

**CENTRAL MEDICAL  
INSTITUTIONS  
AND NEW AIIMS**

**Chapter**

**15**

## 15.1 ALL INDIA INSTITUTE OF MEDICAL SCIENCES (AIIMS), NEW DELHI

### Key Highlights

- AIIMS became India's first fully digital public hospital in July, 2016.
- Government approved the re-development of AIIMS Residential Campuses at a cost of Rs. 4461 crores for construction of 3928 residential apartments. AMoU between AIIMS and NBCC for this project was signed in January, 2017.
- The proposal for expansion of Trauma Centre amounting of Rs. 2000 crores to establish the 1840 bedded Centres for Digestive Diseases, ENT, Diabetology, Spine and rehabilitation etc. was approved by the AIIMS Governing Body.
- Construction works are in full swing in AIIMS OPD Block, Mother and Child Block and Hospital Block & an expenditure of Rs. 250 crores has been incurred.

### Introduction

All India Institutes of Medical Sciences (AIIMS), established in 1965 by an Act of Parliament, is an Institution of National Importance and a Centre of Excellence. AIIMS has discharged its roles as clinical provider, research Institute and teaching institution with considerable accolades over the past 6 decades. It has contributed significantly to policy formulation. AIIMS has always maintained the highest standards of meritocracy and learning. It has attracted the best talent from across the country who enters this institute as young students and pass out with the intensity of commitment to serve the poorest of the poor.

AIIMS has been developed with high level of autonomy. The Government has endeavoured to ensure and strengthen the Governance Structure of AIIMS. A thorough review of the AIIMS, Act, Rules and Regulations has been undertaken.

#### 15.1.1 Medical Education

- The Department of Plastic, Burns and Reconstructive Surgery, Rheumatology and Onco

Anaesthesia have been created to fulfil the demand in these emerging areas. More than 200 new faculties have joined the Institute after due selection process, which has fulfilled the shortage of faculty at AIIMS in various departments.

- New courses such as DM (Medical Genetics), DM (Reproductive Medicine), DM (Paediatric Cardiology) and DM (Cardiac Surgical Intensive Care) have been started. This will help in capacity building and providing trained manpower to the country and other new AIIMS in emerging fields of medical education.

#### 15.1.2 Medical Research

- During the Academic Year 2015-2016, the ongoing research projects are 610 and the Institute has received extra-mural grant worth Rs. 72 Crores.
- AIIMS has signed MOU with University of Michigan, USA, University of Swinburne, Melbourne Australia, University of Sydney, Australia, University of Leuven, Belgium, University of Witwatersrand, Johannesburg in 2016-17.
- AIIMS has conducted 3 Research Methodology Courses during the year 2016. Prof. Dean Elliot Brenner, University of Michigan has been awarded Infosys Chair in Oncology during the year 2016-2017 under the AIIMS Endowment Fund.
- 13 candidates (Ph. D Students, JR, and SR) have been sanctioned International Travel Grant under AIIMS Endowment Fund upto December, 2016.

#### 15.1.3 Patient Care

- In the year 2016-17, about 14.88 lakhs people visited OPDs and 14,893 lakhs surgical operations were performed and 94,410 lakhs people got admission at AIIMS.
- AIIMS E-Hospital Project (Online Registration System) was launched by the Prime Minister of India as part of Digital India Week on July 4, 2015.

It has become the country's first fully digital public hospital in July, 2016.

- AIIMS OPD Transportation project was launched on December 25, 2015 by the Health Minister and MOS (IC) Power, Coal and New and Renewable Energy. The project has benefitted 42 lakhs patients till January 2017. The AIIMS Transformation Project implemented on CSR basis by the Tata Consultancy Service has enabled a more patient friendly environment. The Prime Minister commended the project in his Independence Day address for pan India replication. AIIMS has constituted a Health Care Transformation Cell for hand-holding State Governments for replication of the Project.
- To strengthen patient care services, AIIMS would be procuring machinery and equipment worth Rs. 250 crores. Major equipments procured are SMILE (Small Incision Lenticule Extraction) for LASIK Surgery by the Dr R.P. Centre for Ophthalmic Sciences, an RIS PACS system (Radiology Information System) to store, analyse and distribute patient radiological data and imagery by the Department of Radiology and a High End CT Scanner capable of advanced cardiovascular applications by Department of Cardiac Radiology, CN Centre. In addition, replacement of anaesthesia workstations with aesthesia, modular monitors by the Department of Anesthesia have been completed. A Robotic High through-put Nanolitre Dispenser Crystallization System by the Department of Bio Physics and the 1.5 Tesla MR Scanners by the Department of NMR and strengthening of the Department of Orthopedics by modernization of Operation Theaters is being undertaken.
- Significant progress has been made in the civil works of the National Cancer Institute at AIIMS Jhajjar Campus. The civil works of the Institute Block and Residential Block of National Cancer Institute will be completed by March 2018.
- Civil works on the Mother and Child Block (200 beds), OPD Block, Surgical Block, Burns and Plastic Surgery Block are in full swing.
- AIIMS has been allotted 14.95 acres of land behind

AIIMS Trauma Centre which will see major expansion in its patients care capacity. The major centers being planned in this area will add 1860 beds. The Trauma Centre expansion comprises of a Burns and Plastic Surgery unit (450 beds), Centre for Digestive Diseases (450 beds), Centre of Diabetology (240 beds), Transplants Centre for Bone Marrow (80 beds) and Kidney & Heart Transplant (63 beds). The total cost of these works is nearly Rs.2700 crores.

- On January 17, 2017 AIIMS has entered into an MOU with NBCC amounting to Rs. 4441 crores for construction of 3928 residential apartments as part of the Redevelopment of AIIMS Residential Campuses in AyurVigyan Nagar and West Ansari Nagar. The project will be completed in 5 years time and provide AIIMS faculty modern housing facilities.
- AIIMS also signed an MOU with M/s HITES HLL Life Care for an amount of Rs. 729 crores for procurement of Machinery and Equipment for National Cancer Institute and an MOU with M/s HSCC for the formulating the Detailed Project Report of the National Cardio Vascular Center.

#### 15.1.4 Other Services

- Health Minister had launched "KayaKalp – Clean and Green AIIMS" campaign on July 15, 2015. AIIMS was awarded Rs. 3 crores and an award certificate under the KayaKalp Scheme on March 16, 2016. The AIIMS continues to make efforts for the Clean Hospital Campaign by introduction of 100 percent mechanized cleaning of its hospital and premises in collaboration with M/s HLL Life Care Ltd.
- The AIIMS took a major step forward in the Green AIIMS campaign by entering into an MOU with NEDO Japan and Government of India for efficient energy management practices amounting to Rs. 110 crores.

#### 15.1.5 Budgetary Support

- A budgetary Support of Rs. 2068.00 Crore (Rs. 1000.00 Crore in Plan, Rs. 1043.00 Crore in Non-Plan under B.E. & Rs. 25.00 Crore under Oversight

Committee) were provided by the Government during the financial year 2016-17. The major heads of expenditure include infrastructure, machinery and equipment, salary payments and consumables.

- AIIMS Endowment Fund set up to allow contributions under CSR as well as from Alumni, Charitable institutions and angel investors.

## 15.2 POST-GRADUATE INSTITUTE OF MEDICAL EDUCATION AND RESEARCH (PGIMER), CHANDIGARH

### Introduction

The Postgraduate Institute of Medical Education and Research, Chandigarh was declared as an Institute of "National Importance" and became an Autonomous Body by an Act of Parliament (Act 51 of 1966), on 1st April, 1967. The Institute is fully funded by the Union Ministry of Health and Family Welfare. The main objectives of the Institute are:

- To develop patterns of teaching of undergraduate and postgraduate medical education in all its branches so as to demonstrate a high standard of medical education.
- To bring together, as far as may be, in one place educational facilities of the highest order for training of personnel in important branches of health activity; and
- To attain self-sufficiency in postgraduate medical education to meet the country's need for specialists and medical teachers.

### 15.2.1 Medical Education

PGI has been empowered to grant medical, dental and nursing degrees, diplomas and other academic distinctions and titles under the PGIMER, Chandigarh Act, 1966. During the year 2016-17, the Institute has awarded 14 Ph.D degrees, 179 MD degrees, 51 MS degrees, 64 DM degrees, 27 M.Ch degrees, 17 M.Sc/M.Sc Medical Lab. Technology degrees, 15 Master of Public Health degree, 06 Master in Hospital Admn. degrees, 04 MDS degree, 40 B.Sc (Medical Technology) degrees, 10 Bachelor

of Physical Therapies, 03 Bachelor of Audiology & Speech Language Pathology, 16 M.Sc Nursing degrees, 37 B.Sc. (Nursing Post Basic), 93 B.Sc Nursing (4 years). Further, approximately 625 number of candidates have joined various Postgraduate/Post Doctoral/Under Graduate Courses during April, 2016 to till date. Further, the Institute has started following fellowships with effect from July, 2016 session:

Sl. No.	Name of Fellowships/Department
1.	Fellowship PGI (Breast Surgery) in the Department of General Surgery.
2.	Fellowship PGI (PET Imaging) in the Department of Nuclear Medicine.
3.	Fellowship PGI (Interventional Radiology) in the Department of Radiodiagnosis.
4.	Fellowship PGI (Pediatrics Anaesthesia) & Perioperative Critical Care) in the Department of Anaesthesia.

