

Central Medical Institutions and New AIIMS

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

Introduction

All India Institute of Medical Sciences New Delhi (AIIMS) established in 1956, is an Institution of National Importance (INI) and a Centre of Excellence. It is an autonomous institute under MoHFW. AIIMS has discharged its role as clinical provider, research institute and teaching institution with considerable accolades over the past 6 decades.

15.1.1 Medical Education

Under the AIIMS Act 1956, AIIMS is offering education to the students in various Under Graduate

and Post Graduate courses. The undergraduate courses include MBBS, B.Sc. (Hons.) Medical Technology in Radiography and Ophthalmic Techniques, B.Sc. Nursing (Post-certificate) and B.Sc.(Hons) Nursing, Post Graduate courses include PhD, DM, MCh., MD, MS, MDS, MHA, M. Biotechnology (M. Biotech) and M.Sc. courses in different disciplines.

15.1.2 Patient Care

In the year 2017-18 till June, about 5.09 lakh people visited OPDs and 29,515 surgeries were performed and 33,177 people got admission at AIIMS in Main Hospital, Cardiothoracic and Neurosciences Centre (CNC) and Centre for Dental Education and Research (CDER). Details given in Table A.

TABLE A

Sl. No.		2017-18 Upto June, 2018		
		Main Hospital	CNC	CDER
1	Hospital Beds			
	• General	988	359	17
	• Private	165	63	
	• Total	1,153	422	17
2	OPD Attendance Including Emergency	5,08,846		
3	Inpatient Attendance	27,634	5,157	386
4	Surgical Procedures			
	• Major	4,509	1674	198
	• Minor	17,779	50	5,309
	• Total	22,288	1724	5,507

- Department of Laboratory Medicine has installed Automated Phlebotomy Tube Labeler (APTL) Machine at Central Blood Collection Centre and flow cytometric screening of leukemic patients.
- Department of Physical Medicine and Rehabilitation have augmented the facility for diagnostic musculoskeletal ultrasonography.
- Department of Neurosurgery started robotic guided, placement of depth electrodes for

diagnosing epilepsy. Radiofrequency ablation of hypothalamic hamartoma with the aid of a robotic arm system was also carried out for the first time in India. Department of Neurosurgery has conducted first stage of disconnection surgery in craniopagus twins, performed first time in India.

- Department of Microbiology initiated identification of bacteria, fungi and mycobacteria using latest method of protein profiling using MALDI TOF (Matrix Assisted Laser disruption Time of Flight) assay.
- Department of NMR and MRI along with Department of Urology and Radiology had started a new procedure of patient care using MR Guided biopsy for prostate cancer patients for the first time in India.
- Department of Obstetrics and Gynecology has started operative gynecological endoscopy and minimally invasive approach including robotic surgery.
- Department of Dermatology has started photo-dermatology and paediatric dermatology clinic.
- Department of Transfusion Medicine:
 - i. Therapeutic plasma exchange services strengthened with the addition of high volume of plasma exchange and immunoadsorption for ABO antibodies to support ABO incompatible transplants.
 - ii. Inventory of extended phenotype blood products started in addition to routine blood products to provide timely blood products to allo-immunised patients especially in emergencies.
 - iii. Extended phenotype matched blood products to thalassaemic patients.

15.1.3 Medical Research

Research is a major thrust area for the faculty and scientists of the AIIMS and towards this the Research Section plays an important facilitator role by providing encouragement for obtaining extramural research projects funded by various national/international

agencies like ICMR, DST, DBT, CSIR, MoHFW, WHO, Wellcome Trust and inter country scientific collaborations. The technology transfer and patent cell guides the faculty/scientists towards IPR and filing appropriate patents. Various achievements /activities of the institute in the field of medical research are as under:

- NCI AIIMS has signed MoU's for collaboration in translational research with Ministry of AYUSH, Government of India, DST/DBT/NICPR/NII/DHR/AIPH India, NIH/NCI USA, IUCT Oncopole/FAM France, BCI Queen Mary UK etc.
- Department of Physiology has signed two MOU with Govt. of Andhra Pradesh to set up Sleep Labs and other with University of California at San Diego (USCD) to pursue research in Space Physiology.
- The Ocular Pharmacology section has filed two (one design and another full) patent for the innovation of a new transfer device for sterile eye drop dispensing.
- WHO-AIIMS RP Centre Collaborative fellowship started in June, 2017.
- 85 nos. of workshops/conferences have been held from April, 2017 to till September, 2017.
- Short term training, elective training and WHO training of 12, 14 and 2 foreign nationals respectively were conducted.
- Short term training and elective training of 303 and 03 Indian citizens were conducted.
- A total of 20 students (PhD. Students, Junior Residents/Senior Residents) were awarded international travel grant under AIIMS endowment Fund during 2016-17.
- 5 International faculty visited AIIMS.

15.1.4 Achievements

- A night shelter "Power Grid Vishram Sadan" has been constructed with a capacity of 300 beds for the patients and relatives of AIIMS main hospital and Dr. Rajendra Prasad Centre (RPC) of AIIMS, New Delhi.

- Newly constructed hostel for residents has been made functional and hostel accommodations have been provided to residents.
- Ocular plaque brachytherapy service was introduced for the first time in North India and the first Government set up in India and is now fully functional at Rajendra Prasad Centre (RPC), AIIMS.
- Video based learning resources have been created using AIIMS eLearning Facility AIIMS eLF.
- RPC has introduced state of the art Small Incision Lenticule Extraction (SMILE) technique for laser surgical refractive correction first in government teaching institute of the country.
- RPC initiated the most advanced technique of component corneal surgery that is Descemet Membrane Endothelial Keratoplasty (DMEK) for patient suffering from endothelial disease.

15.1.5 Budgetary Support

A budgetary support of Rs. 2400.00 crore under BE & Rs.133.31 crore under Oversight Committee were provided by the Government during the financial year 2017-18. The major heads of expenditure include infrastructure, machinery and equipment, salary payments and consumables

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

Introduction

The Postgraduate Institute of Medical Education and Research, Chandigarh was declared an Institute of "National Importance" and an Autonomous Body under MoHFW, funded by the Government of India

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 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 Hospital Services

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. Research activities have been undertaken in the field of hospital administration.

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 few years is as under:

Patients Attendance	01.04.2017 to 31.08.2017	2016-17
Outdoor	11,70,296	25,55,455
Indoor Admissions	40,266	89,584

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

Surgeries	01.04.2017 to 31.08.2017	2016-17
Minor	78,245	1,69,243
Major	19,849	44,918

Emergency and critical patients are attended to round-the-clock.

