.
      ▪ 24 x 7 hrs Emergency Registration at EMS
      ▪ Medico-legal cases intimation and details.
      ▪ SSHC Registration at Hospital Reception
      ▪ In-Patient Registration for all admitted patients.
      ▪ Generation of monthly death bulletin
      ▪ Issuing of Lab. Reports at MRD through HIS network system
b) **Laboratory Information System**
- Pathology: - Biopsy reports.
- Haematology: - Bone-Marrow reports
- Central Lab: - Semen Analysis, Urine, Blood Hemogram reports
- Bio-Chemistry: - Routine Investigation, Special Investigation reports at SSB
- Microbiology and Cyto-pathology is being started

c) **Blood Bank**
- Donors, Blood Group, Issues, and stock maintenance in three centres such as Out-Patient Block, In-Patient Block and SSB through the HIS network.
- Generation of all reports such as daily stock, unitwise issues, groupwise collections, etc.

d) **Ward Management**
- The Services of ward transaction is readily available in the existing software and will be implemented shortly to wards in main hospital, EMS and linking of SSB after extending of the hospital network which is being started.

5. SCO-Unix network maintenance is also being undertaken for maintaining of old patient's demographic data, ICD-Diagnostic and Histo-pathology (biopsy) reports by using multi-user SCO-Fox BASE+ with
- Daily hospital census and bed occupancy reports generation

**AUGMENTATION PLANS**
1. Setting up of hospital-wide state of the art local area network for computerizing and interlinking of all the wards in main hospital, EMS and wards in Super Specialty Block, OTs, OPDs, laboratories and departments.
2. Procurement and commissioning of high-end rack mounted Servers, workstations and storage devices for the HIS network system with adequate back-up and redundancy so that hardware downtime is ZERO.
3. Procurement and installation of client desktop computers in all the patient-care areas where they are required through the hospital network system.
4. A post of e Computer Data Processor (CDP) has been created and filled and assisted by regular MRD Staff in the day-today functioning of HIS. These personnel take care of the responsibilities for management of Hospital Network and software modules. New creation is essentially required for overall HIS maintenance.
5. Recruitment/absorption/outsourcing the services of information technology professionals like system administrator, network manager, computer programmers, Data Processing Assistants, Hardware Assistants for keeping the HIS Unit network running smoothly 24 x 7 x 365, with zero downtime.
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 linen, instruments, syringes, solutions etc, from operation theatre and wards are also received and sterilized.

The CSSD has a floor area of 12,000 sq feet and is located on the ground floor of the Pharmacy Block at the rear of the Hospital complex. The working hours of the CSSD are from 7-30 AM to 9-00 PM. The major work is done by the staff between 7-30 AM and 5-00 PM. A couple of staff are posted for supply of emergency needs of the wards after office hours 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

<table>
<thead>
<tr>
<th>Materials</th>
<th>Daily Turnover</th>
</tr>
</thead>
<tbody>
<tr>
<td>Syringes</td>
<td></td>
</tr>
<tr>
<td>Disposable (2,5,10,20 and 50ml)</td>
<td>7000</td>
</tr>
<tr>
<td>Reusable (assorted)</td>
<td>600</td>
</tr>
<tr>
<td>Gloves</td>
<td></td>
</tr>
<tr>
<td>Sterile disposable surgical</td>
<td>3000 pairs</td>
</tr>
<tr>
<td>Sterile disposable examination</td>
<td>3000</td>
</tr>
<tr>
<td>Unsterile disposable</td>
<td>6000</td>
</tr>
<tr>
<td>IV sets (disposable)</td>
<td>700</td>
</tr>
<tr>
<td>Dressing bins (contain cotton, gauze and pads)</td>
<td>150</td>
</tr>
<tr>
<td>OT and ward packs</td>
<td>250</td>
</tr>
<tr>
<td>Treatment trays (21 varieties)</td>
<td>275</td>
</tr>
</tbody>
</table>
BUDGETARY PERFORMANCE

Total funds allocated for surgical items: Rs.2,75,00,000
(excluding cotton, gauze, bandages and disposables which are procured by the Pharmacy)

Total expenditure booked by the CSSD: Rs.2,65,00,110

SIGNIFICANT EVENTS

A training programme regarding the functioning of plasma sterilizers was conducted by M/s. Advanced Sterilization Products, Chennai on 4th and 5th November 2011 at Pondicherry, and was attended by two of the technicians working in the Autoclave section of the CSSD.

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. Two (2) new sterilizers (1 Steam Sterilizer and 1 ETO Sterilizer) have been sanctioned for the next financial year (2012-13).
11.10 Dietetics

Administrative Officer (HR) & In-charge
C.B. Unnikrishnan
Senior Dietician
Revathi Srinivasan

BACKGROUND INFORMATION

Establishment of the department

The Department of Dietetics was established along with JIPMER hospital in the year 1966. It is one of the essential departments providing healthy and nutritious diet to all the in-patients as per the diet advice given by the concerned doctors. The department supplies both therapeutic and normal diet to the patients. Free diet is given to all patients admitted in the general wards and for pay wards a nominal amount of Rs. 30/- (Rupees thirty) per day is charged for the supply of diet.

Location

The Dietetics Department is located in the eastern side of the campus in between the Pharmacy and the Central Stores. It is well connected with all the departments of the hospital which is helpful for easy distribution of diet to all wards.

List of equipments

The Department of Dietetics is equipped with state of the art cooking equipments like:

- 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 and Egg Boiler with 360 Idlys per set and 1000 eggs at a time-1
- Wet Grinder – 2
- Electrical Milk Heater – 2
- 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

10.00 A.M: Fruits, milk, sago payasam, veg. soup, chicken soup, sour lime, soyamilk, canjee, mixed cereal porridge, raw egg and biscuits
Lunch: Raw rice/ boiled rice, Vegetable sambhar, Vegetable poriyal, Extra poriyal greens, Curd rice, Egg / Dhal/ chicken for high protein

03.00 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
  o Cereals and pulse mixed laddu are given thrice in a week to children
  o Chicken was supplied once in a week to burns patients, PEM patients etc
  o Chicken soup was supplied once in a week to Fluid diet patients, burns patients, PEM patients etc
  o Idly is supplied once in a week
  o Wheat rice is supplied to diabetic patients
  o Soya milk Conjee is supplied to fluid diet patients, burns patients. PEM patients etc.

STAFF PATTERN
1. Officer- in-charge
2. Senior Dietician (1 post)
3. Dietician (1 post)
4. Junior Dietician (4 posts)
5. Storekeeper (1 post)
6. Steward (2 posts)
7. Boiler attendant (1 post)
8. Boiler attendant (Contract basis - 2 posts)
9. Head cook/ senior cook (4 posts)
10. Cooks (20 posts)
11. Helpers (16 posts)
12. Peon (1 post)

SERVICE PROVIDED
Nutritious and healthy food was supplied to the in-patients of the hospital according to the daily needs of the patients obtained through the indents from the various wards, blood bank etc. On an average the Department of Dietetics has supplied 1300 diets per day to the in-patients of the hospital during 2011-12.

Types of diets prepared
- Normal Diet
- Fluid Diet
- Soft Diet
- Bland Diet
- Salt Restricted Diet
- High CHO Diet
- High Protein Diet
- High CHO, Low Protein Diet
- High CHO, Low Fat Diet
- Low Fat Diet
- High Fiber Diet
- Diabetic Diet
- High Protein plus Special Diet for Burns Patients
- Special Diet for paying patients
- Uraemic Diet (Low Protein Diet)
- Low Residue Diet.

(All these diets are prepared based on NIN of ICMR)

**Academic Services Provided**
- Conducting regular Nutrition Classes for B.Sc., Nursing I year students with 2 weekly practical classes.
- Number of nursing students trained in the year 2011-2012 - 75
- 1 month Internship training for Post-Graduate students for each academic year
  - No. of students- 22 from Pondicherry University
  - 5 from Bharathidasan Women’s College
  - 1 from IGNOU Puducherry Chapter
- Conducted classes for 6 MRT/MRO Trainees

**Diet Counseling for the Patients**
- Monday and Tuesday – Diabetic Clinic in OPD SS block (1300 patients App.)
- Individual Diet advice to patients as directed by doctors (both in-patients and out-patients) – 700 patients (App.)
- Awareness program for Well Baby Clinic (week days)
- Every day ward rounds & diet counseling to needy patients.

**Statistics of the year 2011-2012**
- Total No. of indoor patient is 4,34,193 whom diet is supplied for the year 2011-2012
- Budget utilized/allocated for the year 2011-2012 is Rs.1,60,00,000/-
Month-wise total of diet supplied to the various wards

<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>2011</td>
<td>36,798</td>
<td>1207437</td>
</tr>
<tr>
<td>2</td>
<td>May</td>
<td>2011</td>
<td>38,359</td>
<td>1228603</td>
</tr>
<tr>
<td>3</td>
<td>June</td>
<td>2011</td>
<td>37,371</td>
<td>1273071</td>
</tr>
<tr>
<td>4</td>
<td>July</td>
<td>2011</td>
<td>38,489</td>
<td>1361121</td>
</tr>
<tr>
<td>5</td>
<td>August</td>
<td>2011</td>
<td>38,522</td>
<td>1386930</td>
</tr>
<tr>
<td>6</td>
<td>September</td>
<td>2011</td>
<td>38,517</td>
<td>1263430</td>
</tr>
<tr>
<td>7</td>
<td>October</td>
<td>2011</td>
<td>38,771</td>
<td>1347325</td>
</tr>
<tr>
<td>8</td>
<td>November</td>
<td>2011</td>
<td>38,061</td>
<td>1484445</td>
</tr>
<tr>
<td>9</td>
<td>December</td>
<td>2011</td>
<td>38,976</td>
<td>1390144</td>
</tr>
<tr>
<td>10</td>
<td>January</td>
<td>2012</td>
<td>38,134</td>
<td>1617258</td>
</tr>
<tr>
<td>11</td>
<td>February</td>
<td>2012</td>
<td>36,609</td>
<td>1372450</td>
</tr>
<tr>
<td>12</td>
<td>March</td>
<td>2012</td>
<td>39,726</td>
<td></td>
</tr>
</tbody>
</table>

Details of diets served per day

<table>
<thead>
<tr>
<th>Diet Type</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal</td>
<td>141</td>
</tr>
<tr>
<td>Milk &amp; bread</td>
<td>10</td>
</tr>
<tr>
<td>Fluid diet</td>
<td>150</td>
</tr>
<tr>
<td>High protein diet</td>
<td>835</td>
</tr>
<tr>
<td>Therapeutic diet</td>
<td>165</td>
</tr>
</tbody>
</table>

Average diets served per day 1301

Expenses for other heads

AMC & Maintenance

- Tray washing service: 58,000/- per Annum
- Solutions for tray washing: 1,00,000/- per Annum
- Boiler service 2 Nos.: 32,000/- per Annum
- Light diesel oil: 8,00,000/- per Annum
- Gas range service: 6,000/- per Annum
- Steam cooking range: 15, 000/- per Annum (Without AMC)
SIGNIFICANT EVENTS

- Health Awareness programme for General public in MRD (OPD) regarding Positive Health Promoting Diet conducted by Senior Dietician on 6th April 2011.
- Health awareness programme for Dermatology OPD regarding positive Health Promoting Diet by Senior Dietician on 20th April 2011.
- Health awareness programme for School Children regarding Positive Health Promoting Diet by Senior Dietician on 25th April 2011.
- Health awareness programme on Obesity for the Staff and their Children by Senior Dietician on 7th June 2011 to 11th June 2011.
- Senior Dietician attended 44th Annual Conference of IDA on Emerging Trends and Challenges: Enteral & Parenteral Nutrition in New Delhi from 03.11.2011 to 05.11.2011.
- Senior Dietician delivered a Guest lecture about the Role of Fruits and Vegetables in Diet at Bharath Art & Science College in Tanjore on 03.03.2012.
- Dietician (Mrs. Madhavi) delivered a lecture on Modular Teaching about Nutrition in Health & Diseases for MBBS Students on 23rd March 2012.
- Junior Dietician (Mrs. Poonguzhaly) gave a lecture for MBBS students on Modular Teaching about Diet for Cardiovascular Diseases on 23rd March 2012.

FUTURE PLANS

It is planned to instal many new types of equipments to minimize the workload as well as to reduce time consumption. It will minimize the use of manpower and supply diet to patients more effectively. The Department is planning to start Short Term Training Course in Hospital Diet Oriented Food Service and Management. The Department is also planning to conduct research work. It is also proposed to conduct various awareness programmes and a nutrition exhibition in the coming year.
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 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. Entire Hindi translation of the Annual Report of the Institute for the year 2010-11, and its coordination for typing and printing was undertaken by Hindi Cell in a record period of a couple of months. More than 50% of translation assignments and the typing were completed indigenously by SHT & JHT and DEO with support of some other staff as well through outsourcing to a limited extent.

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 01.09.2011 to 15.09.2011. The details are as follows;
COMPETITIONS

TOLIC- Hindi Fortnight Celebrations-2011

<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>Sunder Likhavat</td>
<td>02.09.2011</td>
<td>82 (4 Level)</td>
</tr>
<tr>
<td>2</td>
<td>Shrut Lekhan</td>
<td>05.09.2011</td>
<td>12 (1 Level)</td>
</tr>
<tr>
<td>3</td>
<td>Shabda Sakthi Pratiyogita</td>
<td>05.09.2011</td>
<td>17 (2 Level)</td>
</tr>
<tr>
<td>4</td>
<td>Match the Pair</td>
<td>05.09.2011</td>
<td>15 (2 Level)</td>
</tr>
<tr>
<td>5</td>
<td>Story Writing</td>
<td>06.09.2011</td>
<td>21 (2 Level)</td>
</tr>
<tr>
<td>6</td>
<td>Essay Competition</td>
<td>07.09.2011</td>
<td>26 (3 Level)</td>
</tr>
<tr>
<td>7</td>
<td>Kavitha Path Pratiyogita</td>
<td>08.09.2011</td>
<td>61 (5 Level)</td>
</tr>
<tr>
<td>8</td>
<td>Masouda Lekhan</td>
<td>09.09.2011</td>
<td>03 (1 Level)</td>
</tr>
<tr>
<td>9</td>
<td>Translation Competition</td>
<td>09.09.2011</td>
<td>04 (1 Level)</td>
</tr>
<tr>
<td>10</td>
<td>Hindi Typing Competition</td>
<td>09.09.2011</td>
<td>04 (1 Level)</td>
</tr>
<tr>
<td>11</td>
<td>Quiz</td>
<td>12.09.2011</td>
<td>22 (2 Level)</td>
</tr>
<tr>
<td>12</td>
<td>Elocution Competition</td>
<td>13.09.2011</td>
<td>22 (3 Level)</td>
</tr>
<tr>
<td>13</td>
<td>Hindi Singing Competition</td>
<td>15.09.2011</td>
<td>30 (3 Level)</td>
</tr>
<tr>
<td>14</td>
<td>Power Point Presentation</td>
<td>15.09.2011</td>
<td>18 (3 Level)</td>
</tr>
<tr>
<td>15</td>
<td>Variety Programme</td>
<td>16.09.2011</td>
<td>100 (1 Level)</td>
</tr>
</tbody>
</table>

TOTAL NUMBER OF PARTICIPANTS

1. Educational Institutions :
   (a) Schools                        - 280
   (b) College and University         - 47
2. Officers/Employees of member offices - 95
3. Wards of the employees of member offices - 15

Total No. of Participants 437

PRIZES

I. 1. First Prize - 36
   2. Second Prize - 36
   3. Third Prize - 43
   4. Consolation Prize - 34

II. Variety Programme - Shield
   1. First Prize - 02
   2. Second Prize - 02
   3. Third Prize - 02
   4. Consolation Prize - 01
III. RAJBHASHA SHIELD – (For member offices)

I. CENTRAL GOVT. OFFICES CATEGORY
1. VCRC – I PRIZE
2. SIDDHA – II PRIZE
3. CENTRAL EXCISE – III PRIZE

II. BANKS AND INSURANCE COMPANY CATEGORY
1. BANK OF INDIA – I PRIZE
2. CANARA BANK – II PRIZE
3. ANDHRA BANK – III PRIZE

III. AUTONOMOUS & UNDERTAKINGS CATEGORY
1. ALL INDIA RADIO – I PRIZE
2. DOORDARSHAN KENDRA – II PRIZE
3. PONDICHERRY UNIVERSITY – III PRIZE

JIPMER HINDI DIWAS CELEBRATIONS - 2011

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 organized during the celebration period August-September, 2011. The details of these programmes and competitions 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>25.08.2011</td>
<td>48</td>
</tr>
<tr>
<td>2</td>
<td>Shrut Lekhan</td>
<td>25.08.2011</td>
<td>19</td>
</tr>
<tr>
<td>3</td>
<td>Shabda Sakthi Pratiyogita</td>
<td>26.08.2011</td>
<td>20</td>
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<tr>
<td>4</td>
<td>Essay writing</td>
<td>26.08.2011</td>
<td>08</td>
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<tr>
<td>5</td>
<td>Masoudha Lekhan</td>
<td>29.08.2011</td>
<td>04</td>
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<td>6</td>
<td>Anuvad Pratiyogita</td>
<td>29.08.2011</td>
<td>04</td>
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<td>7</td>
<td>Hindi Singing Competition</td>
<td>15.09.2011</td>
<td>11</td>
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<tr>
<td>8</td>
<td>Noting &amp; Drafting</td>
<td>14.09.2011</td>
<td>02</td>
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<tr>
<td></td>
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<td>116</td>
</tr>
</tbody>
</table>

The Valedictory Function of these celebrations of TOLIC was jointly held with JIPMER Hindi Diwas celebrations of JOLIC on 19th October, 2011 at 3.30 pm at Hunter Theatre, JIPMER. Speaking on this occasion Dr. K.S.V.K. Subba Rao, Director, JIPMER and Chairman, Town Official Language Implementation Committee, Puducherry, appreciated the activities of TOLIC. Shri L. Dorairajan, Director, Doordarshan Kendra, Pondicherry, the Guest of Honor and Dr. M.M. Trakroo, Professor and Head, Department of Physiology & Chairman JIPMER Official Language Implementation Committee, Puducherry, also spoke on the occasion. Earlier, the Annual Report was presented by Dr. G.S. Gaur, Secretary, TOLIC & Additional Professor of Physiology. Prize distribution ceremony was held and winners of various competitions and staff who worked in Hindi were awarded with the prizes along with the certificates on this occasion.
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 improvements in the implementation work in the Institute. To meet the requirements 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 Deputy Director (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. Recently, during June-July, 2011, the centre was upgraded as “Sub-Institute” under HTS and its establishment is under progress. Under the programme an Assistant Director (Bhasha) and one Hindi Pradhyapak were posted by Department of Official Language (DOL), Ministry of Home Affairs (MHA), GOI, New Delhi. This caters the need of Hindi teaching for all employees of Central Govt. Offices, Public Sector & autonomous bodies, Banks & Insurance of Puducherry. This centre has a lecture theatre and a Hindi class room with the modern facility of audiovisual aids for Hindi teaching. During the year Apart from regular Hindi classes, contact programme for correspondence courses were also conducted, especially, during the periods the Hindi Teacher or Pradhyapak was not posted under HTS. In addition to these set-ups workshops and training programmes in official language work, translations, Hindi typewriting etc. are regularly organized at this Institute. The position regarding training and the working knowledge of Hindi of the Officers and Staff working at various levels are maintained through a ‘training roaster’. The number of staff members 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 Administration in coordination with 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 TYPEWRITING TRAINING

As per the assurance given to the Parliamentary Committee, 11 LDC’s were to be trained in Hindi Typewriting. Hindi Cell initiated the enrollment under 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 – 2011;
During the second session, for examination schedule of November-2011, the staff of JIPMER enrolled as Regular candidates under the training courses conducted by Hindi Teaching Scheme, JIPMER.