### 15.2.2 Medical Research

The Institute has excelled in all the three areas viz. patient care, medical education and research. The patient care load over the years has been increasing exponentially. From an annual attendance of 1,25,163 out patients and 3,328 admissions in 1963-64, the figure has gone up to 24,23,501 outpatients and 87,973 admissions in the year 2015-16. The Institute is spearheading the medical education of large number of medical colleges of the country and abroad.

The Institute continues to excel in quality research, and the clinicians and basic scientists published 1490 papers during the year. 152 scientists were awarded fellowships, orations and other National and International awards. Various departments of the Institute completed 215 research projects funded by DST, WHO, DBT, ICMR and other outside agencies.

**Dr. Tulsi Das Library:** The library has a rich collection of printed material about 46540 books and

thesis (covering clinical, basic science, general books); and around 59121 bound journals, in addition to online databases covering e-journals and e-books. The Institute library is fully automated and is equipped with DG set to provide 24 hours power backup.

### 15.2.3 Patient Care

- The patient care services in PGIMER have expanded from Nehru Hospital to a number of independent Centres like New OPD Block,

Advanced Pediatric Centre, New Emergency Block, Advanced Eye Centre, Drug De-addiction Centre, Advanced Cardiac Centre and Advanced Trauma Centre with enhanced number of hospital beds and operation theatres.

- The total bed strength of the PGIMER has increased to 1948 beds. The number of patients who attended the outpatients' departments and those admitted for treatment during the last four years is as under:

Patients Attendance	01.04.2016 to 30.11.2016	2015-16	2014-15	2013-14
Outdoor	15,89,111	24,23,501	22,10,670	20,61,911
Indoor Admissions	59,889	87,973	82,164	78,568

The number of minor and major surgeries over the last four years is as under:

Surgeries	01.04.2016 to 30.11.2016	2015-16	2014-15	2013-14
Minor	1,10,442	1,62,021	1,49,690	1,44,078
Major	29,995	43,373	40,714	38,099

- Emergency Services:** The Emergency Complex and Advanced Trauma Centre provide all medical and surgical emergency services including investigations and operations under one roof. The

Emergencies are managed by medical/surgical and super-specialty consultants and senior residents. The workload at emergency services in PGIMER was as follows:

	01.04.2016 to 30.11.2016	2015-16	2014-15	2013-14
OPD	66,720	89,550	73,576	70,756
Admissions	30,451	42,376	39,026	37,535
Major Surgeries	11,613	15,557	14,382	13,486
Minor Surgeries	2,182	2,887	2,645	2,669

#### • 15.2.4 Recent Initiatives (New Facilities)

- AMRIT Pharmacy outlets have opened at PGIMER, Chandigarh. This has given a great relief to thousands of patients, especially poor patients, who would now be able to buy medicines at 30% to 60% discounted rates.
- Kitten MRI- PGIMER installed a kitten MRI close to the Advanced Pediatric Centre. In this facility, children are exposed to the environment of MRI scanning before they are actually taken up for scanning. In addition to this, the scanning atmosphere is made child friendly by providing for cartoon movies of the choice of the child during the actual scanning process. These facilities are not available elsewhere in India.
- The Femto-second cataract facility acquired with advanced diagnostic systems is unique and first of its kind in India. Femto-second laser facility has capability to do Image Guided Cataract Surgery which basically eliminates process of manual marking in eye for Astigmatism correcting IOL implantation.
- The setting up of a sleep lab in the Department of ENT is a step towards diagnosis and surgical treatment of obstructive sleep apnea. It is one of the first to be started in an ENT Department in North India. Sleep lab is the most important prerequisite for establishing a sleep clinic and for planning a surgical protocol for obstructive sleep apnea.
- There are three Telemedicine nodes in remote areas established by ISRO in collaboration with Ministry of Health & Family Welfare in which PGIMER is transmitting Tele-CME to more than one hundred ISRO connected centres. The nodes are CHC-Pooh, (Kinnaur, Himachal Pradesh), Pampa Hospital, Sabrimala, (Ayappa Pilgrimage, Kerala) and Sheshnag, Amarnath (Jammu & Kashmir). Telemedicine Centre has been sanctioned to become the National Institute of Telemedicine and Department of Telemedicine, a first in the country. The innovation "M Health Technology based Spirometry" was selected for exhibition on "Innovations in Medical Science and Biotechnology" at Rashtrapati Bhavan, New Delhi.
- Online registration Process has now been extended to patients already registered in the Central Registration System of the Institute. This service is available for getting registered to OPDs of all the departments except Psychiatry, thereby giving them respite from standing in long queues.
- Gene expert was launched in Department of Microbiology. This is an advancement in field of TB diagnostics. Multiple drug resistant -TB an increasing problem in India would be dealt by this.
- The Department of Nuclear Medicine at PGI, Chandigarh under DST-FIST research grant of 1.5 crores procured - a High End GMP Chemistry Module for radio synthesis of 68Ga-Pentixafor. 68Ga-Pentixafor is a PET agent for imaging of chemokine receptors specifically CXCR-4 subtypes which are present in high numbers at least in two dozens of major human cancers.
- The Department of Otolaryngology Head and Neck Surgery has embarked on performing Transoral Robotic Surgery. This surgery is suitable for patients suffering from early tumors of the head and neck.
- The Department of Gynaecology and Obstetrics have started conducting Robotic Surgery and till date 20 surgeries have been done. Prof. Vanita Jain and Prof. S.C.Saha got training in Robotic Surgery in Gynaecology at Intuitive Surgical, Atlanta, USA in June, 2016.
- The Department of General Surgery established the Surgical Skill Lab. Ten new Endo-trainer platforms were acquired.
- The Department of Radiotherapy installed a new Brachytherapy machine for cancer treatment and started a teaching course on Medical Physics.

#### 15.2.5 Information Technology Initiatives

- PGIMER has taken various initiatives to create digital resource for electronic delivery of Healthcare Services. Hospital Information System (HIS), Web Portal and Messaging Services Delivery Gateway (MSDG) of the institute are being used for electronic delivery of the services.

- Various patient centric services such as Online Registration of patients, online delivery of Lab Reports have been made available on the Institute web portal [www.pgimer.edu.in](http://www.pgimer.edu.in) and <http://pgihis.in> for quite some time. Online registration Process has now been extended to all the patients (Old) already registered in the Central Registration System of the Institute. This service is available for getting registered to OPDs of all the Department except Psychiatry, thereby giving them respite from standing in long queues.
- Lab information System (LIS) services has been extended to the some more Labs e.g. Paediatric Biochemistry, Paediatric Haematology of Advance Paediatric Centre, Holter Lab of Advance Cardiac Centre, Emergency Urine Routine Lab. LIS has also been tested successfully in Emergency Haematology, Emergency Coagulation and Emergency ABG Lab at Nehru Hospital. Trial run for these labs is in progress.

#### 15.2.6 Achievements

- Under the Government of India Kayakalp awards this year, the first prize of Rs. 5 Crore was given to the Postgraduate Institute of Medical Education and Research (PGIMER) in the Central Government Hospitals category. The awards were given to the Central Government Hospitals and District Hospitals from 26 big States.
- PGIMER has been judged as the second best for medical education, research and multi speciality patient care amongst sixteen best Institutes in India by The Week-NIELSEN BEST HOSPITALS SURVEY 2016. As a hospital PGIMER once again stands second best amongst the top fifteen multi-speciality hospitals in India and also having second best research facilities.
- PGI won Skoch Best Governance award. The Department of Hospital Administration, PGIMER, Chandigarh had submitted 2 innovative projects successfully to compete for the Smart Governance Award 2016. The first project was the successful intervention by the Department to increase eye donation rates and the second was to attempt reducing Average Length of Stay of patients at PGIMER.

- PGIMER was awarded at 7<sup>th</sup> Indian National Organ Donation Day by Union Health Minister Shri J P Nadda for being amongst best three hospitals in India. MsRajinder Kaur, Transplant Coordinator in PGIMER was felicitated for being amongst the best three transplant coordinators by the Hon'ble Minister.

### 15.3 JAWAHARLAL INSTITUTE OF POSTGRADUATE MEDICAL EDUCATION & RESEARCH (JIPMER), PUDUCHERRY

#### Introduction

Jawaharlal Institute of Postgraduate Medical Education and Research (JIPMER) trace its origins to the 'Ecole de Medicine de Pondicherry' established by the French Government in 1823. In 1956 foundation for new medical college was laid and in 1964, hospital was inaugurated.