15.2.2 Emergency Services

The Emergency complex and advanced trauma centre provides all medical and surgical services including investigations and operations under one roof. The emergency services are supervised by the Assistant Professor, Department of Hospital Administration and assisted by Senior Medical Officers (Casualty).

They are responsible for dealing with medico-legal cases providing poor free services to deserving patients and supplying life-saving medicines and consumable items. The emergencies are managed by medical/surgical and super-specialty consultants and senior residents. A disaster area having cupboards containing equipment and life-saving drugs has been earmarked and is used for treating mass casualties. A well-equipped VIP room is maintained to meet any emergency situation in case VIPs are brought to the Emergency.

	01.04.2017 to 31.08.2017	2016-17
OPD	47,401	99,201
Admissions	19,771	44,388
Major Surgeries	7,650	16,862
Minor Surgeries	1,485	3232

15.2.3 Research

The Institute has excelled in all the three areas i.e. 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 11,70,296 outpatients and 40,266 admissions from 01.04.2017 to 31.08.2017. 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 1276 papers during the year and 282 scientists were awarded fellowships, orations and other national and international awards. Last year various departments of the Institute completed 220 research projects funded by DST, WHO, DBT, ICMR and other outside agencies and 637 research projects were being continued and supported by national, international and PGI research funds.

15.2.4 Academic Activities

PGIMER 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 from 01.04.2017 to 30.09.2017, the Institute has awarded 12 Ph.D degrees, 103 MD degrees, 39 MS degrees, 29 DM degrees, 23 M.Ch degrees, 08 M.Sc/M.Sc Medical Lab. Technology degrees, 08 Master of Public Health degree, 02 Master in Hospital Admn. degrees, 10 MDS degree, 48 B.Sc (Medical Technology) degrees, 16 M.Sc Nursing degrees. Further, 340 approximately numbers of candidates have joined various Postgraduate/Postdoctoral courses during the session July & September, 2017.

15.2.5 Engineering Wing

During the current financial year, the following major activities were undertaken under different schemes by the Engineering Department, PGIMER, Chandigarh:

- **Setting up of Satellite Centre of PGIMER, at Sangrur Punjab:-**

The work of Phase I-A i.e. temporary OPD and guest house have been completed. OPD services have been made operational and around 400-500 patients of the area are visiting daily. The work of construction of phase 1B i.e. hospital building, OPD Block and other residential and non-residential building is under full swing.

- **Upgradation of HVAC system of Operation Theatre Complex, Nehru Hospital, PGIMER, Chandigarh.**

In order to provide original environment to the patients and doctors, project of up gradation of HVAC system of operation theatre complex in Nehru hospital was completed in March, 2017 and the same has been handed over to user department and system is working satisfactorily.

- **Replacement of Air Cooling System with Air Conditioning (HVAC) system in New OPD Block, PGI, Chandigarh:**

With a view to provide better environmental conditions to the patients, attendants visiting OPD a Project for Replacement of Air Cooling system with Air Conditioning System in New OPD Block of the Institute is in progress and the same would be completed shortly.

15.2.6 Achievements of the Institute in 2017-18

- The Department of Pediatric Surgery, Postgraduate Institute of Medical Education and Research, Chandigarh, has started doing Pediatric Robotic Surgery.
- An Advanced Microbial Research Facility has been inaugurated in PGIMER. The first laboratory will study neglected bacterial diseases including rickettsial infections like scrub typhus, leptospiral infections and other diseases like bartonellosis caused by bacteria which are difficult to isolate resulting in lack of good diagnostic tests and understanding of the epidemiology and preventive approaches.
- The Institute accomplished a major milestone and became the first institute in this region to conduct the lung transplant by successfully performing its first lung transplant surgery.
- Renal Transplant Surgery department conducted 56 cadaveric kidney transplants in first seven months of 2017. 31 cadaveric donations took place in the year 2017 till 31.08.2017.
- ROTTO, PGIMER launched ten (10) day long campaign on Organ Donation.
- 316 pairs of eye donated to the Institute from April, 2017 to August, 2017.
- In collaboration with Chandigarh Commission for protection of Child Rights, School of Public Health, PGIMER and the George Institute for Global Health (TGI), a “Salt Literacy Campaign” has been launched in schools of Chandigarh in order to spread awareness and sensitize school children and their families on the harmful effects of excess salt in our diet. The pilot advocacy project will roll out in eight schools of Chandigarh and take the message of consuming less salt to school children.
- Under the Swachh Bharat Abhiyan and Kaya Kalp, first time in the Institute approximately 103 ton old record of various departments has been disposed off against supply of recycled paper to the institute. The paper was collected

by paper mill for pulping and manufacturing the paper.

- From 01.04.2017 till date a total of 20749 beneficiaries visited Staff Clinic to avail curative services. Besides, preventive and promotive services in the form of Hepatitis B Vaccination to 298 beneficiaries (including contractual employees), medical examination of 164 food handlers of Dietetics Department and Employee Welfare Canteen (as per FSSAI Regulation, 2011) has also been done till date.
- Drugs worth Rs. 165.84 lakhs for poor patients were purchased under various funds.

15.2.7 Medical Disability Board

The Institute has been implementing the 3% reservation meant for persons with disabilities in all the categories of Group A, B, and C (direct recruitment) posts, as per instructions of the Govt. of India. Out of total 143 persons with disabilities vacancies, 105 numbers of various categories of staff under PwD are working at this Institute. During the year 2017 to till date, 24 number of posts meant for persons with disabilities under special recruitment drive have been filled up.

15.2.8 New Proposals

MoHFW has approved following three projects at estimated cost of Rs. 1178.30 Crore:-

- Setting up of PGIMER Satellite Centre at Una, Himachal Pradesh at an estimated cost of Rs. 495.30 Crore.
- Setting up of 300 bedded Advanced Neurosciences Centre at PGIMER, Chandigarh at an estimated cost of Rs. 380.00 Crore.
- Setting up of PHASE-I (300 Beds) of Advanced Mother and Child Centre at PGIMER, Chandigarh at an estimated cost of Rs. 303.00 Crore.

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

Introduction

Jawaharlal Institute of Postgraduate Medical Education and Research (JIPMER) can 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 the hospital was inaugurated in 1964.

JIPMER is among the very few institutions in the country which is providing teaching from undergraduate to super-specialty & sub-specialties, conducting path breaking research and providing specialty care of the highest order. This makes JIPMER a centre of tertiary 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 specialty 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.

