

# ANNUAL REPORT 2018



*Varun Bajpai*

**Lt Col Varun Bajpai VSM**  
Executive Registrar  
SCPGIMS, Lucknow





# ANNUAL REPORT 2018

(Period of Review- 1<sup>st</sup> January 2018 - 31<sup>st</sup> December, 2018)

Sanjay Gandhi Postgraduate Institute of Medical Sciences,  
Lucknow-226014, U.P., India

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14. Dr. Namita Mohindra, Assistant, Department of Radiodiagnosis, SGPGIMS, Lucknow.
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20. Shri Raghvendra Pratap Singh, Member of Legislative Assembly (MLA), 101, Tilak Marg, Dalibagh Bahumanzila Mantri Awasiya, Lucknow-226001
21. Shri Bhoopesh Chaubey, Member of Legislative Assembly (MLA), 1070B, Vidhayak Niwas, Lucknow



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14. Executive Registrar



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## *Director's Message*



It is with great pleasure as the Director of SGPGIMS that I present the “Annual Report” of SGPGIMS, for the year 2018. The report incorporates all important academic, events, activities and achievements which had taken place, and must find a place in the history of the institute.

The departmental achievements as well as excellence achieved by individual staff members has been mentioned in this report. Our endeavour in the Institute has always been to grow from strength to strength in all relevant aspects i.e. patient care services and outcomes, teaching and training of students, scientific research and creating a well-equipped comprehensive facility in all aspects.

The Institute has certainly developed over these 3 decades. The progress within the Institute is reflected in each year’s “Annual Report” of the institute, and the year 2018 was no exception. Over all, the patient foot fall increased, the number students enrolled in DM/ MCh/ MD/PhD increased. College of nursing and College of Medical Technology were functional and BSc and MSc courses were successfully running. Similarly, clinical and basic research also gained momentum.

All these achievements have been the hard work of our predecessors and present colleagues who have worked tirelessly and sincerely, all these years. I can indeed take little credit only, for all these achievements. Therefore, it is with both pleasure and pride that I acknowledge the contribution of all my colleagues who have helped me with the onerous task of steering this ship.

As a Director of this Institute, I realise that this Institute continues to progress because the State Government of Uttar Pradesh continues to encourage and promote its growth – both in terms of financial support and able governance. I am grateful for their unflinching support and guidance.

I feel extremely grateful to the members of all the statutory bodies of the Institute - the Institute body, Governing body, Finance committee, Academic board, Hospital Board, Research Committee and Ethics Committee for their active contribution.

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Over the years SGPGI has acquired a name for itself for generating robust manpower, in terms of sound clinicians, academicians and researchers. This is due to the rigorous training schedule adopted for the students, at SGPGI. As a teacher, and as the Director, I would like to congratulate the 158 students who passed out from SGPGI in 2018, and thank them for their contribution in running the services and wish them success for their prosperous future. I strongly urge them to now start playing the role of an ambassador of SGPGI and become an active alumnus, who can contribute towards the growth of the Institute, their department, and the juniors.

Lastly, I appreciate the efforts made by the committee entrusted the task of preparation of this annual report for the period 2018.

I wish you all a healthy and safe year ahead.

Jai Hind

(Prof. Rakesh Kapoor)  
Director, SGPGI



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## BACKGROUND OF SGPGIMS

The Institute's foundation was laid in December 1983. SGPGIMS was established by the Government of Uttar Pradesh with the objectives of creating a centre of excellence for providing super-specialty medical care, education and research in the field of medical science in the state of Uttar Pradesh; to establish standards of postgraduate and super-specialty medical education to set a benchmark for the whole country; and provide training in paramedical and allied fields, particularly in relation to super-specialties.

This tertiary care institute has made its presence felt in spheres of patient care, teaching, training, and research both at the national and international levels over past 3 decades or so. The Institute is striving hard to grow further and, in 2017-18 we have added new dimensions to the services provided, some of which I will now like to present to this august audience.

Mahamahim Shri Ram Naik, Mananiya Governor of Uttar Pradesh is the Visitor to SGPGIMS and Chief Secretary, Govt of Uttar Pradesh, Sh. Anup Chandra Pandey, and President of SGPGIMS. The Institute draws unwavering financial and governance support from the State Government of Uttar Pradesh

### Patient Care

As regards patient care activities, during the year 2018, the Institute provided medical care to an ever-increasing number of patients. Compared to the previous year, the new outpatient registrations rose by 15.53% to 1,09,019 (crossing the 1 lakh mark). This year 4,59,032 patients were followed-up in the outpatient clinics, while 56,509 patients were admitted for care on total bed strength of 1026 beds, apportioned to different specialties. Over 13,987 major surgical procedures were performed (6.1% increase as compared to last year). In the past one year - 109 renal transplantation, 375 lithotripsy, 551 open heart surgery, 6,763 MRI scanning, 39,246 Hemodialysis, 18,285 endoscopic procedures, 2,819 coronary angiography, 1,824 PTCA and 22 Bone marrow transplants have been performed. 464 Online birth certificates and 1619 online death certificates have been issued from the government portal- CRSORGI.GOV of Birth and Deaths of this financial year.

The Government of UP has allocated Rs.100.00 Lakh budget for BPL patients out of which 40 BPL/ Antodaya patients received financial assistance, and Rs. 300.00 lakh for Asadhya Rog nidhi schemes out of which 130 patients received financial assistance in the year 2018.

The Apex Trauma Centre of SGPGIMS was inaugurated on 31<sup>st</sup> July, 2018. It has been modeled on the pattern of Jai Prakash Narain Apex Trauma Centre, AIIMS, New Delhi. It is under the stewardship of Prof. Amit Agarwal, CMS, SGPGI, and is functional with 60 bed facilities out of 210 beds with



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all major specialties like Trauma Surgery, Neuro Surgery, Critical Care, Orthopedics, Maxillofacial Surgery and Rehabilitation. Patient care facilities of lab Medicine, blood bank, 64- slice computed Tomography (CT) scan machine, USG & X-ray and Ambulance services are available. Also, out of six state-of-art modular OT's two have started functioning. The modular OT's have been equipped with OPMI Pentaro Microscope and ICG capabilities for high end neurosurgical and Trauma Services. In future we also plan to expand the same with intervention and MRI Services. In addition HIS System, HRF and IRF Services, 500 lines of EPABX Telephone Exchange, CSSD and other support services are operational. Within a short span of a month, more than 100 patients have been treated and major operations have been performed including Neurosurgical Operations, fixation of mandibular and maxillofacial fractures and orthopedic implant surgeries.

A block dormitory near Vishramalay has been renovated and 40 bedded air-conditioned dormitory has been made functional from this Independence day, 15<sup>th</sup> August 2018. A five-storied fully air-conditioned new OPD building is functioning in its full strength now. Escalators on all five stories are now functional. Ophthalmic Department in toto has been shifted to the 5<sup>th</sup> floor in the new OPD Block.

SGPGI, played an instantly proactive role in the disaster management of NTPC boiler blast that occurred in November, 2017, at Unchahar. Blast victims were brought at SGPGI, immediate relief and treatment was provided. Doctors, especially from the departments of Pulmonary medicine, Plastic surgery and Anesthesia took care of these burn victims. Since then, a special ward of 11 beds has been created at the entrance of main hospital/ PRO counter wherein these victims were initially managed. This special ward is in occupation of pulmonary Medicine department and patients of swine Flu and other serious ailments will be taken care of.