JIPMER is one among the very few institutions in the country which is providing teaching from undergraduate to super-specialty & sub-specialities, conducting path breaking research and providing speciality care of the highest order. This makes JIPMER a centre of quaternary level. The model of providing free specialty health care while maintaining quality and safety makes JIPMER a unique model in the country which is on par with such similar systems in Europe. While most of the developed world struggles to maintain best health care delivery due to exorbitant cost, JIPMER's success in providing best treatment even to the least affordable in the society makes it a model of speciality care delivery of the future. JIPMER continues to rank among the top best five medical schools in the country. The thrust given to fundamental research in the last two years will soon make JIPMER one of the frontier institutions of medical research in India.

#### Overview of Institute Activities 2016-17

##### 15.3.1 Medical Education

- JIPMER has about 300 faculty and 600 resident physicians and over 4000 nursing, administrative and support staff. Every year it admits 150 undergraduate students and 200 postgraduate students.

- This year it has increased its UG Intake to 200 students (150 for JIPMER and 50 for Karaikal). In addition, postgraduate programs (MD/MS) are offered in 23 disciplines, Super Speciality programmes (DM/MCh) in 10 and 7 disciplines respectively, Ph.D. programs in 8 disciplines and Fellowship courses in 4 disciplines.
- JIPMER also conducts other courses including B.Sc. Nursing (75 seats/yr), 5 M.Sc. Nursing, 10 B.Sc. Allied Medical Sciences (58 seats), 5 M.Sc. Allied Medical Sciences and MPH (25 seats/year).
- A Foundation course was organised for the first year students of JIPMER; both Pondicherry & Karaikal campuses. This was a six week long programme stressing mainly on language, communication skills and interpersonal relationship skills. The program was conducted for a period of 6 weeks in July and August 2016.
- The seventh convocation of JIPMER was held on 3<sup>rd</sup> August 2016. Lieutenant Governor of Puducherry, Dr. Kiran Bedi, IPS (Retd), the Chief Guest, conferred degrees on 246 successful students of JIPMER including Ph.D. - 6, M.Ch. - 14, DM - 14, Post-Doctoral Fellowship - 14, MD - 50, MS - 20 and MBBS - 128. Medals and Endowment Prizes for 59 candidates were also presented.
- The seventh convocation for Nursing and Allied Medical Sciences of JIPMER was held on 10th September 2016. Dr. B.N. Gangadhar, Director, NIMHANS, Bengaluru was the Chief Guest of the convocation. Degrees were conferred on 181 successful students of JIPMER from various disciplines. They included M.Sc. Nursing - 19, M.Sc. Medical Biochemistry - 7, M.Sc. MLT - Cyto Pathology - 4, M.Sc. Medical Physiology - 2, Master of Public Health - 22, B.Sc. Nursing - 73, B.Sc. MLT - 26, B.Sc. (Cardiac Laboratory Technology) - 4, B.Sc. (Dialysis Technology) - 4, B.Sc. (Radiotherapy Technology) - 5, B.Sc. (Operation Theatre Technology) - 3, B.Sc. (Perfusion Technology) - 4, B.Sc. (Neuro Technology) - 4 & B.Sc. (Nuclear Medicine Technology) - 4.



*JIPMER Convocation Day with Chief Guest Dr. Kiran Bedi, Lieutenant Governor of Puducherry*



*JIPMER wins healthcare award*

### 15.3.2 Medical Research

- 1st Patent Filed by JIPMER for a device which is a Novel Shower protector for tracheostomy tubes. The device was designed by Dr Arun Alexander, Associate Professor of ENT and the prototype made in the Central workshop of JIPMER where Dr Arun is the officer in Charge. The complete design specifications were provided to the patent consultants of JIPMER and the first patent for any biomedical device was filed in the Chennai office of the Indian Patent Office on 22<sup>nd</sup> July 2016.



- JIPMER celebrated its Second Annual Research Day on 10<sup>th</sup> and 11<sup>th</sup> September, 2016 to showcase the best of research done at JIPMER in the recent past, to honour the outstanding researchers, and to inspire and motivate doctors to take up medical research.
- JIPMER Intellectual Property Rights Policy (IPR) and Patent Cell were launched in March-April 2016.



*JIPMER Self Help Group*



*JIPMER Research Day*

### 15.3.3 Patient care services

- The daily average OPD attendance is more than 5000 with a yearly OPD attendance of more than 1.5 million. The daily average EMS attendance is more than 700 and the annual attendance is more than 2 lakhs. Yearly admissions are more than 60,000 and the hospital performs more than 3.5 million investigations yearly.
- JIPMER has a sprawling Hostel Complex with common facilities to accommodate nearly 1100 students. Outreach activities at the rural and urban health centers of JIPMER include service provision for approximately 2000 families in each service area (approximately 20,000 population).

### 15.3.4 Hospital Infrastructure Augmentation

- JIPMER has taken a big stride in Transplantation with the commencement of both Live Donor and Deceased Donor Transplantations being done for the Kidney. JIPMER is already doing transplants of cornea, kidney and bone marrow. Facilities for heart, soft tissues like hands and digits are being established in JIPMER. Recently JIPMER has obtained permission from the Ministry of Health to start Liver Transplant and inspections are on the way for Tissue Transplantations also.
- JIPMER Smile Train Service has received 'Certificate of Appreciation' from CEO of Smile Train USA and Director Smile Train India this year.
- Department of Plastic Surgery has started Laser therapy for Burns patients since March 2016.
- Child counseling centre started in May 2016
- A human milk bank & breastfeeding counseling services inaugurated on 13/7/2016 near the Neonatal Intensive care unit in JIPMER Women and Children's hospital.
- Hospital Information System added a module on Asset Management System to help maintain the inventory of equipment available along with the service schedules, breakdown logs.
- JIPMER started Tele-Barrier Nursing Service in ICUs' from April 2016.
- Department of Orthopedics has started special clinic for Sports medicine and arthroscopy

(keyhole surgery) services on the 4th Tuesday of every month.

### 15.3.5 Community Benefit Programmes

- “World No Tobacco Day” was observed on 31st May 2016.
- JIPMER has joined hands with All India Radio for health education talks on AIR. The medicos and experts will speak on various health issues every Thursday 06:45 A.M to 07:00 A.M in FM Rainbow 102.8 MHz and on Friday 08:30 A.M to 08:45 A.M in Prime Channel 1215 KHz of All India Radio.
- JIPMER runs a Home based Palliative and Support programme for Cancer patients with terminal disease.
- JIPMER since April 2016 has started a “Self Help” Programme in which medical students and volunteers are posted in various hospital patient care areas to guide and help patients during their hospital visits.

### 15.3.6 Institute Role in Medical Community

- JIPMER is the Regional Resource Centre (RRC) for implementation of NMCN Project (Telemedicine) for 160 Medical Colleges of Southern States (Andhra Pradesh, Karnataka, Kerala, Tamil Nadu and Pondicherry).
- JIPMER is the mentor institute for AIIMS Raipur and AIIMS Bhubaneswar and is setting up a second campus for an independent medical college at Karaikal.
- Doctors from various clinical departments from JIPMER were posted in the Annual Amarnath Pilgrimage in September and October 2016 for care of the Pilgrims.
- JIPMER also has functioning Telemedicine Emergency Consultation programmes for Sabarimala Pilgrimage.

### 15.3.7 Achievements by Institute in 2016-17

- JIPMER won the Kayakalp Special Award for hygiene, infection control, hospital upkeep, waste

management and community participation assessment in Government Hospitals in March 2016.

- JIPMER was awarded in recognition of voluntary contribution for the empowerment of visually challenged at the 31st annual day programme and award ceremony for Blind Empowerment Champions in March 2016.
- Dr. Sunil K. Narayan was awarded FEAN (Fellowship in European academy of Neurology) in the year 2016 (First fellow to be elected from India).
- Dr. Christina Mary Mariaselvam, Cotutelle PhD, became the first ever Indian student to receive joint international Ph. D. from Department of Clinical Immunology, JIPMER, Puducherry in July 2015 & from University Sorbonne Paris Cite, France in May 2016.
- Dr. Kadambari D, Professor of Surgery, obtained a Master's in Health Professions Education - Assessment and Accreditation from FAIMER-Keele University in September 2016.
- Prof. Vikram Kate Sr. Professor and Head of Surgery was awarded the prestigious Dr. T. Subramanian Symposium at the 40th Annual Conference of the Tamil Nadu & Pondicherry Chapter of the Association of Surgeons of India held at Salem, Tamil Nadu from 12th to 14th August 2016.
- Dr. Ravi Kumar Chittoria Addl Professor and Head of Plastic Surgery received World Medical Council (WMC) 'Indywood Medical Excellence Award 2016' on 27th Sept 2016.
- On 30th August 2016, JIPMER was awarded as the Best Hospital with Medical College –Non Metro category at India Healthcare Awards 2015-16 in Mumbai. This is the second consecutive year that JIPMER has been receiving the India Healthcare Awards.
- Dr. Marie Gilbert Majella, Postgraduate student in the Department of Preventive and Social, has been awarded with the BMJ South Asia Award 2016 in the category of 'Postgraduate Thesis of the Year'.

