

CENTRAL MEDICAL INSTITUTIONS AND NEW AIIMS

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

Key Highlights

- AIIMS E-Hospital Project (Online Registration System) launched by the Prime Minister of India as part of Digital India Week on July 4, 2015.
- Health Minister launched "Kaya Kalp - Clean and Green AIIMS" campaign on July 15, 2015.
- Health Minister launched the AMRIT Pharmacy and Drug Store on November 15, 2015 for providing low cost drugs for cancer patients.
- Health Minister and Chief Minister of Haryana conducted the Bhumi Poojan Ceremony of Independent India's largest healthcare project, "The National Cancer Institute" of AIIMS Jhajjar Campus on December 12, 2015.
- AIIMS OPD Transformation project was launched on December 25, 2015 by the Health Minister and MOS (IC) Power, Coal & New and Renewable Energy.
- Major expansion in total bed strength of AIIMS by addition of approximately 3000 beds in next 3-5 years.

- Work started on National Cancer Institute at Jhajjar at a cost of Rs. 2035 crores.
- A New OPD Block at a cost of Rs. 573 crores.
- A new Mother and Child Block at a cost of Rs. 204.44 crores.
- A National Centre of Ageing.
- New courses of MD/DM/MCH and increase in posts of Senior Residents by 90% (more than 250).

Introduction

All India Institute of Medical Sciences (AIIMS) established in 1965 by an Act of Parliament is an Institution of National Importance and a Center 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 talents from across the country that enters this institute as young students and pass out with the intensity of commitment to serve the poorest of the poor.

AIIMS has developed with high levels of autonomy. The Government has endeavored to ensure and strengthen the Governance Structure of AIIMS. A thorough review of the AIIMS, Act, Rules and

Regulations has been undertaken. Government is considering incorporation of the recommendations of the Venkitachalam Committee, the Valiathan Committee, the Sneh Bhargava Committee, the Sujatha Rao Committee and the Pradhan Committee into the proposed amendments. Government envisages the Institute to have greater financial and administrative autonomy in decision-making.

15.1.1 Medical Education

The Department of Plastic, Burns and Reconstructive Surgery, Rheumatology and Onco Anaesthesia have been created to fulfill the demand in these emerging areas. More than 200 new faculty have joined the Institute after due selection process, which has fulfilled the shortage of faculty at AIIMS in various departments.

New courses in MD/DM/MCh have been approved and started for the first time in India, which includes MD in Palliative Medicine, MCh in Trauma Surgery, DM in Critical Care, DM in Therapeutic Nuclear Medicine and many other emerging branches. The capacity of many ongoing courses have been increased by 90% and more than 250 new posts of Senior Residents were created in various specialties at AIIMS. 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

- AIIMS is India's most recognized medical sciences Institute and has been graded as one of the best medical colleges for the last 15 years by various independent surveys.
- AIIMS has signed MOU's for furthering research and training with leading international universities of the world which include University of Michigan - USA, Shock Trauma Center, Baltimore -

USA, The Royal College of Physicians and Surgeons, Glasgow, U.K., Alfred Hospital, Monash University - Melbourne, Osaka University - Japan, Ohio State University - USA, Umea University - Sweden - through Swedish Embassy and Erasmus University, Netherlands.

- The Institute is collaborating with the University of Michigan, United States to strengthen research capabilities in bio-medical sciences and possible scientific collaboration in the areas of cancer research, trauma care and research in translational aspects of immunology, genetics and stem cell biology. Jai Prakash Narayan Apex Trauma Centre in collaboration with National Disaster Management Authority and Ministry of Health and Family Welfare is working towards capacity building in India in both basic life support and in advance trauma life support.
- AIIMS signed an MOU with the National Cancer Institute, USA with focus on capacity building and knowledge sharing and technology transfer. National Cancer Institute, USA will provide technical inputs to set up the National Cancer Institute at Jhajjar Campus of AIIMS.
- AIIMS successfully conducted the East Asia Summit (EAS) Round Table on Trauma Care and Nursing on October 15-16, 2015. 122 delegates from 18 countries attended the Conference. The EAS participating countries adopted an outcome document, which resolved to pursue areas of common understanding and priority in the field of trauma care and nursing.
- AIIMS also convened the 1st AIIMS-French Academy of Medicine (FAM) "Public Health Innovation Forum" with emphasis

on Cardiology and Cancer Care. The two day conference attended by 1300 delegates/ participants discussed the emerging trends in cardiology and cancer care in the 2 countries. A memorandum of collaboration between the AIIMS and French Academy of Medicine was signed.

- During the academic year (2014-15) the ongoing research projects are 577 and the Institute received extra mural grant worth Rs. 71 crore. The scientists of the Institute have published 2194 research papers and 308 monographs in national and international journals. Neurosurgery Department set up a Neurosurgery Education and Training School (NETS) and Neuro Skills Training Facility (NSTF) in collaboration with IIT-Delhi. The Research Section also initiated the Clinical Investigator Development Programme; how to become a Principal Investigator and Courses of Research Methodology for Post Graduates.
- In pursuance of the recommendations of the 87th Report of the Parliamentary Standing Committee on Health and Family Welfare on the Functioning of AIIMS, the Institute has taken up initiatives to establish the Central Instrumentation Facility for providing State of the Art laboratory facilities for research in the Institute.

15.1.3 Patient Care

- In the year 2015-16, **about 35.77 lakhs people visited OPDs and 1.47 lakhs surgical operations were performed and 3.5 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. Health Minister launched "Kaya Kalp - Clean and Green

AIIMS" campaign on July 15, 2015. AIIMS OPD Transformation 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 12 lakhs patients till January 2016. The AIIMS Transformation Project implemented on CSR basis by the Tata Consultancy Services has enabled a more patient friendly environment.



Patient Reception Centre, AIIMS, New Delhi

- To strengthen patient care services, **AIIMS would be procuring machinery and equipment worth Rs. 261.90 crores in the financial year 2015-16.** Major equipments being procured are SMILE (Small Incision Lenticule Extaction) for Lasik Surgery by the Dr. R. P. Centre for Ophthalmic Sciences, an RIS PACS system (radiology information system) to store, manipulate 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 anesthesia workstations with anesthesia modular monitors by the Department of

Anesthesia, Robotic High through-put Nanolitre Dispenser Crystalization System by the Department of Bio Physics and the 1.5 Tesla MR Scanner by the Department of NMR. A major strengthening of the Centre for Rural Health Services Project, Ballabgarh has been initiated.