Keeping the waiting times in mind, the Institute has initiated a collaborative venture with CBMR to use their state-of-art 3 Tesla MRI machine for routine patient care. The waiting times have reduced significantly, and more than 1000 patients have availed the facility in the past one year.

Old OPD space is being re-shaped in ward Block of 134 beds, allocating, 25 beds to Anesthesia, 20 beds to Radiology, 50 beds to Radiotherapy, 25 beds to Genetics, 10 beds to Nuclear Medicine and 04 Private Wards to Pool. New Block will be functional by the end of 2018.

State Bank of India (SBI) as a part of its Corporate social responsibility (CSR) has always been benevolent toward SGPGI. It has provided support services like ATM, waiting area for patients in front of the main Hospital entry point. It has loaned a sum of Rs.473 Cr for developing the Robotic surgery centre, Liver transplant unit, Kidney transplant unit, Emergency medicine department, and Hematology block. The construction work is in progress and the respective units will be operational in the near future.



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## **Academics**

With 32 vibrant academic departments and 249 faculty members, institute provides DM, MCh, MD, PhD degrees and Post-doctoral Certificate Courses (PDCC) in most disciplines. In the period under review, a total of 4 PhD, 37 DM, 16 MCh, 19 MD, 7 MHA and 35 BSc Nursing students have successfully completed their training requirement for completion of their degrees. Similarly, 44 post doctoral trainees in different specialties have also completed their training requirement for completion of their Diploma. The Medical Council of India recognizes all academic degrees given by the Institute.

## **Research**

Today, SGPGIMS ranks amongst the top ranking academic and research medical institutions like AIIMS, New Delhi, PGIMER Chandigarh, and CMC Vellore in terms of research output from India. This is when compared to others SGPGI is a much younger institution and smaller in terms of faculty strength and number of disciplines/ departments. This is a reflection of the importance that the Institute attaches to high quality clinical and basic research. The Faculty remains grateful to the extra- and Intramural funding granted to them for research in medicine. With the help of funding they have been able to contribute significantly to the research scenario in the country. SGPGI researchers can boast of having 5,431 indexed publications till date. This includes original contributions in reputed peer reviewed journals with significant impact factor.

In the year 2018, Institute faculty members were successful in getting 13 new extramural grants amounting to Rs 6.01 Crores. The Institute's intramural research fund is designed to encourage new research aspirants, and in the year 2017-18, it supported 40 projects with a total amount of Rs 1.63Cr. 14 Multicentric drug/device trials were initiated in the past one year.

## **Visiting Professors**

In the year 2018, the Institute welcomed 11 visiting professors, of which 6 were from overseas universities and organizations.

## **Short Term Training**

The Institute provides short-term training /observership to doctors serving in the Armed forces, government medical colleges or from private organizations. The Institute also provides training to postgraduate students from various universities as summer training courses or dissertation and project training. About 113 students and doctors have been trained during the year 2018 under these schemes.



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The institute has signed a Memorandum of Understanding (MoU) document with AIIMS, Rishikesh, for facilitating Collaborative Training, Education and Research. At International platforms, it has a MoU with Chelsea & Westminster Hospital NHS Foundation Trust, UK, for Medical Training Initiative (MTI).



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## CONTRIBUTIONS OF VARIOUS DEPARTMENTS

### DEPARTMENT OF ANESTHESIOLOGY

In the past one year, the department of Anaesthesiology has lived up to its expectation and has provided its services in the multitude of sectors wherever its support has been warranted with full dedication and professionalism. The services of the Anaesthesiology Department covered the various Operation Theatres (for routine and emergency procedures), peripheral services (CT, MRI, DSA, Cardiac Cath Labs, ERCP etc.), ICU services (Post op and PMSSY), Pain and Palliative Care Clinics and pre-anaesthetic Checkup Clinics. A increase in the number of post-graduate students have been planned since quite some time considering the resources available and this year we could increase our input of MD seats to sixteen students per year and aim to provide them high quality post graduate teaching and training with an extensive overhauling of the existing methodologies.

The introduction of DM (Doctor of Medicine) courses in the super specialties of Neuro-anaesthesiology and Cardiac Anaesthesiology has been pursued vigorously for the past few years. Despite not being able to introduce these courses in the present academic session we continue our unstinting efforts in this direction and endeavor to include these courses in the academic curriculum of the Department in the near future. From the Department's perspective, there is no dearth of manpower or resources, and it is fully geared up for the introduction of the said courses.

#### Conferences and CME Organized

1. Annual SGPGI PG Assembly in February 2018 which has traditionally been a testing ground for exam appearing Post Graduate students in the nearby regions.
2. A multidisciplinary CME on "Enhanced Recovery After Surgery<sup>®</sup>" was organized in the month of July 2018 which was well appreciated by other departments.
3. The biannual 01-02 courses on CPR carried on as usual for training of residents of SGPGI and were met with an enthusiastic response from the participants.
4. Professor S P Ambesh Organized CME cum workshop on "CPR Master class-Science of high-quality CPR" in July 2018.

#### Awards and Laurels Received by Faculty and Residents

1. Professor Anil Agarwal was conferred the Fellowship of Indian Academy of Pain Medicine. He also received a Letter of appreciation from Director SGPGIMS for maintenance and upkeep of ISACON Vatika.

2. Professor Shashi Srivastava was appointed the National President of the prestigious Indian Society of Neuro anaesthesiology and Critical Care.
3. Dr Sandeep Sahu received the INDUSEM International Award and Jan Paritosika Award for community resuscitation teaching and training. He was appointed the Honorary Secretary of RSACP UP Chapter and was into the Editorial Board of Indian Journal of Anaesthesia.
4. Dr Rudrashish Haldar received the Dr KPR Young Anaesthesiologist of India Award for the year 2017. He also received the EET CRS Top 25 Young Faculty Award for 2018.
5. Dr Divya Srivastava received the “Outstanding Clinician in Anaesthesiology” Award from Venus International Foundation.
6. Dr Amal Francis Sam (PDCC-Organ Transplant) Senior Resident topped the All India NEET Super Specialty Exam in Anaesthesiology.

## **DEPARTMENT OF BIOSTATISTICS AND HEALTH INFORMATICS**

Biostatistics is an important specialty used for decision making in the area of health and medical research. The major goals of the department as laid down by the Institute are dissemination of the knowledge of biostatistics through academic programs; to initiate research in the field of biostatistics and other areas of collaborative interest; to provide consultancy and data analysis service to the institute and to other organizations in the medical and health sectors; and to manage patient care information and development of new technology in the area of health informatics.

The department organizes basic course for DM/MCH/PhD/MD students of various department of the institute which is mandatory for all students and is organized about thrice a year. The department also holds advanced courses in specialized areas of biostatistics and research methodology. The department is also conducting PhD program in Biostatistics.