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of the Exam</th>
<th>Enrolled</th>
<th>Passed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Prabodh</td>
<td>130</td>
<td>63</td>
</tr>
<tr>
<td>2</td>
<td>Praveen</td>
<td>24</td>
<td>21</td>
</tr>
<tr>
<td>3</td>
<td>Pragya</td>
<td>5</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of the Exam</th>
<th>Enrolled</th>
<th>Passed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Prabodh</td>
<td>78</td>
<td>35</td>
</tr>
<tr>
<td>2</td>
<td>Praveen</td>
<td>38</td>
<td>22</td>
</tr>
<tr>
<td>3</td>
<td>Pragya</td>
<td>19</td>
<td>12</td>
</tr>
</tbody>
</table>
### BACKGROUND INFORMATION

The geographical area of JIPMER is nearly 197 acres, covered with Buildings, Garden and few grooves of forest. Each building has its own landscape for beautification and gardening. The greeneries are a source for peace of mind and recreation for the patients visiting JIPMER.

The following places are maintained by the Horticulture department:

1. Garden block opposite to administrative building.
2. Vesalius square.
3. M.S Office garden
4. Library garden
5. Saraswathy statue and its surroundings
6. Dhanvantari statue (Nursery)
7. Main entrance
8. Median area
9. Lawn opposite to super specialty block and inside super specialty block
10. Blackwell House
11. Directors bungalow
12. Regional cancer centre
13. Nursing College and Nursing College Hostel
14. Gandhi park
15. Guest house I and II
16. Community Hall
17. Auditorium
18. Reception, Thinker statue and Phase 3.

### STAFF PATTERN

**Head gardener** - 2
**Assistant gardener** - 13
SERVICES
1. Development and establishment of new garden.
2. Maintenance of developed garden.
3. Development and maintenance of water fountain in our campus
5. Adopting micro irrigation system for conserving water.(Sprinkler system)
7. Development and maintenance of park.
8. Aorestation programme
9. Trimming and pruning of all trees species in the campus.
10. Nursery development and maintenance.
11. Interior flower decoration.
12. Arrangement of flower vase, bouquete's and floral Rangoli.
13. Cultivation of cut flower (Gladiolus, Chrysanthemum) and other annuals.

STATISTICS OF THE YEAR
1. Flower vase arrangement - 4100 Nos
2. Bouquet - 95 Nos
3. Interior stage decoration - 10 Times
4. Wreath arrangements - 15 Nos

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 pruner - 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.
   xii. Our department cultivating medicinal plants for the use of PhD students to undertake research in our institute. (Biochemistry and Pharmacology)
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. Portable 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 pruner.
6. Establishment of separate garden for medicinal and aromatics plants in our campus.
7. Aorestation of nearly 5000 nos of tree sapling for year 2012-13
## 11.13 Hostels

<table>
<thead>
<tr>
<th>Hostel Name</th>
<th>Warden</th>
<th>Deputy Warden</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aschoff House Hostel</td>
<td>Latha Chaturvedula, (Prof of Obstetrics and Gynaecology)</td>
<td>Jharna Mandal (Asst Prof of Microbiology)</td>
</tr>
<tr>
<td>Blackwell House Hostel</td>
<td>Latha Chaturvedula, (Prof of Obstetrics and Gynaecology)</td>
<td>Jharna Mandal (Asst. Prof of Microbiology)</td>
</tr>
<tr>
<td>Curie House Hostel</td>
<td>Latha Chaturvedula, (Prof of Obstetrics and Gynaecology)</td>
<td>Jharna Mandal (Asst. Prof of Microbiology)</td>
</tr>
<tr>
<td>Lister House Hostel</td>
<td>C. Adithan, (Prof. &amp; Head, Department of Pharmacology)</td>
<td>K.C. Premarajan, (Prof of Preventive and Social Medicine)</td>
</tr>
<tr>
<td>Osler House Hostel</td>
<td>C. Adithan, (Prof. &amp; Head, Department of Pharmacology)</td>
<td>K.C. Premarajan, (Prof of Preventive and Social Medicine)</td>
</tr>
<tr>
<td>Harvey House Hostel</td>
<td>Syed Habeebullah, (Prof. &amp; Head, Department of Obstetrics and Gynaecology)</td>
<td>Debdutta basu (Prof of Pathology)</td>
</tr>
<tr>
<td>Nursing College Hostel</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 hostels with total capacity of 75 triple rooms, 212 double rooms (till 9th Jan 2012) & 176 double rooms (from 10th Jan 2012) and 527 single rooms (till 9th Jan 2012) & 565 single rooms (from 10th Jan 2012).
### 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>
<th>No. of Inmates</th>
</tr>
</thead>
<tbody>
<tr>
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<td>GENTS HOSTELS</td>
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<td></td>
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</tr>
<tr>
<td>1</td>
<td>HARVEY</td>
<td>200</td>
<td>-</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>204</td>
<td>128</td>
</tr>
<tr>
<td>2</td>
<td>LISTER</td>
<td>54</td>
<td>64</td>
<td>1</td>
<td>-</td>
<td>1</td>
<td>121</td>
<td>139</td>
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<tr>
<td>3</td>
<td>OSLER</td>
<td>54</td>
<td>64</td>
<td>1</td>
<td>-</td>
<td>1</td>
<td>120</td>
<td>142</td>
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<tr>
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<td>LADIES HOSTELS</td>
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<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>
<td>85</td>
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<tr>
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<td>CURIE (till 9th Jan 2012)</td>
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<td>36</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>123</td>
<td>122</td>
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<tr>
<td></td>
<td>NEW HOSTEL (from 10th Jan 2012)</td>
<td>120</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>120</td>
<td>119</td>
</tr>
<tr>
<td>3</td>
<td>BLACKWEL</td>
<td>64</td>
<td>-</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>69</td>
<td>70</td>
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<td>4</td>
<td>NURSING</td>
<td>75</td>
<td>75</td>
<td>(Triple Rooms)</td>
<td>3</td>
<td>1</td>
<td>155</td>
<td>218</td>
</tr>
</tbody>
</table>

### GENERAL FACILITIES

1. Hostel facilities are provided to MBBS, MD / MS, B.Sc. (MLT), M.R.T., M.R.O. and B.Sc., (Nursing) students. Hostel facilities are also provided to Senior Residents and Junior Residents (Non-Postgraduate).
2. The Hostel rooms are spacious and well ventilated. The Hostels have recreation facilities, sanitary facilities and 24 hours supply of good drinking water.
3. Security personnel 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 election.
7. The hostels are maintained by the Central Public Work Department.

### FUTURE PLANS

A new hostel complex with 7 blocks with a capacity to accommodate 1079 inmates including Resident Doctors, Senior Residents, Nursing Students with common facilities such as Kitchen, Dining Room and indoor sports facilities is under construction at an estimated cost of Rs.55.50 crores.
11.14 JIPMER Healthy Lifestyle Centre

Medical Superintendent, Senior Professor of Medicine & In-Charge
Ashok Kumar Das
Yoga Instructor
S. Navasakthi

BACKGROUND INFORMATION
The Healthy Lifestyle Centre in JIPMER was established in the year 2007 with limited staff and equipment. It is situated in the Institute main block near M.S. office. It is well connected with the other Departments also. Healthy Lifestyle Centre is a specialized branch of the Department of Medicine. It is mainly concerned with the prevention, treatment and health education regarding Non Communicable Diseases (NCD).

Aim and Objective
- To promote healthy lifestyle among general public, staff and their dependents
- To counsel the patients about lifestyle modification
- To provide therapeutic yoga therapy to the needy patients
- To provide consultation and physical examination for the patients referred to the Centre
- To conduct health promotion campaign and to create awareness among school and college students
- To give healthy dietary advice for needy people
- To conduct yoga classes for JIPMER staff, dependents and general public
- To conduct health education programmes for diabetic and drug de-addiction patients
- To display permanent banners on different aspects of Non Communicable Diseases and other healthy lifestyle tips

PATIENTS CARE SERVICES
1. Every Monday (9.00am to 12.30pm) counseling in the Diabetic Clinic
2. Every Tuesday diabetic health education classes for diabetic patients in healthy lifestyle centre seminar room in Super Specialty Block of JIPMER
3. Yoga Therapy for Staff (Monday, Wednesday, Friday) 4.00pm to 5.00pm in JIPMER Healthy Lifestyle Centre
4. Yoga Therapy for public (Monday, Tuesday, Wednesday, Friday) 3.00pm to 3.40pm in JIPMER Healthy Lifestyle Centre
5. Every Wednesday and Friday (9.00am to 1.00pm) counseling & consultation to needy people at JIPMER Healthy Lifestyle Centre
6. Every Monday and Thursday rotation of display banners in various places in JIPMER Campus
7. Every Thursday (9.00am to 4.30pm) preparation of lifestyle modification tips
8. Every Saturday (10.30am to 12.30pm) health education about Yoga and Meditation in the Drug De-addiction Centre of JIPMER

Activities of Health awareness Programme
- 200 Banners and posters prepared on diabetes, hypertension, obesity, cancer, about benefits of yoga, healthy diet and lifestyle modification etc

HEALTH CHECK-UP, HEALTH TALK AND HEALTH EXHIBITION CAMP
- One Day Health Awareness Programme (personal hygiene, healthy diet and simple yoga) was conducted at MRD –OPD of JIPMER, held on 04.04.2011
- One Day Health Exhibition, Health Checkup and Health Talk were conducted at Sri Venkatswara Medical College and Research Centre, Pudcherry on 10.04.2011
- One Day Health Awareness Programme (personal hygiene, healthy diet and simple yoga) were conducted at Department of Dermatology –OPD, JIPMER, on 19.04.2011
- Six Day Health Education and Yoga Camp (for school students) was conducted at Healthy Lifestyle Centre, JIPMER, from 25.04.2011 to 30.04.2012
- Five Day Obesity Screening Camp (height, weight, hip and waist circumference, BMI) was conducted for JIPMER employees at Healthy Lifestyle Centre, JIPMER, from 07.06.2011 to 11.06.2011
- Three Day World Diabetic Day Programme was conducted at Auditorium in the new Super Specialty Block JIPMER, from 12.11.2011 to 14.11.2011

STATISTICS OF THE YEAR
Healthy Lifestyle Centre Annual Census (2011-2012)

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Month</th>
<th>Year</th>
<th>No. of patients seen in OPD</th>
<th>No. of patients given Yoga Therapy</th>
<th>No. of patients given Health Education</th>
<th>No. of patients seen in Camp</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Male</td>
<td>Female</td>
<td>Male</td>
<td>Female</td>
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<tr>
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<td>78</td>
<td>51</td>
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<td>2011</td>
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</tr>
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<td>11</td>
<td>Feb</td>
<td>2012</td>
<td>155</td>
<td>90</td>
<td>134</td>
<td>119</td>
</tr>
<tr>
<td>12</td>
<td>Mar</td>
<td>2012</td>
<td>170</td>
<td>94</td>
<td>136</td>
<td>123</td>
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<td>TOTAL</td>
<td></td>
<td></td>
<td>1557</td>
<td>2291</td>
<td>1265</td>
<td>2636</td>
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</tbody>
</table>
RESEARCH PROJECTS

Completed

- WHO (World Health Organization) Development of an Operational Manual on health promoting hospitals in India

SIGNIFICANT EVENTS

- Dr. Ashok Kumar Das and Dr. S. Navasakthi both have conducted NCD (Non Communicable Diseases) Prevention Programme for General Public. This programme was telecast by Pondicherry Doordarshan (Podhigai Channel) on 10.05.2011

- The WHO Project (Development of an Operational Manual on Health Promoting Hospitals in India) finalization programme was conducted at Board Room in the Administrate Block, JIPMER, from 22.11.2011 to 23.11.2011
A. LINEN

ACTIVITIES

Activities include purchasing and distribution of linen materials to hospital and institute, maintaining stock for stitched items i.e. Bed Sheet, Dhoti, Patient saree etc., and issuing them to laundry as replacement following condemnation or to wards to increase stock and as new stock and 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’ (Erstwhile) personnel (Nursing Attendant, Safaiwala, Security Guard etc.) and coats for all doctors and aprons for technicians etc are done. Stitching in the tailoring unit is done only for staff aprons. The uniforms of group ‘D’ (Erstwhile) 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 for the year 2011-2012

Stitched items - 9,002 nos
(Bed sheet, Dhoti & Pt. Saree)

Unstitched items - 43,248 meters
(Popline, Casement, Kada etc.)

Uniform items - Male – 241 nos Female – 131 nos
(Wt.TC pant, Shirt, Wt.Saree etc.)

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

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 OTs
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 & OTs at their door steps.
8. Linen condemnation is being done monthly twice. We 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 ICUs (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 OTs 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 equipment</th>
<th>Capacity</th>
<th>Quantity available</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Washing machine</td>
<td>100 kgs</td>
<td>02 Nos</td>
</tr>
<tr>
<td>b. Washing machine</td>
<td>50 kgs</td>
<td>01 No</td>
</tr>
<tr>
<td>c. Washing machine</td>
<td>15 kgs</td>
<td>01 No</td>
</tr>
<tr>
<td>d. Hydro extractor</td>
<td>50 kgs</td>
<td>02 Nos</td>
</tr>
<tr>
<td>e. Boiler</td>
<td>0.5 ton</td>
<td>02 Nos</td>
</tr>
<tr>
<td>f. Drying tumblers</td>
<td></td>
<td>03 Nos</td>
</tr>
<tr>
<td>g. Drying chamber</td>
<td>160 Bed Sheet/hr</td>
<td>01 No</td>
</tr>
<tr>
<td>(During rainy season only)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>h. Drying tumblers</td>
<td>50 kgs</td>
<td>02 Nos</td>
</tr>
<tr>
<td>i. Sewing machine</td>
<td></td>
<td>01 No</td>
</tr>
<tr>
<td>j. New drying tumblers</td>
<td>50 kgs</td>
<td>02 Nos</td>
</tr>
</tbody>
</table>
FUTURE PLANS

1. To establish a linen bank in JIPMER. It will work under “Give & Take” policy.
2. Procurement of new equipments to meet out the future workload.
3. Computerization of the linen accounts.
5. Arranging a systematic testing of washed linen materials to ensure 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 instal a solar power plant in laundry to save 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.
11.16 Medical Illustration Division (MID)

Professor & In-charge
Santosh Kumar
Assistant Professor of Educational Technology
Z. Zayapragassarazan
Technical Supervisor
Bharathi Balakumar

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: 117 Nos
2. Scientific society: 12 Nos
3. Passport photos: 06 Nos
4. Clinical & research photographs: 27 Nos
5. Issue of photography print: 185Nos
**Artist section**

1. Medical drawings Black & White: 18 Nos
2. Medical drawings - Colour: 6 Nos
3. Posters: 116 Nos
4. Banner: 7 Nos
5. Wooden board (Door Signboard): 45 Nos
6. Wooden board (Big size): 18 Nos
7. Display arrangement: 500 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.
**11.17 Medical Records Department (MRD)**

<table>
<thead>
<tr>
<th>Additional Medical Superintendent and In-charge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anita Rustagi*</td>
</tr>
<tr>
<td>Assistant Medical Records Officer</td>
</tr>
<tr>
<td>Mallika Kothandaraman</td>
</tr>
</tbody>
</table>

*CHS

**BACKGROUND INFORMATION**

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 departments 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 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 2011-2012**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total No. of New Cases</td>
<td>5,30,555</td>
</tr>
<tr>
<td>Total No. of Old Cases</td>
<td>11,69,507</td>
</tr>
<tr>
<td>Total No. of Old &amp; New Cases</td>
<td>17,00,062</td>
</tr>
<tr>
<td>Total No. of Admissions</td>
<td>66,252</td>
</tr>
<tr>
<td>Total No. of Discharges</td>
<td>63,873</td>
</tr>
<tr>
<td>Daily average No. of O.P. Attendance</td>
<td>5,766</td>
</tr>
<tr>
<td>Daily average No. of I.P. Attendance</td>
<td>1,642</td>
</tr>
<tr>
<td>Daily Average Bed Occupancy Rate</td>
<td>120%</td>
</tr>
<tr>
<td>Total No. of Operations</td>
<td>34,310</td>
</tr>
<tr>
<td>Total No. of Investigations</td>
<td>34,10,958</td>
</tr>
<tr>
<td>No. of Live Births</td>
<td>13,615</td>
</tr>
<tr>
<td>No. of Still Births</td>
<td>692</td>
</tr>
<tr>
<td>Total No. of Deliveries</td>
<td>14,307</td>
</tr>
<tr>
<td>Total No. of Death below 48 hrs.</td>
<td>864</td>
</tr>
<tr>
<td>Total No. of Death above 48 hrs.</td>
<td>1,321</td>
</tr>
</tbody>
</table>
Total No. of Deaths : 2,185
Gross Death Rate : 3.35%
Net Death Rate : 2.05%

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 5,800 patients who visit JIPMER every day to nearly 23 specialties and more than 33 special clinics which are introduced in the afternoon as per the schedule. The average admission per day is 180 and bed strength 1650.
The patients who are all coming for treatment at first visit are categorized as New and Old. In new case registration counter the Medical Record Personnel obtain the particulars from the patient’s sociological data and nature of illness. The same is fed into the computer, the printed short term card/comprehensive case record (C.C.R.) with Identity card is issued to the patient which has the patient’s 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., 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 enters the Hospital number in Patient Guide Register, date and service, unit in the tracer card and provides 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 and mounted in the respective OP records by the Medical Record Clerks. The similar procedure is followed for mounting the laboratory reports daily.