A Patient Care Coordinator for online system helping a patient

- The rising patient loads and demands for super specialty disciplines has necessitated higher health sector investments in apex tertiary care hospitals. AIIMS is currently in a phase of sustained expansion with the National Cancer Institute (710 beds), a Mother and Child Block (400 beds), a new OPD Block, a new Surgical Block (200 beds) and Emergency and Diagnostic Block (400 beds) and National Centre for Ageing (200 beds). The National Cancer Institute represents the largest public investment in health sector with 710 beds at a cost of Rs. 2035 crores. The Bhumi Pujan ceremony for the National Cancer Institute was conducted on December 12, 2015.
- AIIMS has been allotted 14.95 acres of land behind AIIMS Trauma Centre which will see major expansion in its patient 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) and a Centre for Diabetology (240 beds), Transplant Center for Bone Marrow (80 beds) and Kidney & Heart Transplant (63 beds). The total cost of these works is nearly Rs. 2700 crores.

- Housing for AIIMS faculty has been a demand for a number of years. In consultation with the Ministry of Finance and Ministry of Urban Development, the redevelopment of western campus and Ayurvigyan Nagar of AIIMS project has been formulated by the Ministry of Health and Family welfare and AIIMS, which will provide approximately 5000 residential flats for various staff of AIIMS. The project is proposed to be implemented through National Building Construction Corporation in the coming months on a revenue neutral model.

15.1.4 Budgetary Support

- A budgetary support of Rs. 1727 crores (Rs. 700 crores in plan budget and Rs. 1027 crores in non-plan budget) was provided by the Government during the financial year 2015-16. The major heads of expenditure include infrastructure, machinery and equipment, salary payments and consumables.
- **AIIMS Endowment Fund set up to allow** for contributions under CSR as well as from Alumni, Charitable institutions and angel investors.
- Innovative methods of financing large capital works by part monetisation of land and leading financial institutional being worked out. Proposal also worked out for World Bank Funding.

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

Key Highlights

- New Satellite Centre at Sangrur.
- Online Patient Registration System.
- A Comprehensive Emergency and Advanced Trauma Centre.
- A new block of 250 beds for Oncology, Endocrinology, ENT and Hepatology.

Introduction

The Post-graduate 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 Government of India. The main objectives of the Institute are:-

- To develop patterns of teaching of undergraduate and post-graduate medical education in all its branches so as to demonstrate a high standard of medical education;
- To bring together as far as possible 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 post-graduate medical education to meet the country's need for specialists and medical teachers.

15.2.1 Medical Education

Post-graduate Institute of Medical Education & Research, Chandigarh 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 2015-16, the Institute has awarded 27 Ph.D degrees, 161 MD degrees, 71 MS degrees, 44 DM degrees, 34 M.Ch degrees, 07 M.Sc/M.Sc Medical Lab. Technology degrees, 12 Master of Public Health degree, 04 Master of Audiology & Speech Language Pathology, 05 Master in Hospital Admn. degrees, 09 MDS degree, 48 B.Sc (Medical Technology) degrees, 13 Bachelor of Physical Therapies, 07 Bachelor of Audiology & Speech Language Pathology, 23 M.Sc Nursing degrees, 46 B.Sc. (Nursing Post Basic), 78 B.Sc Nursing (4 years). Further, 500 number of candidates have joined various Post-graduate/Post Doctoral Courses during 2015-16.

Shri Narendra Modi, Hon'ble Prime Minister of India was the Chief Guest on the occasion of XXXIV Convocation of PGIMER. The Chief Guest honoured nine gold medalists. Eight hundred and twenty-five candidates were awarded degrees on the occasion by the President of the Institute & Hon'ble Union Health Minister Sh J. P. Nadda. Forty-six silver medals and forty-one bronze medals were also awarded to students from various specialities.

15.2.2 Medical Research

The Institute has excelled in all the three areas namely-patient care, medical education and research. The patient care load over the years has been increasing exponentially and now is becoming unmanageable. From an annual attendance of 1,25,163 out patients and 3,328 admissions in 1963-64, the figure has gone up to 2347304 outpatients and 86,131 admissions in the current year. 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 731 papers during the year. Various departments

of the Institute have been sanctioned 147 research projects supported by DST, WHO, DBT, ICMR and other outside agencies and 63 projects have been completed over the last year. During the period from April, 2015 to December, 2015, 26 Visiting Professors from National and International Institutes visited the PGIMER and their respective departments.

PGIMER has been judged as the second best for Medical Education, Research and also multi-specialty patient care hospital amongst fifteen best Institutes in India. PGIMER was also adjudged as having second best research facilities by The Week-NIELSEN BEST HOSPITALS SURVEY 2015 published in The Week (November 29, 2015). Amongst the best hospital specialities PGIMER stands second in Obstetrics & Gynaecology, Gastroenterology, Diabetic Care, Pulmonology and Paediatrics and third in Neurology. Specialties of Orthopaedics and Cardiology are fourth, Ophthalmology fifth and Oncology sixth. The Hospital is also the second best in the North Zone of the country. City-wise, amongst nine best multi-speciality hospitals in Chandigarh, PGIMER is first.

Dr. Tulsidas Library: The PGIMER library plays a significant role to serve the faculty members, residents, research fellows, staff and students. It remains open for 20 hours every day including Sundays and holidays. The library reading room is open 24 hours. During the financial year 2014-15 Rs. 2,94,39,095 were spent on the subscription of journals, online Medical Database and books.

15.2.3 Patient Care

- The patient care services in PGIMER have expanded from Nehru Hospital to a number of independent centers 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 three years is as under:

Patients Attendance	2015 (01.01.2015-31.12.2015)	2014-15	2013-14	2012-13
Outdoor	23,47,304	22,10,670	20,61,911	19,70,708
Indoor Admissions	86,131	82,164	78,568	72,382

Surgeries	2015 (01.01.2015-31.12.2015)	2014-15	2013-14	2012-13
Minor	1,59,028	1,49,690	1,44,078	1,23,988
Major	42,478	40,714	38,099	34,286

- Emergency Services:** The Emergency Complex and Advanced Trauma Centre provide all medical and surgical 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:

Service	2015 (01.01.2015-31.12.2015)	2014-15	2013-14	2012-13
OPD	87003	73,576	70,756	66,204
Admissions	40580	39,026	37,535	36,067
Major Surgeries	15080	14,382	13,486	11,409
Minor Surgeries	2720	2,645	2,669	1,819

Recent Initiatives (New Facilities)

- Satellite Centre at Sangrur at a cost of Rs. 449 crores. OPD to be made functional first;