In addition to teaching and research activities the department manages and maintain the Hospital Information System (HIS) and patient care data on various servers in the institute and also campus wide internet and email facilities. It was the first medical institute in the country to implement fully functional HIS. All the patient care activities are catered under this system. The institute has about 30 blade servers, high end storages, 10 GB network consisting of about 1500 nodes connected through LAN. Residential areas, hostels, MRA, guest house are connected through Wi-Fi. Department recently have following achievements:



1. International Epidemiology Association (IEA): Professor CM Pandey has been elected as President of IEA for the year 2017-2020.
2. National Conference of Indian society for Medical Statistics: 35<sup>th</sup> Annual National Conference of Indian Society for Medical Statistics (ISMS) was organized by the department during Nov 2-4, 2018.
3. Patient portal: HIS patient portal has been implemented. Patient can get their own registration, investigation report, billing and appointment through this portal from anywhere in the world using their user id and password.
4. Expansion of HIS in new OPD block: HIS connectivity has been extended through LAN in the new OPD building.
5. Expansion of HIS to Apex Trauma Centre: A new center of the HIS has been established in trauma centre and its connectivity has been extended through LAN in the Trauma centre.
6. Expansion of Wi-Fi facilities: In addition to Wi-Fi facilities to residential areas all the clinical departments, wards etc. have been provided Wi-Fi connectivity for HIS and Internet.
7. HR module for leave management: Leave management is being done online.
8. Lab equipment integration with HIS: Lab equipments of various departments have been integrated with HIS. With this facility test results are coming automatically in the HIS from the lab equipments.
9. PACS Integration with HIS: Picture Archiving and Communication System (PACS) has been implemented to store and convenient access image data such as X-ray, CT Scan, MRI etc at local network.

## DEPARTMENT OF CARDIOLOGY

It is the largest volume tertiary level interventional cardiac centre in the state performing over 1500 angioplasties per year. It is recognized for its expertise in complex coronary interventions including chronic total occlusion (CTO) intervention. The department performed the first percutaneous aortic valve implant in any public sector hospital in the country in 2016, in a patient not amenable to surgical aortic valve replacement because of associated co-morbidities, thus giving a new dimension to interventional cardiology. Since then a total of eight cases of trans-catheter Aortic valve replacement have been done so far.

On the academic front, the department has been training DM students since the beginning and their placement record across the country and abroad is clearly a reflection of the quality of training.

The department plans to operate a Heart Command Centre with facility to cater to acute MI patients with a round the clock emergency ambulance service for primary PCI at any odd hour, which is the need of the day today.

## DEPARTMENT OF CVTS

It routinely performs surgery for congenital heart diseases, arrhythmias and valvular heart diseases. Apart from open heart and major cardiothoracic surgeries, the department has been doing Minimal Access Cardiac Surgery including Minimal Access Beating Heart coronary artery bypass grafting surgery. The department is in all its earnestness, working towards surgery for heart failure patients. In addition to Cardiovascular and Thoracic Surgery MCh program, the department has successfully commenced 1-year Post Doctoral Fellowship (PDF) course.

## DEPARTMENT OF CLINICAL IMMUNOLOGY

It provides comprehensive management of immune mediated rheumatic diseases. In keeping with this goal, the department over the last 30 years has evolved into a state of the art facility with integration of clinical, laboratory and basic sciences. It is recognized across India and abroad as a prime centre and patients from entire Eastern Indian belt and Nepal are referred for treatment

The DM program in clinical immunology was started in 1989 for the first time in the country with an aim to train clinicians with sound understanding of immunology and it was soon recognized by the MCI. The program is rated as one of the best programs in the country. So far more than 53 students have received the DM (Clinical Immunology) degree.

The department has a vibrant research program including training of PhDs and so far 36 candidates have earned a PhD degree. The department has attracted extramural grants worth Rs 10Cr and intramural funding of 1Cr so far. The thrust areas are clinical and basic research in spondyloarthropathy particularly reactive arthritis, juvenile idiopathic arthritis, systemic lupus erythematosus, systemic sclerosis, Takayasu arteritis and fibromyalgia. The department has published more than 604 papers including 378 original articles in national and international indexed journals.

We have a state-of-the-art Clinical Immunology laboratory. Nearly 3000 sample are processed each year. With automation, the turn-around time has reduced to 24-48 hours. To train manpower in laboratory techniques the department conducts National autoantibody workshop once every 2 years. After the acquisition of musculoskeletal ultrasound, the department has conducted 4 national

level workshops to train rheumatologists. The department has re-started a PDCC course in Lab Immunology after 10 years once the new senior resident positions were sanctioned.

New Academic courses–PDCC course in Lab Immunology was restarted after 10 years as there were new SR positions sanctioned.

### **Awards to Faculty**

#### **Dr. Ramnath Misra**

- Dr S R Naik for outstanding research by S.G.P.G.I.M.S
- Member of the DST Task Force on Satyam

#### **Dr. Amita Aggarwal**

- Chairperson of DBT task force on chronic disease biology (Autoimmune, bone and skin)
- Member of DBT task force for **The Innovative Young Biotechnologist Award (IYBA)**
- Member of the DBT task force on Twinning projects for NE region
- Member of GOI statutory body for recombinant and genetically modified (RCGM) products
- President, Indian Rheumatology Association

#### **Dr. Vikas Agarwal**

- APICON Ludhiana award for best free paper during APICON 2018, 22-24 March 2018 at Bengaluru, India.

#### **Dr. D P Misra**

- APICON - Ludhiana Original Merit Paper Award 2018

## **DEPARTMENT OF CRITICAL CARE MEDICINE**

In order to take care of its increasing requirements, has renovated 8 beds (total of 20 beds), fully functional state-of-art Critical care unit. The department has been conducting a DM course apart from the PDCC course which it has been running for over a decade. First batch of DM students completed their training in July 2016 and MCI conducted inspection of the department for the recognition of DM in CCM at the time of first DM exit examination.

Critical Care facility has been activated at the Apex Trauma Centre. Two faculty members have been recruited for the same and 8 beds have been earmarked and activated thus far for critically ill patients.

Recognition of the faculty at National or International platform

- Dr. Mohan Gurjar: Editorial Board Member of *The Anesthetist's Forum*.
- Prof. Banani Poddar: Executive committee member of Indian Society of Critical Care Medicine (ISCCM).
- Dr. Mohan Gurjar: Member of 'Writing Committee', Society of Critical Care Medicine (SCCM), US; Member of committee for PACT Module, European Society of Intensive Care Medicine (ESICM) and; National representative of international study 'DecubICUs'

## DEPARTMENT OF EMERGENCY MEDICINE

It is now fully established following the appointment of 05 faculty. The existing 30 bed ERS-1 will soon increase to 60 beds and further be expanded to a 240 bed state-of-art Emergency Medicine. With an annual footfall of nearly 75000 patients, the new Emergency facility shall be completed in the coming 18 months. This will substantially increase both the capacity and quality of Emergency Services in SGPGI. Based on Emergency Severity Index (ESI), care will be categorized into Red/Yellow/Green zones, with provision for ICU, HDU, OT, and transfer zone to provide continuum of care. In-house facility of arterial blood gas analysis, toxicology screen, biomarker panel, radiological imaging & intervention in this Emergency Facility will be a paradigm shift in the way Emergency Services are provided in the state of UP and country at large. This will be the one of the largest facility of its kind in India and promises to be an Apex Teaching & Training center for Emergency Physicians in times to come. It is already on course to start the MD program in Emergency Medicine and PDCC in sub-specialties of Emergency along with numerous training courses for medical and para-medical staff round the year.