E. In-Patient

When patients 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 is 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 purposes 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 record is 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 is 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: 9,321
   a. With M.L.R.: 3,577
   b. Without M.L.R.: 5,744
2. Total No. of Autopsies: 754
3. Total No. of Medical Certificate Issued: 1,659
4. Court Cases Attended by Dr. & M.R.T.: 64

G. Medical Care Review Meetings

Nine Medical Care Review Meetings were conducted by every month during 2011-12.

H. The Staff Members have Undergone the following training courses

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Name of the Course</th>
<th>Conducted By</th>
<th>2011-2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>I.C.D. and I.C.F.</td>
<td>CBHI., DGHS</td>
<td>4</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>2</td>
</tr>
<tr>
<td>4.</td>
<td>Archive of Records</td>
<td>National Archive</td>
<td>1</td>
</tr>
</tbody>
</table>

I. Court Attendance

A total of 60 summons were attended by the Medical Record Personnel and Doctors in Pondicherry and Tamil Nadu.

ACHIEVEMENTS / SIGNIFICANT EVENTS

A. Computerization

Registration of new cases, admissions, census report and indices has been done through computer. Laboratory reports are also partially computerized

B. Establishment of Computer Laboratory

Conducted the Electronic Data Processing classes at Computer Laboratory of this department for Medical Record Officer & Medical Record Technician Trainees.

C. The staff members who participated in the Workshop / National level Medical Record Conferences / Half Yearly Review Meeting and presented papers on Medical Records are as follows.

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Workshop/Conference / Meeting</th>
<th>2011-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Conference Meeting at New Delhi</td>
<td>1</td>
</tr>
<tr>
<td>2.</td>
<td>Medrecon – 2012: 12th Annual National Conference on Medical Records on Feb 2012 at Rajiv Gandhi Cancer Institute &amp; Research Center, New Delhi.</td>
<td>6 Staffs and 2 Trainees</td>
</tr>
<tr>
<td>3.</td>
<td>Half Yearly Review Meeting at Patna Feb’2012.</td>
<td>1</td>
</tr>
</tbody>
</table>
D. Orientation was given to the following

a. 8 Nos. Medical Record Technology Trainees from Institute of Child Health and Hospital for Children, Egmore, Chennai during the month of June’11.

b. 11 Nos. Medical Record Technology Trainees from Mahadevappa Rampure Medical College, Gulbarga, Karnataka during the Month of Aug’11.

c. 9 Nos. Medical Record Technology Trainees from Melmaruvathur Adhiparasakthi Institute of Medical Science and Research during the month of Jan’12.

d. 120 Nos of MBBS Students of this institute.

E. Education & Training Programme

Apart from the patient and physician services this department is conducting the training courses like one year duration Medical Record Officer Course and six month duration 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.

The Selection of Candidates for the training courses is done by the CBHI, New Delhi. The candidates are admitted to these courses on deputation basis. Other than JIPMER institute candidates are sanctioned (a) the entitled daily allowance as per Government of India Rules and as per S.R.S164 (3) (b) a fixed amount of Rs. 10,000/- per month as stipend for entire period of their respective raining excluding the entitled TA/DA for journey period for joining these training courses and going back on completion of these trainings. 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></td>
<td>Jan-June</td>
<td>July-Dec</td>
</tr>
<tr>
<td>67</td>
<td>176</td>
<td>167</td>
</tr>
</tbody>
</table>

FUTURE PLAN

A. Complete Computerization

The hospital statistics is generated through computer and entire department is computerized and also gradually this department will function as a paperless department.

B. Digitization and Archiving

Digitization and Archiving of In-patient records for 10 years will be done in the coming year.
11.18 Medico-Social Services

| Medical Superintendent & Senior Professor | Ashok Kumar Das |
| Additional Medical Superintendent | A. Thumbanatham |
| Officer-in-charge | P. Stalin Sundara Raj |

BACKGROUND INFORMATION

JIPMER is well known for its service to the poor patients which is well equipped with different departments in different Specialties. In JIPMER there are 11 Medical Social Workers with Post Graduate qualifications. The Medical Social Workers are acting as Liaison Officers between Doctors and patients. Health Education, Motivation and counseling 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 and travelling expenses.
8. Networking with State and Central Govt. organizations, NGOs and private donors.
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 outpatients for a month was given counseling in various OPDs including Special Clinics.

3. An average of 800 inpatients for a month were given bedside counseling 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 counseling and Family supportive counseling 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 counseling to new cases of HIV, (around 12 in a month) and remotivation to 50-60 patients as systematic follow–up, and ART counseling to 5-10 patients/month are given in the IEC clinic. Life-style modification counseling to patients with hypertension and obesity around 10-15 patients/ month. Rotahaler technique explained to patients (around 8 patients/ clinic)

6. Around 1006/new/old T.B.patients/year and 24 new/old sero positive cases/year were given health education, motivation and counseling in the OPD, Wards and GHCD. Out of 1006 T.B. cases, 992 patients were referred to RNTCP (local DOTS). Around 302 patients were remotivated for regular follow up. De-addiction and Tobacco/smoking cessation counseling were rendered to 200 patients. There are 7 New HIV patients who were given IEC counseling.

7. Psycho-social intervention and counseling for Neurology and Urology patients rendered during respective clinics (400 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 counseling, 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: 16,00,000
   b) Amount disbursed : 16,00,000
   c) Total numbers of Beneficiaries received compensation : 1866
   d) Compensation claimed for failure of Sterilization (Rs.30,000 each): 8 cases
   e) Failure of sterilization cases under process for claiming compensation: 12Nos
12. In the Department of Pediatrics, Health education was given to 842 mothers, Family counseling given for 132 patients, Breast feeding motivation counseling given for 168 patients. Around 247 cases were benefited with Insight counseling and motivation on TB, seizures, Diabetes, HIV counseling, nutrition and Weaning food. Psychological supportive counseling & Education for mothers of differently able children, education on safety measures at home. Special home visits were made to the homes of the mentally challenged children and educated the family members about the importance of special education and rehabilitation. Guidance for baby adoption were given and 3 abandoned babies sent to Children’s Home through Directorate of Social Welfare, Pondicherry.

13. With reference to the Surgery Department pre operative counseling and post operative counseling given for 211 patients. Insight counseling and supportive counseling given for 190 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 and with the assistance of JIPMER Poor patients Chest Fund. Family counseling were also given to them regarding Life style modification.

14. ART counselling for 21 Retro positive patients, Health education and motivation for 375 STD patients, Insight counseling for 160 psoriasis patients, Individual and family counseling for 42 leprosy patients given in the Department of Dermatology.

ACHIEVEMENTS AND SIGNIFICANT EVENTS:

1. A sum of Rs 4,750 was utilized under Poor patients Chest Fund for purchase of life saving drugs, appliances, investigations etc. Out of this about 5 patients were benefited.

2. Under Rashtriya Arokiya Nidhi (RAN) Rs.5,27,940 was utilized for Ortho patients. Rs.9300 was given for a baby to buy a life Saving drug.

3. In the month of August Breast feeding week was celebrated in the Pediatrics OPD and wards to emphasize the importance of breast milk. In this connection a rally was organised by Mr.V. Janakiraman and Mrs. Fromsi Lucose to create awareness among the general public.

4. Around 70 patients got the special certificates of medical, Treatment, Disability, Handicap for getting State/Central Government/NGOs assistance through the guidance of medical social workers. Permanent Railway Concession Certificates also issued for Physically Challenged People.

5. Orientation given to the 49 MSW students of Pondicherry University on 20th October 2011, Classes was conducted to MRT/MRO trainees of JIPMER. 3 MSW students from Pondicherry University were given field work training from July 27th to 27th October 2011, Under the supervision of Officer-in-Charge, MSW and Guidance of all Medical Social Workers, Case work, Group work and Project work were performed by them and a Student from Bishop Heber College, Trichy, was given Block Placement training from March 1st to 22nd March 2012.

6. Mr. P. Stalin Sundara Raj Officer-in-Charge of MSW has delivered a brief address on Medical social work-principles, methods, techniques, and available services of Medical Social Workers during the Interns Orientation programme.
7. Mr. V. Janakiraman, MSW was highly appreciated for his role in motivation of no. of patients towards newly introduced photo therapy for the treatment of psoriasis in the Department of Dermatology.

8. Mrs. Kalpana Muthuraj MSW has Utilized Audio Visual techniques effectively for creating awareness on tuberculosis during all OPD days in the Department of Pulmonary medicine.


10. After availing the “O” Dial facility around 630 chronically ill patients were telephonically contacted for regular treatment. In this regard particular emphasis was given for T.B. and HIV defaulters and timely distribution of compensation fund to permanent sterilization cases.

FUTURE PLANS
Starting up of well equipped IEC (Information Education and Communication) centre in the JIPMER hospital for the benefit of the patients.

1. Centralized and computerized issue of Travel (Bus/Train) concession certificates.

2. 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.

3. Priority for senior citizens for consultation and treatment in OPDs/wards.


5. Formation of separate cell to identify and locate the unknown patients/abandoned babies with the help of press and police.

6. Identifying the philanthropists to help the poor and needy patients.

7. Creation of additional posts of Medical Social Workers to meet the increasing demand of services.
11.19 Nursing Wing

Nursing Superintendents
P. Vasantha
Kalarani Parthiban

Deputy Nursing Superintendents
Santhi Tamilmani
Sankareswari A
Santhi Shanmugam
Murugeswari S
Latha M

BACKGROUND INFORMATION
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 – 29
Sister Tutor – Nil
Nursing Sister – 180
Staff Nurses – 484

SERVICES
The nursing services are provided to all clinical departments and divisions, all wards and all OPDs in hospital and super specialty blocks, Trauma Care Centre, Regional Cancer Centre, Rural Health Centre at Ramanathapuram, Urban Health Centre at Kurichikuppam and related services and outreach camps at Karaikal.

STATISTICS OF THE YEAR
• We have conducted Continuous Nursing Education (CNE) programme on Critical Care Nursing. The total number of nurses who attended the workshop was 40.
• Special training classes for OT nurses have been arranged by Ethicon (Johnson & Johnson company) about latest trends in suture materials and mesh and video conference about laparoscopic procedures. The nurses who attended this workshop were:
  1. Nursing Superintendents - 2
  2. Deputy Nursing Superintendents - 4
  3. Nursing Sister -25
  4. Staff Nurses -40
• Depute nursing personnel for CME on advances in Laparoscopic surgery, organized by Department of Surgical Gastroenterology.
• Deputed nurses for one day Induction Training programme for 3 staff nurses of STD & Gynecology Department conducted by Pondicherry AIDS Control Society twice.
• Deputed nurses for orientation programme regarding handling of Bio Medical Waste materials in wards and OPDs in NTTC seminar hall.
• Deputed nurses for the class regarding Nutrition in Neonates arranged by Nestle company in the department of Paediatrics. The total number of nurses who attended the class were 25.
• Deputed all nurses for fire safety orientation programme conducted in JIPMER.
• Deputed OT & ICU nurses to CMC Hospital, Vellore for training in surgical & post operative techniques in kidney transplantation.
• Deputed staff nurses along with the medical teams for conducting outreach health services in Karaikal for various departments.
• Deputed OT nurses for live operative workshop and CME on operative management of female stress urinary incontinence and genital prolapse organized by Johnson & Johnson company in the Department of Urology.
• Deputed OT nurses for advanced Laparoscopic surgical techniques in Chennai. The number of nurses who attended this one day programme was 20.
• Posted nurses for kidney transplantation programme in Departments of Urology and Nephrology.
• Deputed nurses for higher education like B.Sc. & M.Sc. nursing courses.
• Celebrated Nightingale day on 12th May 2011 with our nursing personnel.

ACHIEVEMENTS

OT nurses assisted Kidney Transplant Surgery.

FUTURE PLAN

Planning to conduct CNE Programme for nurses to update knowledge about latest trends in nursing services.
11.20 Pharmacy

Professor & Officer-in-charge
R. Raveendran

Deputy Officer-in-charge
R. Kesavan

BACKGROUND INFORMATION

Department of Pharmacy is one of the important ancillary services, earlier called ‘dispensary’, traces its origin in 1823 in the medical school called “Ecole de Medicine de Pondicherry” established by the French government. In 1956, the Govt. of India took over the medical school and it was called Dhanvantary Medical College. Then the medical college was renamed as JIPMER.

The Department of Pharmacy consists of
1. Pharmacy office
2. Tablets Store
3. Injection Store
4. I.V. Fluids & Medical gas store
5. Chemicals stores
7. Sub store for IV fluids and surgical items at super specialty block
8. Pharmacies for dispensing drugs to the patients
   • The Out Patients Department Pharmacy
   • The Staff and Students Health Clinic Pharmacy
   • The Super Specialty Block Pharmacy
   • Regional Cancer Centre Pharmacy

ACTIVITIES OF PHARMACY

Budget allocation

The budget allotted to the pharmacy department for the year 2011-12 is Rupees 10.10 crores.

Selection of Drugs

Selection of the drugs for dispensing to the patients is made to ensure maximum patient benefit at the most economical basis. Medicines are accepted with necessary documents like certificate of analysis by the manufacturer, detailed product specification including quality standards (B.P, I.P, U.S.P), proper labeling, nomenclature and packaging. For imported medicines WHO certificate and original import license are mandatory. All certificates and analytical reports of the drugs supplied are verified before dispensing them to the patients.
Procurement of Drugs

The drugs for the distribution to the patients are purchased by e-tender process for transparency and decision is made by Drug Purchase and Utilisation Monitoring Committee (DPUMC).

For emergency and specific requirements from the user departments for drugs which are not purchased and stocked in the pharmacy, local purchase is made which is monitored by the local drug purchase committee.

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.

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 (vacant)
- Pharmacological Analyst: 1 (vacant)
- Chemist manufacturing: 1 (vacant)
- Pharmacists: 24
- Pharmacists: 15 on contract basis
- Upper Division Clerk: 1
- Lower Division Clerk: 1
- Store keeper: 1
- Peon: 1
- Helpers: 3
- Safaiwalas: 14 on daily rate basis

SERVICES PROVIDED

Pharmacy Office

The department office will be responsible for the general administration of the various sections. The Head Pharmacist will be the overall in charge of the department. All the activities relating to the procurement and dispensing of drugs is managed by the office under the guidance of officer in charge of pharmacy.

The following works are carried out in the pharmacy office:

1. Procurement of drugs and chemicals and distribution.
2. Activities related to the tender process.
3. Arrangements to convene the Drug Purchase Monitoring and Utilization Committee (DPMUC) meetings and Local Drug Purchase committee meetings.
4. Issue of local purchase forms for the user departments and local purchase for the requests from the user departments.
5. All the issues relating to the spirit license, drug license and narcotic license.
6. Liaison with the suppliers, vendors, head of the departments and purchase department.
7. Issue of ‘Not Available Certificates’ (NAC) for the staff members and their dependents.
8. Uploading the quality problems in the JIPMER website (www.jipmer.edu/pharmacy)
9. Periodical reporting about the narcotic items to the Assistant Commissioner, Food & Drugs Administration, Govt. of Puducherry

**Tablet Store**

271 drugs are available in the store. One senior pharmacist and two pharmacists are posted along with 2 helpers. The average indent issues per week are 130. The drugs are issued to different wards and the pharmacies on weekly basis. The purchase proposals which are prepared based on the monthly requirement are 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 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 costly drugs procured in 2011-12 are Tab. Capecitabine Rs. 1223040/-, Beclomethasone rotacaps Rs. 891792/-, Tab. Imatinib Rs.594880/-, Cap. Cyclosporine Rs. 493750/- and Salbutamol Rotacaps Rs.297312/-.  