Dr. Gilbert received the award at the third edition of the BMJ South Asia Awards Ceremony held on 19<sup>th</sup> November 2016 at New Delhi.



Director JIPMER inaugurating Laser therapy unit

## 15.4 VARDHAMAN MAHAVIR MEDICAL COLLEGE (VMMC) & SAFDARJUNG HOSPITAL, NEW DELHI

### Introduction

Safdarjung Hospital was founded during the Second World War in 1942 as a base hospital for the allied forces. It was taken over by the Government of India, Ministry of Health in 1954. Until the inception of All India Institute of Medical Science in 1956, Safdarjung Hospital was the only tertiary care hospital in South Delhi. Based on the needs and developments in medical care the hospital has been regularly upgrading its facilities from diagnostic and therapeutic angles in all the specialities. The hospital when started in 1942 had only 204 beds, which has now increased to 1531 beds. The hospital provides medical care to millions of citizens not only of Delhi but also the neighboring states free of cost. Safdarjung Hospital is a Central Government Hospital under the Ministry of Health & Family Welfare and receives its budget from the Ministry. Safdarjung Hospital has a Medical College associated with it, named VardhmanMahavir Medical College.

**15.4.1 Vardhman Mahavir Medical College (VMMC)** was established at Safdarjung hospital in November, 2001 and on 20<sup>th</sup> November 2007, the VardhmanMahavir Medical College building was

dedicated to the nation. The first batch of MBBS students joined the college in February 2002.

The college has recognition by the Medical Council of India. The college is affiliated to Guru Govind Singh I P University, Delhi, From 2008 onwards the post graduate courses are also affiliated to GGSIP which were earlier with Delhi University.

**Sports Injury Centre (SIC)** was established at to provide integrated surgical, rehabilitative and diagnostic services under one roof for the management of sports injuries and related joint disorders.

- The Centre comprises of two separate distinct and highly specialized units working in two different fields i.e. early Sports Injuries (Arthroscopy Unit-I) and late sequel of Sports Injuries (Arthritis and Joint Replacement Surgery Unit-II).
- The Centre's Physiotherapy Unit is equipped to provide physiotherapy/rehabilitative services to the indoor/outdoor patients with specialised treatment through Hydrotherapy, Biochemicals and Isokinetics.
- Four students of MD(Sports Medicine) course are studying at SIC under the GGSIP University since 2015-16.
- Two fellowships of Post PG fellows under FNB under Arthroscopy & Sports Medicine approved by The National Board of Examination are being held at SIC since 2014.
- The details regarding OPD attendance, physiotherapy, casualty, psychology clinic and the number of surgeries and minor surgical procedures performed during the current financial year 2016-17 (up to 31<sup>st</sup> October, 2016) are as under:

1.	OPD Attendance Including Casualty attendance	1,56,562
2.	Inpatient Attendance	4262
3.	No. of surgeries undertaken	4279
4.	Minor Surgical procedure	10,132
5.	Physiotherapy	98,826
6.	Psychology Clinic	630

### 15.4.2 Hospital Administration

The Administration of the Hospital is responsible for personnel management of the Hospital, to look after the establishment matters of the service personnels, recruitments, service matters of the staff dedicated to serve the hospital. At present, Doctors, Group A & B (Gazetted) are being dealt by Admn.I; Resident Doctors are being dealt by Academic Section; Group B (Non-Gazetted) and Group C are being dealt by Admn.II and RR Cell; Nursing personnels are being dealt by Admn.III and Group C(MTS) are being dealt by Admn.IV. The VMMC Office looks after the MBBS Students and Academic Section also deals with the PG, UG, DNB and other courses offered in this hospital. These all contribute in smooth functioning of the departments and other services in the hospital. The Accounts Department manages the financial implications involved. The Medical Stores and General Stores of this hospital contributes in providing the machinery & equipments, drugs, surgical items, furniture, stationary etc.

**Estate section** is one of the smaller departments in the hospital yet it plays vital role in the smooth functioning of the VMMC & SJH. It ensure that all services, equipments & plants are running smoothly and correctly including all day to day maintenance, project work, upgrades, breakdown etc. of all buildings with the help of CPWD.

Works carried out by CPWD in Safdarjung Hospital in year 2016-17 include:

- Renovation of ward-1 female surgical ward and creation of 06 bedded HDU.
- Urgent repair of cadaveric tank.
- Modification of existing space for H1N1 lab.
- Urgent repair of VMMC 3<sup>rd</sup> floor to 6<sup>th</sup> floor.
- Urgent maintenance work at Incinerator plant.
- Renovation of main kitchen.
- External finishing of H-Block, O.T Ortho, X-ray bldg, Burns and Plastic.
- Provision of toilets for wards 3,4 and 5 Obst&Gynae Department.
- Construction of IVF Center in Gynae.

- Completion of AMRIT pharmacy.
- Providing & fixing central air-conditioning in lecture theatre in B & C wing of OPD 5<sup>th</sup> floor in ward 8 & 9.

### 15.4.3 Medical Record Department:

The Medical Record Department and Training Centre for medical records of the hospital maintains In-patient Medical Records of this hospital and also organises the training centre for medical records of this hospital with various other in-patient admission services and correspondence regarding in-patient medical records. The in-patient Medical Records of this hospital is maintained for a period of ten years.

**15.4.4 Central Server Room: The IT Section (Central Server Room)** taken care of HIMS, LAN, Online Registration, Blood Bank Module, E-procurement etc.

### 15.4.5 The Public Services Available

The hospital provides services in various specialties and Super Specialties covering almost all the major disciplines like Neurology, Urology, CTVS, Nephrology, Respiratory Medicine, Burns & Plastics, Pediatric Surgery, gastroenterology, Cardiology, Arthroscopy and Sports Injury clinic, Diabetic Clinic, Thyroid Clinic. Further, it has two Whole Body CT Scanner, MRI, Color Doppler, Digital X-ray, Cardiac Cath. Lab, Multi load CR system and Digital OPG X-ray Machine. Several Super Specialty Departments like Endocrinology, Medical Oncology, Nephrology, Nuclear Medicine and Hematology are also being run in this hospital. A new Department of IVF under Gynae Department and RTU has also been created. A Homoeopathic OPD and Ayurvedic OPD are also running within hospital premises.

**(A) Casualty:** The hospital provides 24X7 casualty services. The administrative requirements of the causality are taken care of by a Chief Medical Officer and Specialist (nodal officer) who are posted in the causality from various departments on rotation basis. There is a 24 hour laboratory facility besides ECG, Ultrasound, X-ray & CT Scan services which are available round the clock. The departments of Obst. & Gynaecology and Burns provide separate and independent casualty services to attend causalities.

**(B) OPD Services:** OPD Services are running in New OPD Building of VMMC & Safdarjung Hospital.

- Patients coming to OPD of Safdarjung Hospital find a congenial and helpful atmosphere. Various public friendly facilities exist in the OPD Registration Area of the New OPD Building like the 'May I help You' Counter, Computerized Registration Counters, which are separately marked for Ladies, Gents, Senior Citizens and Physically Challenged. A special Counter for senior citizens, physically handicapped patients and hospital staff was opened in Central Dispensary to avoid inconvenience to these patients and general hospital working. Additional Counter for Clinic patients was opened from the existing strength of Pharmacists in order to minimize waiting time of the patients.
- The hospital had an attendance of 28,42,422 in the year 2015. To cater to this load and for convenience of the patients a new OPD Block was commissioned in August, 1992. All departments run their OPD in the new OPD block. The out-patient attendance for the last 2 years are as under (January to December):

Year	OPD Attendance
2014	27,02,264
2015	28,42,422

- **During the Digital India Week, Prime Minister** has inaugurated a common patient portal for Government Hospitals, which is available at [ors.gov.in](http://ors.gov.in). Using this platform patients can take online OPD appointments. To help patients, a Mobile App, which can be downloaded by searching keyword "e-hospital" from the Google Play Store. Accordingly this institution has planned to simplify the OPD registration through online w.e.f. 15.10.15. With this, the patient wait time for registration has come down.
- **In-Patient Services:** The hospital has total bed strength of 1531 including bassinets. There are also observation beds for medical (Ward A) and surgical (Ward B) patients in the first and second floor of the main casualty building. There are 10

beds in the casualty for observation. As a policy the hospital does not refuse admission if indicated to any patient in the casualty. As a major shift in policy decision, the casualty is now run by post graduate doctors. Senior Residents from the disciplines of Medicine, Surgery, Paediatrics, Orthopedics and Neuro-Surgery are available round the clock in the casualty to provide emergency care.