## DEPARTMENT OF ENDOCRINE & BREAST SURGERY

It has further cemented its place as the fore-runner of Endocrine & Breast surgery practice, training and research in India. The newly initiated minor OT in the OPD area, day care breast cancer chemotherapy, ultrasonography, laryngoscopy and bronchoscopy facilities in the outpatient area are benefiting the patients tremendously. The remote access and minimally invasive thyroid and adrenal surgery program is one the first and still the best in the country. The faculty of the department have received extramural funding from Ministry of Health and Family Welfare and National Cancer Grid for their research projects. The department continues to enjoy the leadership position in oncoplastic breast surgery and breast oncology in the country. SGPGI Breast courses have now become an established brand in themselves, and the course conducted by the department

along with departments of Plastic surgery and Radiotherapy attracted participation from almost 700 faculty and delegates, a large overseas faculty participation and was appreciated widely for the high quality of live operative sessions, workshops, lectures, debates and master-classes. The long-term international clinical fellowship programme in Endocrine & Breast Surgery of the department has attracted lot of applications. Dr Kintu Ronald Luwaga from Uganda has successfully completed one-year fellowship in 2018, while the next long-term clinical fellow- Dr Vahagn Hambarzumyan from Armenia has joined the department in August 2018. The residents' research projects yielded a rich harvest of scientific publications for the department, with 6 original research articles and more than 20 other articles (case reports, letter to editors) being published by residents of the department in the last year.

### **Faculty achievements:**

Officer Bearer and Executive Committee Members chosen in 2018

- President Elect of Indian Association of Endocrine Surgeons
- Council - Coordinator of International Association of Endocrine Surgeons

### **Editorial Work**

- Editor-in-chief of World Journal of Endocrine Surgery which has become the official journal of Asian Association of Endocrine Surgeons
- Nominated on the Editorial board of THYROID Research and Practice
- Reviewer of World Journal of Surgery, International Surgery, Laryngoscope.

## **DEPARTMENT OF ENDOCRINOLOGY**

It runs a newborn thyroid and congenital adrenal hyperplasia screening service for babies born in 7 hospitals of 4 districts of UP, for the past 2 years. This program is being run along with the department of Medical Genetics, under the aegis of NHM and SGPGI. Consistent efforts from the department have ensured screening for preventable causes of mental retardation (so that treatment can be started in a timely manner) has become standard of care at our obstetrics and newborn services. As a consequence of this program, 16 babies of Lucknow and nearby regions with congenital hypothyroidism have been saved from permanent mental retardation, and 2 neonates with congenital adrenal hyperplasia, from death.

The department offers a structured DM endocrinology program (including Pediatric Endocrinology teaching), a PDCC program in Pediatric endocrinology, apart from a successful PhD program in basic

research. DM students from nationally acclaimed Institutes such as CMC Vellore, Vishakhapatnam, Andhra Medical College, BJ Wadia Mumbai, and MS Ramaiah Medical College Bengaluru, like to come as short term observers.

Department of Endocrinology focuses on patient education; videos on insulin treatment, diet in diabetes, hypoglycemia and complication screening in diabetes have been developed and uploaded on you tube. The department strives to maintain a 24x7 contact with the patients via emergency mobile numbers, Senior residents entertain all such urgent queries through these numbers.

Diabetes support group meeting was held and was attended by more than 150 family members of childhood diabetes. It gave an opportunity towards support, networking and exchange of knowledge for the families of these afflicted children. The proceedings were beamed out via telemedicine to District Hospital Raebareli. telemedicine centre and via skype to a patient support group at Gorakhpur.

Thanks to the financial support from National Health Mission, the department is able to provide free insulin to all children and adolescents with type 1 diabetes attending the clinic at SGPGI. The department extends its laboratory services to the patients wherein Islet antibodies (GAD, tyrosine phosphatase, zinc transporter) are tested.

Honors and Awards of the faculty

#### **Member International Committee/Task Force**

- Dr. Sushil Gupta became the Executive member of Endocrine Society of India
- Dr. Preeti Dabadghao member of the International Committee for developing evidenced based guidelines for assessment and management of polycystic ovary syndrome

Endocrinology Lab started the following services:

Islet antibodies, GAD, Tyrosine phosphatase, Zinc transporter

#### **Extramural and Intramural Grant**

1. Hypertension in young patients with type 1 diabetes mellitus: prevalence, risk factors and early renal injury markers. Intramural 2017-2019
2. To determine the cardiovascular risk factors and outcome markers in sheehan's syndrome patients compared to controls 2017-2019
3. Prevalence of Iodine Deficiency and Goiter in Post Iodization phase in Gonda district of Uttar Pradesh 2017-2018

## DEPARTMENT OF GASTROENTEROLOGY

It is a very busy specialty seeing around 40000 patients each year in its outpatient clinics. The department was designated as a WHO Collaborating Centre on Viral Hepatitis in February, 2017 for a period of 3 years. In this endeavor of hepatitis prevention, it has been running a “SGPGI Hepatitis prevention and control cell”. The cell has been carrying out HBV-HCV screening and vaccination of the SGPGI staff. Over 1500 employees have been thoroughly screened and vaccinated thus far.

The department regularly carries out investigations for GI Pathophysiology, Manometry, Endoscopies and fibroscan in their GI lab.

The department is well known for its academics and research activities. The faculty's enthusiastic approach in these areas is reflected through their publications and grants. The DM and PhD programs of the department are well sought after. The faculty has conducted courses for sensitizing and training the technicians, nurses and residents.

The department has a commitment towards community based GI projects – HCV infection prevalence was studied through a survey in Ambedkar Nagar district, UP.

### Other Activities by Faculty Members

#### Dr. V. A. Saraswat

1. Conducting and co-ordinating activities of the “Hepatitis Prevention and Control Cell, SGPGI”. HBV-HCV screening and vaccination of about 1200 of 2200 employees has been completed and is ongoing for the rest.
2. Conducted UP's first community-based HCV survey for prevalence of HCV infection in Jallapur block, Ambedkar Nagar district, UP.
3. Department of Gastroenterology was designated as a WHO Collaborating Centre on Viral Hepatitis.

#### Dr. Rakesh Aggarwal

1. Member, WHO Strategic and Advisory Working Group on Immunization (SAGE) from 2017-2020
2. Member, WHO Scientific and Technical Advisory Committee on Viral Hepatitis 2014 till date.

#### Dr. Gaurav Pandey

1. Awarded 1st Prize at Indian National Association of Liver Meeting in Delhi in Oral Plenary Session.

2. Hal 5 International Abstracts selected at Annual European Association of Liver Meeting at Paris.
3. Selected as Governing Council Member of INASL.

## DEPARTMENT OF HEMATOLOGY

A well-equipped, state-of- art, 9 bedded Bone marrow Transplant Unit has been established in the New Hematology Building and will soon be ready to take in patients. In addition, an acute leukemia ward is underway and will soon be activated. Stem Cell Research Center Building work has been completed and awaiting final touches and approvals. The department has established the SOPs for in-vitro culture and expansion of human Amitotic Fluid Stem cells (AFSCs). Furthermore, research experiments carried out in the department have established that these stem cells can be differentiated into cells of renal and cardiac lineages, suggesting that AFSCs could be potentially used for treatment of kidney and heart injuries respectively.

New investigations started include: Bone marrow biopsy, T-ALL MRD, BRAF mutation and PML-RARA fusion transcript analysis.

The DM (Clinical Hematology) program is in full swing and the seats have further been increased from 1 to 3. The department has started 2 new courses - M Sc Medical Biotechnology (Hematology) and B Sc Medical Lab Technology (Hematology). Post doctoral fellowship program and PDCC courses are being pursued for imparting better training to the students.