**Injection Store**

345 injections are available in the store. Three Pharmacists along with four helpers are posted in the injections stores. The average indent issues per week is 360. Injection, I.V. fluids and medical gases are issued to different wards, operation theatres, emergency medical services on weekly basis. Non Availability Certificates will be issued to the SSCH beneficiaries. Inventory control 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 seven drugs procured in the year of 2011-12, were Inj. Human Mixtard Insulin Rs.44,48,016/-, Inj. Factor VIII Rs.4109916/-, Inj. Meropenem Rs.4768280/- Inj. Granulocyte colony stimulating Factor(G-CSF) – 300 mcg Rs.1069200/-. Inj. Paclitaxel 260 mg Rs. 6,71,250/-, Inj. Methyl Prednisolone 1 gm Rs. 5,56,500/- and Inj. Human IV Gammaglobulin Rs. 4524000/-.  

Eight narcotic drugs are available 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. 3,36,000/- in the year.

**I.V. Fluids and Medical Gas Store**

The IV fluids and medical gas store is attached with the Injection Stores which is managed by a Pharmacist. On an average, 20 IV. fluid formulations are available in the stores along with 90 numbers A & B Type cylinders for Nitrous Oxide and Oxygen. The average numbers of Indents per week are 90 for IV. fluids and 50 for medical gas per week. The top
three items purchased were Inj. Sodium Chloride Rs 3316950/-, Inj. Ringer lactate Rs.994000, and Inj. Dextrose 5 % Rs. 726500/- in the year 2011-12.

**Cold Storage**

Three walk-in coolers are available for storing life saving drugs/vaccines at the recommended temperature range in order to provide potent and effective life saving drugs/vaccines to the patients. There are 80 life saving drugs stored in the walk-in-coolers.

**Surgical Store**

Sixteen different surgical items are available in the store. One pharmacist is posted in the stores. The issue is done once in a week on Wednesdays. The average no. of indents fulfilled per week is 95. On an average, Rs. 800000 is earmarked for surgical dressings. 55000 rolls of cotton were procured for the year of 2011-2012 with the value of Rs. 60,00,000.

**Disinfectant and Chemical Store**

Fifteen disinfectant solutions and 61 chemicals are available in the store. On an average, 175 indents are issued per week. The annual budget for disinfectant fluids was Rs.4500000 among which lysol itself accounts for about Rs 2400000/-.  

**Local Purchase**

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 procedure by entering into rate contract with local chemists through local tender. The selection of firms will be approved by the Local Drug Purchase Committee. The drugs will be purchased only after obtaining the financial sanction from the Medical Superintendent and Director. A sum of Rs 8,75,331/- is utilized for local purchase of drugs for the year 2011-12. A senior pharmacist posted in the pharmacy office will be in charge of local purchase.

**OUTPATIENT DEPARTMENTS**

**Preparation and Analysis Wing**

Fifty different preparations are prepared in the section most of which are not available in the open market. Some preparations are also prepared based on the request from the user departments. The annual budget for this section is approximately 6 lakhs per year. Some of the preparations prepared are Lugol's Iodine, Shohl's solution, Joulies solution, Eusol, Glycerin tannic acid, Mag sulph glycerin and Piles injection. This section alone saves the expenditure of Rs. 5 lakhs per year.

**OPD Pharmacy**

125 drugs and 50 different ointments, lotions, liniment, ear drops, mixtures, syrups, and solutions which are prepared by hospital pharmacy preparation section are available in the pharmacy for the patients attending Medicine, Surgery, ENT, Paediatrics, Psychiatry, Skin, Ophthalmology, Orthopedics, Pulmonary Medicine, O&G Outpatient Departments, the Special Clinics like HIV, Geriatric, Allergy, De-addiction, Hematology, Paediatrics, Clinics for Nephrology, Cardiology, Psychiatry, Genetics and Clinic For Under 5 Years. Drugs are dispensed to an average of 1590 patients daily. Drugs are issued for 4/5 days to all patients attending the OPDs and 7 days for special clinic patients. Drugs are issued for
30 days 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 OPDs. The list of not-available drugs is submitted to the Director/ Medical superintendent every week. It is managed by 9 Pharmacists and 4 Contract Pharmacists along with 4 helpers.

**Staff and Students Pharmacy**

The ‘staff and students pharmacy’ dispenses drugs to patients attending ‘Staff and Students Health Clinic’. 200 drugs are available in the staff pharmacy. Drugs are issued for 14 days for follow-up clinic patients and 5 days for the OPD patients. The average attendance per day is around 300. The SSHC beneficiaries are entitled for the reimbursement of drugs which are not available or not stocked in JIPMER pharmacy.

**Super Specialty Pharmacy (SSP)**

127 drugs are available in the section. Drugs are dispensed to the patients attending super specialty clinics of Neurology, Neurosurgery, Plastic surgery, Neonatology, Urology, Nephrology, Clinical Immunology, Cardiology, Cardiothoracic and Vascular surgery, Medical Gastroenterology, Surgical Gastroenterology. The average patient attendance is 2200 per day. It is managed by 5 Pharmacists and 7 Contract Pharmacists. Besides dispensing drugs, counseling is also being given to the needy patients.

**Sub Store In SS Block**

The sub-store is managed by the pharmacists of super specialty pharmacy for issue of dressing items and IV fluids for the wards of the super specialty block once in a week.

**RCC Pharmacy**

114 drugs are available in the pharmacy which dispenses drugs to the patients attending the Radiation Oncology, Medical Oncology, RCC-ICU, Surgery, O&G and discharged patients. The chemotherapy injections and drugs are directly issued to the patients as per the advice of the oncologist. The pharmacy is managed by one Pharmacist and one Contract Pharmacist. Most of the lifesaving anti-cancer drugs like cisplatin, granulocyte colony stimulating factor (g-csf), cyclophosphamide, 5-fluorouracil, doxorubicin and gemcitabine are dispensed to the patients

**STATISTICS OF THE YEAR 2011-12**

- Average attendance per day in the pharmacies : 4240
- Total number of drugs procured : 758
- Annual budget allotted : Rs. 10.10 crores
- Drugs purchased through Local Purchase : Rs 8,75,331/-

**ACHIEVEMENTS/ SIGNIFICANT EVENTS**

**Program for the Pharmacists**

A one-day development program called Sanjeevani was organized on 20.11.2011 for the pharmacists by Dr Reddys Laboratories, Hyderabad, which was focused on the development of good human relationship between the pharmacists and the patients and to improve the communication skills.
Issue of Drugs

Drugs are issued free of cost to the patients attending OPDs, special clinics and in-patients. For the year 2011-12 the budget allotted for drugs was Rs.10.10 crores and Rs 9.70 crores were utilised till February 2012.

Free insulin

Every week 1700 vials of insulin are being issued to the patients attending the diabetic clinic. The annual consumption of insulin is 81,600 vials. The financial sanction for insulin is Rs. 42,00,000/. This is 42% more than amount spent in the previous year (2010-11)

Drug Counselling

In the OPD and the super specialty pharmacy, counselling to patients is being given to the patients. Counselling is given regarding dosage, administration, drug interaction, drug and food interaction, and how to handle inhalers and rotahalers. At least 30 patients are benefited in this session per day.

Maintaining Quality Standards

The Department of Pharmacy is giving utmost importance to the quality of the drug issued to the patients. Upon receipt of the drugs from the suppliers, the laboratory reports submitted by the companies are verified for the genuineness and samples are drawn randomly and visually examined. All the issues relating to drug content, standards, packing, expiry and any obvious changes like discoloration, dampness or moisture in the packing, missing pills, crumbled pills, liquids not becoming suspension after shaking, cloudiness, sedimentation etc. are monitored by the pharmacists and if any quality problem is found, it is brought to the notice of the officer in charge. The company is directed to give explanation for the issue and the product is rejected, if the explanation is not satisfactory.

Cold Chain Management

The drugs which are received by cold chain are directly stored in the walk-in-coolers till the drug reaches the end user. The walk-in-coolers are monitored regularly for the temperature settings. 80 life saving drugs like insulin, anti cancer drugs, vaccines and sera, anti thrombolytic agents are presently stored.

FUTURE PLANS

• For better management of different sections of the department and improvement of patient care services, a proposal was submitted to construct a separate pharmacy block consisting of pharmacy office, stores, dispensing pharmacies and other pharmacy related services.

• To establish a world class ‘Drug Testing Laboratory’ meeting the WHO-GMP standards

• To set up a ‘Community Pharmacy’ to cater the needs of economically weaker section.
11.21 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.

ADMINISTRATIVE HIERARCHY
The productivity shop-floor and the stationery wing is coordinated and controlled by the Manager - Press. Due to the absence of Manager the department has been functioning under the Officer-in-charge Shri A. Rajavelu, Private Secretary to Medical Superintendent since July 2008.

Names of Staff Post(s) and Number(s)
At present the department is headed by the Officer-in-charge. Apart from that one Storekeeper, one Proof Reader, two Machine Operators for different kinds of operations, one Gestetner Operator, one Offset Machine operator, one Compositor, one Composer, four Book Binders, one Press Helper, two Daftries and one Safaiwala who is doing the work of binding section under redeployment scheme are the other staff of this department.

SERVICES PROVIDED WITH STATISTICS OF THE YEAR
The main task of this productivity unit is to print and supply various forms for smooth running of Institute and Hospital in connection with the patient care services. All registers which are the prime needs of this institute are 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 rubber stamps in Hindi and English and displaying Vinyl Board to the whole Institute and Hospital.

Stationery division procures and supplies various stationery items which are required for the day to day function of the Institute and Hospital.

About 60 lacs of patient care forms in 100 different kinds are supplied to Medical Records Department, other clinical services and administrative sections.

ACHIEVEMENTS/SIGNIFICANT EVENTS
Previously most of the printing works were carried at Government of India Press, Coimbatore and Calcutta. Over the recent years 90% of our need is fulfilled by this unit.

The orthodox methods are shortly vanishing and new trends/processes are 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, etc.
11.22 Report on the Benefit for the Persons with Disabilities

Deputy Director (Administration)
V. Sudha

JIPMER, Puducherry has become an Institution of National Importance by an Act of Parliament with effect from 14.07.2008. The Institute is following the orders/instructions/guidelines of the Government in so far as all matters including reservation in employment with regard to benefits for the persons with disabilities. Hence the Institute has not made any separate policy decisions on the subject matter.

The total budget provision allotted by the Ministry to this Institute for the year 2011-12 is as follows:

<table>
<thead>
<tr>
<th>Year</th>
<th>Plan</th>
<th>Rs. 105.00 Crore</th>
</tr>
</thead>
<tbody>
<tr>
<td>2011-12</td>
<td>NON-PLAN</td>
<td>Rs.145.00 Crore</td>
</tr>
</tbody>
</table>

The Institute is imparting courses in Medical Education and Allied Courses. Reservation is provided to persons with disabilities in admission to these courses. The Institute is rendering patient care services and there is no specific provision in the budget allocation for any extra/additional assistance to persons with disabilities. The schemes implemented in the Institute are in the nature of projects fully funded by the Government. There is no separate allocation for persons with disabilities under any of the projects implemented by the Institute.

During the year 2011-12, the number of persons with disabilities provided employment in the Institute and their percentage in relation to the total number employed are as under:

<table>
<thead>
<tr>
<th>Year</th>
<th>Group</th>
<th>No of persons with disabilities provided employment</th>
<th>Percentage of total employed</th>
</tr>
</thead>
<tbody>
<tr>
<td>2011-12</td>
<td>C</td>
<td>1</td>
<td>1.05%</td>
</tr>
</tbody>
</table>
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 cope up with the growing population of patients and area, the Sanitary Unit is also extended as per need.

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.

STAFF PATTERN

The Sanitary Superintendent is the overall Supervisor of all the Four Sanitary Units. The Senior Sanitary Inspector monitors the activities of the Hospital Sanitary Unit. The Sanitary Inspectors of each unit are 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 biomedical 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 Hostels. A full-fledged effluent treatment plant is functioning within the Campus to treat 25,00,000 liters of liquid and solid waste before sending them out of Campus.
STERILIZATION PROCEDURE
Preplanned and scheduled fumigation process in OTs, MOTs, 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 biomedical 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.
11.24 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 D posts the number of security staff has come down to 41. In order to augment the dwindled strength outsourcing of security personnel has been started for certain areas of the hospital.

SERVICES PROVIDED

- Round the clock watch and ward of the hospital and the campus
- Checking the incoming and outgoing articles and Equipment
- Checking all newborns going out of the hospital to ascertain mother and child are as per the records and having matching wrist bands 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 premises
- Crowd control in the event of mass casualty

ONGOING WORKS

Proposal for comprehensive security system for entire JIPMER campus is under active consideration. Expression of interest has been obtained from 4 service providers who are interested to provide electronic surveillance system along with manual security for the entire campus.
11.25 Vigilance Cell and Disciplinary Cell & Court Cases Cell

<table>
<thead>
<tr>
<th>Professor &amp; Vigilance officer</th>
</tr>
</thead>
<tbody>
<tr>
<td>S.C. Pradhan</td>
</tr>
<tr>
<td>Law Officer</td>
</tr>
<tr>
<td>M. Krishna Rao</td>
</tr>
</tbody>
</table>

**A. 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 the thorough investigation, the Vigilance Officer has submitted his reports to the Director, JIPMER for necessary action. The cases referred by Central Vigilance Commissioner (CVC) have been sent to CVC, New Delhi.

His 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.

**VIGILANCE AWARENESS WEEK**

The vigilance awareness week was observed in this institute and Hospital (From 31st Oct 2011 to 5th Nov 2011) as instructed 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 (CVC).

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. General Public used the complaint mechanism and acknowledged it.

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.
B. DISCIPLINARY CELL & COURT CASES CELL

The Disciplinary Cell & Court Cases Cell is dealing with all the Disciplinary Cases against Group A, B, C & D Officers of JIPMER. It is also dealing with all court cases for and against JIPMER. This section is playing proactive role in taking action on employees involved in criminal activities. This section consists of 2 divisions. One is Disciplinary Cell which deals with disciplinary cases against employees of JIPMER. Another Cell is Court Cases Cell which deals with cases for and against JIPMER in all the courts of India. Both the cells work to render justice and enforce discipline in the work environment of this Institute.

1. Staff Pattern
   • Law Officer.
   • Assistant (Litigation)
   • U.D.C -2
   • L.D.C-1
   • Peon
   • Data Entry Operator

2. Disciplinary cases dealt during 2011-12
   • Group A - 3
   • Group B - 11
   • Group C - 7
   • Group D - 21

3. Court cases dealt during 2011-12
   • Lower Courts - 16
     (Judicial Magistrate Court, District Munsif Court, Sub Court, Consumer)
   • Labour Court/W.C Magistrate Courts - 2
   • C A T - 26
   • High Court - 24
   • Supreme Court - 2
12. Finance Wing

Professor & Faculty In-Charge
Dr. C. Adithan

Finance & Chief Accounts Officer
R. Viswanathan (till 31.01.2012)
G. Mani (from 12.03.2012)

Accounts Officer
A. Selvam

This Institute receives Grants-in-aid under Plan and Non-plan heads of accounts from the Ministry of Health & Family Welfare to meet recurring and non-recurring expenditure of the Institute and Hospital. For implementation of Drug De-addiction programme and Central Bureau of Health Intelligence, Ministry releases Grants-in-aid. Besides, grants are being received from various funding agencies such as ICMR, DST, CSIR, WHO, UNICEF, DBT etc., to carry out research activities.

The Finance wing of this Institute monitors/controls the expenditure by obtaining monthly statements from various units/departments and control the financial outputs. Checks prescribed by Government of India in disbursement of payments are being exercised by Assistant Accounts Officer, Drawing and Disbursing Officer and Finance & Chief Accounts Officer.