#### 15.4.6 Specialities

**1. Department of Psychiatry:** The department of Psychiatry at VMMC & Safdarjung hospital is one of the oldest general hospital Psychiatry (GHPU) department in the country. It caters to more than 40,000 mentally ill patients annually. Our range of services includes General Adult Psychiatry, De-addiction services and afternoon special clinics such as Child & Adolescent Psychiatry, Special Autism services and Psycho-sexual clinic.

**2. Department of Nuclear Medicine:** The Nuclear Medicine Department offers the facility to patients like Myocardial Perfusion Scan, Parathyroid Scan, Dynamic Renal Scan- DTPA/EC, DMSA, Whole body bone scan- MDP, Thyroid Scan, G.I. Bleed Scan, Hepatobiliary Scintigraphy, Meckel's scan, DRCG, Scintimammography, Gastroesophageal Reflux scan, Lymphoscintigraphy, Tc99m-ECD Brain SPECT, Testicular Scan, 131- Iodine Thyroid Uptake and also offers Low dose 131- Radioiodine Therapy for benign thyroid disorders. The following equipment are planned to be added in the department in the under construction Super Specialty Block.

- PET/CT scanner: Which has very important role in oncology.
- Dual Head Gamma Camera.

**3. Department of Pediatrics :** The Department of paediatrics is being upgraded for which approval has been received for establishment of Paediatric Intensive Care Unit (PICU), Emergency Triage Unit and High Dependency Unit. Civil work for the same is in progress. Further, extension of the Paediatric services has been proposed to 150-bedded Kalkaji Hospital with focus on neonatal and paediatric intensive care in.

**4. Department Of Paediatric Surgery:** The Department has sanctioned bed strength of 31 patients. Apart from this there are 8 beds for neonatal patients in the nursery. The ward has been divided into nursery (neonatal patients), emergency/critical care, post operative and general ward. All the rooms are equipped with bedside oxygen & suction facilities. Critical care room and nursery are equipped with 4 advanced paediatric ventilators. The department routinely performs minor surgical procedures like intercostal drainage, suturing of cut wounds and dressings in the dressing room attached to the ward. Emergency surgery facility is available 24 hrs (depending on theatre availability). Neonatal and Paediatric Cystoscopy is available.

#### 5. Department of Nephrology

The department of nephrology offers an integrated and comprehensive service covering all aspects of renal disorders from the early phases of renal disease to patients presenting with end stage renal disease.

The various sub-specialty services include clinical nephrology, Hemodialysis, Plasmapheresis, Peritoneal Dialysis, Renal Transplantation.

**6. Dental Department:** Dental Department caters to people from far flung areas like UP, Bihar, Haryana, Punjab in addition to people from Delhi and Central Government employees. More than 200 patients visit dental surgery OPD daily. They are being provided following treatments – extractions, filling of carious teeth, esthetic restorations, oral prophylaxis etc. Teeth are being preserved by Root Canal treatment, Periodontal Surgeries and Root Curettage. Lost teeth are replaced by dentures, bridges and implants. It is the only Central Govt. Hospital which has state of the art dental 3-D imaging (CBCT).

#### 7. Department of Forensic Medicine & Toxicology

The Department provides mortuary facilities with cold storage to preserve 50 dead bodies. It conducts post-mortem examination of all medico-legal cases who expire within the prescribed jurisdiction. Department also provides expert advice in examination of cases for age estimation, in cases of sexual offences and other cases referred by the courts.

The Medicolegal work performed during (01/01/16-31/10/16) were:

Post-mortems- 2118, Rape Accused- 39, Bone Age Examination- 272, Subsequent Opinion given- 202.

**8. Department of Hematology:** The Department is having separate haemato-pathology and clinical haematology units.

a) **Hemato-pathology** unit for laboratory diagnosis of hematological-cancers, chronic hematological disorders and coagulation disorders, detailed pathological characterization of hematological neoplasm. The Department is actively involved in post-graduate, under graduate, MSc, BSc & Diploma (MLT) teaching and training of students.

b) **Clinical Hematology** unit of Department was given ten dedicated bed in ward 36 for management of hematology patients. Department is running three days in a week hematology OPD.

#### 9. Department of Endocrinology

The OPD attendance of the Endocrinology clinic and the diabetic clinic in the year 2015 were 17108 and 12965 respectively (total of 30073). In 2015, approx 3500 new patients are registered for the endocrine clinic for the first time. More than 2000 new cases attended the Diabetic clinic in 2015.

The diabetic clinic caters exclusively to diabetic patients while the endocrinology clinic caters to all other endocrine problems as well as diabetes. The department runs 8 clinic every week.

#### 10. Department of Cancer Surgery:

The faculty members conduct diagnosis, planning of treatment and surgical treatment and adjuvant chemotherapy of solid tumors. The main achievement is that Department of Cancer Surgery is providing treatment services with zero complaint and that too with limited Man Power.

### 11. Department of Radiology

Large volume of clinical work has been performed by the department towards patient care services, viz. 238061 x-rays examination, 75218 ultrasound examinations, 31295 CT Scan, 6445 MRI procedures including 23379 interventional procedures have been performed during the last one year.

The faculty is vigorously working towards commissioning of Radiology and Imaging Services of New Emergency Block and super-speciality block with preparation of technical and evaluation of the technical specifications of 3 T MRI, 256 Slice CT, DSA Lab, Digital Radio Fluoroscopy and Digital x-ray equipments.

### 12. Department of Anatomy

Anatomy Department also conducts theory and practical classes for various medical paramedical courses. The Anatomy Department organizes several cadaveric workshops on regular basis in collaboration with clinical departments.

### 13. Department of Community Medicine

The Department of Community Medicine is committed to providing quality care to the community and quality education to its undergraduate and post-graduate students. The Department is catering to the rural populations of Najafgarh and FatchpurBcri, along with the urban slum residents of Aliganj, KotlaMubarakpur via its three Health Centres. Along with providing basic health services, research is promoted and conducted, not only to facilitate excellence in academia, but also to provide the



*Street play in OPD as part of World Health Day celebrations on raising awareness for diabetes*



*DGHS Dr. Jagdish Prasad inaugurating the third International Conference of Occupational and Environmental Health at NIHFV*



*Health Promotion & Organ Donation Camp at Police Station, SaritaVihar (July, 2016)*



*Camp conducted at Manage village, Faridabad (October, 2016)*

necessary interventions for the benefit of the community goal.

### 14. Department of Burns, Plastic & Maxillofacial Surgery

The department handles large number of Burn patients, Plastic Surgery patients & Maxillofacial

surgery trauma cases. The department also performed complicated reconstructive operations and skin grafting.

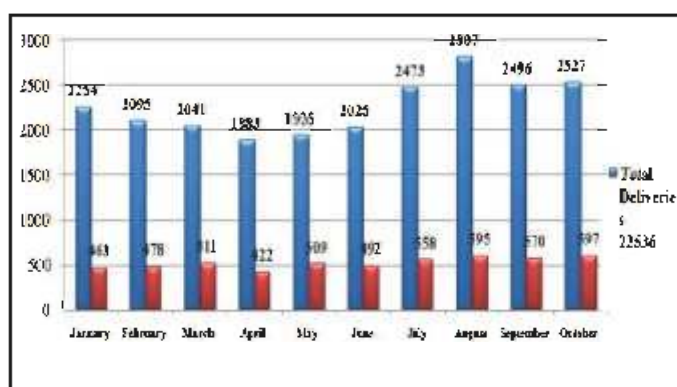
### 15. Department of Biochemistry

The total numbers of investigations done by the Department from (April-2016 to October 2016) were 850392. The Department is actively involved in quality control programme and participating in EQUAS programme conducted by CMC Vellore. Internal quality is also well maintained for all machines.

### 16. Department of Obstetrics & Gynaecology

The Department of Obstetrics & Gynaecology is the largest Department in Safdarjung Hospital, dealing with more than 30% of the total admissions of the hospital. It is one of the busiest hospitals in India catering a large number of high risk obstetrics patients with number of deliveries reaching almost 27000 per year.

There are a total of 293 beds (227 obstetric beds distributed in six wards and 66 gynaecology beds distributed in two wards), 2labour rooms, and 2 nurseries for intensive neonatal care, and emergency and elective operation theatres with facilities for major and minor obstetric and gynaecological surgery. Fifteen bedded Obstetrical critical care unit is the latest addition to the department.



Total Deliveries and LSCS [January – October 2016]

### 17. Department of Physical Medicine & Rehabilitation

Since 1971, The Rehabilitation Department is established as one of its kind apex and nodal centre for

medical rehabilitation in entire Northern region of the country. Over the years it has grown from only an outdoor unit to a 14 bed indoor ward and 8 bed day care wards. It also has units to provide for Physiotherapy, Occupational Therapy, Prosthetics & Orthotics, Social Rehab, Vocational training and Rural outreach activities. Department of Physical Medicine & Rehabilitation is a centre teaching and training facilities for development of manpower in the field of PMR and for the care of disabled in addition to regular clinical activities.