15.3.1 Medical Education

- i) JIPMER has about 300 faculty and 600 resident physicians and over 4000 nursing, administrative and support staff. Every year it admits 150 Under Graduate (UG) students and 200 Post Graduate (PG) students.
- ii) It has increased its UG Intake to 200 students (150 for JIPMER and 50 for Karaikal). In addition, post-graduate programs (MD/MS) are offered in 23 disciplines, Super Specialty programmes (DM/MCh) in 10 and 7 disciplines respectively, Ph.D. programs in 8 disciplines and Fellowship courses in 4 disciplines.
- iii) 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).
- iv) A foundation course is organized for the first year students of JIPMER; both Pondicherry & Karaikal campuses. This is a six week long programme stressing mainly on language,

communication skills and interpersonal relationship skills. The programme is conducted for a period of 6 weeks in July and August, 2017.

- v) The eighth convocation of JIPMER was held on 5th September, 2017. Secretary, Department of Health Research and Director General ICMR, Dr. Soumya Swaminathan was the Chief Guest of the convocation. A total of 360 Graduates and Post-Graduates from various Medical streams (Ph.D., M. Ch., D.M., Fellowship course, M.D., M.S., & MBBS) were eligible for award of their degrees. However, 313 students (in person 262 & in Absentia 51) received their degrees in the Convocation. Endowment Medals to 47 Under-Graduates and 38 Post-Graduates was distributed.



8th Convocation of JIPMER on 5th September, 2017

15.3.2 Medical Research

- i) JIPMER celebrated its Third Annual Research Day on 10th and 11th September, 2017. Dr T Ramasami, Former Secretary, Department of Science & Technology, Government of India inaugurated the Research Day and released a Souvenir in the presence of Dr SC Parija, Director, JIPMER.



3rd JIPMER Research Day

- ii) Symposiums on “Recent advances in Neurology” and “Research in Mental Health Sciences: Challenges and Opportunities” were held during 10th -11th September, 2017.
- iii) BIMSTEC research priorities was held in which BIMSTEC representatives and JIPMER research group jointly discussed on the objectives and action plan.
- iv) The institute has sanctioned intramural grant of about Rs. 2.62 crore to junior researchers for carrying out research projects in their area of interest; and the intramural grants for junior researchers have been progressively increased. This policy has paid off and senior researchers in JIPMER have brought in nearly Rs. 7.80 crore as grants for research.
- v) An MoU was signed in April, 2017 between the JIPMER and Deakin University, Australia. Areas of interest identified were Neuro psychiatry/Neuro science, Nursing, Public health/Rural health, Cancer chemotherapy. A programme of cooperation through Ph.D. programme was agreed.
- vi) Six patents were filed till August 2017: Five by faculty and the other, a joint work of third year MBBS students and faculty.



JIPMER BIMSTEC Telemedicine Network

- vii) JIPMER-BIMSTEC Telemedicine Network (JBTN) was launched on July 13, 2017 and inaugurated by Shri. Faggan Singh Kulaste, Hon'ble Minister of State, Ministry of Health

and Family Welfare. All seven countries of BIMSTEC region were linked by video conferencing during the event. The aim of JBTN is to improve regional cooperation in the field of healthcare by strengthening telemedicine based patient care services and share medical knowledge among BIMSTEC countries. JBTN will enable health professionals from the member countries to interact regularly with each other and improve their knowledge which will ultimately translate into improved access to health care especially to those residing in remote areas or the areas where there is shortage of trained manpower.

- viii) JIPMER hosted CONNAISSANCE, the First International Undergraduate Medical Students Conference from 21st to 23rd of April, 2017, at JIPMER. CONNAISSANCE is a national forum for intellectual discussion and productive confluence of young undergraduate medical students from India and abroad, aiming to elevate medical academics to the next level.

15.3.3 Patient care services

- i) 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.
- ii) 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

- i) 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. Recently JIPMER has obtained permission from MoHFW to start liver transplant and inspections are on the way for tissue transplantations also.

- ii) The Standing Finance Committee, JIPMER has approved the proposal for setting up a Centre for Multidisciplinary Robotic Assisted Minimal Access Surgery.
- iii) JIPMER has remote online bedside monitoring system established in tertiary burns unit of the Department of Plastic Surgery. Two way communication system is being done in most of the intensive care units for patients, visitors and relatives communication, and monitoring and infection prevention.
- iv) JIPMER has established advanced surgical simulation center in the Department of Surgical Gastroenterology. JIPMER is the only centre in India which has RoSS robotic trainer. The state of the art simulation center established in JIPMER has ultrasound scan simulator, three virtual reality laparoscopic surgery simulators with real touch feeling, advanced ROSS robotic surgery trainer and nursing care simulator. JIPMER has also recently acquired Robotic surgery system Da Vinci Xi.



Robotic Surgery started in JIPMER

- v) In JIPMER, Hospital Information System, a module on asset management system has been introduced to help maintain the inventory of equipment available along with the service schedules, breakdown logs.

15.3.5 Institute Role in Medical Community

- i) 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 Puducherry).

- ii) JIPMER is the mentor institute for AIIMS Raipur and AIIMS Bhopal and has set up a second campus for an independent medical college at Karaikal.
- iii) JIPMER also has functioning telemedicine emergency consultation programmes for Sabarimala Pilgrimage.

15.3.6 Achievements of the Institute in 2017-18

- i) A multi-disciplinary team performed first bilateral hand transplantation surgery. The organs were harvested from a 50 year old brain dead patient and were transplanted on to a 16 year old bilateral below elbow amputee. The effort got accolades from Union Minister of Health and Family Welfare, Shri Jagat Prakash Nadda.
- ii) JIPMER gets 'Big Pondy Pride Award' for being the best multi-specialty hospital in Puducherry. The award was instituted by 92.7 Big FM based on public voting.
- iii) JIPMER has moved a step forward by performing its first Cytoreductive Surgery and Hyperthermic Intraperitoneal Chemotherapy (HIPEC) in the Department of Surgical Oncology.
- iv) A new indigenous cobalt-60 machine for the treatment of cancer patients has been installed in JIPMER.
- v) Plastic surgery department of JIPMER has acquired a 3D-printer. The availability of 3D printer will enable the department to provide better fitting prosthesis to patients at a cheaper cost and reduce their dependence on external services.
- vi) JIPMER established the new casualty telemedicine centre, Dial JIPMER Service and ISRO Sabarimala project which were inaugurated by the Director on 11th August 2017.

- vii) JIPMER has been awarded '2016 Smile Train Global Leader'.

15.4 VARDHAMAN 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. 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 MoHFW and receives its budget from the Ministry. Safdarjung hospital has a Medical college associated with it named Vardhman Mahavir Medical College since November, 2001 and a Sports Injury Centre (SIC) started on 26th September, 2010 to provide integrated surgical, rehabilitative and diagnostic services under one roof for the management of sports injuries and related joint disorders.