Finance wing compiles the annual account and submits the same to the Comptroller & Auditor General of India, Statutory auditor for certification of accounts.
### 12.1 Balance Sheet

**Jawaharlal Institute of Post Graduate Medical Education and Research, Puducherry-605 006**

**BALANCE SHEET AS AT 31ST MARCH 2012**

<table>
<thead>
<tr>
<th>Schedule</th>
<th>CORPUS / CAPITAL FUND LIABILITIES</th>
<th>Current Year 2011-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Corpus / Capital Fund</td>
<td>7114917871</td>
</tr>
<tr>
<td>2</td>
<td>Reserves and Surpluses</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>Earmarked/ Endowment Funds</td>
<td>10512212</td>
</tr>
<tr>
<td>4</td>
<td>Secured Loans and Borrowings</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>Unsecured Loans and Borrowings</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>Deferred Credit Liabilities</td>
<td>0</td>
</tr>
<tr>
<td>7</td>
<td>Current Liabilities</td>
<td>324735209</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>7450165292</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Schedule</th>
<th>Fixed Assets</th>
<th>Current Year 2011-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>Investments from Earmarked Endowment Funds</td>
<td>4494967274</td>
</tr>
<tr>
<td>9</td>
<td>Investment Others</td>
<td>0</td>
</tr>
<tr>
<td>10</td>
<td>Current Assets Loans and Advances</td>
<td>2955198018</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>7450165292</strong></td>
</tr>
</tbody>
</table>

**G.MANI**  
FINANCE & CHIEF ACCOUNTS OFFICER  
JIPMER

**Dr. T.S.RAVIKUMAR**  
DIRECTOR  
JIPMER
### INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st March 2012

<table>
<thead>
<tr>
<th>Schedule</th>
<th>Current Year 2011-12</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>INCOME</strong></td>
<td></td>
</tr>
<tr>
<td>Income from Sales / Services</td>
<td>12</td>
</tr>
<tr>
<td>Grant / Subsidies</td>
<td>13</td>
</tr>
<tr>
<td>Fees / Subscriptions</td>
<td>14</td>
</tr>
<tr>
<td>Income from Investment (income from earmarked endow funds transferred to funds)</td>
<td>15</td>
</tr>
<tr>
<td>Income from Royalty and Publications</td>
<td>16</td>
</tr>
<tr>
<td>Interest Earned</td>
<td>17</td>
</tr>
<tr>
<td>Other Income</td>
<td>18</td>
</tr>
<tr>
<td>Increase / (Decrease) in stock</td>
<td>19</td>
</tr>
<tr>
<td><strong>Total (A)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>EXPENDITURE</strong></td>
<td></td>
</tr>
<tr>
<td>Establishment Expenses</td>
<td>20</td>
</tr>
<tr>
<td>Other administrative Expenses</td>
<td>21</td>
</tr>
<tr>
<td>Expenditure on Grants, Subsidies etc</td>
<td>22</td>
</tr>
<tr>
<td>Interest</td>
<td>23</td>
</tr>
<tr>
<td>Depreciation (Net total at the year end)</td>
<td></td>
</tr>
<tr>
<td><strong>Total (B)</strong></td>
<td></td>
</tr>
</tbody>
</table>
### INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st March 2012

<table>
<thead>
<tr>
<th>Schedule</th>
<th>Current Year 2011-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balance being excess of Income over Expenditure (A-B)</td>
<td>2385919163</td>
</tr>
<tr>
<td>(+/- ) Prior Period Expense / Income (Netted)</td>
<td>24 (5706388)</td>
</tr>
<tr>
<td>Net Balance being excess of Income over Expenditure</td>
<td>2391625551</td>
</tr>
<tr>
<td>Transfer to Special Reserve (Specify each)</td>
<td>0</td>
</tr>
<tr>
<td>Transfer to / from General Reserve</td>
<td>0</td>
</tr>
<tr>
<td>Balance being surplus / (Deficit) carried to Corpus / Capital fund</td>
<td>2391625551</td>
</tr>
<tr>
<td>Significant Accounting policies</td>
<td>25</td>
</tr>
<tr>
<td>Contingent Liabilities and notes on accounts</td>
<td>26</td>
</tr>
</tbody>
</table>

G.MANI  
FINANCE & CHIEF ACCOUNTS OFFICER  
JIPMER

Dr. T.S.RAVIKUMAR  
DIRECTOR  
JIPMER
**FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)**

Jawaharlal Institute of Post Graduate Medical Education and Research

**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2012**

<table>
<thead>
<tr>
<th>CORPUS/CAPITAL FUND:</th>
<th>2011-2012 Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCHEDULE 1: Corpus / Capital Fund</td>
<td></td>
</tr>
<tr>
<td>Balance at the beginning of the year</td>
<td></td>
</tr>
<tr>
<td>Opening Bank Balances as on 01.04.2011</td>
<td>4,723,292,320</td>
</tr>
<tr>
<td>Total Opening Balances</td>
<td>4,723,292,320</td>
</tr>
<tr>
<td>Add: Contribution towards Corpus / Capital Fund</td>
<td></td>
</tr>
<tr>
<td>Add: Balance of net income transferred from the Income &amp; Expenditure Account</td>
<td>2,391,625,551</td>
</tr>
<tr>
<td>Total</td>
<td>7,114,917,871</td>
</tr>
</tbody>
</table>

**SCHEDULE 2: Reserves and Surpluses**

1. **Capital Reserve**:  
   Opening Balance | 0 |
   Add: Addition during the year | 0 |
   Less: Deductions during the year | 0 | 0 |

2. **Revaluation Reserve**:  
   Opening Balance | 0 |
   Add: Addition during the year | 0 |
   Less: Deductions during the year | 0 | 0 |
**Jawaharlal Institute of Post Graduate Medical Education and Research**

**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2012**

3. **Special Reserve:**
   - **Opening Balance:** 0
   - **Addition during the year:** 0
   - **Deductions during the year:** 0

4. **General Reserve:**
   - **Opening Balance:** 0
   - **Addition during the year:** 0
   - **Deductions during the year:** 0

**Total:** 0

**SCHEDULE 3: Earmarked / Endowment Funds**

1. **Specific Fund and Research**
   - **SBI A/c No, 10100030209**
     - **Opening Balance:** 9,419,968
     - **Addition during the year:** 15,717,958
     - **Deductions during the year:** 17,535,715

2. **RAN & Specific Project**
   - **SOB A/c No. 983400000001**
     - **Opening Balance:** 3,317,330
     - **Addition during the year:** 3,904,243
     - **Deductions during the year:** 5049686
<table>
<thead>
<tr>
<th>3.</th>
<th>Poor Fund Account</th>
<th>Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SBI A/c No.</td>
<td>101000111203</td>
<td></td>
</tr>
<tr>
<td>Opening Balance</td>
<td></td>
<td>77,628</td>
</tr>
<tr>
<td>Add: Addition during the year</td>
<td></td>
<td>80,117</td>
</tr>
<tr>
<td>Less: Deductions during the year</td>
<td></td>
<td>7,750 149,995</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4.</th>
<th>Regional Cancer Fund Account</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BOB A/c No.</td>
<td>98340100002219</td>
<td></td>
</tr>
<tr>
<td>Opening Balance</td>
<td></td>
<td>1,136,695</td>
</tr>
<tr>
<td>Add: Addition during the year</td>
<td></td>
<td>37,712</td>
</tr>
<tr>
<td>Less: Deductions during the year</td>
<td></td>
<td>669,293 505,114</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5.</th>
<th>GFATM · College of Nursing</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SBI A/c No.</td>
<td>3083211903</td>
<td></td>
</tr>
<tr>
<td>Opening Balance</td>
<td></td>
<td>1,103,190</td>
</tr>
<tr>
<td>Add: Addition during the year</td>
<td></td>
<td>2,287,815</td>
</tr>
<tr>
<td>Less: Deductions during the year</td>
<td></td>
<td>3,308,000 83,005</td>
</tr>
</tbody>
</table>

**Total** |                                                                                   | **10,512,212** |
## SCHEDULE 4: Secured Loans and Borrowings

<table>
<thead>
<tr>
<th></th>
<th>Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central Government</td>
<td>0</td>
</tr>
<tr>
<td>State Government (Specify)</td>
<td>0</td>
</tr>
<tr>
<td>Financial Institutions</td>
<td></td>
</tr>
<tr>
<td>(a) Term Loans</td>
<td>0</td>
</tr>
<tr>
<td>(b) Interest accrued and due</td>
<td>0</td>
</tr>
<tr>
<td>Banks:</td>
<td></td>
</tr>
<tr>
<td>(a) Term Loans</td>
<td></td>
</tr>
<tr>
<td>- Interest accrued and due</td>
<td>0</td>
</tr>
<tr>
<td>(b) other Loans (specify)</td>
<td>0</td>
</tr>
</tbody>
</table>

Other Institutions and Agencies | 0
Debentures and Bonds            | 0
Others (Specify)                | 0

Total                           | 0

## SCHEDULE 5: UNSECURED LOANS AND BORROWINGS

<table>
<thead>
<tr>
<th></th>
<th>Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central Government</td>
<td>0</td>
</tr>
<tr>
<td>State Government (Specify)</td>
<td>0</td>
</tr>
<tr>
<td>Financial Institutions</td>
<td>0</td>
</tr>
</tbody>
</table>
Jawaharlal Institute of Post Graduate Medical Education and Research

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2012

<table>
<thead>
<tr>
<th>Banks:</th>
<th>Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) Term Loans</td>
<td>0</td>
</tr>
<tr>
<td>(b) Other Loans (specify)</td>
<td>0</td>
</tr>
<tr>
<td>Other Institutions and Agencies</td>
<td>0</td>
</tr>
<tr>
<td>Debentures and Bonds</td>
<td>0</td>
</tr>
<tr>
<td>Fixed Deposits</td>
<td>0</td>
</tr>
<tr>
<td>Others (Specify)</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>0</strong></td>
</tr>
</tbody>
</table>

SCHEDULE 6: DEFERRED CREDIT LIABILITIES

| (a) Acceptances secured by hypothecation of capital equipment and other assets | 0   |
| (b) Others                                                                    | 0   |
| **Total**                                                                    | **0** |

SCHEDULE 7: CURRENT LIABILITIES AND PROVISIONS

A. Current Liabilities

| Book Overdrafts                                                                 |     |
| GIA SBI A/c No. 2008                                                           | 23,322,733 |
| Drug-De-Addiction SBI A/c No. 2008                                             | 118,251   |
| Acceptances                                                                    | 0       |
Jawaharlal Institute of Post Graduate Medical Education and Research

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2012

<table>
<thead>
<tr>
<th>Category</th>
<th>Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sundry Creditors:</td>
<td>0</td>
</tr>
<tr>
<td>Advances Received</td>
<td></td>
</tr>
<tr>
<td>Interest accrued but not due on:</td>
<td></td>
</tr>
<tr>
<td>(a) Secured Loans/ borrowings</td>
<td>0</td>
</tr>
<tr>
<td>(b) Unsecured Loans/borrowings</td>
<td>0</td>
</tr>
<tr>
<td>Statutory Liabilities:</td>
<td></td>
</tr>
<tr>
<td>Other current Liabilities:</td>
<td></td>
</tr>
<tr>
<td>(a) Recovery Made from Salary</td>
<td></td>
</tr>
<tr>
<td>Opening Balance</td>
<td>0</td>
</tr>
<tr>
<td>Deductions from salary during the year</td>
<td>435,577,032</td>
</tr>
<tr>
<td>Settlement during the year</td>
<td>330,482,904</td>
</tr>
<tr>
<td>(b) Income &amp; Expenditure Adjustment including outstanding payments</td>
<td>105,094,128</td>
</tr>
<tr>
<td>(i) GPF - Absorbed Employees (63 absorbed employees)</td>
<td>142,780,528</td>
</tr>
<tr>
<td>(ii) GPF Interest of absorbed Employees</td>
<td>7,078,162</td>
</tr>
<tr>
<td>(iii) EMD</td>
<td></td>
</tr>
<tr>
<td>Opening Balance</td>
<td>23,130,183</td>
</tr>
<tr>
<td>Add: Addition during the year</td>
<td>13,206,935</td>
</tr>
<tr>
<td>Less: Deductions during the year</td>
<td>10,475,426</td>
</tr>
<tr>
<td>Jawaharlal Institute of Post Graduate Medical Education and Research</td>
<td></td>
</tr>
<tr>
<td>---------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2012</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>(iv) Security Deposit /Education deposit</td>
<td>Rs.</td>
</tr>
<tr>
<td>Opening Balance</td>
<td>1352000</td>
</tr>
<tr>
<td>Add: Addition during the year</td>
<td>486000</td>
</tr>
<tr>
<td>Less: Deductions during the year</td>
<td>2000</td>
</tr>
<tr>
<td>Outstanding Expenses</td>
<td>1,836,000</td>
</tr>
<tr>
<td></td>
<td>1,666,967</td>
</tr>
<tr>
<td></td>
<td>1,666,967</td>
</tr>
<tr>
<td>A. Current Liabilities</td>
<td>TOTAL</td>
</tr>
<tr>
<td></td>
<td>307,758,461</td>
</tr>
<tr>
<td>B. Provisions</td>
<td></td>
</tr>
<tr>
<td>For Taxation</td>
<td>0</td>
</tr>
<tr>
<td>Gratuity</td>
<td>0</td>
</tr>
<tr>
<td>Superannuation/Pension</td>
<td>0</td>
</tr>
<tr>
<td>Accumulated Leave Encashment</td>
<td>0</td>
</tr>
<tr>
<td>Trade Warranties/Claims</td>
<td>0</td>
</tr>
<tr>
<td>– Opening Balance</td>
<td>500,000</td>
</tr>
<tr>
<td>Add: Provision during the year</td>
<td>500,000</td>
</tr>
<tr>
<td>Less: Payment during the year</td>
<td>0</td>
</tr>
<tr>
<td>MACP arrear provision for retired employees</td>
<td>1,000,000</td>
</tr>
<tr>
<td>– Opening Balance</td>
<td>150,000</td>
</tr>
<tr>
<td>Add: Provision during the year</td>
<td>0</td>
</tr>
<tr>
<td>Less: Payment during the year</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>150,000</td>
</tr>
<tr>
<td>Description</td>
<td>Rs.</td>
</tr>
<tr>
<td>----------------------------------------------------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Salary Difference (03/11 &amp; 03/12) (Adjustments)</td>
<td></td>
</tr>
<tr>
<td>– Opening Balance</td>
<td>17,586,795</td>
</tr>
<tr>
<td>Add: Provision during the year</td>
<td>15,826,748</td>
</tr>
<tr>
<td>Less: Payment during the year</td>
<td>17,586,795</td>
</tr>
<tr>
<td><strong>B. Provisions</strong></td>
<td><strong>Total</strong></td>
</tr>
<tr>
<td><strong>CURRENT LIABILITIES AND PROVISIONS</strong></td>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>

**SCHEDULE 9: Investments from Earmarked / Endowment Funds**

1. In Government Securities                                                | 0         |
2. Other Approved Securities                                               | 0         |
3. Shares                                                                  | 0         |
4. Debentures and Bonds                                                    | 0         |
5. Subsidiaries and Joint Venture                                          | 0         |
6. Others                                                                  | 0         |

**Total**                                                                  | 0         |

**SCHEDULE 10: Investments -Others**

1. In Government Securities                                                | 0         |
2. Other Approved Securities                                               | 0         |
3. Shares                                                                  | 0         |
<table>
<thead>
<tr>
<th>4.</th>
<th>Debentures and Bonds</th>
<th>Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.</td>
<td>Subsidiaries and Joint Venture</td>
<td>0</td>
</tr>
<tr>
<td>6.</td>
<td>Others</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>0</strong></td>
</tr>
</tbody>
</table>

**SCHEDULE 11: CURRENT ASSETS & LOANS ADVANCES**

**A. Current Assets**

1. (a) Closing Stock
   - Disinfectant Store | 1,867,953 |
   - Surgical Dressing Store | 2,434,291 |
   - Chemical Store | 260,845 |
   - Tablet store | 9,501,807 |
   - Injection Store | 16,675,353  |
   **Total** | 30,740,249 |

(b) Loose Tools | 0 |

(c) Stock In trade
   - Finished Goods | 0 |
   - Work- In- Progress | 0 |
   - Raw Materials | 0  |

2. Sundry Debtors
   (a) Debts Outstanding for a period exceeding six months | 0 |
   (b) Others | 0 |
## Schedules Forming Part of Balance Sheet as at 31-03-2012

<table>
<thead>
<tr>
<th>3. Cash Balances on hand</th>
<th>Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash On hand Cashier</td>
<td>32,650,930</td>
</tr>
<tr>
<td>Cash on Hand - GFATM - College of Nursing</td>
<td>764</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4. Bank Balances</th>
<th>Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIA SBI A/c No. 2008</td>
<td>0</td>
</tr>
<tr>
<td>CBHI SBI A/c No. 2008</td>
<td>725,313</td>
</tr>
<tr>
<td>Drug De-Addiction SBI A/c No. 2008</td>
<td>0</td>
</tr>
<tr>
<td>JIPMER Rev. SBI A/c No -30749579504</td>
<td>7,818,046</td>
</tr>
<tr>
<td>GFATM - College of Nursing - SBI A/c No. 3083211903</td>
<td>82,241</td>
</tr>
<tr>
<td>JIPMER Academic Fund SBI A/c No.30586618233</td>
<td>26,233,369</td>
</tr>
<tr>
<td>JIPMER Academic Fund SBI A/c No.30506194792</td>
<td>6,398,424</td>
</tr>
<tr>
<td>Recovery Account SBI A/c No. 31545908658</td>
<td>39,766,199</td>
</tr>
<tr>
<td>Regional Cancer Fund Account - RAN BOB 98340100002219</td>
<td>505,114</td>
</tr>
<tr>
<td>MS RAN BOB-98340200000001</td>
<td>539,689</td>
</tr>
<tr>
<td>Specific Purpose BOB-98340200000001</td>
<td>1,632,198</td>
</tr>
<tr>
<td>PFA SBI A/c No: 101000111203</td>
<td>149,995</td>
</tr>
<tr>
<td>Specific Fund &amp; Research Account - SBI 1010030209</td>
<td>7,602,211</td>
</tr>
</tbody>
</table>
### Jawaharlal Institute of Post Graduate Medical Education and Research

**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2012**

<table>
<thead>
<tr>
<th>5. Balances in Fixed Deposit</th>
<th>Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>– Endowment Fund - Cash Section FDR</td>
<td>1,954,049</td>
</tr>
<tr>
<td>– Other Fund – Purchase Section FDR</td>
<td>777,900</td>
</tr>
<tr>
<td>– LC Deposits</td>
<td>22,787,000</td>
</tr>
<tr>
<td>– GFATM - FDR - BOB - FDR</td>
<td>0</td>
</tr>
<tr>
<td>– JIPMER Rev. -SBI A/c No -30749579504 - FDR</td>
<td>153,000,000</td>
</tr>
<tr>
<td>– GIA A/c FDR</td>
<td>2,000,000,000</td>
</tr>
<tr>
<td>– Recovery A/c FDR</td>
<td>100,000,000</td>
</tr>
<tr>
<td>– PFA FDR</td>
<td>1,309,866</td>
</tr>
</tbody>
</table>