- ii. A new block of 250 beds with Oncology, Endocrinology, ENT (Expansion of Nehru Centre) and Hepatology approved;
- iii. Remodeling of Trauma Centre and
- iv. Advance Cardiac Centre.
- The Institute became the first Govt. Hospital to be conferred the star rating by Government of India, Bureau of Energy Efficiency. Institute is among the seven Hospitals and is the only Govt. Hospital to get this award for Advanced Eye Centre and Advanced Cardiac Centre. The rating was awarded by Sh. Dharmendra Pradhan, Minister of State, Petroleum and Natural Gas on 03.09.2014.
- The Department of Endocrinology established a state of art Diabetic Foot Lab and Diabetic Foot Clinic was started.
- The Department of Medical Microbiology continued to be the largest public sector hospital accredited for all diagnostic tests for microbial infection. Besides already established six reference centers of the country, the department is upgraded this year as the “Regional Sexually Transmitted Infection Reference, Research and Training Centre”. WHO designated the department as “Surveillance Centre for Vaccine and Preventable Diseases (VDP) – Diphtheria and Pertusis”.
- The High-precision Linear Accelerator Trilogy was formally inaugurated by the Hon’ble Union Minister for Health and Family Welfare and the department is now routinely providing services like IGRT and SBRT in Department of Radiotherapy. The department has been recognized by European society of Medical Oncology as designated centre for Integrated Oncology and Palliative Care.
- Robotic Assisted Surgery Facility, was formally inaugurated by the Hon’ble Health Minister in the Department of Urology, is the only such facility in North India.
- In order to provide new and improved facilities to the patients, the Department of Nephrology got a functional day care unit with five beds for the purpose of managing patients requiring only day-care as well as daily transplant clinic for the ease and convenience of post-renal transplant patients.
- The Department of Paediatric Medicine established Mass Spectrometry and Metabolic Core Facility in the Advanced Pediatrics Centre, which is the first of its kind in the region and third in the country in a government set up. This helps in detection of metabolic disorders, and certain inherited conditions. The Department has also added Chemiluminiscence system to test vitamin B12, folate, homocysteine, vitamin D and thyroid profile in pediatric patients.
- The Department of Nuclear Medicine has started Peptide Receptor Radionuclide Therapy (PRRT) for metastatic neuroendocrine tumors as well as prostate cancer. This treatment is not available in any other hospital in this region, and is expected to benefit patients in whom conventional chemo-radiotherapy is ineffective.
- The Department of Hepatology in coordination with Chandigarh Administration initiated the option for “Organ Donation on Driving License” in Chandigarh from October 2015. Thus Chandigarh has become the second state/UT to do so in India. Now application form for driving license has an option for pledging organs.

- The Department of Anatomy received 27 body donations and 354 persons pledged their bodies for research and training.

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 and <http://pgihis.in> for quite some time. These services are facilitating patients with latest Blood Stock position, online appointments in 15 departments where patients are seen directly-Advanced Eye Centre (Ophthalmology), Dermatology, Obstetrics, Gynaecology, General Surgery, Internal Medicine, Orthopaedics, Plastic Surgery, Drug De-addiction & Training Centre, Otolaryngology Head And Neck Surgery (ENT), Oral Health Science Centre, Urology, Paediatric Medicine, Psychiatry, Paediatric Surgery and Paediatric (Orthopaedics) and thereby giving them respite from standing in long queues. From March 2015 till date 25,645 patients have registered online and 11,791 have visited the Institute.
- PGIMER has now joined the ‘Digital India’ Programme of the Government of India, by making available OPD Appointments, Laboratory reports and Blood Bank stock position on the ‘Online Registration System (ORS; <http://ors.gov.in>) web portal, a national platform framework to link hospitals across the country.

- PGIMER has initiated tele-evidence facility which utilizes video-conference technology for attending the court evidences under Digital India Programme. During the year (till 30th November, 2015), a total of 769 cases through video-conferencing have been successfully conducted. Three exclusive Tele-evidence Lounges have been set up in the Central Registration Department of the Institute for this purpose. This facility was recently inaugurated by the Hon’ble Union Minister of Health and Family Welfare and President of the Institute.

Swachh Bharat Mission adopted: The Sanitation Department of PGIMER has started a weekly drive of cleanliness under which a particular area of the Institute is selected in addition to the routine sanitation cleanliness services.

15.3 JAWAHARLAL INSTITUTE OF POST-GRADUATE MEDICAL EDUCATION & RESEARCH (JIPMER), PUDUCHERRY

Key Highlights

- Establishment of JIPMER International School of Public Health.
- Establishment of Multi-disciplinary Advance Research Centre.
- Establishment of Comprehensive Breast Care Centre.
- Expansion of Telemedicine Programme.
- Establishment of Geriatric Block.
- Expansion of Super-Speciality Block.
- Expansion of PG seats from 145 to 200.
- Institute of Allied Health Sciences.
- Plan funding for Civil Infrastructure etc. increased from Rs. 150 crore to Rs. 350 crores.

Introduction

JIPMER has emerged as one among the top best five medical institutes in the country and is poised to become the global giant in health sector. JIPMER is unique in providing best healthcare facilities of all broad specialties and super specialties free of cost to the community. It caters to the need of all strata of the society, from the poorest of the poor to the most affordable one. JIPMER is the number one center in the country in medical education and training and has been recognized by MCI as the Center of Excellence in medical education.

15.3.1 Medical Education

- JIPMER is committed to provide high quality medical care to all sections of society; it conducts under-graduate, post-graduate, super specialty and Ph.D. courses in various disciplines to train competent, caring and ethical medical professionals.
- The 6th Convocation of JIPMER was held on 16.07.2015. The Hon'ble Union Minister of Health and Family Welfare, Shri Jagat Prakash Nadda graced the occasion as the Chief Guest and the Hon'ble Chief Minister of Puducherry, Thiru. N Rangasamy was the Guest of Honour. The President of



Hon'ble Union Health & Family Welfare Minister, Shri J. P. Nadda awarding Degree to a student during 6th Convocation of JIPMER

the Institute, Padma Bhushan, Dr. M. K. Bhan presided over the function. During the Convocation degrees were awarded to MBBS, B.Sc., PG (MD/MS), DM / MCh and Ph.D., students who have successfully completed the course during the year 2013-14. Medals in various disciplines were also awarded - PhD: 06, MCh: 08, DM: 09, Fellowship: 04, MD: 67, MS: 36, MSc: 33, Post basic Diploma in Nursing: 41, MBBS: 102, BSc Nursing: 68 and BSc AMS: 44.

- Master of Public Health (MPH) course was started under the aegis of JIPMER International School of Public Health in January 2014 with annual intake of 30 trainees. The focus of the MPH programme is to strengthen the health systems of the country by providing high quality trained manpower in health management.
- Capacity of PG Education was increased from 145 to 200 seats in the year. It is also proposed to increase MBBS capacity from 150 to 200 MBBS seats from 2016.
- Institute of Allied Medical Science set up.
- JIPMER invested Rs. 2.5 crores in their library last year, including addition of journals & 1409 new books, to add to collection of 41,650 books in the central library & 6556 in the book bank. JIPMER library has recently completed set up of second computer lab with Wi Fi connectivity and additional journals at the cost of Rs.1.25 crores. The total budget allocation for 2013-14 is Rs. 4 crores for print/online journals and Rs.1 crore for books.