There is a 24 hour laboratory facility besides round the clock ECG, Ultrasound, X-ray & CT Scan services. The departments of Obstetrics & Gynaecology and the burns have separate, independent causalities. The hospital also provides the services for cardiac catheterization, lithotripsy, sleep studies, endoscopies,

arthroscopies, video EEG, spiral CT, MRI, colour Doppler, mammography and BAC T ALERT microbiology rapid diagnostic system. The hospital has added a new cobalt radiotherapy unit for the department of Radiotherapy. Hospital statistics during 2016 is given below:

Sl. No.		Year 2016
1.	Admission	1,68,937
2.	Major Operations	27,833
3.	Minor Operations	75,127
4.	No. of Lab investigation	71,41,026
5.	OPD	31,11,973
6.	No. of Deliveries	27,233

The patients' attendance and surgeries during the current financial year 2017-18 (up to 31st August, 2017):

1.	OPD Attendance Including Casualty attendance	74,042
2.	Inpatient Attendance	2,179
3.	No. of surgeries undertaken	2,010
4.	Minor Surgical procedure	5,267
5.	Physiotherapy	47,977

Achievements of 2017

1. Online Registration System (ORS) for the patients for Medicine, ENT, Eye, Surgery, Gynaecology, Paediatrics has been started in Safdarjung Hospital in 2016 and a separate window (No. 5) has been allotted for ORS patients for procuring slips and has been functioning satisfactorily.
2. Special Clinic of Medicine, Surgery, Gynaecology, Paediatric are running in main OPD in the afternoon.
3. 25 wheel chairs and trolleys have been added for the patients.
4. Two important equipment were received in Pediatric Surgery Department i.e. Pediatric Bronchoscope and Pediatric cystourethroscope

5. Toll free line (24*7) 1800114770 is provided in NOTTO (National Organ Tissue Transplant Organization)
6. IVF centre has been created in Gynae department
7. Cochlear implant programme has been initiated in Department of ENT
8. The new Biomedical Waste Management & Handling Rules 2016 have been implemented
9. Hospital has been recruiting persons with disabilities in services. Recently, three Visually Handicapped persons have been recruited and joined the hospital
10. A CIO advanced spine course was organised by CIO and Anatomy deptt. in March, 2017
11. A seminar was organized on Nurse-Led Heart Failure Management programme on 02.09.2017
12. The digitalization of medical records has also been started.
13. Organ Donation
 - a) from Brain Stem Dead patients – 10 nos.
 - b) Corneal tissue collected – 111 nos.
 - c) Corneal tissue utilized in the Hospital– 20 nos and transferred to AIIMS for utilisation – 90 nos.
 - d) Kidney (live and Cadaver) – 22 (18 live and 04 cadaver)



Pictures of Retrieval of Organs from Brain Stem Dead patients



Pictures of ongoing transplant

This hospital has also facilitated the family members of such Brain stem Dead patients.

14. A "Swachhta Hi Seva Hai" campaign was launched in Safdarjung Hospital and a rally was organised on 15.09.2017 and officers of all departments participated and took pledge for clean maintenance of the hospital.



Redevelopment Works under Process:

- The hospital is being upgraded and redevelopment work under (Phase-I) is already under process. It comprises of super specialty block (with 430+125 beds), state of art private

block (206+22 ICU beds), emergency block (500 beds). The project has started with foundation stone laid on 21st February, 2014. The building structure of emergency block is completed though the building structure of super speciality block is almost completed. The emergency block is ready for Commissioning.



New emergency block

- Under Phase-I, 408 posts on regular basis and 2764 posts on outsourcing posts have been created. Action has been initiated to recruit personnel's against these regular as well as outsourced posts.
- 222 posts of Senior Resident (SR) & Junior Resident (JR) have been created
- The following machines have been procured:
 - Anaesthesia machines
 - T Tables
 - Electro-surgical unit for Dithermy
 - C T Scan machines; DSA; Lab
 - Items for Blood Bank, Pathology, Microbiology
 - Out Analyser for Biochemistry
 - Ventilators and Monitors

Tender process is under progress for further procurement of machinery and equipments, furniture etc.

New Initiatives

The new works carried out by CPWD in Safdarjung Hospital in year 2017-18 (completed or near completion) through estate section of this hospital, are as under:

- Renovation of ward-1 female surgical ward and creation of 06 bedded HDU
- Providing kota stone pavement in corridors adjacent to X-ray department at H-Block
- Urgent repair of cadaveric tank
- Modification of existing space for H1N1 laboratory
- Urgent repair work of VMMC 3rd floor to 6th 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
- Online Registration System has been started and HIMS of Entire Hospital is in process,
- Providing & fixing central air-conditioning in Lecture Theatre
- Providing & fixing central air-conditioning in B & C wing of OPD 5th floor
- Providing & fixing central air-conditioning in Ward 8 & 9.

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

Introduction

The Lady Harding Medical College, New Delhi, established in the year 1916, has matured as a pioneering Institute for Medical Education for MBBS

girl students with 200 undergraduate admissions and 142 PG Students in various specialties. The College affiliated to the University of Delhi has continued to admit students from all over India, as well as from foreign countries.

A. Smt. S. K. Hospital statistics for the period from 01.10.2016 to 30.09.2017 are as under:

1	Bed Strength	877
2	OPD Attendance	5,41,608
3	A/E Casualty	1,26,558
4	Gynae Casualty	20,367
5	Bed Occupancy	75.9%
6	Surgery - Major	8,413
	Surgery - Minor	7,633
7	Indoor Patients	36,720
8	Deliveries	12,596
9	New Born	12,907

B. Kalawati Saran Children's Hospital statistics for the period 01.10.2016 to 30.09.2017 is as under:

1	Bed Strength	375
2	OPD Attendance	2,54,070
3	Casualty	56,355
4	Bed Occupancy	113%
5	Surgery - Major	1,902
6	Surgery - Minor	2,719
	Indoor Patients	27,848
7	Neonatal & Nursery Care	895

C. Achievements

- Official website of LHMC started on 06.06.2017
- Construction of OPD registration counters, OPD toilet complex & toilet complex
- Newly constructed medico's cafe for undergraduate students

- Renovation of surgical ward
- Installation of electronic token system in OPDs of both associated hospitals
- Wards & campus fitted with LED lights
- Drugs store constructed in Kalawati Saran hospital.
- Establishment and operationalization of National Human Milk Bank at LHMC, inaugurated by Secretary Health in presence of Ambassador of Norway to India on 06.06.2017



National Human Milk Bank at LHMC Inaugurates by Secretary (Health) MoHFW in presence of Ambassador of Norway to India on 6th June, 2017

- Swachhta Pakhwada was observed from 15th September, 2017 - 2nd October, 2017
- Establishment of Quality Improvement Cell – QI Cell was established in Kalawati Saran Hospital in April, 2017
- Club foot clinic started by Kalawati Saran hospital.