### B. Loans, Advances and Other Assets

1. Loans

   (a) Staff
   
   (b) Other Entities engaged in activities / objectives similar
   
   (c) Other (specify)

   1. HLL Advance | 380,328,996 |
   2. CPWD Advance | 88,592,871 |
   3. LC Payments | 3,266,685 |
   4. Advance for Vehicle purchase | 7,109,577 | 487,489,261 |
   5. Information Technology(BSNL) | 8,191,132 |
### SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2012

<table>
<thead>
<tr>
<th>Description</th>
<th>Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2. Advances and other amounts recoverable in cash</strong></td>
<td></td>
</tr>
<tr>
<td>(a) On Capital accounts</td>
<td></td>
</tr>
<tr>
<td>(b) Pre-payments</td>
<td>14,706,460</td>
</tr>
<tr>
<td>(c) Others</td>
<td></td>
</tr>
<tr>
<td><strong>3. Income Accrued</strong></td>
<td></td>
</tr>
<tr>
<td>(a) On Investments from Earmarked / Endowment funds</td>
<td></td>
</tr>
<tr>
<td>– Interest accrued on FDR</td>
<td>6,662,467</td>
</tr>
<tr>
<td>(b) On Investments - Others</td>
<td></td>
</tr>
<tr>
<td>(c) On Loans and advances</td>
<td></td>
</tr>
<tr>
<td>1. HLL Interest</td>
<td>11,559,600</td>
</tr>
<tr>
<td>2. CPWD Interest</td>
<td>0</td>
</tr>
<tr>
<td>3. LC Interest</td>
<td>106,673</td>
</tr>
<tr>
<td>(d) Others</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>2,955,198,018</td>
</tr>
</tbody>
</table>
Jawaharlal Institute of Post Graduate Medical Education and Research  
Schedules Forming Part of Balance Sheet for the Year Ended 31-03-2012

<table>
<thead>
<tr>
<th>TYPE OF ASSETS</th>
<th>GROSS BLOCK as on 1/4/2011</th>
<th>Additions &gt; 180 days</th>
<th>Additions &lt; 180 days</th>
<th>Total Additions during the year</th>
<th>Gross Block as on 31/03/2012</th>
<th>Deletion/ Transfer WIP</th>
<th>Rate of Depreciation</th>
<th>Depreciation on as on 01-04-2011</th>
<th>During the year Depreciation on Assets &gt; 180 days</th>
<th>During the year Depreciation on Assets &lt; 180 days</th>
<th>Total Depreciation</th>
<th>NET BLOCK as at 31-03-2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Land</td>
<td>120000</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>120000</td>
<td>0</td>
<td>0.00%</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>120000</td>
</tr>
<tr>
<td>Building Non- Residential</td>
<td>1164605018</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1164605018</td>
<td>0</td>
<td>10.00%</td>
<td>11646052</td>
<td>0</td>
<td>0</td>
<td>11646052</td>
<td>104814516</td>
</tr>
<tr>
<td>Building Residential</td>
<td>174835617</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>174835617</td>
<td>0</td>
<td>5.00%</td>
<td>8741781</td>
<td>0</td>
<td>0</td>
<td>8741781</td>
<td>166093836</td>
</tr>
<tr>
<td>Machinery &amp; equipments</td>
<td>a) General Equipments</td>
<td>317580267</td>
<td>0</td>
<td>0</td>
<td>317580267</td>
<td>0</td>
<td>15.00%</td>
<td>47637040</td>
<td>0</td>
<td>0</td>
<td>47637040</td>
<td>269843227</td>
</tr>
<tr>
<td></td>
<td>b) Life Saving Equipments</td>
<td>39180994</td>
<td>41625880</td>
<td>41625880</td>
<td>80906674</td>
<td>0</td>
<td>40.00%</td>
<td>15672398</td>
<td>0</td>
<td>8325176</td>
<td>23997574</td>
<td>56809300</td>
</tr>
<tr>
<td>TOTAL M &amp; E</td>
<td>356761261</td>
<td>0</td>
<td>41625880</td>
<td>41625880</td>
<td>398387141</td>
<td>0</td>
<td>63309438</td>
<td>4935552</td>
<td>0</td>
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<td>7163414</td>
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<td>Computer</td>
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<td></td>
<td></td>
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<tr>
<td>1) AIS Unit</td>
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<td>3220720</td>
<td>3948236</td>
<td>3948236</td>
<td>0</td>
<td>60.00%</td>
<td>436510</td>
<td>966216</td>
<td>1402726</td>
<td>2545510</td>
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<tr>
<td>2) HIS Unit</td>
<td>94372</td>
<td>76500</td>
<td>816444</td>
<td>892944</td>
<td>987316</td>
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<td>60.00%</td>
<td>56623</td>
<td>45900</td>
<td>244933</td>
<td>347456</td>
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<td>TOTAL Computer</td>
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<td>45900</td>
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<td>762907</td>
<td>2843760</td>
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<td>312128</td>
<td>114436</td>
<td>244933</td>
<td>347456</td>
<td>630880</td>
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<td>60.00%</td>
<td>2142100</td>
<td>109452</td>
<td>1947418</td>
<td>4198970</td>
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<td>6045222</td>
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<td>1813567</td>
<td>738992</td>
<td>794927</td>
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<tr>
<td>Total Books &amp; Journals</td>
<td>12864208</td>
<td>182420</td>
<td>12536616</td>
<td>12719036</td>
<td>25583244</td>
<td>0</td>
<td>7718525</td>
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<td>376985</td>
<td>1158962</td>
<td>13994282</td>
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<td>Office Furniture</td>
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<td>400793</td>
<td>170931</td>
<td>2266522</td>
<td>22107998</td>
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<tr>
<td>Electrical Installation</td>
<td>363225430</td>
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<td>0</td>
<td>363225430</td>
<td>363225430</td>
<td>0</td>
<td>363225430</td>
<td>0</td>
<td>363225430</td>
<td>363225430</td>
<td>363225430</td>
<td></td>
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<tr>
<td>Work in Progress</td>
<td>883948378</td>
<td>1691302284</td>
<td>0</td>
<td>1691302284</td>
<td>2585248662</td>
<td>0</td>
<td>0.00%</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2585248662</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>2988208633</td>
<td>1696332036</td>
<td>61618275</td>
<td>17579630311</td>
<td>4744158944</td>
<td>0</td>
<td>235052848</td>
<td>670581</td>
<td>13468221</td>
<td>249191670</td>
<td>4494667274</td>
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</table>
### FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)

**Jawaharlal Institute of Post Graduate Medical Education and Research**

Schedules Forming Part of Income & Expenditure for the year ended 31-03-2012

<table>
<thead>
<tr>
<th>Details</th>
<th>Current Year 2011-2012</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Plan</td>
</tr>
<tr>
<td><strong>SCHEDULE 12 - Income from Sales &amp; Services</strong></td>
<td></td>
</tr>
<tr>
<td>1) Income from sales</td>
<td></td>
</tr>
<tr>
<td>- Sale of Application &amp; Exam fees Receipts</td>
<td>59537380</td>
</tr>
<tr>
<td>2) Income from Services</td>
<td></td>
</tr>
<tr>
<td>- Guest House Receipts</td>
<td>46000</td>
</tr>
<tr>
<td>- Hostel Receipts</td>
<td>537870</td>
</tr>
<tr>
<td>- Hospital Stoppages</td>
<td>7877065</td>
</tr>
<tr>
<td>- Licence fees</td>
<td>315355</td>
</tr>
<tr>
<td>- Water Charges</td>
<td>11383</td>
</tr>
<tr>
<td>- Miscellaneous Receipts</td>
<td>17315798</td>
</tr>
<tr>
<td><strong>Total SCHEDULE 12</strong></td>
<td>85,640,851</td>
</tr>
<tr>
<td><strong>SCHEDULE 13 - Grants / Subsides</strong></td>
<td></td>
</tr>
<tr>
<td>(Irrevocable Grants &amp; Subsidies Received)</td>
<td></td>
</tr>
<tr>
<td>1) Central Government</td>
<td>3,165,900,000</td>
</tr>
<tr>
<td>2) State Government</td>
<td>-</td>
</tr>
<tr>
<td>3) Government Agencies</td>
<td>900,000.00</td>
</tr>
<tr>
<td>4) Institutions and welfare bodies</td>
<td>-</td>
</tr>
<tr>
<td>5) International Organisations</td>
<td>-</td>
</tr>
<tr>
<td>6) Others</td>
<td>-</td>
</tr>
<tr>
<td><strong>Total SCHEDULE 13</strong></td>
<td>3,166,800,000</td>
</tr>
<tr>
<td><strong>SCHEDULE 14 - Fees / Subscriptions</strong></td>
<td></td>
</tr>
<tr>
<td>Fees / Subscriptions</td>
<td>-</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>-</td>
</tr>
</tbody>
</table>
# FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)

Jawaharlal Institute of Post Graduate Medical Education and Research

Schedules Forming Part of Income & Expenditure for the year ended 31-03-2012

<table>
<thead>
<tr>
<th>Details</th>
<th>Current Year 2011-2012</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Plan</td>
</tr>
<tr>
<td><strong>SCHEDULE 15 - Income From Investments</strong></td>
<td></td>
</tr>
<tr>
<td>1) Interest</td>
<td>-</td>
</tr>
<tr>
<td>2) Dividends</td>
<td>-</td>
</tr>
<tr>
<td>3) Rents</td>
<td>-</td>
</tr>
<tr>
<td>4) Others (Specify)</td>
<td>-</td>
</tr>
<tr>
<td>Total</td>
<td>-</td>
</tr>
</tbody>
</table>

| **SCHEDULE 16 - Income From Royalty, Publications etc** | | | |
| 1) Income Royalty | - | - | - |
| 2) Income from Publications | - | - | - |
| 3) Others (Specify) | - | - | - |
| Total | - | - | - |

| **SCHEDULE 17 - Interest Earned** | | | |
| 1. On Term Deposit | | | |
| a) With Schedule Banks | 99,872,158 | - | 99,872,158 |
| b) With Non-Schedule Banks | - | - | - |
| c) With Institutions | - | - | - |
| d) Others | - | - | - |
| Total | - | - | - |
| 2. On Savings Accounts | | | |
| a) With Schedule Banks | 7,804,990 | - | 7,804,990 |
| b) With Non-Schedule Banks | - | - | - |
| c) With Institutions | - | - | - |
| d) Others | - | - | - |
| Total | - | - | - |
| 3. On Loans: | | | |
| a) Employees | - | - | - |
| b) Others | 11,666,273 | - | 11,666,273 |
| 4) Interest on Debtors and other Receivables | - | - | - |
| Total | 119,343,421 | 0 | 119,343,421 |
## FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)

Jawaharlal Institute of Post Graduate Medical Education and Research

Schedules Forming Part of Income & Expenditure for the year ended 31-03-2012

### SCHEDULE 18: Other Income

<table>
<thead>
<tr>
<th>Details</th>
<th>Plan</th>
<th>Non-Plan</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) Profit on Sale / Disposal of Assets:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a) Owned assets</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>b) Assets acquired out of grants or received free of cost</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2) Export Incentives realised</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>3) Fees for Misc Services</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>4) Miscellaneous Income</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Total SCHEDULE 18</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
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### SCHEDULE 19: Increase / Decrease in Stock of Finished Goods and work in progress

<table>
<thead>
<tr>
<th>Details</th>
<th>Current Year 2011-2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Opening Stock</td>
<td></td>
</tr>
<tr>
<td>- Disinfectant Store</td>
<td>1,955,575</td>
</tr>
<tr>
<td>- Surgical Dressing Store</td>
<td>1,248,451</td>
</tr>
<tr>
<td>- Chemical Store</td>
<td>225,109</td>
</tr>
<tr>
<td>- Tablet store</td>
<td>6,777,100</td>
</tr>
<tr>
<td>- Injection Store</td>
<td>16,647,080</td>
</tr>
<tr>
<td><strong>Total SCHEDULE 19</strong></td>
<td>26,853,315</td>
</tr>
<tr>
<td>b) Less: Closing Stock</td>
<td></td>
</tr>
<tr>
<td>- Disinfectant Store</td>
<td>1,867,953</td>
</tr>
<tr>
<td>- Surgical Dressing Store</td>
<td>2,434,291</td>
</tr>
<tr>
<td>- Chemical Store</td>
<td>260,845</td>
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<tr>
<td>- Tablet store</td>
<td>9,501,807</td>
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<tr>
<td>- Injection Store</td>
<td>16,675,353</td>
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<tr>
<td><strong>Total SCHEDULE 19</strong></td>
<td>30,740,249</td>
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## FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)

**Jawaharlal Institute of Post Graduate Medical Education and Research**

### Schedules Forming Part of Income & Expenditure for the year ended 31-03-2012

<table>
<thead>
<tr>
<th>Details</th>
<th>Current Year 2011-2012</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Plan</td>
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<tr>
<td><strong>SCHEDULE 20 : Establishment Expenses</strong></td>
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<tr>
<td>Salaries and Wages</td>
<td>501037394</td>
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<tr>
<td>Allowances and Bonus</td>
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<tr>
<td>Contribution to Provident Fund</td>
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<tr>
<td>Contribution to other Fund - ( New Pension Scheme )</td>
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<td>Staff Welfare Expenses</td>
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<tr>
<td>Expenses on Employees Retirement and Terminal Benefit</td>
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<tr>
<td>Others</td>
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<tr>
<td><strong>Total SCHEDULE 20</strong></td>
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<td><strong>SCHEDULE 21 : Other Administrative Expenses</strong></td>
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<tr>
<td>Electricity and Power</td>
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<tr>
<td>Water Charges</td>
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<tr>
<td>Repairs and maintenance on Plant and Machinery</td>
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<tr>
<td>Insurance on Land &amp; Buildings</td>
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<tr>
<td>Rent, Rates and Taxes</td>
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<tr>
<td>Vehicle Repairs and Maintenance</td>
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<tr>
<td>Postage, Telephone and Communication Charges</td>
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<td>Printing and Stationery</td>
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<td>Travelling and Conveyance Expenses</td>
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<tr>
<td>Expenses on Seminar and Workshop</td>
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<td>Subscription / books and Journals Expenses</td>
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<tr>
<td>Expenses on Fees</td>
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## FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)

### Jawaharlal Institute of Post Graduate Medical Education and Research

#### Schedules Forming Part of Income & Expenditure for the year ended 31-03-2012

<table>
<thead>
<tr>
<th>Details</th>
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<th>Total</th>
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<tr>
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<tr>
<td>Hospitality Expenses</td>
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<tr>
<td>Professional Charges</td>
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<td>17788403</td>
<td>17788403</td>
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<tr>
<td>Provision for Bad and Doubtful Debt / Advances</td>
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<td>0</td>
<td>0</td>
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<tr>
<td>Irrecoverable Balances written off</td>
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<td>0</td>
<td>0</td>
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<tr>
<td>Packing Charges</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Freight and Forwarding Expenses</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Distribution Expenses</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Advertisement and Publicity</td>
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<td>0</td>
<td>0</td>
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<tr>
<td>Office Expenses</td>
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<td>117535800</td>
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<tr>
<td>Supply &amp; Material</td>
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<td>226500045</td>
<td>332905432</td>
</tr>
<tr>
<td>Machinery Spares and consumables</td>
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<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Others Expenditure</td>
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<td>2077607</td>
<td>2077607</td>
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<tr>
<td>Research Activities</td>
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<td>8628994</td>
<td>8628994</td>
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<tr>
<td>Scholarship and Stipend</td>
<td>0</td>
<td>3108999</td>
<td>3108999</td>
</tr>
<tr>
<td>Repairs and Maintenance of Building</td>
<td>19906508</td>
<td>109754915</td>
<td>129661421</td>
</tr>
<tr>
<td>Information Technology</td>
<td>7107834</td>
<td>7107834</td>
<td>7107834</td>
</tr>
<tr>
<td>Bank Charges</td>
<td>2644</td>
<td>2644</td>
<td>2644</td>
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<td><strong>Total SCHEDULE 21</strong></td>
<td>190424046</td>
<td>470070198</td>
<td>660494244</td>
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</tbody>
</table>

#### SCHEDULE 22 - Expenditure on Grants / Subsidies

<table>
<thead>
<tr>
<th>Details</th>
<th>Plan</th>
<th>Non-Plan</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Grants given to Institution / Organisations</td>
<td>1,723,196</td>
<td>0</td>
<td>1723196</td>
</tr>
<tr>
<td>b) Subsidies given to Institution / Organisations</td>
<td>-</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total SCHEDULE 22</strong></td>
<td>1,723,196</td>
<td>-</td>
<td>1,723,196</td>
</tr>
</tbody>
</table>
### FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)

**Jawaharlal Institute of Post Graduate Medical Education and Research**

Schedules Forming Part of Income & Expenditure for the year ended 31-03-2012

<table>
<thead>
<tr>
<th>Details</th>
<th>Current Year 2011-2012</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Plan</td>
</tr>
<tr>
<td><strong>SCHEDULE 23 INTEREST</strong></td>
<td></td>
</tr>
<tr>
<td>a) On Fixed Loans</td>
<td>-</td>
</tr>
<tr>
<td>b) On other Loans (Including Bank Charges)</td>
<td>7,078,162</td>
</tr>
<tr>
<td>Others - Specify</td>
<td></td>
</tr>
<tr>
<td>Total SCHEDULE 23</td>
<td>7,078,162</td>
</tr>
</tbody>
</table>

**SCHEDULE 24 (+/-) Prior Period Income Expenses**

| Prior Period Expenses | | |
|-----------------------|------------------------|
| Recovery Account Opening Balance Difference | 0 | 0 | 0 |
| **Total** | 0 | 0 | 0 |

Prior Period Income:

| Prior Period Income: | | |
|---------------------|------------------------|
| Fixed Deposit - Interest | 1309866 | 0 | 1309866 |
| Unspent balances of earlier years remitted by Cashier | 0 | 0 | 0 |
| Cashier Opening Balance brought into Books | 0 | 0 | 0 |
| GIA - Opening Balance Difference | 0 | 0 | 0 |
| GIA refunds erroneously remitted in SBI A/C No: 30749579504 | 4396522 | 0 | 4396522 |
| **Total** | 5706388 | 0 | 5706388 |
| **Total Schedule 24** | (5,706,388) | - | (5,706,388) |

G.MANI
FINANCE & CHIEF ACCOUNTS OFFICER
JIPMER
JAWAHARLAL INSTITUTE OF POSTGRADUATE MEDICAL EDUCATION AND RESEARCH, PUDUCHERRY-6

SCHEDULES FORMING PART OF THE ACCOUNTS FOR THE PERIOD ENDED 31.03.2012

SCHEDULES 25 – SIGNIFICANT ACCOUNTING POLICIES

A. Organization and Nature of Activities

Jawaharlal Institute of Postgraduate Medical Education and Research popularly known as "JIPMER" is an Institute of National Importance and a tertiary care referral hospital, an autonomous body, passed by an Act of Parliament on 14th July 2008 under the direct administrative control of the Ministry of Health and Family Welfare, Government of India.