Department has complete Physical Medicine and Rehabilitation setup which include:

1. Medical advice - OPD & Referrals
2. Indoor Services – Spinal Injury Ward

### 18. Department of Medicine

The Department of Medicine is one of the largest Department of Safdarjung Hospital & VMMC. The Department provides comprehensive health care to patients in Indoor and outdoor departments. Round the clock emergency services are provided in Emergency Ward-A. The Department is attached to V.M. Medical College and teaching MBBS and MD students. Department of Medicine is also running the special clinics for Geriatric patients & GE clinic.



Neuro - Rehabilitation



Pediatric - Rehabilitation



## 15.5 LADY HARDING MEDICAL COLLEGE & SMT. S.K. HOSPITAL, NEW DELHI

### Introduction

The Lady Harding Medical College, New Delhi was established in the year 1916 with a modest beginning of just 14-16 students. Over the years, the institution has matured as a pioneering institute of Medical Education for MBBS girl students. In 1970, the number of UG admissions increased to 130. It further increased to 200 for implementation of OBCs Reservation as per Central Educational Institutional Act, 2006 and 142 PG students in various specialities

in this institution. The college, which is affiliated to the University of Delhi since the year 1949, has continued to admit students from all over India, as well as from Foreign Countries.

On the completion of 100 glorious years, this institute celebrated Centenary year Convocation ceremony on 21<sup>st</sup> September, 2016. Hon'ble President of India Shri Pranab Mukherjee inaugurated the event and distributed the degree and awards to the Scholars. Shri J.P. Nadda, Hon'ble Union Minister of Health & Family Welfare and Shri Faggan Singh Kulaste, Hon'ble Minister of State for Ministry of Health & Family Welfare were the guest of honour.



*Hon'ble President of India, Shri Pranab Mukherjee distributed the degree and awards to the Scholars on Centenary Year Convocation Ceremony of Lady Harding Medical College on 21<sup>st</sup> September, 2016*

As an honour, on completion of 100 years by Lady Hardinge Medical College, a commemorative Postal Stamp has been released on 23<sup>rd</sup> September, 2016 by Shri Manoj Sinha, Hon'ble Minister of State for Ministry of Communication along with Ms. Anupriya Patel, Hon'ble Minister of State for Health & Family Welfare.

The Hospital Statistics for Period 2016-17 (till date) is as under:

Bed Strength	877		
OPD Attendance	791727		
Indoor Admissions	35501		
Bed Occupancy	73.8%		
Surgeries Performed	Major	Minor	Total
	8580	8168	16738
Deliveries Conducted	12938		
New Born	13220		

### 15.6 DR. RAM MANOHAR LOHIA (RML) HOSPITAL

The Hospital, originally known as Willington Hospital and Nursing Home, renamed as Dr. Ram Manohar Lohia Hospital, was established by the British Government in the year 1932 and with passage of time, it emerged as a Centre of Excellence in Health Care under The Government Sector Hospitals. Its Nursing Home was established during the years 1933-35 out of donations from His Excellency Marchioner of Willington. Later, its administrative control was transferred to the New Delhi Municipal Committee, now Council (NDMC). In the year 1954, this hospital was taken over by the Central Government. The old building portion of the hospital is declared as a Heritage Building.

Starting with 54 beds in 1954, the hospital has been expanded from time to time to meet the ever-increasing demand of patients and increased to 1420 bedded hospital, spread over an area of 37 acres of land. The hospital caters to the needs of C.G.H.S. beneficiaries and Hon'ble MPs, Ex-MPs, Ministers, Judges and other V.V.I.P. dignitaries besides other

general patients. The mandate of the hospital is to provide utmost patient care and the hospital authorities have been making efforts to fulfill the bestowed upon. The hospital provides comprehensive patient care including specialized treatment to C.G.H.S. beneficiaries and general public. Nursing Home facilities are available for entitled CGHS beneficiaries. The Nursing Home, including Maternity Nursing Home, has 75 beds for the CGHS and other beneficiaries.

The hospital is one of the most prestigious Government Hospitals not only because locational advantage but also due to availability of expertise and super specialties. The hospital provides health care services to approx.15.40 lakh out-door patients and admitted around 64647 in-door patients during the period January, 2016 to October, 2016. About 2.84 lakh patients were attended in the Emergency and Casualty Department.

The hospital has round-the-clock emergency services and has policy not to refuse any patient requiring emergency treatment irrespective of the fact that beds are available or not. All the services in the hospital are free of cost excepting Nursing Home treatment and some nominal charges for specialized tests.

The bed occupancy during the period January 2016 to October 2016 in the Department of Medicine, Surgery, Pediatrics & Gynae & Obst. are 78.4%, 74.1%, 78.7% & 79.5% respectively.

Further, the total number of Radiology cases & Lab tests carried out during the period Jan, 2016 to October 2016 was 2,07,601 and 99,66,966 respectively.

#### The Services Available

The hospital provides services in the Specialties and Super Specialties covering almost all the major disciplines:

#### Post Graduate Institute of Medical Research (PGIMER)

Post Graduate Institute of Medical Education and Research started functioning from the Academic year 2008-2009 with an objective to provide post graduate

teaching in the science of modern medicine and other allied sciences, including physical and biological sciences and also to facilitate research in the various branches of such Sciences. This Institute is presently affiliated to Guru Gobind Singh Indraprastha (GGSIP) University, Delhi. In the year 2008, the

Government sanctioned a total of 28 PG Degree/Diploma seats and 2 seats in Super-speciality courses. At present, it has 101 seats of PG Degree/Diploma Courses and 28 seats for Super Speciality course.



*Hon'ble Minister for Health & Family Welfare, Shri J. P. Nadda distributed the degree and awards to the Scholars on 6<sup>th</sup> Convocation Day of PGIMER, Dr. RML Hospital on 4<sup>th</sup> April, 2016*

## 15.7 KALAWATI SARAN CHILDREN'S HOSPITAL, NEW DELHI

### Introduction

Kalawati Saran Children's Hospital is a premier referral Children's Hospital of National importance. The hospital functioning in the year 1965 and has grown to 375 beds. Under the scheme for the improvement of KSCH (JICA) the bed strength of this hospital is being increased to 500.

Neonatal wing of the hospital, with 80 beds catering to 12,000 deliveries a year, which is providing state of art services for premature and sick newborns including ventilator care. The Institution is a super speciality hospital with its fully developed subspecialties like Neurology, Nephrology, Gastroenterology & Nutrition, Hematology Pulmonology and Endocrinology.

The Hospital has established with the approval of Ministry of Health & Family Welfare, a "National Nutritional Rehabilitation Resource and Training

Centre” with the support of UNICEF. The Centre has 12 dedicated beds from management of severe Acute Malnutrition (SAM).

Kalawati Saran Children's Hospital is designated the National Nodal Centre for Facility based New Born Care.

The Hospital Statistics for the Period 2016-17 (till date) is as under:

No. of Beds	375		
No. of Admissions	Male 17867	Female 11423	Total 29290
OPD Attendance	Male 173967	Female 111225	Total 285192
Casualty	Male 38004	Female 25336	Total 63340
Bed Occupancy Rate	118.8%		
Total No. of Surgical Operation	Male 1537	Minor 2592	Total 4129
Neonatal & Nursery Care	1107		

### 15.8 NATIONAL INSTITUTE OF MENTAL HEALTH & NEURO SCIENCES (NIMHANS), BENGALURU

The National Institute of Mental Health & Neuro Sciences (NIMHANS), Bengaluru was registered as a society in 1974 on amalgamation of the Government of Karnataka Mental Hospital and the All India Institute of Mental Health, Bengaluru. The Central Government and State Government of Karnataka jointly finance the Institute. The Institute was declared as an Institute of National Importance in September 2012.

NIMHANS is a tertiary care hospital in the fields of psychiatry, neurology and neurosurgery with its allied fields and teaching, research and community oriented activities which are the main thrust of the Institute. The objective of the Institute is to promote the growth and development of Mental Health and Neuro

Sciences and its main theme being multi-disciplinary approach in services. During the year, 4,49,261 patients from various parts of the country and across the world received specialized medical care for psychiatric and neurological problems upto October, 2016. The Institute has 908 beds out of which 118 beds are exclusively for Casualty and Emergency Services.