15.6 DR. RAM MANOHAR LOHIA (RML) HOSPITAL

Introduction

Originally known as Willingdon Hospital and Nursing Home since 1932 and later renamed as Dr. Ram Manohar Lohia Hospital. The hospital has been expanded to on 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 MPs, Ex-MPs, Ministers, Judges and other V.V.I.P. dignitaries besides other general patients. The Nursing Home, including maternity nursing home, has 75 beds for the CGHS and other beneficiaries.

The hospital provides health care services to approx. 14.32 lakh outdoor patients and admitted around 60,783 in-door patients during the period from January, 2017 to September, 2017. About 2.84 lakh patients were attended in the emergency and casualty department.

The hospital has round-the-clock emergency services and have 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.

During the period from January to September, 2017 the bed occupancy in the Department of Medicine, Surgery, Pediatrics & Gynae. & Obst. are 78.7%, 74.2%, 79.1% & 78.5% respectively.

Further, the total number of Radiology cases & Lab tests carried out during the period January to September, 2017 was 1,56,928 and 4,98,960 respectively.

Services

The hospital provides services in various specialties and super specialties covering almost all the major disciplines such as Accident & Emergency Services, Anesthesia services, Dermatology, STD & Leprosy, Eye, ENT, Family Welfare, General Medicine, General Surgery, Gynecology & Obstetrics, Orthopedics, Pediatrics, Psychiatry, Physiotherapy, Physical Medicine and Rehabilitation, Dental, Neonatology, Neuro-surgery, Burns & Plastic Surgery, Cardiology, Cardio-Thoracic & Vascular Surgery,

Gastroenterology, Neurology, Pediatrics Surgery, Psychiatric Social Worker, College of Nursing, B.Sc, DPN, Urology, Nephrology, Endocrinology, Rheumatology, Respiratory Medicine, Diabetic Clinic, Asthma Clinic, Pre-Anesthetic Clinic, ART Clinic, ARC Clinic, Heart Clinic/Hypertension/CAD Clinic, Prostate clinic, Tumor board, etc.

In addition, the hospital has diagnostic services like Microbiology, Hematology, Cytology, Biochemistry, etc. New tests such as Phenytoin, Lithium, and Carbamazepine have been included in Department of Biochemistry in 2016. Pathology Lab has been upgraded as indicated below:

- 1) A decahead microscope has been installed this year in histopathology for simultaneous viewing of slides by ten persons—new teaching tool for postgraduate teaching and clinic-pathological correlation.
- 2) New IHC antibody panel for lymphoma, CNS tumors and soft tissue tumours has been added to the current list.
- 3) FISH workstation is being procured to start mutational analysis from early 2017, which would be of great help for prognosis and management of cancer patients.
- 4) Serum protein electrophoresis has been started which is presently being used for the diagnosis of plasma cell dyscrasias (plasma cell myeloma etc.). It can also be utilized in future for more investigations like urine electrophoresis, immuno-fixation electrophoresis, hemoglobin electrophoresis etc.

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

of India sanctioned a total of 28 PG degree/diploma seats and 2 seats in super-specialty courses. At present, it has 101 seats of PG degree/diploma courses and 28 seats for super specialty course.

Achievements

- A four storied (G+3) new building for Dharamshala with 42 nos. rooms & covered area of 2157.569 Sqm. inaugurated for patients and their relatives on 5th January, 2017.





- CNE Cell, Dr. RML Hospital organized World Health Day on 7th April, 2017. The theme of the programme was **“Depression-‘Let’s Talk.’** This was attended by experts from medical and nursing field from different parts of Delhi and shared their enlightening views in panel discussion on knowing and overcoming depression. An entertaining and informative short play on “Awareness on how to handle depression.” by doctors and nursing faculty was the attraction. Beautiful posters were displayed by participants from various hospitals in New Delhi and the best poster was awarded to poster presented by Kalawati Saran Hospital.
- Contract has been signed between HSCC (India) Ltd. and Dr. RML Hospital for construction of Doctors hostel at the cost of Rs. 181 crore. This hostel has provided 824 rooms to the doctors.
- To discourage the cash transactions e-payment has been started by the hospital. Initially 12 swipe machines have been working for payment of different tests.
- The hospital has focused attention towards the patient care and improved services. Many new and sophisticated types of equipment have been procured in the hospital to update the hospital services. This will considerably improve the patient care services and also reduce the waiting time for the patients. Several new disciplines are also planned to be added in proposed new super specialty block.
- Organized the Silver Jubilee Annual Conference of National Academy of Burns- India at PGIMER, Dr. RML Hospital, attended by over 250 delegates and had 12 foreign and over 50 national faculty from all over the country. The conference was preceded by a live operative workshop. The department also conducted two training programs on Burns for Doctors from different parts of the country under National Program for Prevention and Management of Burn injuries (NPPMBI).

Solar System

- The generation of electricity through solar system installed on rooftop is about to start after the installation of electricity meter.
- Department of Nephrology organized the World Kidney Day 2017 on 8th March, 2017 focusing on the “Kidney disease awareness”. 600 participants comprising of 100 CGHS doctors, nurses, dialysis technician & public

participated in the programme. The Chief Guest, DGHS addressed the gathering about the importance of the Kidney disease burden in the society and highlighted the rising the prevalence of Diabetes and Hypertension.

- Swachhta Pakhwarha was held at Dr. RML Hospital, New Delhi on 3rd February, 2017 and Hon’ble Minister of State Smt. Anupriya Patel graced the occasion.



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

Introduction

The National Institute of Mental Health and Neuro Sciences (NIMHANS) is a multi-disciplinary institute for patient care and academic pursuit in the field of mental health and neurosciences. NIMHANS was registered as a society in 1974 on amalgamation of the All India Institute of Mental Health, Bangalore and Government of Karnataka Mental Hospital. The Government of India, in recognition of its eminent academic position, growth and contributions, declared NIMHANS a 'Deemed University' in 1994. In 2012, NIMHANS was conferred the status of an 'Institute of National Importance' by an Act of Parliament.

NIMHANS is governed by an institute body chaired by the Hon'ble Union Minister of Health & Family Welfare, Government of India as President and Hon'ble Minister for Medical Education, Government of Karnataka as Vice-President. The Institute Body is assisted by Governing Body, Standing Finance Committee, Academic Committee and Planning and Monitoring Committee, etc.