15.3.2 Medical Research

The total value of peer reviewed research grants funded and approved for funding currently is in excess of Rs. 20 crores – a phenomenal increase

and unprecedented in JIPMER's history. This includes funding from overseas to the tune of \$1.65 million. The funding agencies include ICMR, DBT, DST, INSERM, Indo-US Research Programme, World Diabetic Foundation among many others. The projects receiving funding in excess of Rs. 1 crore each include: Grade I ICMR virology network laboratory, establishment of Center for Surveillance of Antibiotic Resistance, Diabetes Research and Biomarkers of Drug Resistant TB. In order to maintain this trajectory for enhancing extramural funding, institute intend to at least double the intramural grants to above Rs. 2 crores in the coming year and set up an office of grants & contracts under Dean for Research. In order to bring in a central resource for basic and translational research, a new Multi-disciplinary Advanced Researched Centre (MARC) will be built during the coming year.

15.3.3 Patient Care Services

- The average outpatient & emergency room attendance exceeds 6000 patients per day and the total annual OPD attendance is 1,08,000. Institute admit over 70,000 patients and perform over 39 lakhs investigations annually. About 36,000 operations are performed annually, an increase of 1200 operations over the previous year.
- Some major patients care Initiatives are:-
 - Expansion of Super-Speciality Block.
 - Establishment of Geriatric Block.
- JIPMER established a Comprehensive Breast Care Center. The Departments of Surgery, Surgical Oncology, Medical Oncology and Radiation Oncology have all been involved in providing a rational treatment for women breast cancer. In order to make this care comprehensive, these specialties will work along with experts from plastic and reconstructive surgery and support staff such as a patient navigator, a genetic counselor and a physiotherapist, all in one location.
- JIPMER Telemedicine Programme grew rapidly during the last year; JIPMER is the nodal site for Medical College network for South India under National Knowledge Network. Ministry of Health & Family Welfare (MoHFW), Government of India designated Telemedicine Centre of JIPMER, Puducherry as Regional Resource Centre (RRC) & Mentor Institution for Medical Colleges of South India (Andhra Pradesh, Karnataka, Kerala, Tamil Nadu & Puducherry) under National Medical College Network (NMCN) Project of MOHFW. JIPMER Telemedicine received BMJ Award in 2014 for its Telemedicine activities. On 19th March 2015, to support JIPMER financially & upgrade existing Telemedicine Services, a MOU was signed by Director JIPMER with MoHFW, Govt. of India. With this support from MoHFW, JIPMER will be able to upgrade its Tele-Education and Tele-Patient care services.
- **Initiatives for Population Health:** JIPMER is always keen on health education to the patients and the general public. Medico-social Services Wing is continuously organizing health education sessions on various areas. JIPMER initiated holistic healthcare workshops for the chronic illness patients. The workshops were conducted for cancer, diabetes, hypertension patients and their caregivers. A team of multi-disciplinary healthcare professionals including physicians, psychologists, medical social workers, dieticians, physiotherapists, occupational therapists, yoga therapists were deputed for this purpose.

- JIPMER deputed a group of doctors from the Departments of Preventive & Social Medicine and Microbiology to assist with the medical team embarked in the flood relief measures at Jammu & Kashmir.

15.3.4 **Budget:** A sum of Rs. 350 crore under Plan and Rs. 249 crores under Non-Plan released.

15.3.5 Future Priority areas

- Establishment of JIPMER-2 at Karaikal
- Development of an innovative and forward looking under-graduate curriculum
- Infrastructure development for JIPMER International School of Public Health
- NABH/ NABL Accreditation of Laboratory services
- To expand Organ Transplant Programme
- Up-gradation of various specialities and super specialities
- Development of signage system, parking facilities and security services

The following infrastructure and project works are being considered under JIPMER Phase IV expansion:

- Construction of Public Utility Medical Mart
- Establishment of Drug Testing Laboratory
- Establishment of Pneumatic Tube Conveyer System
- Establishment of Multi-disciplinary Endoscopy Laboratory
- Establishment of Information Technology Wing
- Up-gradation of Trauma Centre and Burns Unit

- Establishment of Centre for Health Profession Education

15.4 VARDHMAN MAHAVIR MEDICAL COLLEGE (VMC) & 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 specialties. The hospital, when started in 1942, had only 204 beds, which has now increased to 1531 beds.

Safdarjung Hospital has a Medical College associated with it named, Vardhman Mahavir Medical College. The College was established at Safdarjung Hospital in November 2001 and the first batch of MBBS students joined the college in February, 2002. The college is affiliated to Guru Govind Singh I. P. University (GGSIP), Delhi. From 2008 onwards the post-graduate courses are also affiliated to GGSIP.

15.4.1 Patient Care Services

The hospital provides services in various specialties and Super Specialties covering almost all the major disciplines like Neurology, Urology, CTVS, Nephrology, Respiratory, Medicine, Burns & Plastic, Paediatrics Surgery, Gastro-enterology, 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. A Homoeopathy OPD and Ayurvedic OPD are also running within the premises of this hospital.

The Central Institute of Orthopaedics (CIO) is pioneering institute of its kind in India, providing comprehensive management to the patients in the field of Orthopaedics.

It has the following Specialized units:

- Spine Speciality Unit
- Arthroplasty & Lower Limb Trauma-I
- Arthroplasty & Lower Limb Trauma-II
- Arthroscopy & Sports Injury with Upper Limb Trauma
- Arthroscopy & Sports Injury with Lower Limb Trauma

At present CIO is providing advance & comprehensive treatment to lakhs of patients in its complex. The centre had an OPD Attendance of 155004 patients and operated 42488 patients in CIO emergency [major & minor surgeries (from 01/01/2015 to 31/12/2015)].

Redevelopment (Phase-I) works under Process: Super Speciality Block (with 430+125 beds), State of Art Private Block (206+22 ICU beds), Emergency Block (500 beds). The project has started and is likely to be completed by March, 2017.

Developments/activities in the past year

ORS(Online Registration System): Incompliance to Prime Ministers 'Digital India Week', to help patients, an Online OPD Registration System was started w.e.f. 15.10.15 which is available at www.ors.gov.in. A humble beginning was made by online registration of only two Departments, however, it is being extended now to most of the Departments on the computerized registration facility of the hospital.

Department of Physical Medicine & Rehabilitation at VMMC & Safdarjang Hospital, New Delhi is one of the oldest Rehabilitation Centre where comprehensive Rehabilitation services are available for short and long term care. Short term cases are those who have problems of pain in joints and muscles like various soft tissue conditions, spondylitis, arthritis problems, posture problems etc. while long term cases are children and adult affected by polio, cerebral palsy, amputation, stroke cases and spinal injury cases. The Department had an OPD load of 122956 in this year.