The main functions of this institute are

1. To impart quality education in Under-graduate and Post-graduate medical and paramedical courses.

2. To set trends in medical research and

3. To offer patient care of high order

B. Financial Statement Presentation

The accompanying financial statements have been prepared on accrual basis of accounting in accordance with the generally accepted accounting policies based on the guidelines contained in the Manual of Instruction for Audit of Autonomous Bodies (NON-PROFIT ORGANISATIONS) Volume –II of Comptroller and Auditor General of India.

1. AS – 1 Disclosure of Accounting Policies

The financial statements prepared and presented represent a true and fair view mentioned as under –

(i) In the case of the Balance Sheet – of the state of affairs as on 31/03/2012

(ii) In the case of Income and Expenditure Statement – Of the excess or shortage of income over expenditure for the year ended on 31/03/2012
2. **AS – 2 Valuation of Inventories**

The inventories appearing in the books of accounts have been valued at Cost. The breakups of purchases, opening stock and closing stock in respect of inventories is reflected in schedule 11 under the head Current assets loans and advances.

3. **AS – 6 Depreciation Accounting**

Depreciation is provided on Written Down Value Method as per the rates prescribed in the Income Tax Act, 1961.

Deprecation on addition to assets during the year has been charged for the year with reference to date of installation / purchase.

The depreciation for assets charged during the year is reflected in schedule 8 – Fixed assets.

4. **AS – 9 Revenue Recognition**

The income from sales and service is reflected in schedule 12 – Income from sales and services. Income from sales includes income from application form and exam fees and income from service includes receipts from Guest House, Hostel, Hospital stoppages License and Water. The same is accounted on cash basis.

5. **AS – 10 Fixed Assets**

Fixed assets have been valued and accounted based on AS -10. The same is reflected in schedule 8- Fixed Assets.

**AS – 11 Changes in Foreign Exchange Rates**

Transactions denominated in foreign currency towards purchase of assets are made at the Exchange Rate prevailing at the date of transaction. No exchange difference has been treated as income or expense in the income and expenditure statement towards purchase of assets.

6. **AS – 12 Accounting for Government Grants**

Grant-in Aid were received from Central Government for specific and non-specific purposes.

During the financial year 2011-2012 non-specific fund for Rs. 46159 lakh was received as Grants-in Aid to run its internal administration and Rs. 9.00 lakh as Grant-in Aid for Drug-de-Addiction, is reflected in schedule 13- Grants and subsidies.
Grant-in-Aid were received for specific purpose such as Regional Cancer Fund, GFATM College of Nursing, RAN and Specific purpose fund, Poor Fund Account and Specific fund and research fund, is reflected in schedule 3 Earmarked and Endowment funds. The expenditure incurred on specific funds were adjusted against the funds on hand and received during the year 2011-2012.

7. **AS – 13 Accounting for Investments**
   
   The unspent Grant-in-aid and miscellaneous income have been deposited in scheduled banks as reflected in schedule 11 current assets loans and advances.

8. **AS – 15 Employee Benefits**
   
   As the institute has become an autonomous body in 2008, enmasse transfer of employees as Institute employee is in progress. Hence provision for terminal benefits payable to the retiring institute employees could not be ascertained.

9. **AS – 19 Leases**
   
   There is no case of 99 years leasehold.

   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 was received free of cost and are yet to be valued. Hence their value could not be exhibited in the Annual Accounts.

10. **AS – 22 Accounting for Taxes on Income**
    
    JIPMER being a non-profit organization is exempt from payment of income tax under section 10 (23-C) (iii ab) of Income-Tax Act, 1961.
SCHEDULES 26 – NOTES FORMING PART OF THE ACCOUNTS

1. Previous year figures could not be incorporated as unwanted entries were incorporated both in the income and expenditure and balance sheet. In view of the above, the corpus fund exhibited in the previous year balance sheet could not be adopted. The exact corpus fund was arrived at by taking into account all fixed, current assets loans and advances and deducting current liabilities and provisions and earmarked endowment funds as detailed in the working sheet enclosed herewith.

2. Extra-ordinary items reflected in schedule 24 – prior period income / expense represent the opening balances, income and expenditure inadvertently omitted to be incorporated in the annual accounts of the earlier years. Refunds of Grant-in-aid erroneously remitted in the revenue account during the financial years 2009-10 (Rs.9569987), 2010-11 (Rs.7750370) and 2011-12 (4396522) of Rs. 21716879 will be credited into Grant-in-aid account in the financial year 2013-14.

3. The liability of General Provident Fund account of the employees (except 63 absorbed employees), EMD/SD, Caution Deposit, Loans and advances maintained by the PAO were erroneously incorporated in the previous years accounts have been eliminated as the same were year to transferred to the Institute. For the absorbed employees GPF liabilities have been exhibited in the books of accounts.

G.MANI
FINANCE & CHIEF ACCOUNTS OFFICER
JIPMER
## Receipts and Payments Account for the year 2011-2012

### 1. Opening Balances

<table>
<thead>
<tr>
<th>Plan</th>
<th>Non-Plan</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cash on Hand</strong></td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Bank Balances</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>GIA SBI A/c No. 2008</strong></td>
<td>842,198,092</td>
<td>317,724,536</td>
</tr>
<tr>
<td><strong>CBHI SBI A/c No. 2008</strong></td>
<td>1,420,342</td>
<td>0</td>
</tr>
<tr>
<td><strong>Drug-De-Addiction SBI A/c No. 2008</strong></td>
<td>12,734</td>
<td>0</td>
</tr>
<tr>
<td><strong>JIPMER Rev. SBI A/c No.30749579504</strong></td>
<td>25,396,972</td>
<td>0</td>
</tr>
<tr>
<td><strong>GFATM - College of Nursing - SBI A/c No. 3083211903</strong></td>
<td>1,103,190</td>
<td>0</td>
</tr>
<tr>
<td><strong>JIPMER Academic Fund SBI A/c No.30586618233</strong></td>
<td>25,256,078</td>
<td>0</td>
</tr>
<tr>
<td><strong>JIPMER Academic Fund SBI A/c No.30506194792</strong></td>
<td>6,159,928</td>
<td>0</td>
</tr>
<tr>
<td><strong>Recovery Account SBI A/c No. 31545908658</strong></td>
<td>54,396,576</td>
<td>0</td>
</tr>
<tr>
<td><strong>NPS - No Bank</strong></td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>LC Deposits</strong></td>
<td>22,787,000</td>
<td>0</td>
</tr>
<tr>
<td><strong>GFATM - BOB - FDR</strong></td>
<td>45,000,000</td>
<td>0</td>
</tr>
<tr>
<td><strong>JIPMER Rev. SBI A/c No.30749579504 - FDR</strong></td>
<td>38,000,000</td>
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</tr>
</tbody>
</table>

### 2. Grants Received

#### (a) From Government of India

<table>
<thead>
<tr>
<th>Plan</th>
<th>Non-Plan</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fund received - GIA</strong></td>
<td>3,165,900,000</td>
<td>1,450,000,000</td>
</tr>
<tr>
<td><strong>Fund Received - Drug - De-Addiction programme</strong></td>
<td>900,000</td>
<td>0</td>
</tr>
<tr>
<td><strong>Fund Received - CBHI</strong></td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Fund Received - Drug - De-Addiction programme</strong></td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Fund Received - CBHI</strong></td>
<td>3,000,000</td>
<td>0</td>
</tr>
</tbody>
</table>

#### (b) From State Government

<table>
<thead>
<tr>
<th>Plan</th>
<th>Non-Plan</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fund Received - CBHI</strong></td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Fund Received - CBHI</strong></td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
## Receipts and Payments Account for the year 2011-2012

### RECIPTS

<table>
<thead>
<tr>
<th>From Other Sources</th>
<th>Current Year 2011-12</th>
<th>Previous Year 2010-11</th>
</tr>
</thead>
<tbody>
<tr>
<td>From Other Sources</td>
<td>Plan</td>
<td>Non-Plan</td>
</tr>
<tr>
<td>- Fund received - GFATM from CMC Vellore &amp; INC Delhi</td>
<td>2,243,770</td>
<td>0</td>
</tr>
<tr>
<td>- Fund received MS - RAN</td>
<td>2,000,000</td>
<td>0</td>
</tr>
<tr>
<td>- Fund received - GFATM from CMC Vellore &amp; INC Delhi</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>- Fund received Specific Project</td>
<td>1,904,243</td>
<td>0</td>
</tr>
<tr>
<td>- Fund received Specific Fund &amp; Research</td>
<td>15,717,958</td>
<td>0</td>
</tr>
<tr>
<td>- Fund received PFA</td>
<td>51,303</td>
<td>0</td>
</tr>
</tbody>
</table>

### III. Income on Investments from

<table>
<thead>
<tr>
<th>(a) Earmarked / Endowment Funds</th>
<th>Current Year 2011-12</th>
<th>Previous Year 2010-11</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interest Received GFATM - College of Nursing - added to fund</td>
<td>43,194</td>
<td>0</td>
</tr>
<tr>
<td>Interest Received - Regional Cancer Fund Account - added to fund</td>
<td>37,712</td>
<td>0</td>
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<tr>
<td>Interest Received - PFA - (to fund) Added- Specific</td>
<td>28,814</td>
<td>0</td>
</tr>
<tr>
<td>Interest Received - GIA - FDR</td>
<td>38,182,104</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>(b) Own Funds</th>
<th>Current Year 2011-12</th>
<th>Previous Year 2010-11</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interest Received JIPMER Academic Fund - SBI a/c No.3056615233</td>
<td>977,291</td>
<td>0</td>
</tr>
<tr>
<td>Interest Received JIPMER Academic Fund - SB a/c No.30506194792</td>
<td>238,496</td>
<td>0</td>
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</tbody>
</table>

### IV. Interest Received

<table>
<thead>
<tr>
<th>(a) On Bank deposits</th>
<th>Current Year 2011-12</th>
<th>Previous Year 2010-11</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interest Received - GIA - R.Sweep</td>
<td>55,027,587</td>
<td>0</td>
</tr>
<tr>
<td>Interest Received - Receipt A/c</td>
<td>4,837,582</td>
<td>0</td>
</tr>
<tr>
<td>Interest Received - Recovery Account</td>
<td>1,751,621</td>
<td>0</td>
</tr>
</tbody>
</table>
## Receipts and Payments Account for the year 2011-2012

### Jawaharlal Institute of Postgraduate Medical Education and Research, Puducherry - 605 006

<table>
<thead>
<tr>
<th>RECEIPTS</th>
<th>Current Year 2011-12</th>
<th>Previous Year 2010-11</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Plan</td>
<td>Non-Plan</td>
</tr>
<tr>
<td>(b) Loans, Advances etc.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Recovery Account 658</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>- LC - Deposits credited back</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>- EMD / SD Collection</td>
<td>13,206,935</td>
<td>0</td>
</tr>
<tr>
<td>- Caution / Hostel deposit</td>
<td>486,000</td>
<td>0</td>
</tr>
<tr>
<td>- CGEGIS</td>
<td>466,380</td>
<td>0</td>
</tr>
<tr>
<td>- CGEIS</td>
<td>21,330</td>
<td>2,370</td>
</tr>
<tr>
<td>- PLI</td>
<td>0</td>
<td>15,708</td>
</tr>
<tr>
<td>- GPF Other than Group - D</td>
<td>56,190,390</td>
<td>0</td>
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<tr>
<td>- GPF Group - D</td>
<td>34,929,810</td>
<td>43,802,610</td>
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<tr>
<td>- HBA</td>
<td>72,538</td>
<td>250,378</td>
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<tr>
<td>- HBA - Interest</td>
<td>15,670</td>
<td>45,040</td>
</tr>
<tr>
<td>- MCA</td>
<td>0</td>
<td>34,700</td>
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<tr>
<td>- MCA - Interest</td>
<td>0</td>
<td>19,500</td>
</tr>
<tr>
<td>- Scooter Advance</td>
<td>220,400</td>
<td>373,948</td>
</tr>
<tr>
<td>- Scooter Advance - Interest</td>
<td>2,500</td>
<td>17,000</td>
</tr>
<tr>
<td>- Suspense Account - Deputationist</td>
<td>215,970</td>
<td>351,100</td>
</tr>
<tr>
<td>- Income Tax ( Bills )</td>
<td>3,733,510</td>
<td>7,463,308</td>
</tr>
<tr>
<td>- Income Tax ( Salary )</td>
<td>51,599,250</td>
<td>70,560,848</td>
</tr>
<tr>
<td>- Educ. Cess salary</td>
<td>568,857</td>
<td>1,547,948</td>
</tr>
<tr>
<td>- Educ. Cess Bills</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>- Surcharge Bills</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>- Professional Tax</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>- Recovery Account - Transfer from Recovery a/c PAO</td>
<td>102,920,008</td>
<td>0</td>
</tr>
<tr>
<td>- NPS</td>
<td>52445644</td>
<td>0</td>
</tr>
</tbody>
</table>
## Receipts and Payments Account for the year 2011-2012

### Jawaharlal Institute of Postgraduate Medical Education and Research, Puducherry - 605 006

#### RECEIPTS

<table>
<thead>
<tr>
<th>Receipts</th>
<th>Current Year 2011-12</th>
<th>Previous Year 2010-11</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Plan</td>
<td>Non-Plan</td>
</tr>
<tr>
<td>V. Other Income (Specify)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Licence Fee</td>
<td>315,355</td>
<td>901,121</td>
</tr>
<tr>
<td>- Water charges</td>
<td>11,383</td>
<td>30,261</td>
</tr>
<tr>
<td>- Sale of Application &amp; Exam fees Receipts</td>
<td>59,537,380</td>
<td>0</td>
</tr>
<tr>
<td>- Miscellaneous Receipts</td>
<td>15,715,026</td>
<td>0</td>
</tr>
<tr>
<td>- Miscellaneous Income</td>
<td>1,600,772</td>
<td>0</td>
</tr>
<tr>
<td>- Hospital Receipts</td>
<td>7,877,065</td>
<td>0</td>
</tr>
<tr>
<td>- Housing Receipts</td>
<td>537,870</td>
<td>0</td>
</tr>
<tr>
<td>- Guest House Receipts</td>
<td>46,000</td>
<td>0</td>
</tr>
<tr>
<td>- Short Pass of Expenses of earlier Years - add GIA Grant</td>
<td>4,396,522</td>
<td>0</td>
</tr>
<tr>
<td>- Prior Period Income- GFATM -O/B Diff Cash + Bank</td>
<td>851</td>
<td>0</td>
</tr>
<tr>
<td>- Prior Period Income -Regional Cancer Fund -Bank O/B</td>
<td>1,136,695</td>
<td>0</td>
</tr>
<tr>
<td>- Prior Period Income - MS RAN -Bank - O/B</td>
<td>1,241,308</td>
<td>0</td>
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<tr>
<td>- Prior Period Income - PFA - Bank O/B</td>
<td>77,628</td>
<td>0</td>
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<tr>
<td>- Prior Period Income - Specific Purpose - Bank O/B</td>
<td>2,076,022</td>
<td>0</td>
</tr>
<tr>
<td>- Prior Period Income -Specific Fund &amp; Research - Bank-O/B</td>
<td>9,419,968</td>
<td>0</td>
</tr>
<tr>
<td>- Prior Period Income -PFA - FDR + interest</td>
<td>1,300,866</td>
<td>0</td>
</tr>
<tr>
<td>- Prior Period Income-Cashier deposits of expenses earlier years</td>
<td>2,038,089</td>
<td>0</td>
</tr>
<tr>
<td>- Cashier O/B brought into books of accounts</td>
<td>24117330</td>
<td>0</td>
</tr>
<tr>
<td>- GIA O/B Difference</td>
<td>10605116</td>
<td>0</td>
</tr>
<tr>
<td>Outstanding Liabilities</td>
<td>1666967</td>
<td>0</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>4,756,429,567</td>
<td>1,959,411,400</td>
</tr>
</tbody>
</table>
## Receipts and Payments Account for the year 2011-2012