Patient Care

NIMHANS remains committed to delivering the highest quality clinical care with an unwavering attention to the needs of the patients. Patient care services primarily reach out to the less privileged sections of the society. During the year 2016-17, about 5.4 lakh patients from various parts of the country and across the globe received specialised medical care for psychiatric and neurological problems. About 75 per cent of the patients received the treatment at no cost or at highly subsidized costs.

Particulars	2015-16	2016-17
Screening	1,17,478	1,16,984
Registrations	58,219	57,951
Follow-ups	2,55,479	2,77,475
Emergency Care	49,742	44,732
Admissions	16,325	16,457
Discharges	14,857	15,629
Deaths	921	819

Total capacity of beds: 932 (585-Psychitry, 289-Neurocentre, 58-Casualty)

More than 20 specialist clinics and services are being run by the Departments of Psychiatry and Neurology to render focused and targeted specialty care.

Human Resource Development

NIMHANS has always been on the leading edge of developing advanced programmes and adopting new technologies that help augment scientific research, enhance medical education, and create a better healthcare experience.

During the year 2016-17, 22 professionals completed Post-Doctoral Fellowship (in Child Mental Health, Child & Adolescent Psychiatry, Acute Care and Emergency Psychiatry, Geriatric Psychiatry, Obsessive Compulsive Disorder, Neurological Rehabilitation, Transfusion Medicine, Clinical Neurosciences & Therapeutics in Schizophrenia, Epilepsy, Movement Disorders, Neuro-muscular Disorders, Addiction Medicine, Neuro-pathology, Neuro-anaesthesia, and Neuro-critical Care) and 35 completed PhD (in Biophysics, Neurochemistry, Neuropathology, Neurology, Neurophysiology, Neurovirology, Neurosurgery, Nursing, Psychiatric Social Work, Psychiatry, Clinical Psychology).

A total of 213 candidates were declared qualified to receive degrees in various specialties: DM (Neurology), DM (Neuroimaging & Interventional Radiology), DM (Child & Adolescent Psychiatry), DM (Neuroanaesthesia), MD (Psychiatry), M.Ch (Neurosurgery), Diploma (Psychiatry), MPhil, MSc, BSc Degrees, Post-Basic Diploma and Diploma in Nursing.

Research

NIMHANS is synonymous with cutting-edge research that is both interdisciplinary and translational, facilitating practical applications for human and societal benefit. Research activities at the Institute take place in a wide range of departments, programmes, and centres, through active collaborations with various prominent regional, national and international agencies. The thrust areas of research continue to be:

- unravelling the molecular and sub-cellular mechanisms for disease process
- linking clinical status with structural,

- biochemical, immunological and serological abnormalities searching for biomarkers
- c) exploring genetic basis for disease causation
- d) developing prognostic and clinical predictors and diagnostic inventory/checklists

During the period 2016-17, a total of 845 scientific articles/communications were published (465 articles in International Journals, 222 in National Journals, and 158 other publications including monographs, manuals, chapters in books, articles in newspapers, etc.).

New Initiatives

Patient Care Services

- The Department of Neuro-anaesthesiology has expanded its intensive care facilities with the procurement of AIRVO 2 system featuring a humidifier with integrated flow source that delivers high humidified flows of air/oxygen mixtures to spontaneously breathing patients, through nasal interface and latest airway management gadgets (Ambu-scope, King Vision Video Laryngoscope Kit, CMAC Difficult Intubation Video Laryngoscope and Bronchoscope) that serve important purpose of safely securing the patient's airway both during elective and difficult airway scenarios. Anesthesia e-charting, data capture and storage system which improves accessibility to patient data, and permits anesthesiologists to focus on core patient management during perioperative period, has also been installed.
- The Department of Neuropathology has completed the digitization of records at brain bank. The process of uploading the record onto CloudLims, a brain banking software, is in progress.
- Neurology Out-patient services have been expanded through placement of faculty from the Department of Neurology in the OPD screening block, enabling the patients to receive neurology consultation the same day of their visit.
- Front-House patient Management (FHM), a new OPD services initiative, has been launched by the Department of Speech Pathology and Audiology to facilitate first-contact information to all patients referred for speech language and hearing consultation. With the introduction of the new system all patients get short consultation on the same day and depending on the logistics and length of stay planned by them. The patients are called for a detailed work up on an appointed day.

Laboratory & Diagnostic Services

- The Department of Neuro Imaging and Interventional Radiology (NIIR) has commissioned MR-PET imaging system and is being effectively utilized. Molecular imaging in simultaneous association with structural imaging is being increasingly used for the diagnosis of various neurological conditions in their early stages.
- Sample tracking software for Neuro-pathology Lab is being developed in collaboration with International Institute of Information Technology-Bangalore (IIIT-B). This mobile-based android software package, completely customised to the lab requirements of the Department of Neuropathology, would help in the process of tracking pathological samples real-time. Open source software has been used in the design and implementation.
- Self-sustaining diagnostic facility for providing advanced diagnostic tests in autoimmune and neuromuscular disorders and CNS tumors from the neuro-muscular laboratory & neuro-oncology laboratory in neurobiology research centre has been running successfully with support from the administration benefitting several patients. New tests have been introduced expanding the scope of tests for autoimmune and muscle disorders.
- Molecular genetic diagnosis for rare familial conditions like VHL disease and PCR-based diagnosis for Fragile X syndrome has been initiated by the Department of Human Genetics.

Rehabilitation Services

- ‘Swavlamban’ health insurance scheme for persons with disability including mental illness was launched by Ministry of Social Justice and Empowerment, Government of India. Psychiatric rehabilitation Services unit is working with new India Assurance Company Limited, to extend policies to the patients of NIMHANS under the scheme. Development of referral system via e-hospital for patients with severe mental disorders (SMDs) under SERWICE (Services for Enhanced Recovery with Intensive and Continued Engagement) has been initiated.

Telemedicine & Web-based Services

- The upgraded tele-medicine centre with state-of-the-art facilities for tele-consultation and for training doctors was opened by the Department of Psychiatry. Enhanced security measures for psychiatry patients were initiated in the hospital with identification wrist bands, biometric facilitated entry for staff and more intense safety precautions. Aadhar cards were provided for long stay patient. Gynaecological and dental check-ups and related treatment were also extended to them.
- A web-based platform was developed by the Department of Clinical Psychology to launch internet-based mental health service programmes, primarily in the form of self-care modules for mild and subclinical levels of common mental health problems (<https://www.echargementalhealth.nimhans.ac.in/>). Currently, an interactive and professionally assisted, self-care program for Depression, namely PUSH-D (Practice and Use Self-Help for Depression) has been uploaded on this website.