Awards Received by Faculty, Residents, Research Fellows

- Dr Khaliqur Rahman awarded the Visitor training fellowship by American Society of Hematology at Roswell Park Cancer Institute, Buffalo, USA.
- Dr Akansha Garg, DM student awarded the 1st prize for Central India Institute of Hematology Oncology for All India DM/DNB Hematology Quiz, June 2018, Nagpur, India.
- Dr Tanvi Gupta, senior resident awarded the 1st prize for Central India Institute of Hematology Oncology for All India DM/DNB Hematology Quiz, June 2018, Nagpur, India.

## DEPARTMENT OF HOSPITAL ADMINISTRATION

The Department has been aiming to rationalise and augment the quality of the teaching & training in the department and patient care services within the hospital. The department has successfully been running its Post Graduate Masters Degree Program in Hospital Administration.



The department has taken the lead to establish Hospital Infection Control Cell under the aegis of Hospital Infection Control Committee. Further, a Patient Safety Cell has been established and one Patient Safety Nurse has been taking care of interventions aimed at making healthcare safer. In fact to enhance infection control & patient safety within the hospital, the department has launched a 2 year longitudinal in-service training program, aimed at sensitizing and training all nursing & technical staff regarding infection control and patient safety measures, in a phase wise manner.

The department in collaboration with National Health Mission, Govt. of Uttar Pradesh, has been conducting a 5 day residential capacity building program (by the name of Healthcare Executive Management Development Program) where-in Chief Medical Officers/Chief Medical Superintendents from UP State Health Services are being trained in different dimensions of professional healthcare management.

The department has been instrumental in establishing Quality Cell. The Director has approved the proposal of hiring Quality Managers who will initially assist the Institute in the NABH Accreditation process for SGPGIMS. The work is in progress - gap analysis of individual departments is being carried out along the lines of NABH parameters.

Department of Hospital Administration has been labelled as Study Centre for Bridge Program for Certificate Course in Community health for nurses (BPCCHN-IGNOU). This program has been developed by Ministry of Health & Family Welfare in collaboration with IGNOU to ensure continuation of comprehensive primary healthcare centres, to be strengthened as Health & Wellness Centres, as prescribed in the New Health Policy. The 6 months teaching program in Community Health Nursing has been commenced with College of Nursing.

- The Department has been named as the 'Study Center of Excellence' by IGNOU. It has been a Program study center since 2001 & has bagged 5 Gold medals out of 15 convocations held so far by IGNOU among 29 centers in India. Till date more than 550 students have been enrolled and educated by the department.

### **Awards/Recognition of the Faculty**

- Prof. Hem Chandra made the Vice President of Academy of Hospital Administration.
- Dr. Hem Chandra named in the list of 100 Most Impactful Healthcare Leaders of India.
- Prof. Hem Chandra appointed as the Vice Chancellor of Hemwanti Nandan Bahuguna Medical University, Uttarakhand.
- Dr. Rajesh Harsvardhan nominated by National Health Mission, Department of Health & Family Welfare, Govt. of Uttar Pradesh for State Level Award for contribution to the three tier healthcare delivery system in UP through Kaya-kalp.

- Dr Rajesh Harsvardhan became the Medical Superintendent of Super Specialty Cancer Institute, Lucknow by Govt. of UP in 2018, as an additional charge.

## DEPARTMENT OF MATERNAL AND REPRODUCTIVE HEALTH

The Department has established itself as the referral center for management of high risk pregnancy, prenatal diagnosis and fetal therapy. It is the first center in India to do embolisation of placental vessel to treat Chorioangioma- a tumour of placenta. It is one of the few centers in India to do Radio Frequency Ablation of fetal vessel to treat acardiac twin. Fetal pleural effusion is treated successfully by putting shunt into fetal thorax before it is born. The department aims to train more and more doctors (MD/MS Obstetrics and Gynaecology) in this field by offering structured training programme.

The **Department of Medical Genetics** has been actively involved in the diagnosis and management of patients with various genetic disorders for the last 3 decades. The department is providing free-of-cost factor replacement to Hemophilia patients with the help of grant of around 4.0Cr received from the State Government of U.P. this year. Also, during the current financial year, National Health Mission has given Rs. 1.42Cr for the treatment of patients with thalassemia major. Providing life-long blood transfusions is a huge financial burden on the family of such patients and it is for the third consecutive year that the department could provide free treatment to such patients. Along with the department of Endocrinology, the department has also started a New Born Screening Programme since December, 2015, for five genetic disorders including congenital hypothyroidism, congenital adrenal hyperplasia, Glucose - 6 - phosphate dehydrogenase deficiency, Galactosemia and Biotinidase deficiency. A grant of 2Cr has been received from National Health Mission by the State Government. In 2018, the department has extended routine testing of various enzyme assays for metabolic disorders e.g. Gaucher's disease, Galactosemia, Biotinidase deficiency, Glucose - 6- Phosphate dehydrogenase deficiency, to be availed by the entire Institute.

The department feels responsible for increasing the awareness amongst specialist doctors in the community, and conducts short term residential courses, funded by ICMR, on Medical Genetics and Genetic Counselling each year.

## DEPARTMENT OF MICROBIOLOGY

For the benefit of the clinical specialties within the Institute, the department has started some new diagnostic tests - Xpert/MTB Rif assay for detection of Mycobacterium tuberculosis as well as detection of Rifampicin resistance; Version 2 of Line probe assay for detection of first and second line drug resistance in Mycobacterium tuberculosis have been started.

### Grant Received

“Antimicrobial resistance from bench to practice” organized jointly with the European Society for Clinical Microbiology and Infectious Diseases (ESCMID), Spanish Society for Infectious Diseases and Clinical Microbiology (SEIMEC), The Lancet Infectious Diseases and the Pan-American Association for Infectiology. The event will be held on in 2018 at Cuba.

## DEPARTMENT OF MOLECULAR MEDICINE AND BIOTECHNOLOGY

The Department has recently launched a novel molecular approach for biopsying kidney in a non-invasive fashion, and for biopsying placenta during pregnancy. The first Hospital based facility on “Molecular HPV testing” in the state of Uttar Pradesh was started. A workshop was carried out on Molecular HPV testing for sensitizing the Gynecologists and Oncologists of the city. The department also organized a workshop on “Nanotechnology in Molecular medicine” recently. Laying heavy emphasis on academics, the department is pursuing starting of MSc in Molecular medicine and Biotechnology course.

### Awards Received by the Faculty

Dr. Swasti Tiwari joined the Editorial Board of World Journal of Nephrology, USA and Frontiers in Physiology, USA (Renal and Epithelial Physiology)

Dr. Swasti Tiwari on DBT- Medical Research Council (UK) committee for Global Research Programme on Maternal Health and Childcare

Patents filled by Dr. Swasti Tiwari (in July 2018) to claim for novel molecular approaches for; a) biopsying kidney non-invasively, and b) biopsying placenta during pregnancy

Creation of new facilities ‘Molecular HPV testing facility’ created first time in Uttar Pradesh.

## DEPARTMENT OF NEONATOLOGY

The Department has been providing level III intensive care services for critically sick neonates (new born babies less than 28 days). It has a fully equipped ward with facilities for invasive and non-invasive ventilation, high frequency ventilation, exchange transfusion, parenteral nutrition, bedside echocardiography and ultrasound. The outpatient department won the award for best-maintained OPD in the Institute for the year and got the same on Republic day 2018. The department procured a Laminar flow hood for aseptic preparation of total parenteral nutrition and aseptic drug dispensing in intensive care unit.

For all the new borns at SGPGI, the department has started the Universal hearing screening with oto-acoustic emission (OAE) and Automated auditory brainstem Response (AABR) machine.