#### New Initiatives

1. A new Neuro-Ophthalmic Unit has been established to offer dedicated services for evaluation of patients with neuro-ophthalmic conditions. The unit has state-of-the-art facilities for refractive errors assessment, perimetry, slit-lamp examination and fundal photography.
2. The Department of Transfusion Medicine & Haematology has added new tests/procedures including Apheresis (single donor platelet) and Coagulation Profile (PT, APTT, INR, Protein C & Protein S and Anti-Thrombin 3 estimation). NAT testing has also been adopted on all blood donations and Haemo-vigilance Programme of India (HvPI) is being effectively implemented.
3. The Department of Neuroanaesthesiology has expanded its intensive care facilities with the procurement of Transoesophageal Echo Probes and Intraoperative-evoked Potential Monitoring equipment. Portable ultrasound is also made available in all the ICUs and is being regularly used by the physicians to diagnose various conditions in the intensive care.
4. Simultaneous MR-PET facility has been functional since 1<sup>st</sup> January 2016 and clinical cases initiated from April 2016. Hybrid protocols for the PET MR of brain and whole body in various neurological and neuro-oncological conditions have been set. Cyclotron facility for the production of ultra-short-lived radiopharmaceuticals has been made available in the state-of-the-art MR-PET Scan Centre.
5. The Department of Neuromicrobiology has come up with various new facilities encompassing rapid diagnosis of M. tuberculosis infection by immunological and

molecular methods; diagnosis of CNS infections like Toxoplasma, Cryptococci and Brucella; antifungal testing for Cryptococci; proteomic studies to understand the biomarkers in diseases; anti-Nuclear antibody testing by Immuno-Fluorescence; molecular profiling of MRSA; and anti-MUSK antibodies for diagnosis of Myasthenia.

6. The state-of-the-art Microsurgical Skills Lab has been set up with dedicated operating microscopes and neuro-endoscopic stations. The laboratory provides the opportunity for trainees and young neurosurgeons to learn neurosurgical anatomy, practice to operate under the microscope, perform bone drilling on various animal cadaveric bones, perform microvascular and nerve anastomosis and get exposed to newer equipment(s) viz. endoscopes.
7. Neuromuscular Lab and Neuro-oncology Labs at Neurobiology Research Centre (NRC) has introduced two new tests as part of the Self-Sustaining Diagnostic Facility, which include Myositis Panel for characterizing inflammatory myopathies and molecular tests for molecular subtyping of medulloblastoma.
8. The Centre for Brain Mapping (CBM), Clinical and Research facility for EEG studies in Psychiatry was inaugurated on 1<sup>st</sup> June 2016.
9. The newly established Adolescent Psychiatry ward with 28 beds was opened for service on 27<sup>th</sup> April 2016.
10. The construction of NIMHANS Sub-speciality Block to be named after Prof. RM Varma, Founder-Director of NIMHANS in the Neuro Centre is in brisk progress. The seven-floor centre with a built-up area of 9600 sq. meters will have 125 beds, 25 ICU beds, two operation theatres and state-of-the-art laboratory facilities.

## 15.9 CENTRAL INSTITUTE OF PSYCHIATRY (CIP), RANCHI

### Introduction

Central Institute of Psychiatry (CIP), Ranchi functions under the aegis of the Directorate General

of Health Services and the Ministry of Health and Family Welfare, Government of India. Established nearly a century ago by the British in 1918, the hospital originally went by the name of Ranchi European Lunatic Asylum. Initially, its total bed capacity was 174 patients (92 male beds, 82 female). In 1922 management was entrusted to a Board of Trustees which comprised of various participating state governments and the hospital was rechristened as European Mental Hospital. In the same year, the hospital was affiliated to the University of London for Diploma in Psychological Medicine examination, earning it the distinction of being the first institute to impart post-graduate training in psychiatry in India. The name of the hospital was changed to Inter-Provincial Mental Hospital in 1948 and as Hospital for Mental Diseases in 1952. The Board of Trustees was disbanded in 1954 and the management was taken up by the Ministry of Health and Family Welfare, Government of India. In 1977, the hospital was given the status of an institute and was consequently given its present name i.e., Central Institute of Psychiatry.

The campus of the Institute is spread over 210 acres. Currently, it has a capacity of 643 beds. There are 15 wards (9 male wards and 6 female wards), an emergency ward and a family unit. Each ward is at a suitable distance from other wards and surrounded by manicured lawns and well-laid roads. Patients are not kept confined and can walk around within the hospital. Drug therapies form only a part of treatment along with various psychotherapies, behavioral therapy, group therapy and family therapy. A milieu therapy approach is practiced – patients participate in running the ward and help in looking after other patients. Along with mental health, physical fitness is emphasized too – patients take part in regular physical exercises, yoga, outdoor as well as indoor games to keep them physically fit. Patient care, research and manpower development remain the major objectives of the Institute.

The Institute provides services for acutely ill psychiatric patients, including those requiring care for concurrent medical disorders. Till 30<sup>th</sup> September 2016, 3227 patients (2647 males and 580 females) were admitted. 3158 patients were discharged (2599 males and 559 females). The average bed occupancy during the specified period was 82.7%. Till 30<sup>th</sup>

September 2016, number of cases seen on out-patient basis at the Institute were 64,245 (20,549 new cases and 43,696 follow-up cases).

The Institute runs MD Psychiatry (6 seats), Diploma in Psychological Medicine (12 seats), M. Phil Clinical Psychology (12 seats), Ph.D. Clinical Psychology (4 seats), M.Phil. in Psychiatric Social Work (12 seats) and Diploma in Psychiatric Nursing (12 seats).

A number of special clinics are being run in the Institute namely, Chronic Schizophrenia Clinic, Skin and Sex Clinic, Neurology Clinic, Sleep Clinic, Epilepsy Clinic, Staff OPD, Headache Clinic, De-addiction Clinic, Child Guidance Clinic, Mood Clinic, Geriatric Clinic and Obsessive-Compulsive Disorder (OCD) Clinic. Till 30<sup>th</sup> September 2016, total attendance of patients in special clinics was 15,684.

The Institute runs Extension Clinics which include the General Psychiatry Clinic at West Bokaro, Hazaribagh, Chandankiari, Bokaro, School Mental Health Programme, Deepshikha, Ranchi. Regular camps, awareness programmes, workshops with teachers and parents are also conducted at these extension clinics. School mental health programmes are being run in two schools through the community outreach services programme. The case-load in the extension clinics till 30<sup>th</sup> September 2016 was 2991.

The Institute also offers Occupational Therapy (OT) services to adults as well as child and adolescent in patients with either acute psychiatric illness or severe and enduring mental health problems. Inpatients attend OT daily in both the pre- and post-lunch sessions. They are allocated work in the various sections according to their abilities and aptitude. About 50 male patients and 35 female patients attend OT daily. The department also has a well-equipped and modern physiotherapy unit. The OT department is also involved in training medical as well as non-medical professionals such as psychiatry residents, clinical psychologists, psychiatric social workers and psychiatric nurses in various aspects of occupational therapy and rehabilitation.

A 24 hours emergency service is available in the OPD of the Institute. The bed strength of the Emergency Ward is 16 patients (8 male beds and 8 female beds). A total of 2896 patient's availed emergency services till

30<sup>th</sup> September 2016.

The Institute has been running a toll-free telephone counseling service – the CIP Helpline – since 2001. The Institute also provides an e-counseling service. During the period under report, 451 general helpline calls, and 76 e-mails were received and attended.

### 15.10 PRADHAN MANTRI SWASTHYA SURAKSHA YOJANA (PMSSY)

The Pradhan Mantri Swasthya Suraksha Yojana (PMSSY) has been launched with the objectives of correcting regional imbalances in the availability of affordable/reliable tertiary healthcare services and to also augment facilities for quality medical education in the country. PMSSY has two components – setting up of AIIMS like institutions and up-gradation of existing State Government Medical Colleges/Institutions and is being taken up in phased manner. Upgradation programme broadly envisages improving health infrastructure through construction of Super Speciality Blocks/Trauma centres etc. and procurement of medical equipments for existing as well as new facilities on Central and State share basis.

In first phase of PMSSY, six AIIMS one each at Bhopal, Bhubaneswar, Jodhpur, Patna, Raipur and Rishikesh and up-gradation of 13 existing State Government Medical Colleges/Institutions (GMCI) have been taken up. Under Phase-II of PMSSY, AIIMS at Rae Bareilly and up-gradation of 6 is being taken up. Simultaneously, under Phase-III, 39 existing Government Medical College Institutions are being taken up for up-gradation. In addition, setting up 3 AIIMS has been approved under Phase-IV. Up-gradation of 12 existing GMCI is under consideration under Phase-IV.

#### 15.10.1 Approved project Cost for the entire PMSSY Projects is as given under:

(Rs. in crore)

	Capital cost	Recurring cost	Total
1 <sup>st</sup> Phase	6210	3097.62	9307.62
2 <sup>nd</sup> Phase	2396	1031.5	3427.50
3 <sup>rd</sup> Phase	5071	0	5071.00
4 <sup>th</sup> Phase	4949	0	4949.00
<b>Total</b>	<b>18626</b>	<b>4129.12</b>	<b>22755.12</b>

### 15.10.2 Status of Six AIIMS (PMSSY Phase-I)

**Academic Session:** Five batches of MBBS students totaling 350 and four batches totaling 180 B.Sc. Nursing Students at each of the six new AIIMS are now receiving education. OPD Services have also commenced at all six new AIIMS. IPD Services for teaching purpose have commenced at all the six AIIMS.