Infrastructure Expansion

- Child & Adolescent Psychiatry OPD building has been renovated with outdoor play area on the ground floor and other vital facilities.
- CCTV cameras have been installed throughout NIMHANS campus. Apart from the existing 130 cameras, 200 new cameras would be

installed. Live video feed from all cameras would be integrated and relayed to a central monitoring zone located in the administrative block.

- Intra-operative MRI OT Complex at the neurocentre was inaugurated by the Director, NIMHANS on 6th July, 2017.
- New complex of the NIMHANS Integrated Centre for Yoga (NICY) was inaugurated by Secretary, Health on 29th August, 2017 at AYUSH Block. The complex encompasses three yoga halls, two assessment rooms, and laboratory space for psycho physiological investigations.



Secretary (Health) inaugurating the new complex of the NIMHANS Integrated Centre for Yoga (NICY)

Academic & Capacity Building

- MSc in Biostatistics course has been started and counselling for the first batch (2017-2018) was conducted on 6th June, 2017.
- Post Graduate Certificate course of one year duration in Clinical Biochemistry with institute fellowship to eligible post-graduates in Biochemistry has been introduced.
- An independent Geriatric Psychiatry unit with full time faculty has been formed. New training courses such as DM in Geriatric Psychiatry and Fellowship in Geriatric Mental Health Care have been approved.
- For the first time in the country, Post-doctoral fellowships in Women’s Health, Forensic

Psychiatry and Brain Stimulation have been started by the Department of Psychiatry.

- Six extra MD seats reserved for students from Uttarakhand, Chhattisgarh and North Eastern States—where there is a dearth of psychiatrists have been created. The training program for MD students was improvised with newer pedagogical methods and training being adapted for different levels.
- The Virtual Knowledge Network (VKN), the online capacity building facility, expanded its scope to train physician and other health professionals from Bihar and Chhattisgarh under mental health programme. This hybrid learning is integrated with the digital mobile based module and accreditation.
- The Department of Mental Health Education started one month certification programme in Mental Health Education, three students enrolled for the same and completed it successfully. Fellowship programme in Mental Health Education (for four students) would also be started the coming academic year. The Academic Committee and Board of Studies have approved the proposal to start the fellowship from the next academic year. E-journal titled Journal of Mental Health Education (ISSN: 2456-5733) has also been started by the department.
- NIMHANS won the Karnataka State Award for the year 2017 under the category of ‘Best Institution for Senior Citizens Services’ on the occasion of International Day of Older Persons.
- Dr. Umamaheswara Rao GS, Sr. Professor, Department of Neuro-anaesthesia received the prestigious Dr. BC Roy Award- Eminent Medical Teacher 2016 by the Hon’ble President Shri Pranab Mukherjee on 28th March, 2017.
- NIMHANS bagged Express Public Health Award under the ‘Most efficiently run health programme by a Government institution’ category (for hub-and-spoke model across the country comprising community health professionals, NGOs, GPs, non-specialists and lay counsellors).



Winners of Express Public Health Awards 2017 at the presentation ceremony held concurrently with Healthcare Sabha 2017 at Visakhapatnam

NIMHANS towards Green and Clean Campus

“NIMHANS towards Green and Clean Campus” initiative was launched on 30th January, 2017 to promote good ecosystem and restore nature’s equilibrium for sustainable development on the campus.

The movement spearheaded by a committee under the chairpersonship of Dr. A Nalini, Professor of Neurology, envisages transforming NIMHANS into a ‘model’ green and clean campus through various sustainability initiatives.

The green initiative took root with the newly joined and the superannuating employees (in the month of January) planting saplings at the Psychiatry Block on the institute campus.



World Health Day celebrations

International Day of Yoga

NIMHANS Integrated Centre for Yoga organised various activities and programmes to mark the 3rd International Day of Yoga from 19th to 25th June, 2017. The programmes included mass yoga session, exhibition on science of yoga for mental health (titled Yoga Sandesha), yoga competitions for staff, students, patients and caregivers, symposium, guest lectures and outreach programmes in association with Indian Institute of World Culture, Bengaluru.

Mass Yoga Session, held on 21st June, 2017, evoked enthusiastic response, drawing nearly 900 participants (including the staff and students of NIMHANS). Sattvik food/diet was offered at NIMHANS mess and canteens.



Mass Yoga Session

A host of events such as pledge-taking, marches, tree planting and other community activities were organised to promote Swachh Bharat Mission. Faculty, staff, students, NSS volunteers and members of the Kayakalp Committee of NIMHANS actively participated in the activities, especially during the Swachhta Fortnight held in September, 2017.



Swachh Bharat Abhiyan

15.8 CENTRAL INSTITUTE OF PSYCHIATRY (CIP), RANCHI

Introduction

Established in 1918, Central Institute of Psychiatry (CIP), Ranchi now functions under the aegis of the Dte. GHS, MoHFW. It has a current 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 to other wards and surrounded by manicured lawns and well-laid roads. 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 are actively involved in the functioning and various activities carried out in the ward. 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 to acutely ill psychiatric patients, including those requiring care for concurrent medical disorders. Till 31st August 2017, 2952 patients (2422 male and 530 female) were admitted. 2940 patients were discharged (2404 males and 536 females). The average bed occupancy during the specified period was 82.4%.

Achievements

Till 31st August 2017, 7364 patients (Male-5104 and Female-2260) attended the out-patient department (OPD) of the Child Guidance clinic for treatment. There were a total of 128 admissions and 129 discharges during the period under report.

The Institute has a modern centre for addiction psychiatry with a capacity of 60 patient beds for the treatment of persons suffering from alcohol and drug related problems. It is also the nodal centre in eastern India for manpower training and research in the field of alcohol and drug abuse. 1163 patients were seen in the OPD in the de-addiction Clinic; 484 patients received admission in the de-addiction Centre while 460 were discharged.

Till 31st August, 2017, number of cases seen on outpatient basis were 58,739 (18,375 new cases and 40,364 follow-up cases) [including all psychiatry cases (Adult and Child), Staff OPD, Extension Clinics, Skin Clinic and Psycho-social OPD]. The total number of new psychiatry cases seen till 31st August, 2017, were 11,524 (7813 males and 3711 females) while 38,227 psychiatry follow-up cases were seen during this period (26,791 males and 11436 females).

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 run in two schools through the community outreach services programme. The case-load in the extension clinics till 31st August, 2017 was 1962.

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. In the year 2017, till 31st August 2017 total attendance of patients in special clinics was 14,618.

The Clinical Psychology department at the Institute is the oldest independent department in India. In 1962 teaching course in Clinical Psychology – Diploma in Medical and Social Psychology was begun (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).