### Payments

<table>
<thead>
<tr>
<th>PAYMENTS</th>
<th>Current Year 2011-12</th>
<th>Previous Year 2010-11</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Plan</td>
<td>Non-Plan</td>
<td>Total</td>
<td>Plan</td>
</tr>
<tr>
<td>I. Expenses</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(a) Establishment Expenses</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Salaries (Other than drug de-addiction and CBHI)</td>
<td>463,714,190</td>
<td>950,534,172</td>
<td>1,414,248,362</td>
<td>379,717,850</td>
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<tr>
<td>- Pension and Pensionary benefits</td>
<td>0</td>
<td>6,170,274</td>
<td>6,170,274</td>
<td>0</td>
</tr>
<tr>
<td>- Cyclone Advance</td>
<td>3,331,250</td>
<td>6,025,000</td>
<td>9,356,250</td>
<td>0</td>
</tr>
<tr>
<td>- NPS Institute contribution</td>
<td>16,827,254</td>
<td>9,361,539</td>
<td>26,188,793</td>
<td>0</td>
</tr>
<tr>
<td>- Wages</td>
<td>21,496,456</td>
<td>21,135,402</td>
<td>42,631,858</td>
<td>29,558,222</td>
</tr>
<tr>
<td>(b) Administrative Expenses</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Travel expenses</td>
<td>2,861,284</td>
<td>5,721,938</td>
<td>8,583,222</td>
<td>999,914</td>
</tr>
<tr>
<td>- Office Expenses</td>
<td>32,473,522</td>
<td>85,062,278</td>
<td>117,535,800</td>
<td>41,733,469</td>
</tr>
<tr>
<td>- Supplies and Materials</td>
<td>106,405,387</td>
<td>225,524,946</td>
<td>331,930,333</td>
<td>63,134,909</td>
</tr>
<tr>
<td>- Repairs &amp; Maintenances</td>
<td>5,942,967</td>
<td>13,008,392</td>
<td>18,951,359</td>
<td>2,491,595</td>
</tr>
<tr>
<td>- Books &amp; Journals</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1,445,066</td>
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<tr>
<td>- Motors Vehicles Maintenance</td>
<td>1,693,005</td>
<td>9,125,228</td>
<td>10,818,233</td>
<td>1,339,511</td>
</tr>
<tr>
<td>- LC Amount (Spares and consumables)</td>
<td>0</td>
<td>975,099</td>
<td>975,099</td>
<td>0</td>
</tr>
<tr>
<td>- Other Expenditure</td>
<td>2,077,607</td>
<td>0</td>
<td>2,077,607</td>
<td>736,343</td>
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<tr>
<td>- Research &amp; Activities</td>
<td>8,628,994</td>
<td>0</td>
<td>8,628,994</td>
<td>4,293,900</td>
</tr>
<tr>
<td>- Information Technology</td>
<td>7,107,834</td>
<td>0</td>
<td>7,107,834</td>
<td>7,468,290</td>
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<tr>
<td>- Professional Services</td>
<td>0</td>
<td>17,788,403</td>
<td>17,788,403</td>
<td>15,060,600</td>
</tr>
<tr>
<td>- Scholarships/ Stipend</td>
<td>0</td>
<td>3,108,999</td>
<td>3,108,999</td>
<td>0</td>
</tr>
<tr>
<td>- Rent, Rates &amp; Taxes</td>
<td>2,649,096</td>
<td>0</td>
<td>2,649,096</td>
<td>2,511,600</td>
</tr>
<tr>
<td>- Building Maintenance - Minor Repairs</td>
<td>19,906,506</td>
<td>109,754,915</td>
<td>129,661,421</td>
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</tr>
<tr>
<td>- Bank Charges -Recovery a/c</td>
<td>2,644</td>
<td>0</td>
<td>2,644</td>
<td>0</td>
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</tbody>
</table>
## Receipts and Payments Account for the year 2011-2012

### II. Payments made against funds for various projects

<table>
<thead>
<tr>
<th></th>
<th>Current Year 2011-12</th>
<th>Previous Year 2010-11</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Plan</td>
<td>Non-Plan</td>
</tr>
<tr>
<td>Payments made against funds - Drug - De - Addiction</td>
<td>1,030,985</td>
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</tr>
<tr>
<td>Payments made against funds - CBHI</td>
<td>692,211</td>
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</tr>
<tr>
<td>Payments made against funds - GFATM - College of Nursing</td>
<td>3,278,995</td>
<td>0</td>
</tr>
<tr>
<td>Payments made against funds - GFATM - College of Nursing</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Payments made against funds - Regional Cancer Fund</td>
<td>669,293</td>
<td>0</td>
</tr>
<tr>
<td>Payments made against funds MS - RAN - Medical Expenses to poor patients</td>
<td>2,701,619</td>
<td>0</td>
</tr>
<tr>
<td>Payments made against funds - Specific Purpose</td>
<td>2,348,067</td>
<td>0</td>
</tr>
<tr>
<td>Payments made against funds - PFA</td>
<td>7,750</td>
<td>0</td>
</tr>
<tr>
<td>Payments made against funds - Specific Fund &amp; Research</td>
<td>17,535,715</td>
<td>0</td>
</tr>
<tr>
<td>Payments made against funds - Academic fund</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

### III. Investments and deposits made

<table>
<thead>
<tr>
<th></th>
<th>Current Year 2011-12</th>
<th>Previous Year 2010-11</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Plan</td>
<td>Non-Plan</td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

### IV. Expenditure on Fixed Assets & Capital Work-in-Progress

<table>
<thead>
<tr>
<th></th>
<th>Current Year 2011-12</th>
<th>Previous Year 2010-11</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Plan</td>
<td>Non-Plan</td>
</tr>
<tr>
<td>Life Savings Machinery &amp; equipment</td>
<td>27,926,605</td>
<td>7,911,937</td>
</tr>
<tr>
<td>Capital Major Works ( CPWD )</td>
<td>203,557,009</td>
<td>0</td>
</tr>
<tr>
<td>Payment to HLL ( WIP)</td>
<td>1,487,745,275</td>
<td>0</td>
</tr>
<tr>
<td>Furniture</td>
<td>7,426,540</td>
<td>0</td>
</tr>
<tr>
<td>Advance BSNL</td>
<td>8,191,132</td>
<td>0</td>
</tr>
<tr>
<td>Computers - AIS UNIT</td>
<td>3220720</td>
<td>0</td>
</tr>
<tr>
<td>Computers - HIS UNIT</td>
<td>892944</td>
<td>0</td>
</tr>
<tr>
<td>Central Library Books</td>
<td>182,420</td>
<td>6,491,394</td>
</tr>
<tr>
<td>Central Library Journals</td>
<td>1882155</td>
<td>4,163,067</td>
</tr>
<tr>
<td>Printing and stationary</td>
<td>175200</td>
<td>0</td>
</tr>
<tr>
<td>Advance payments - journals</td>
<td>0</td>
<td>14,706,460</td>
</tr>
<tr>
<td>Outstanding Liabilities</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
## Receipts and Payments Account for the year 2011-2012

<table>
<thead>
<tr>
<th>PAYMENTS</th>
<th>Current Year 2011-12</th>
<th>Previous Year 2010-11</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Plan</td>
<td>Non-Plan</td>
</tr>
<tr>
<td>V. Refund of surplus money / Loans</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(a) To Government of India</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>(b) To State Government</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>(c) To other providers of funds</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- LC Deposit</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>- Refund of EMD / SD Collection - Rev. Account</td>
<td>10,475,426</td>
<td>0</td>
</tr>
<tr>
<td>- Refund of Caution / Hostel deposit - Rev. Account</td>
<td>2,000</td>
<td>0</td>
</tr>
<tr>
<td>- Advance of LC Amount (Paid for Machinery)</td>
<td>0</td>
<td>5,787,338</td>
</tr>
<tr>
<td>- Advance to GPF</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>- Recovery account</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>- Settlement of advances - Recovery Account</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(a) LIC Recovery</td>
<td>1,257,777</td>
<td>0</td>
</tr>
<tr>
<td>(b) GPF Settlement</td>
<td>195,877,595</td>
<td>0</td>
</tr>
<tr>
<td>(c) NPS Settlement</td>
<td>52,555,112</td>
<td>0</td>
</tr>
<tr>
<td>(d) Loan Settlement</td>
<td>1,051,849</td>
<td>0</td>
</tr>
<tr>
<td>(e) CGEGIS Settlement</td>
<td>811,545</td>
<td>0</td>
</tr>
<tr>
<td>(f) PLI Settlement</td>
<td>15,910</td>
<td>0</td>
</tr>
<tr>
<td>(g) Suspense Account Settlement</td>
<td>567,070</td>
<td>0</td>
</tr>
<tr>
<td>(h) IT Salary Settlement</td>
<td>72,982,579</td>
<td>0</td>
</tr>
<tr>
<td>(i) IT Firm Settlement</td>
<td>5,363,467</td>
<td>0</td>
</tr>
<tr>
<td>(j) NPS</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>(k) Water charges</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Total:

- Current Year 2011-12: 207,534,603
- Previous Year 2010-11: 192,073,176
### Receipts and Payments Account for the year 2011-2012

#### Payments

<table>
<thead>
<tr>
<th></th>
<th>Current Year 2011-12</th>
<th>Previous Year 2010-11</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Plan</td>
<td>Non-Plan</td>
</tr>
<tr>
<td>VI. Finance Charges (Interest)</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>- Prior Period Expenses - GFATM - O/B Bank</td>
<td>29,005</td>
<td>0</td>
</tr>
<tr>
<td>- Prior Period Expense - O/B balance difference earlier years</td>
<td>27,419,896</td>
<td>0</td>
</tr>
</tbody>
</table>

#### Closing Balances

<table>
<thead>
<tr>
<th></th>
<th>Current Year 2011-12</th>
<th>Previous Year 2010-11</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) Cash on Hand</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Cash on hand Cashier</td>
<td>32,650,930</td>
<td>0</td>
</tr>
<tr>
<td>- Cash on Hand - GFATM - College of Nursing</td>
<td>764</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Current Year 2011-12</th>
<th>Previous Year 2010-11</th>
</tr>
</thead>
<tbody>
<tr>
<td>(b) Bank Balances</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(i) In Current accounts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- GIA SBI A/c No. 2008</td>
<td>-23,322,733</td>
<td>0</td>
</tr>
<tr>
<td>- CBHI SBI A/c No. 2008</td>
<td>725,313</td>
<td>0</td>
</tr>
<tr>
<td>- Drug- De-Addiction SBI A/c No. 2008</td>
<td>-118,251</td>
<td>0</td>
</tr>
<tr>
<td>- JIPMER Rev. -SBI A/c No -30749579504</td>
<td>7,818,046</td>
<td>0</td>
</tr>
<tr>
<td>- GFATM - College of Nursing - SBI A/c No. 3083211903</td>
<td>82,241</td>
<td>0</td>
</tr>
<tr>
<td>- JIPMER Academic Fund - SBI A/c No.305866194792</td>
<td>6,398,424</td>
<td>0</td>
</tr>
<tr>
<td>- Recovery Account SBI A/c No. 31545908658</td>
<td>39,766,199</td>
<td>0</td>
</tr>
<tr>
<td>- Regional Cancer Fund Account-RAN- BOB 9834010002219</td>
<td>505,114</td>
<td>0</td>
</tr>
<tr>
<td>- MS RAN - BOB-9834020000001</td>
<td>539,689</td>
<td>0</td>
</tr>
<tr>
<td>- Specific Purpose - BOB-9834020000001</td>
<td>1,632,198</td>
<td>0</td>
</tr>
<tr>
<td>- PFA SBI - A/c No101000111203</td>
<td>149,995</td>
<td>0</td>
</tr>
<tr>
<td>- Specific Fund &amp; Research Account - SBI 1010030209</td>
<td>7,602,211</td>
<td>0</td>
</tr>
<tr>
<td>- NPS</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
## Receipts and Payments Account for the year 2011-2012

### Payments

<table>
<thead>
<tr>
<th>PAYMENTS</th>
<th>Current Year 2011-12</th>
<th>Previous Year 2010-11</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Plan</td>
<td>Non-Plan</td>
<td>Total</td>
</tr>
<tr>
<td>(ii) In Deposit Accounts</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Endowment Fund - Cash Section FDR</td>
<td>1,954,049</td>
<td>0</td>
<td>1,954,049</td>
</tr>
<tr>
<td>- Other Fund - Purchase Section FDR</td>
<td>777,900</td>
<td>0</td>
<td>777,900</td>
</tr>
<tr>
<td>- LC Deposits</td>
<td>22,787,000</td>
<td>0</td>
<td>22,787,000</td>
</tr>
<tr>
<td>- GFATM - FDR - BOB - FDR</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>- JIPMER Rev. - SBI A/c No.30749579504 - FDR</td>
<td>153,000,000</td>
<td>0</td>
<td>153,000,000</td>
</tr>
<tr>
<td>- GIA A/c FDR</td>
<td>2,000,000,000</td>
<td>0</td>
<td>2,000,000,000</td>
</tr>
<tr>
<td>- Recovery A/c FDR</td>
<td>100,000,000</td>
<td>0</td>
<td>100,000,000</td>
</tr>
<tr>
<td>- PFA FDR</td>
<td>1,309,866</td>
<td>0</td>
<td>1,309,866</td>
</tr>
<tr>
<td>TOTAL</td>
<td>5,213,484,186</td>
<td>1,502,356,781</td>
<td>6,715,840,967</td>
</tr>
</tbody>
</table>
12.2 Audit Report

Separate Audit Report of the Comptroller and Auditor General of India on the accounts of Jawaharlal Institute of Post Graduate Medical Education and Research, (JIPMER) Puducherry for the year ended 31 March 2012

1. We have audited the attached Balance Sheet of JIPMER, Puducherry as at 31 March 2012, the Income & Expenditure Account and Receipt & Payment Account for the year ended on that date under Section 19(2) of the Comptroller & Auditor General’s (Duties, Powers & Conditions of Service) Act, 1971 read with Section 18 of JIPMER Act, 2008. These financial statements are the responsibility of the JIPMER’s management. Our responsibility is to express an opinion on these financial statements based on our audit.

2. This separate Audit Report contains the comments of the Comptroller & Auditor General of India (CAG) on the accounting treatment only with regard to classification, conformity with the best accounting practices, accounting standards and disclosure norms, etc. Audit observations on financial transactions with regard to compliance with the Law, Rules & Regulations (Propriety and Regularity) and efficiency-cum-performance aspects, etc., if any are reported through Inspection Report / CAG’s Audit Report separately.

3. We have conducted our audit in accordance with auditing standards generally accepted in India. These standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatements. An audit includes examining, on a test basis, evidences supporting the amounts and disclosure in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of financial statements. We believe that our audit provides a reasonable basis for our opinion.

4. Based on our audit, we report that:

(i) We have obtained all the information and explanations, which to the best of our knowledge and belief were necessary for the purpose of our audit.

(ii) The Balance Sheet, Income & Expenditure Account and Receipt & Payment Account dealt with by this report have been drawn up in the format approved by Government of India, Ministry of Finance and adopted by the JIPMER.

(iii) In our opinion, proper books of accounts and other relevant records have been maintained by JIPMER, Puducherry as required under section 18 of JIPMER Act, 2008 in so far as it appears from our examination of such books.
We further report that:

A. Grants in aid

(a) Out of the Grants received for Rs.461.59 crore (Plan: Rs.316.59 crore Non-Plan: Rs.145.00 crore) and unspent balance of Rs.115.98 crore (Plan: Rs.84.22 crore Non Plan: 31.76 crore) the Institution could utilize Rs.394.60 crore (Plan: Rs.244.13 crore Non-Plan: Rs.150.47 crore) leaving a balance of Rs.182.97 crore (Plan:156.68 crore Non Plan: 26.29 crore) as at 31st March 2012.

B. Effect of Audit comments on Accounts.

(b) The accounts of the Institute were revised based on audit comments, which resulted in the following:

(i) Liabilities decreased by Rs.198.86 crore
(ii) Assets decreased by Rs.198.86 crore
(iii) Surplus decreased by Rs. 34.87 lakh

Subject to our observations in the preceding paragraphs, we report that the Balance sheet, Income & Expenditure Account and Receipt & Payment Account dealt with by this report are in agreement with the books of accounts.

In our opinion and to the best of our information and according to the explanations given to us, the said financial statements read together with the Accounting Policies and Notes on Accounts, and subject to the significant matters stated above and other matters stated in Annexure to the 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, Puducherry as at 31 March 2012, and

(b) In so far as it relates to Income & Expenditure Account of the Surplus for the year ended on that date.

For and on behalf of the C&AG of India

Director General of Audit (Central) Chennai

Place : Chennai
Date : 27.12.2012
## Annexure

1. **Internal Audit System:**

   There was no internal audit system in JIPMER, Puducherry.

2. **Internal Control System:**

   JIPMER had not prepared any Accounting Manual of its own. However, General Financial Rules of Government of India and guidelines issued by Ministry of health and Family Welfare, New Delhi are followed in respect of implementation of plan Schemes/Projects. JIPMER is not maintaining Cash Book in proper way and ledger accounts at all.

3. **Physical verification of fixed assets:**

   Physical verification of fixed assets was not done from the year 2010-11 onwards.

4. **Physical Verification of Inventory**

   Physical verification of Inventory was not done from the year 2010-11 onwards.

5. **Regularity in payment of statutory dues**

   Payment of Taxes (Value Added Tax) and other statutory dues are made by JIPMER in accordance with the Provision of Act/Rule.

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*Senior Audit Officer*