Indoor Services: On an average there are 4 referrals every day from different wards of hospital. These referral cases include Medical, Paraplegia, Stroke, Hansen's disease, Neurological cases, Amputation cases, Paediatric cases and post-operative cases from surgical specialties. These cases are provided rehabilitation services by this department till they are discharged. This work load is in addition to the sanctioned bed strength which is 14 beds so actual beds which are being looked after are more than 30. The number of indoor cases looked after by the department during the year 2015-16 was 203.

Department of Obstetrics and Gynaecology

The Department of Obstetrics & Gynaecology is the largest Department in Safdarjang Hospital, dealing with more than 30% of the total admissions of the hospital, and providing comprehensive medical care for safe motherhood, population stabilization and women's health in all stages of their life. The Department caters to women coming from all districts of the National Capital region and also gets referred patients from the neighbouring States. There are a total of 293 beds (227 obstetric beds distributed in six wards and 66 gynaecology beds distributed in two wards), two labour rooms, two nurseries for intensive neo-natal care, emergency and elective operation theatres with facilities for major and minor obstetric and gynaecological surgery.

The Department conducted 23805 deliveries and handled 41488 cases in the OPD. It carried out:

Major Gynaecological Surgery	1250
Minor Gynaecological Surgery	2223
Tubectomies	1120
Vasectomy	40
MTP	607
IUCD	4515

Department of Medicine

The Department of Medicine is one of the largest Department of Safdarjung Hospital & VMMC. The Department provides comprehensive healthcare 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 & G.E. clinic.

- Senior Residents : 32 Nos.
- Junior Residents : 02 Nos.
- PG 2012 : 20 Nos
- 2013 : 19 Nos.
- 2014 : 20 Nos.

Some of the major highlights of the Department are treatment of Dengue/Swine Flu cases. The Department has a separate EBOLA WARD and a 18 Bedded High Dependency Unit (HDU).

15.4.2 Medical Education

MBBS & Internship

- The institution presently has 150 MBBS/ Under Graduate seats affiliated with Guru Gobind Singh Indraprastha University.

Moreover, 200 seats are sanctioned for internship training.

- It also provides post-graduate education and has 181 seats for PG Degree courses and 22 seats for Super Speciality courses.
- Admission of 50% State (University) quota PG Degree seats and Super Speciality seats are being done by Guru Gobind Singh Indraprastha University (GGSIPU) and 50% seats for All India quota by DGHS.
- Institution also has 40 seats for DNB Broad Specialty, 12 seats of DNB Super Specialty and 02 seats of FNB (Sports Medicine).

SPORTS INJURY CENTRE (SIC) SAFDARJUNG HOSPITAL, NEW DELHI

- Sports Injury Centre, a unique centre of its own kind in India, has been providing integrated surgical, rehabilitative and diagnostic services under one roof for the management of sports injuries and related joint disorders since 26th September, 2010.
- The Centre is providing distinct and highly specialized surgeries in two different fields i.e. early Sports Injuries (Arthroscopy) and late sequel of Sports Injuries (Arthritis and Joint Replacement Surgery).
- The details regarding patient care services are as under:-

1.	OPD attendance including casualty attendance	57671
2.	In-patient attendance	1725
3.	No. of surgeries undertaken	1724
4.	Minor Surgical procedure	4205
5.	Physiotherapy	41034
6.	Psychology clinic	630

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

Introduction

The Lady Hardinge 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 for Medical Education for MBBS girl students.

The Hospital statistics for the period 2015-16 (till date) is as under:-

UG Seats	200
PG Seats	142
Bed Strength	877
OPD Attendance	670747
Indoor Admissions	35602
Bed Occupancy	75.9%
Surgeries Performed	
Major	7498
Minor	8267
Total	15765
Deliveries conducted	13192
New Born	13471

Gynaecology department of LHMC is on 5th position among Best Hospitals of India as judged by The Week.

National Skills Lab for Obstetrics at Lady Harding Medical College Hospital was launched.

15.6 DR. RAM MANOHAR LOHIA (RML) HOSPITAL

The Hospital, originally known as Willingdon Hospital and Nursing Home, renamed as Dr. Ram Manohar Lohia Hospital. Starting with 54 beds in 1954, the hospital has been expanded from time to time to meet the ever-increasing demand of patient to 1500 bedded hospital. 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 hospital provides healthcare services to approx. 15.83 lakh outdoor patients and admitted around 67379 indoor patients upto November, 2015. About 2.90 lakh patients were attended in the Emergency and Casualty Department. The bed occupancy during the same period in the Department of Medicine, Surgery, Pediatrics and Gynae & Obst. was 74.2%, 67.6%, 72.4% & 73.5% respectively.

The total number of Radiology cases & Lab. tests carried out during the above said period was 2,13,690 & 98,45,026 respectively.

Emergency & Trauma Care Services

A well-established Coronary Care Unit (CCU) and an Intensive Care Unit (ICU) exist in the hospital for serious Cardiac and Non-Cardiac patients. The Hospital has a comprehensive trauma care facility with 74 beds at the Trauma Care Centre.

Recent achievements of the Hospital

The following are the latest additions of the patient care facilities in the hospital:

- **Renal Transplant:** Renal Transplant has been started on live related donors and 29 Renal Transplant Surgeries have been done so far.
- The Hospital's School of Nursing was set up in 1963 with intake of 25 students per year has been now upgraded into College of Nursing with a capacity of 50 students per year.
- To provide state of the art Emergency Medical Care, a new Emergency Care Building has been constructed with the provision of 284 beds including 57 ICU Beds and 3 OTs which became fully functional.

- The Hospital has started e-diploma course DHLS (Diploma in Hearing and Learning Speech) in association with All India Institute of Speech and Hearing (AIISH) Mysore in which 20 students are trained each year. Till now, the Hospital has conducted three courses.
- The Hospital has also started a PG Diploma in Hospital Administration (PGDHA) in collaboration with IGNOU on distance learning basis. This is one year diploma course in which 30 students are admitted. This is ninth (2016) course in a row.
- Dr. Ram Manohar Lohia Hospital has been allotted an additional land measuring 2.2 acres at G-point adjacent to the Hospital by L&DO. A plan has been drawn for creation of Super Specialty Building at this site at cost of Rs. 724 crores.
- The tentative financial outlay of this facility is as under:
 - Rs. 506 crores for construction of the project.
 - Rs. 218.88 crores for equipment.
- Construction of Maternal Care Centre, Lady Doctors Hostel are proposed.

Post Graduate Institute of Medical Research (PGIMER): Post Graduate Institute of Medical Education and Research started functioning from the Academic year 2008-2009. At present, it has 101 seats of PG Degree/Diploma Courses and 32 seats for Super Speciality course.