There is a separate outpatient unit of the department which is called the Psycho-Social Unit (PSU). The PSU either gets referrals from the general OPD of the Institute or else individuals can come straight to the PSU and seek help for their psychological problems. The PSU caters to the needs of those patients who suffer from minor psychological problems and who can be managed exclusively by psychological methods such as counseling, behaviour therapy, biofeedback, relaxation therapy etc. In the year 2017,

till 31st August, 2017, 563 patients were assessed and 730 therapies were carried out by the department. The Clinical Psychology laboratory is equipped with various psychological tests, rating scales, instruments and apparatus which aid in the diagnosis and assessment of patients. The department is actively engaged in academic and research activities in the field of mental health.

The Department of Psychiatric Social Work came into existence in 1950 although family psychiatry can be dated back to 1922 at the Institute. The course of Diploma in Psychiatric Social Work (DPSW) started in the year 1970. In 1985 this course was upgraded to M.Phil. in Psychiatric Social Work. At present, 12 seats are available for M. Phil trainees. The department is actively engaged in academic and research activities in the field of psychiatric social work and allied fields. The departmental faculty includes four assistant professors, 1 senior psychiatric social worker and 1 junior psychiatric social worker.

The Department of Nursing Service provides quality nursing care to inpatients as well as outpatients. 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 – 36
- General Nursing and Midwifery (GNM)/ ANM - 349
- B.Sc. Nursing - 716
- DPN - 09

The Institute currently 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 use OT services 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 use OT services 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 Electro-encephalo-graphy (EEG) and Clinical Neurophysiology 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 02 nos of 32 channel quantitative electro-encephalogram systems 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, 192 and 256 channels), Evoked Response Potential (ERP) acquisition units (40 channels), a 40 channel polysomnography (PSG) unit and a full-fledged Transcranial Magnetic Stimulation (rTMS) unit which boasts to have the most advanced technology in the country with Neuro-navigation and robotized system. The Centre has acquired advanced signal processing software such as Advanced Source Analysis (ASA), Brain Electrical Source Analysis (BESA) etc. In the year 2017, till 31st August, 2017 total no. of tests done was 3854.

The Department of Pathology and Biochemistry is equipped to perform tests of clinical pathology, microbiology, bacteriology, biochemistry, serology and immunology. The Centre performs these tests for both clinical as well as research purposes. In the year 2017, (till 31st August, 2017), 1,46,842 investigations were done.

The first X-ray machine in Ranchi city was installed at this Institute. The department has 16 slice CT Scan, 300 MA Digital X-ray, Cranial Doppler and Ultrasound Machine. The department got a state of art 3 Tesla functional MRI unit (fMRI) which has started functioning. It is the first establishment in the country to have a fMRI integrated with Transcranial Magnetic Stimulation, High Resolution EEG and eye tracking system. CIP is the first and only mental

health institution in the country to have fMRI facility. In the year 2017, till 31st August, 2017 total no. of investigations done was 3153.

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 2767 patients availed emergency services till 31st August, 2017.

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, 341 general helpline calls, and 86 e-mails were received and attended.

Case conferences, seminars, journal clubs are held regularly. 22 seminars, 21 case conferences, 13 journal clubs were held till 31st August, 2017.



100th Foundation Day of CIP, Ranchi

15.9 PRADHAN MANTRI SWASTHYA SURAKSHA YOJANA (PMSSY)

Introduction

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 Specialty Blocks/Trauma centres etc. and procurement

of medical equipment 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 (GMCIs) have been taken up. Under Phase-II of PMSSY, AIIMS at Rae Bareilly and up-gradation of 6 is being taken up. Further progress of Phase-III, Phase-IV, etc. are as follows:

15.10.1 Phase-III

The Central Government has approved 39 medical colleges under Phase-III 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 (DPR) in respect of all the 39 medical colleges have been approved. Construction work awarded in respect of 38 Medical Colleges. Construction work at Medical Colleges in Jabalpur, Bikaner, Kota, Thanjavur, Tirunelveli, Gorakhpur and Meerut is in advanced stage of completion and expected to be completed in 2017.

15.10.2 Phase-IV

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 and on 20.07.2016 for establishment of new AIIMS at Gorakhpur at the cost of Rs. 1011 crore under Pradhan Mantri Swasthya Suraksha Yojana (PMSSY), involving a total financial implication of Rs. 5960 crore. Completion and commissioning of three new AIIMS in Andhra Pradesh, Maharashtra and West Bengal is expected to be completed by June 2020 and new AIIMS at Gorakhpur by March 2020.

MoU between MoHFW and Govt. of Andhra Pradesh/Maharashtra/West Bengal/Uttar Pradesh have been signed. Land has been transferred by the respective State Governments to this Ministry.

15.10.3 Upgradation of GMCIs announced in 2014-15

Cabinet Committee on Economic Affairs has approved

upgradation of 13 existing Government Medical Colleges/Institutes (GMCIs) at the cost of Rs. 200 crore each (Central share: Rs. 120 cr; State share: Rs. 80 crore) under Phase-IV of PMSSY. Gap Analysis has been finalized for 12 GMCIs. CPWD has been appointed as the executing agency for GMC, Patna, GMC, Bhagalpur, GMC, Gaya, GMC, Bilaspur and GMC, Jagdalpur. M/s Bridge & Roof Co. Ltd. has been appointed as the executing agency for GMC, Indore, GMC, Jaipur and GMC, Bhavnagar. M/s HITES has been appointed as the executing agency for GMC, Agra, GMC, Kanpur and GMC, Cuttack. DPRs for GMC, Patna and GMC, Bhagalpur has been approved.

15.10.4 New AIIMS announced in 2015-16

Hon'ble Finance Minister, during Budget Speech for the year 2015-16, has announced setting up of five new AIIMS in Assam, Himachal Pradesh, Jammu & Kashmir, Punjab and Tamil Nadu & a second AIIMS-like institute in 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.

The Cabinet has approved the establishment of new AIIMS in Bathinda, Punjab at a cost of Rs. 925 crore on 27.07.2016 and the new AIIMS at Guwahati, Assam at a cost of Rs.1123 crore on 24.05.2017. Site at Awantipora in Kashmir has been finalized for establishment of AIIMS in Kashmir and at Pulwama in Jammu for establishment of AIIMS in Jammu.

15.10.5 New AIIMS in Jharkhand & Gujarat announced in 2017-18

Hon'ble Finance Minister, during Budget Speech for the year 2017-18, has announced setting up of two new AIIMS in Jharkhand and Gujarat.

Site at Deoghar has been finalized for establishment of AIIMS in Jharkhand. As far as AIIMS in Gujarat is concerned, the site offered by Gujarat Government has been inspected by the Central team and a decision on the site will be taken in the near future.