For the overall physical and mental well being of the all residents and faculty, the department has started daily "morning meditation capsule". For overall neonatal well being and health in the society, community doctors play a very crucial role, the department has taken it upon itself in capacity building training of these doctors in the periphery, by enhancing knowledge and skill development.

The department has started Postdoctoral certificate course (PDCC) recently and has successfully conducted DNB Neonatology examination for DNB students.

### Awards and Recognition by the Neonatology Ream

- Dr. Astha Panghal SR (PDCC) won first prize in oral paper presentation in second annual Kangaroo Mother Care conference (KMCCON) held at SGPGIMS, Lucknow in May 2018.
- Sister Vaishnavi 3<sup>rd</sup> prize for research presentation in the annual Kangaroo Mother Care conference (KMCCON) held at SGPGIMS, Lucknow in May 2018.
- The outpatient department (OPD) won best-maintained OPD in the Institute for the year and got award for the
- The department aims to develop center of excellence by enhancing quality patient care, training of doctors and developing international collaboration with universities of eminence.
- The department also plans to start DM Neonatology course by the year 2020 which would be the first such academic course in neonatology in the Uttar Pradesh.

## DEPARTMENT OF NEPHROLOGY

The Department is one of the most active and busy department at this institute and is one of the largest centers in public sector institutes of the country, which takes care of all kidney related ailments. Department is an established regional referral center in nephrology for patient care, clinical activities, training and research.

The kidney transplantation facility was started with a cadaver transplantation in 1987, and an average over 130 kidney transplants per year are being performed. The upgraded kidney transplant unit has cut down the waiting period and improved the intensive care in the immediate post transplant period. The department has 14 beds in kidney transplants units, 54 hemodialysis stations, 8 CRRT machines and 8 bedded Critical Care Nephrology. At present, on an average 2-3 kidney transplants are done per week. From the initiation till date nearly 3000 renal transplantations including 86 ABO incompatible transplants have been performed.

All ICU beds are equipped with ventilators, multipara monitors and pneumatic system for prevention of DVT. The department provides all intervention related services like permacath insertion, Tenckhoff catheter insertion, USG guided kidney biopsy, AV shunt and AV fistula. Intervention Nephrology suit is equipped with C-ARM, Image guided and ultrasound guided vascular access management system. The department has 4 Doppler and ultrasound machines with facility of US guided native and graft kidney biopsy.

The department has in house facilities of renal biochemistry; hematology; hormonal PTH and Vit D assay, molecular HLA, and all transplant immunology related tests. The Renal Lab performs renal acidification tests, peritoneal equilibration test, drug assays. The department runs a state of art Transplant Immunology laboratory which performs molecular HLA typing, donor specific antibody testing and cross matching both by flow cytometry and luminex methods. The renal lab infrastructure includes Flow cytometer, AU 480 for biochemistry, cell counter and coagulation testing system, Architect 1000 for immunosuppressive drug monitoring, Vit D, PTH and other hormone assay facilities and NAT testing (COBAS) facility.

The academic program includes DM training program which was started in 1990. At present 6 DM students are being registered annually. It also offers a Post Doctoral Certificate Course (Renal Transplantation) for post DM students, observer ship and fellowship in Peritoneal Transplantation in collaboration with International Society of Nephrology & International Society of Peritoneal Dialysis

**Award Received by Faculty, Residents, Research Fellows etc.****Prof. R. K. Sharma**

- Member, Planning & Monitoring Board of Datta Meghe Institute of Medical Sciences, Deemed University (DU).
- Board of Governance, Government Institute of Medical Sciences, Greater Noida, UP.
- Emeritus Editor, Indian Journal of Nephrology
- Emeritus Editor, Indian Journal of Transplantation
- Mentee Mentor Award 2018 of International Transplantation Society (TTS).

**Prof. Amit Gupta**

- Chairman, Hospital Revolving Fund, SGPGIMS, Lucknow since 2018
- Emeritus Editor of Indian Journal of Peritoneal Dialysis

**Dr. Narayan Prasad**

- Fellowship of Royal College of Physician (FRCP), London 2018
- Mentor mentee award of The Transplant Society(TTS), 2018 at Madrid, Spain
- Associate Editor, Indian Journal of Nephrology.
- Associate Editor, Indian Society of Organ Transplantation
- Secretary, Indian Society of Nephrology
- Members of Guideline committee- Prevention of Diabetic Nephropathy, Asia Pacific Society of Nephrology-2018

**Dr. Anita Saxena**

- Secretary of Renal Nutrition and Metabolism
- Editor, Journal of Renal Nutrition and Metabolism
- Member Expert for Review Panel to work with The Kidney Disease Outcome Quality Special Initiative (KDOQI).

**Dr. Dharmendra Bhaduria**

- Received La-Renon extra-mural grant by Indian Society of Nephrology 2018
- Council Member of Indian Society of Organ Transplantation
- Editorial Board Member, Indian Journal of Transplantation

## DEPARTMENT OF NEUROSURGERY

The Department has extended full support in the recently inaugurated SGPGI Apex Trauma Centre. Four new faculty members of Assistant Professors level, have joined the department for the trauma center raising our current faculty strength to 13, including 2 neurootology faculty.

Recently, with the addition of following state-of-the-art equipment, the department has started to perform “the next level” surgeries - Complete intraoperative neuro-monitoring system; 24- hour video electroencephalogram; High end operating microscope with intraoperative angiographic and tumor staining technique; state- of- art stereotactic frame; state- of- art skull base neuroendoscopy.

These equipments are being currently employed to enhance the curative potential of surgery. Video- EEG has provided a great impetus to the epilepsy surgery program within the Institute. The department has started performing stereotactic procedures with the state-of- art CRW stereotactic frame and is on its way to develop a functional neurosurgery program in the near future and deep brain stimulation procedures, which very few centers are currently performing in India.

The department is now performing Neuroendoscopic and minimally invasive complex spinal surgeries. The cochlear implant program is well underway and implant surgeries are performed regularly.

The department has operated on nearly 3000 patients in the last academic year with an OPD attendance of more than 35,000 patients. The department has fully functional 5 modular ORs now and the number of surgeries performed has nearly doubled in the last year.

13 visitors (including some of the Guest faculty as Visiting Professor) visited the department last year. Four of these were guests from overseas.

On the academic side, apart from a well established MCh program, the department has started one year postdoctoral fellowship in vascular Neurosurgery. The central editorial office of Neurology India, the official journal of Neurological Society of India, has shifted to the department.

In line with the ongoing interdepartmental academic program of Neuro-radiology conference, we have started a pituitary clinic with endocrinologists and soon going to start movement disorder and epilepsy clinics with department of neurology.

The department is collaborating with IIT, Kanpur and has been able to develop atlanto-axial distraction device, specialized brain retractor and patient stretcher which are in the pipeline for patenting at the moment. Extramural project with IIT kanpur on Pinna Prosthesis.