BUDGET: A sum of Rs. 175 crores under Plan and Rs 280.00 crores under Non Plan was provided during the year.

15.7 KALAWATI SARAN CHILDREN'S HOSPITAL, NEW DELHI

Kalawati Saran Children's Hospital is a premier referral Children's Hospital of national importance.

The Hospital started 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.

Kalawati Saran Children's Hospital is one of the busiest children hospitals in the country and caters to a daily OPD attendance of 800-1000 children and 80-100 new admissions per day from Delhi and neighbouring states. The hospital is a Sentinel Centre for Poliomyelitis, Tetanus and Measles. It has the unique distinction of having a separate Pediatric Emergency with direct inflow of patients. The hospital has also served as a training centre for ARI, UIP and other National Health Programmes.

Neonatal wing of the hospital, with 80 beds catering to 15,000 deliveries in a year, is the biggest neonatal unit in the country and is providing state of art services for premature and sick newborns including ventilator care.

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 for management of Severe Acute Malnutrition (SAM).

The Hospital statics for 2014-15 are as under:-

1.	No. of Beds	:	375		
2.	No. of Admissions	:	Male	Female	Total
			17896	11930	29826
3.	Bed Occupancy Rate	:	108.79		
4.	OPD attendance	:	Male	Female	Total
			50878	33919	84797
5.	Casualty	:	Male	Female	Total
			33151	22101	55252
6.	Total no. of Surgical Operation	:	Major	Minor	Total
			1339	2348	3687
7.	Neonatal & Nursery Care	:	1097		

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

The National Institute of Mental Health & Neuro Sciences (NIMHANS), Bangalore was registered as a society in 1974 on amalgamation of the Government of Karnataka Mental Hospital and All India Institute of Mental Health, Bangalore. The Central Government and State Government of Karnataka jointly finance the Institute. NIMHANS was declared as an Institute of National Importance in September, 2012. NIMHANS is governed by an Institute Body chaired by Hon'ble Minister of Health and Family Welfare, Government of India as President and Minister for Medical Education, Government of Karnataka as Vice President. This body is assisted by Governing Body, Standing Finance Committee, Academic Committee, Standing Selection Committee and Planning and Monitoring Board.

NIMHANS is a tertiary care hospital in the fields of psychiatry, neurology and neurosurgery with their allied fields and teaching, research and community oriented activities 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. During the year, more than 5 lakh patients from various parts of the country and across the world received medical care at the Institute for psychiatric and neurological problems. The Institute has 908 beds with 100 casualty beds exclusively for Neurosciences and 18 casualty beds for Psychiatric emergency Services.

15.8.1 Patient Care Services

Self-Sustaining Diagnostic Facility: Several new validated tests with enhanced sensitivity and specificity have been developed which provide high precision in clinical diagnosis, facilitating accurate treatment and early detection. Such services have tremendous impact on management

as they economize additional investigations, direct specific therapy and also reduce hospital stay. However, most of these tests are unavailable or expensive and unaffordable to our patient clientele who are from middle and lower socioeconomic status. Keeping this in mind, Self-Sustaining Diagnostic Facility—a new initiative for providing advanced diagnostic tests in neuromuscular and neuroimmunological disorders and CNS tumors from the Neuromuscular and Neuro-oncology Laboratories in Neurobiology Research Centre—has been started with support from the administration in the form of a seed grant and is running successfully benefitting number of patients.

Sakalawara Community Mental Health Center:

The Sakalawara Community Mental Health Center has been serving as the public laboratory for the National Mental Health Programme and other community mental health activities for over three decades. During the year under review, the campus and other facilities including cottages and therapy center have been renovated as a residential facility to house about 40 patients and their family members for short-term rehabilitation programmes—when they come out of acute problems and require longer stay in the hospital.

The mandate of NIMHANS is to facilitate capacity building and strengthen human resource development in different health care delivery systems. NIMHANS is actively committed to imparting advanced technical knowledge to medical, para - medical and nursing professionals to promote necessary skills and evolve employable manpower to meet the needs of the nation. NIMHANS has started two super specialty courses, DM in Neuropathology and DM in Addiction Medicine, from the academic year 2015-16.

NIMHANS hosted several international and national scientific conferences and stepped up

its research activities in various new projects and initiatives. A Centre for Addiction Medicine Complex encompassing Women's Treatment Wing, Drug Toxicology Laboratory and Virtual Knowledge Centre was established. The Institute has also established a state-of-the-art Digital Subtraction Angiographic facility and a state-of-the-art MR PET Scan Centre, first of its kind in the public sector and an Advanced Mass Spectrometer Facility (Orbitrap Fusion Tribrid Mass Spectrometer) for Clinical Proteomics. Heart Rate Variability monitors for autonomic nervous system; Near Infrared Spectroscopy for cerebral oxygenation; Video Laryngoscope for visualisation and intubation; transoesophageal echocardiogram in the operation theatres and ICU have been added to the surgical facilities. A new electrophoresis system has been installed in the Clinical Pathology and Hematology Section. The Department of Speech Pathology & Audiology at the Institute has started a new initiative – the auditory rehabilitation of persons with Primary Auditory Neuropathy (Auditory Neuropathy Spectrum Disorder) in which the interventions are tailor made to the individuals. A Multi-sensory Unit has been established under Occupational Therapy Section, Deptt. of Neurological Rehabilitation to provide training to children with autistic spectrum disorder, attention deficit hyperkinetic disorder and many others.

NIMHANS has also undertaken a nationwide survey to ascertain the status of Mental Health Resources in the country with the objectives to estimate the burden of mental, neurological and substance use disorders in a representative population of India.

15.8.2 Outreach / Public Education and Extension Activities

Centre for Public Health (CPH): In accordance with its mandate, CPH undertook several operational research activities in key public health

areas including road traffic injuries, harms to others from alcohol use, drugs and logistics and development of a manual for training of community health personnel, during the year. Various training programmes for health personnel were undertaken to improve service delivery for mental, behavioural and substance use disorders. As on 31 March 2015, medical officers from various Primary Health Centres at Kolar were trained and the training of community health workers has been initiated. Focused initiatives were undertaken with respect to assessment of industrial health systems and services within the district.

'Yuva Spandana' project aimed at providing health promotion services for youth anchored by District Youth Empowerment Centres was taken up in 10 districts of Karnataka. Around 142 sensitization programmes reaching 14,000 youths spread across 10 districts were conducted.