**Legislation:** AIIMS Amendment Act, 2012 has been enacted amending the All India Institute of Medical Sciences Act, 1956 to provide autonomous status to the six AIIMS. The societies formed earlier have been incorporated as corresponding Institutes. Institute body for each new AIIMS was constituted in July,

2013. Besides, Governing Body, Standing Finance Committee, Standing Selection Committee for six new AIIMS have also been constituted.

**Creation of posts:** 4089 posts of various categories including faculty and nursing have been created for each of the six AIIMS. Recruitment to faculty has been made. Strength of faculty at AIIMS, Bhopal is 56, Bhubaneswar 141, Jodhpur 103; Patna 55; Raipur 76 and Rishikesh 85. Limited non faculty positions have been filled by individual AIIMS.

#### Status Report of six AIIMS as on December 2016

**Status of Six AIIMS:** The status of construction of various civil, electrical and estate components of respective AIIMS are given below:

Name of site	Medical College	Hospital Complex	Residential Complex	Electrical Services	Estate Services
Bhopal	92.46 %	82.72 %	100 %	86.88 %	45.68 %
Bhubaneswar	97.20 %	87.81 %	80 %	100 %	74.75 %
Jodhpur	98.07 %	92.99 %	100.00 %	99.91 %	99.00 %
Patna	98.00 %	74.50 %	100.00 %	97 %	43.5 %
Raipur	94.92 %	75.77 %	100.00 %	97.59 %	56.42 %
Rishikesh	89.59 %	98.50 %	100.00 %	98.00 %	69.00 %

#### Procurement of medical equipments in all the six AIIMS

- HLL Lifecare Ltd. has been appointed as Procurement Support Agent (PSA) for procurement of medical equipments for the six AIIMS.
- Tender for medical equipment worth Rs.400 Crore (approx) for procurement through HLL Lifecare Ltd. has so far been finalized.
- Separately, the Institutes have been advised to procure equipment to meet their minimum operation requirement for the current academic session and starting hospital this year.
- Furniture for Medical College has already

been procured.

#### 15.10.3 New AIIMS under PMSSY Phase-II

The Central Government has approved establishment of one AIIMS each in the States of Uttar Pradesh and West Bengal. The Government of Uttar Pradesh has transferred the land to the Central Government for establishment of AIIMS at Rae Bareilly. The Ministry has appointed M/s. HSCC (I) Ltd. as Project Management Consultant for the Project. Work for construction of housing complex for the AIIMS, Rae Bareilly has started and is in full swing. Almost 85% of the work pertaining to construction of housing complex at AIIMS Rae Bareilly has been completed. In addition, the Institute shall also have a start-up OPD including other necessary facilities to provide healthcare for the benefit of local populace. The work of OPD has been completed and procurement of

equipment is in progress.

For the proposed AIIMS in West Bengal, earlier a location was proposed at Raiganj, Uttar Dinajpur under PMSSY Phase-II and as State Government did not provide requisite land at the proposed site. The State Government had requested for setting up of the AIIMS at Kalyani which has been accepted and will be completed under Phase-IV.

#### 15.10.4 Phase III

There are no AIIMS announced in Phase III. Only upgradation of 39 medical colleges were announced. Details are given at point no. 15.10.6.

#### 15.10.5 Setting up of New AIIMS under Phase IV & V

**AIIMS announced in 2014-15:** Four (04) new AIIMS have been announced during Budget Speech one each in Andhra Pradesh, Maharashtra, West Bengal and Poorvanchal in Uttar Pradesh. Out of these, the Cabinet approved three (03) new AIIMS at Mangalagiri, A.P., Nagpur, Maharashtra and Kalyani, West Bengal on 7<sup>th</sup> October 2015.

Cabinet approval for establishment of new AIIMS at Gorakhpur in UP obtained on 20<sup>th</sup> July 2016 and the Foundation Laying Ceremony was done by the Hon'ble Prime Minister on 22<sup>nd</sup> July 2016. The site finalized for the purpose is MahadevJharkhandi Tukda-2, Tehsil Sadar, Gorakhpur, Uttar Pradesh.



*Foundation Stone laying of AIIMS, Gorakhpur by Hon'ble Prime Minister on 22<sup>nd</sup> July 2016*



AIIMS announced in 2015-16: Six (06) new AIIMS have been announced during Budget Speech 2015-16 one each in Assam, Himachal Pradesh, Jammu & Kashmir, Punjab, Tamil Nadu and Bihar. Hon'ble PM has announced setting up of total two AIIMS in capital cities of J&K as part of Prime Minister Development Package for J&K. This includes the AIIMS announced during Budget Speech 2015-16. Thus there would be seven (07) AIIMS in this phase.

The present status is brought out below:

- Sites for setting up of new AIIMS at Bathinda in Punjab, Kamrup district in Assam, Awantipora, Pulwama in the Kashmir Division and at Vijaypur in Samba district in Jammu region in State of J&K with some conditions have been finalized.
- Cabinet Approval obtained for the site identified at Bathinda in Punjab on 27.07.2016. Foundation Stone laying for the same was done by Hon'ble Prime Minister on 25.11.2016.
- Tamil Nadu, Himachal Pradesh – land identified, Central Team's reports under consideration/submission.
- Bihar – State Government is yet to offer suitable sites.
- AIIMS in Jharkhand has been agreed by Ministry of Finance. Based on Central Team's report for site offered by State Government, the location of new AIIMS in Jharkhand has been finalized in Deoghar.

#### 15.10.6 Upgradation of Government Medical Colleges Phase I, II, III & IV

The upgradation programme broadly envisages improving health infrastructure through construction of Super Speciality Blocks/Trauma centres etc. and procurement of medical equipments for existing as well as new facilities. The upgradation of Medical Colleges has been undertaken in phases as under:

##### 15.10.6.a Status of Phase-I

Out of 13 medical colleges taken up for upgradation

in the first phase of PMSSY, civil work at nine medical college institutions (viz. Trivandrum Medical College; Salem Medical College; Bangalore Medical College; SGPGIMS, Lucknow; NIMS, Hyderabad; Jammu Medical College; Rajendra Institute of Medical Sciences (RIMS), Ranchi; IMS, BHU Varanasi; and Srinagar Medical College) has been completed.

In respect of Kolkata Medical College, construction of OPD Block, Academic Block taken up in the 1<sup>st</sup> stage of construction has been completed and for the Super Speciality Block which is to be taken up in the second stage of construction, work has been awarded in November, 2015 and 45% of the work has so far been completed. In regard to Sree Venkateswara Institute of Medical Sciences (SVIMS), Tirupati; Grants Medical College, Mumbai and B.J. Medical College, Ahmedabad where up-gradation involves procurement of medical equipments only, the procurement process is likely to be completed by March, 2017.

##### 15.10.6.b Status of Phase-II

Out of 6 Medical College institutions taken up for upgradation in the second phase, civil work involves five institutions and the progress/status is as under:

- i. R.P. Government Medical College, Tanda – civil work completed and the new SSB has been inaugurated on 1.3.2014;
- ii. Jawaharlal Nehru Medical College of AMU, Aligarh – Civil work completed;
- iii. Government Medical College, Amritsar – Civil work completed;
- iv. Pt. B.D. Sharma Postgraduate Institute of Medical Sciences, Rohtak (78%); and
- v. In respect of Madurai Medical College, due to change in location for the new Super Speciality Block, plan had to be modified. The civil work has started and 42% of work has been completed.

At Government Medical College, Nagpur upgradation programme involves only procurement

of equipments and entire procurement work is being undertaken by the Institute/State Government. An amount of Rs.120.25 crore has been released to the Institute.

#### 15.10.6.c Status of Phase-III

- The Central Government has approved upgradation of additional 39 medical colleges under third phase of PMSSY-Upgradation on 07.11.2013. Based on Phase-I and Phase-II Implementation, HSCC/HITES/CPWD have been selected as Executive Agency/Project Management and Supervision Consultants for civil work at 39 medical colleges. Detailed Project Reports in respect of all the medical colleges have been approved. The work has been awarded in respect of the 34 Govt. Medical Colleges also.
- Out of 19 State Governments, MoU with 12 State Governments have been signed by MoHFW.
- Project Funds amounting to Rs.445.7 crore for civil works have been released to Executing

Agencies.

- Work Committee to review the progress of execution of up-gradation work under Phase III has been constituted.
- There are no AIIMS under Phase III of PMSSY Projects.

#### 15.10.6.d Status of Phase-IV

Cabinet has approved 13 GMCI's for upgradation under Phase-IV of PMSSY on 03.08.2016. Committee for conducting Gap Analysis of Govt. Medical Colleges/Institutes has been constituted and State Government has been requested to advise concerned GMCI's to submit preliminary gap analysis to MoHFW. Recently, Ministry has approved creation of Super-Speciality Block at Institute of Medical Sciences, Banaras Hindu University, Varanasi on 19.12.2016 at a cost of Rs.200 crores (MoHFW Share : Rs.120 crores, MoHRD Share : Rs.80 crores) under PMSSY.