## Awards Received by Faculty, Residents, Research Fellows etc.

### Prof Raj Kumar

- Selected as the vice chancellor of UPRIMS, Etawa.
- Served as the President, Neurological Surgeon's Society of India

### Prof. Sanjay Behari

- Developed three novel devices in collaboration with IIT Kanpur which being patented.
- Editor-in-chief, Neurology India, the official journal of Neurological Society of India.
- Executive Committee of Neurological Society of India
- Visiting faculty at the Department of Neurosurgery, Medical University of South Carolina, Charleston, USA
- Delivered three orations:
  - a. At Portuguese Neurosurgical Society Annual Meeting, Coimbra, Portugal.
  - b. Prof. Dayanand Rao Oration at the Andhra Pradesh Neurological Society Annual Meeting, Vijaywada
  - c. Bombay Neurological Association Annual Oration, Mumbai
- Edited a book "Practical Neurosurgery: Analysis of clinical cases" as the chief editor which has gained widespread popularity within months of its release.
- Demonstrated operative procedure at Vijaywada and conducted Cadaveric skull base workshops at AIIMS, New Delhi
- Several guest lectures
- Honored Guest lectures at Department of Neurosurgery, Medical University of South Carolina, Charleston, USA; Annual Spine Congress, Rio de Janeiro, Brazil, and Durban, South Africa. Conducted Luncheon Seminar at Congress of Neurological Surgeons, Boston, USA
- Examiner of Neurosurgery at 5 national universities

### Prof. Awadhesh Kumar Jaiswal

- Obtained fellowship of endoscopic skull base surgery, Pittsburg, USA
- Delivered multiple invited talks on endoscopic skull base surgeries and orbital tumor excision in various national/international conferences

### Dr. Arun Kumar Srivastava

- Published two operative techniques on Craniovertebral junction surgery namely "the knock and drill technique" and "posterolateral drilling of ventral bony offender"



- Delivered multiple invited talks on Craniovertebral junction surgeries and spinal instrumentation techniques in national/international conferences
- Started advanced craniostomosis repair surgery
- Developing a novel neural tube for nerve repair in the animal model

**Dr. Anant Mehrotra**

- Completed a fellowship in epilepsy surgery from SCTIMS, Trivandrum
- Developing minimal invasive spine surgery program as well as the epilepsy surgery programme in the department
- Delivered invited lectures on minimally invasive spine surgeries at various forums
- Assistant Editor, Neurology India

**Dr. Amit Keshri**

- Did 1st Bone Bridge Implant of North India (3rd in India) along with 24 Cochlear Implants in the last year.
- Multiple national guest lectures

**Dr. Kuntal Kanti Das**

- Developing peripheral nerve surgery and functional neurosurgery programme
- Included in the editorial board of Indian Journal of Neurooncology
- Assistant Editor, Neurology India

**Dr. Jayesh Sardhara**

- Completed a fellowship in epilepsy surgery from SCTIMS, Trivandrum
- Developing minimal invasive spine surgery program as well as the epilepsy surgery programme
- Assistant Editor, Neurology India

**Dr. Kamlesh Singh Bhaisor**

- Developing neurointerventional services within neurosurgery department
- Assistant in-charge, Apex trauma center, SGPGIMS, Lucknow
- Developing image guided neurosurgery subspeciality in the department
- Assistant Editor, Neurology India

**Dr. Ravishankar M**

- Completed lateral skull base fellowship at Bangalore

- Did 1st Bone Bridge Implant of North India (3rd in India) along with 24 Cochlear Implants in last year.
- Delivered invited talk on “Beginner challenges in the management of spectrum of skull base pathologies”, KIMS, Calicut, Kerala.

#### Senior Residents:

- Dr Suyash Singh has won Young Neurosurgeon Award in International Neurosurgery Update 2018, Mumbai with 1st prize in Best paper category as well as young Neurosurgeon Grant from World Federation of Neurosurgery for award paper presentation in Kuala Lumpur, Malaysia 2018
- Dr Jaskaran Singh and Dr Jeena Joseph have won travelling fellowships for attending International conferences in Europe and USA respectively.
- Dr Jaskaran Singh has been selected for the “Young Neurosurgeon Award” by the Prague Neurosurgical Society, Czech Republic

#### Creation of New Facilities/Treatment Offered to Patients

- Recently, with the addition of certain state-of-the-art equipment in our department, we have started to perform “the next level” surgeries.

These include:

- A complete intraoperative neuromonitoring system,
- A 24- hour video electroencephalogram
- A very high end operating microscope with intraoperative angiographic and tumor staining technique.
- State of the art stereotactic frame
- State of the art skull base neuroendoscopy

Video- EEG has provided us a great impetus to the epilepsy surgery program. The department has started performing stereotactic procedures with the state of the art CRW stereotactic frame and is on its way to develop a functional neurosurgery program in the near future and deep brain stimulation procedures, which very few centers are doing in the country.

- The department has successfully conducted DNB practical examination in April, 2018.
- Ms Rachna Mishra a nurse in Neurosurgery ICU and Dr Jayesh Sardhara has published on a cost effective alternative for preventing cranial bedsores in critically ill bed ridden neurosurgical patients.

## DEPARTMENT OF NEUROLOGY

The Department has streamlined the use of nanomembrane-based therapeutic plasmapheresis using the Hemofenix machine. Electroencephalography (EEG) and nerve conduction studies (NCV) in the Neurology OPD. This has facilitated efficient patient management. A comprehensive epilepsy management program has been started, of which epilepsy surgery is a part which is a collaboration between Neurology, Neurosurgery and Neuroradiology. On research front, they have Intramural, extramural and Multicentric drug/device related research projects to their credit.

### Awards and Recognition of the Faculty

- Dr. Sunil Pradhan delivered the Dhamija Oration at the DNA Neurology Conference in July 2018, and the Keynote Address at IMA West Bengal in August 2018.
- Dr. Jayantee Kalita was awarded the Outstanding Faculty Research Award conferred by Career 360 for contribution to the field of Neurosciences.
- Dr. Ruchika Tandon has joined the department as Assistant Professor in June 2018.

We have streamlined the use of nanomembrane-based therapeutic plasmapheresis in our department using the Hemofenix machine.

We have also initiated electroencephalography (EEG) and nerve conduction studies (NCV) in the Neurology OPD itself which has facilitated efficient patient management.

A comprehensive epilepsy management program has been started, of which epilepsy surgery is a part which is a collaboration between Neurology, Neurosurgery and Neuroradiology.

## DEPARTMENT OF NUCLEAR MEDICINE

The Department was started with two planar gamma cameras, Headtome; a dedicated SPECT system for the head region and a dual photon x-ray bone densitometer. Today, the department performs over ten thousand diagnostic and therapeutic procedures per year using various radio isotopes at reasonable cost.

Following its inception, the department has acquired newer technology of SPECT-CT (3 such systems). After adding PET-CT imaging for general oncology and neuro-endocrine tumors, the department is counted amongst the leading centres of the country which offer such advance imaging services for patients. The establishment of Cyclotron facility enhances the number of patient diagnosed, as well as new radio labelled tracers such as  $^{11}\text{C}$ -Methionine,  $^{11}\text{C}$ -Choline,  $^{13}\text{N}$ - $\text{NH}_3$ ,  $^{18}\text{F}$ -FES, Ga-68 based

peptides were introduced to diagnose various diseases. With the production of Cu-64 radio-isotope we stand first in country and few across the globe, having such a facility. Cu-64 in PET imaging has diagnostic and its therapeutic potential that needs to be fully explored in various clinical situations.

Economical therapy for liver cancer patients was devised following in-house radio-pharmaceutical production. Department has taken steps to provide cheaper I-131 Lipiodol therapy. This step is likely to bring down the cost of this therapy from Rs.6.0 lacs to Rs.40.0 thousand per treatment. This goal will be achieved by using carrier free I-131 available from BARC, Mumbai.