15.8.3 Specialist Clinics Services

Centre for Addiction Medicine

The Centre for Addiction Medicine (CAM) continued to expand its services during the year 2014-15. In response to the growing public demand for patient care, public awareness, community activity, research and policy, several new initiatives were initiated. Centre for Addiction Medicine Complex encompassing Women's Treatment Wing, Drug Toxicology Laboratory and Virtual Knowledge Centre was inaugurated by the then Hon'ble Minister of Health & Family Welfare, Government of India on 16 August 2014. Women's Treatment Wing is an exclusive 20-bed facility for women with substance use disorders. This centre offers individualized care in the form of medications, counselling, family interventions, and other client-based services. The Drug Toxicology Laboratory is fully equipped to carry out chemical tests to monitor drug abuse in patients with addiction and/or psychiatric

disorders. It has standardised 20 different screening tests and HPTLC (High Performance Thin Layer Chromatography), GCMS (Gas Chromatography-Mass Spectroscopy), ELISA based analysis of different drugs of abuse.

Virtual Knowledge Centre has been established for the use of multipoint video-conferencing, and transmitting training sessions to various centres across India and the world.

The Centre offers a comprehensive inpatient programme consisting of individual and family assessment, individually tailored treatments which involve pharmacological treatments for withdrawal and long term prevention of relapse, individual and group counselling, family counselling and intensive aftercare.

During the year 2014-15, CAM registered 3215 new patients and followed up 12257 patients face-to-face and 8158 via telephone. A total of 1070 patients were admitted to the CAM in-patient ward during the period for inpatient treatment. Five more beds (in single rooms) have been added to the existing 57-bedded male ward.

PM's 'Mann ki baat' (radio programme) on addiction: The CAM prepared a video on the importance of training experts in drug abuse treatment cessation and sent it to the PMO in response to the announcement inviting responses prior to the Hon'ble Prime Minister's address on addiction in the 'Mann ki baat' programme.

Academic Programmes:

“Virtual Knowledge Network”, an online capacity building facility, has been initiated by the Department of Psychiatry to develop and support the skilled mental health resources in the country. This was developed initially in the area of Addiction Medicine/Psychiatry and has now been extended to seminars and other academic

programmes of the department. The academic programmes, beamed across the country, are also available on the web portal.

15.8.4 Yoga – Mental Health & Neurosciences

The Advanced Centre for Yoga - Mental Health and Neurosciences was started in 2007 in collaboration with the Morarji Desai National Institute of Yoga, New Delhi (funded by the Department of AYUSH, Govt. of India) for promoting training and research in Yoga. Activities of the centre were essentially interdisciplinary involving all clinical and many basic science departments.

The center completed its original term in March 2012 and functioned in a limited capacity as a service till June 2014. In July 2014, the NIMHANS Integrated Centre for Yoga (NICY) was established to continue service, training and research activities related to yoga in mental health and neurosciences.

The following clinical services are currently being offered to patients and caregivers referred from NIMHANS clinical services:

- Yoga therapy services for psychiatric and neurological patients referred to NIMHANS Integrated Centre for Yoga.
- Regular yoga classes for inpatients at psychiatric wards of NIMHANS through trained nursing staff.
- Regular yoga sessions for caregivers of patients with psychiatric and neurological disorders.

Yoga sessions at Psychiatry Wards

The Centre is also running daily yoga classes at different psychiatric wards through nursing staff trained in Yoga. A yoga-based session with selected yogic asanas, pranayama and nadanusandhana techniques has been introduced in place of unstructured physical activity at both open and closed psychiatric wards. An average of about 15-20 patients participate in these yoga based sessions.

During the year 2014 (January to December) a total number of 9313 patients were seen at the Yoga Centre and 1221 were registered as new patients. In the year 2015 (January to December) a total of 13382 patients were seen and 1575 were registered as new patients.

Training activities

NICY conducted three Yoga Appreciation Courses lasting one month each for staff and students of NIMHANS from December 2014 – March 2015 in which more than 50 persons participated and received training in yoga. This was highly appreciated by the staff and students who attended, and NICY has planned to make this a quarterly feature in the coming year.

The Centre has also developed a video CD with the full yoga module for Schizophrenia for patients who have already been trained by the yoga therapists, which is being used for video sessions at the Centre as well as home sessions. Similar video tools are being developed for other disorders. A pilot tele-yoga session was recently trialed, which has potential for continued supervised training for patients who cannot attend the Centre.

As a pilot project for mental hospitals in India, the Centre also conducted a brief training course for two nurses from the Dharwad Institute of Mental Health and Neurosciences (DIMHANS) to teach specific Yoga modules to patients with mental disorders in March 2015. The Centre plans to expand this program to cover all mental hospitals in India in collaboration with the Department of Nursing, NIMHANS.

15.9 CENTRAL INSTITUTE OF PSYCHIATRY (CIP), RANCHI

Introduction

Central Institute of Psychiatry (CIP), Ranchi was established in 1918, under the name of Ranchi European Lunatic Asylum. In 1977 the hospital

was given the status of an Institute and was consequently given its present name i.e., Central Institute of Psychiatry.

15.9.1 Patient Care

The campus of the Institute is spread over 210 acres. It has a current capacity of 643 beds. There are a total of 15 wards (9 male wards & 6 female), an emergency ward and a family unit. Patients are not kept confined and can walk about 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. 3,920 patients (3214 males and 706 females) were admitted. 3909 patients were discharged (3203 males and 706 females). The average bed occupancy during the specified period was 83.3%.

The institute also runs a child guidance clinic and an independent 50-bedded child psychiatry unit since 1975. It caters the needs of psychotic children, children with developmental disorders and mental retardation. Parents are required to stay with their children for the duration of the treatment. 7170 patients (2011 new cases and 5159 follow-up cases) attended the outpatient department (OPD) for treatment. There were a total of 197 admissions and 196 discharges during the period under report.

The Institute has a modern S.S. Raju Centre for Addiction Psychiatry with a capacity of 60 patient

beds for the treatment of persons suffering from alcohol & drug related problems. 1029 patients were seen in the OPD in the De-addiction Clinic; 677 patients received admission in the De-addiction Centre while 655 were discharged.

The total number of cases seen on an outpatient basis was 70,786 (23,045 new cases & 47,741 follow-up cases) [including all psychiatry cases (Adult & Child), Staff OPD, Extension Clinics, Skin Clinic & Psycho-social OPD]. The total number of new psychiatry cases seen were 14127 (9546 males & 4581 females) while 45258 psychiatry follow-up cases were seen during this period (31715 males & 13543 females).

The Institute runs Extension Clinics which include the General Psychiatry Clinic at West Bokaro, Hazaribagh, Chandan Kiari, 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 outreach programme. The case-load in the extension clinics was 2845.

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, 614 general helpline calls, and 64 e-mails were received and attended.

15.9.2 Medical Education

The Clinical Psychology department at the Institute is the oldest independent department of Clinical Psychology in India. In 1962 a teaching course in Clinical Psychology – Diploma in Medical and Social Psychology was started (this course is now known as M.Phil. in Clinical Psychology). The course of Ph.D. in Clinical Psychology was started in 1972. At present, there are 12 seats in M. Phil (Clinical Psychology) and 4 seats in Ph.D. (Clinical

Psychology). The departmental faculty includes 6 Assistant Professors, 1 Clinical Psychologist, 2 Assistant Psychologists and 1 Laboratory Assistant. The Child Psychiatry Unit imparts training to resident doctors and postgraduate students in the field of child and adolescent mental health. In addition the Centre for Addiction Psychiatry acts as the nodal center in eastern India for manpower training and research in the field of alcohol and drug abuse.

The Department of Psychiatric Social Work runs an M.Phil. programme in Psychiatric Social Work. At present, 12 seats are available for M. Phil trainees.

The Nursing Education section of the Institute is responsible for training nurses to obtain the Diploma in Psychiatric Nursing (DPN) and giving clinical nursing experience to visiting nurses. The Number of visiting nurses who received training is as follows:

- M.Sc. in Psychiatric Nursing – 37
- General Nursing and Midwifery (GNM)/ ANM-625
- B.Sc. Nursing-481
- DPN-04.

The Institute currently offers Occupational Therapy (OT) 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.

The Centre for Cognitive Neurosciences was originally established in 1948, when it was known as the Electroencephalography (EEG) Department. The EEG Department initially had a 6 channel and then an 8 channel electro encephalograph machine. It is now called the Centre for Cognitive Neurosciences.

At present, the Centre has two sections – a clinical section and a research section. The clinical section possesses a 21 channel paper electro encephalogram, a 32 channel quantitative electro encephalogram and a 40 channel video electro encephalogram as well as equipment for recording an electromyogram (EMG), nerve conduction velocity (NCV), brainstem auditory evoked response (BAER) and the galvanic skin response (GSR). The research section possesses Dense Array EEG acquisition systems (64, 128 and 192 channels), Evoked Response Potential (ERP) acquisition units (40 channels), a 40 channel polysomnography (PSG) unit and a repetitive Transcranial Magnetic Stimulation (rTMS) unit. The Centre has acquired advanced signal processing software such as Advanced Source Analysis (ASA), Brain Electrical Source Analysis (BESA) etc. Total no. of tests done were 6259.

15.9.3 Medical Research

- 32 research papers published in international and national journals.
- 57 research papers presented in international and national conferences.

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 upgradation 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 upgradation of 13 existing State Government Medical Colleges/ Institutions (GMCIs) were taken up. Under Phase-II of PMSSY, AIIMS at Rae Bareli and upgradation of 6 are being taken up. Simultaneously, under Phase-III, 39 existing Government Medical College/ Institutions are being taken up for upgradation. In addition, setting up 3 AIIMS has been approved under Phase-IV. Upgradation of 12 existing GMCIs 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
1st Phase	6210	3097.62	9307.62
2nd Phase	2396	1031.5	3427.50
3rd Phase	5071	0	5071.00
4th Phase	4949	0	4949.00
Total	18626	4129.12	22755.12

15.10.2 Status on six AIIMS (PMSSY Phase-I)

Academic Session: Four batches of MBBS students totaling 350 and three 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-59; Bhubaneswar-69; Jodhpur-59; Patna-57; Raipur-65 and Rishikesh-50. Limited non faculty positions have been filled by individual AIIMS.

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 Bareli. 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 Bareli has started and is in full swing. 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 start-up OPD is in progress.

For the proposed AIIMS in West Bengal, the State Government has requested for setting up of the same at Kalyani.

15.10.4 Upgradation of Government Medical Colleges (Phase I, II & III)

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:-

15.10.5 Phase-I

Out of 13 medical colleges taken up for upgradation in the first phase of PMSSY, civil work at 8 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 and IMS, BHU, Varanasi has been completed.

In respect of Kolkata Medical College, construction of OPD Block, Academic Block taken up in the 1st stage and construction has been completed. As regard the Super Speciality Block which is to be taken up in the second stage of construction, work has been awarded in November, 2015. 99.5% of work has been completed at Srinagar Medical College. In regard to Sree Venkateswara Institute of Medical Sciences (SVIMS), Tirupati; Grants Medical College, Mumbai and B.J. Medical College, Ahmedabad; where upgradation involves procurement of medical equipments only, the

procurement process is likely to be completed by March, 2016.

15.10.6 Phase-II

Out of 6 Medical College institutions taken up for upgradation in the second phase, civil work involves 5 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 (99.5%);
- (iii) Government Medical College, Amritsar (99%);
- (iv) Pt. B.D. Sharma Post-graduate Institute of Medical Sciences, Rohtak (68%) 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 21% 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.77.81 crore has been released to the Institute.

15.10.7 Phase-III

The Central Government has approved additional 39 medical colleges under third phase of PMSSY- Upgradation on 07.11.2013. Based on Phase-I and Phase-II Implementation, HSCC/HLL/CPWD have been selected as project management and supervision consultants and executing agency for civil work at 39 medical colleges. Detailed project reports in respect of all the medical colleges, except Agartala Medical College, Tripura and Goa Medical College, Goa, have been approved.

15.10.8 Phase-IV

Hon'ble Finance Minister during Budget Speech for the year 2014-15 had announced setting up of four new AIIMS one each in Andhra Pradesh, Maharashtra, West Bengal and Poorvanchal in U.P.

The Cabinet has approved on 07.10.2015 for establishment of three new AIIMS at Mangalagiri near Guntur in Andhra Pradesh at the cost of Rs.1618 crore, Nagpur in Maharashtra at the cost of Rs 1577 crore and Kalyani in West Bengal at the cost of Rs 1754 crore under the Pradhan Mantri Swasthya Suraksha Yojana (PMSSY), involving a total financial implication of Rs. 4949 crore. Time frame for implementation is 5 years from the date of approval by Cabinet.

MoU between MoHFW and Govt. of Andhra Pradesh/West Bengal have been signed.

Upgradation of GMCIs announced in 2014-15

12 existing Government Medical Colleges/ Institutes (GMCI) to be taken up for upgradation under Phase-IV of PMSSY) has been identified. Draft EFC Note to this effect has been circulated to all appraising departments viz. Department of Expenditure and NITI Aayog.

15.10.9 New AIIMS announced in 2015-16

Hon'ble Finance Minister during Budget Speech for the year 2015-16 has announced setting up of six new AIIMS one each in Assam, Himachal Pradesh, Jammu & Kashmir, Punjab, Tamil Nadu and Bihar.

Hon'ble Prime Minister has also approved and announced on 7th November, 2015 development package for Jammu & Kashmir which includes creation of AIIMS (2 AIIMS including the one announced during the Budget Speech for the year 2015-16) like institutions for healthcare in capital cities of J&K. Site of Bathinda has been finalised for location for new AIIMS in Punjab.