PDCC course in Correlative Imaging and Radionuclide Therapy and Masters in Nuclear Medicine technologies with BBAU, Lucknow, has given the department the necessary lead in generating skilled and trained manpower in the state of UP.

Apart from patient care, the department is actively involved in research and development, in collaboration with various renowned institutes such as IIT-K, CDRI-Lucknow, AMU-Aligarh, University of Alberta, Canada, and has received grants from funding agencies such as DST, MHRD and DBT.

## DEPARTMENT OF OPHTHALMOLOGY

It has recently moved to the new OPD block. With increase in space and amenities, training and patient related activities such as out patient and OT services have increased and improved. The patient number and surgical procedures have increased manifold in the past one year. The department has become a referral centre for complicated cataract surgery and the number of cataract surgeries have seen a steep rise since last year. Additionally, refractive surgery, oculoplasty and glaucoma units have been functional and catering to complex referrals from within the state. The neuro-ophthalmology unit is the oldest and most developed unit and is conducting complex neuro ophthalmology surgeries including optic nerve surgery bringing the department on an international platform. The department has fully functional retina unit with dedicated retinal surgeons. Now the department is catering to all sorts of advance retinal surgeries on regular basis and have been receiving referrals from all over the state. The department is currently a nodal point for of ARC (academic and research committee) of AIOS which is another milestone for the department as well as the institute.

## DEPARTMENT OF PATHOLOGY

The Department continues to offer an ever increasing number of services for histopathology, cytopathology, immunohistochemistry, frozen section biopsy, immune-fluorescence - to name a few. It extends its support to the core laboratory facility being run by the department of Molecular Medicine. A 120kv-Transmission Electron Microscope (TEM) was installed last year and is now being routinely used for patient care. It has major role in diagnostic evaluation especially renal and neuro-muscular biopsies. It is a state of the art tool for teaching and training of students and for research purposes.

The department is committed to provide comprehensive training to medical students enrolled in the MD program. Apart from that, several PhD students are enrolled to pursue research in the field.

## DEPARTMENT OF PEDIATRIC GASTROENTEROLOGY

The Department is considered to be an apex referral institute for the subcontinent. The department has started two new diagnostic tests for children, which include Endoscopic ultrasound and Capsule Endoscopy. This is the only department in the country that is offering a DM course in Pediatric Gastroenterology. Despite being a busy clinical specialty, the department remains very enthusiastic in research and the faculty has several projects and publications to its credit. Faculty has been acknowledged for its eminent work with prestigious orations and awards.

### Awards and Recognition of the Faculty

- Prof SK Yachha Delivered “PN Chuttani Oration” by Indian Society of Gastroenterology.
- Prof Anshu Srivastava elected as Secretary of Indian Society of Pediatric Gastroenterology and Hepatology (ISPGHAN) for 2018
- Dr. Moinak Sen Sarma received the APASL Young investigator award in 27th annual meeting of Asia Pacific Association for Study of the Liver (APASL), New Delhi, 2018
- Dr. Nagendra Kumar received Young Investigator Award in 51st Annual meeting of ESPGHAN, Geneva, Switzerland, 2018.
- Dr. A Ravindranath received Presidential award in 26th Silver Jubilee Annual meeting of INASL, New Delhi, 2018

## DEPARTMENT OF PEDIATRIC SURGICAL SUPER-SPECIALTIES

The Department provides a comprehensive, dedicated & holistic surgical care to pediatric population suffering from complex congenital or acquired surgical disorders. The department offers Post-doctoral Fellowship (PDF) in Pediatric Surgical Gastroenterology. The department runs an independent Neonatal and Pediatric Surgical ICU equipped to provide level 3 care to critically sick pediatric surgical patients. It provides quality surgical care to the entire spectrum of high end pediatric surgery that includes pediatric surgical gastroenterology, pediatric oncosurgery (including chemotherapy administration), pediatric endoscopic surgery (laparoscopy, cystoscopy, bronchoscopy & thoracoscopy), pediatric urology, pediatric thoracic surgery, neonatal surgery and pediatric neurosurgery. The uniqueness of this department lies in its concept of encouraging development of pediatric surgical sub-specialties.

The department strives to treat every “unwell” baby with a meticulously planned, carefully monitored, evidence based management protocol. To improve patient outcomes, other domains of emphasis are: “patient safety”, nursing education, clinical nutrition and strong interdisciplinary coordination with allied specialties. The department handles a significant number of complex surgeries in high risk small babies (with or without) congenital anomalies.

The biggest strength of the department has been clinical and academic experience with a challenging spectrum of Paediatric Biliary, liver, pancreatic, luminal Gastrointestinal Surgery and Surgery for Gastrointestinal bleed. We are a High volume national level referral centre for Pediatric Hepatobiliary & GI Surgery.

A 30 bedded dedicated Paediatric Surgery ward includes a Pediatric Surgical Intensive care unit. Apart from that, a busy outpatient clinics and elective operation theaters function on 6 days of the week, and emergency services run round the clock. Day care chemotherapy for Pediatric solid tumours and Pediatric stoma care clinics are fully functional and busy.

The Pediatric Surgery ward was awarded the “Best Maintained Ward” on the Republic Day (January 2018).

## DEPARTMENT OF PLASTIC SURGERY

The Department is providing comprehensive state of the art services in all the subspecialties of plastic surgery including cosmetic surgery, craniofacial surgery, brachial plexus surgery, peripheral nerve surgery, hand surgery, burn reconstruction, reconstructive surgery and micro vascular surgery. The

wards of the department are fully functional and operational to deal with all types of plastic surgery care. The department has recently started Endoscope assisted breast augmentation / reduction and Brachial Plexus and Peripheral Nerve Surgeries. The department has acquired a CO2 laser and is gearing up to start offering facial cosmetic surgery including treatments for wrinkles, dark skin and other skin lesions.

During the boiler blast tragedy at the NTPC Unchahar plant in Rae Bareilly, that was declared as a national disaster, the department played a key role in managing the victims that were brought to SGPGI. Many of these victims were brought in a critical condition requiring ICU care and Plastic surgery services. The department provided plastic surgery emergency support along with other departments. Some of these victims underwent multiple rounds of reconstructive surgery, carried out in the department, before they could resume normalcy in their lives.

### **Awards and Recognition of the Faculty**

- Dr. Rajiv Agarwal conferred fellowship of Royal College of Physicians and Surgeons of Glasgow
- Dr. Ankur Bhatnagar elected as Secretary of Breast Reconstructive and Aesthetic Surgeons Association
- Dr. Ankur Bhatnagar appointed as the Sub Dean - Student Affairs and Training at SGPGI

## **DEPARTMENT OF PULMONARY MEDICINE**

The Department came into being under the PMSSY scheme in July 2009 with an objective of providing quality care to patients attending this hospital and giving state of the art medical facilities which are not available in surrounding regions of Uttar Pradesh. Also, it aims at establishing new paradigms in areas of research.

Outpatient services were started right from the inception of the department however indoor facilities came into being in a couple of months. Indoor services started with a five bedded general ward and a six bedded intensive care unit which is catering all kinds of pulmonary disorders and critically ill patients requiring intensive monitoring and mechanical ventilation.

Today, the department has become one of the major referral centers in Uttar Pradesh for all kinds of pulmonary diseases and disorders. It runs one of the busiest outpatient departments in SGPGI at present with an OPD attendance of more than 20,000 patients in the last year. It has indoor services with a 14 bedded general ward and a 8 bedded intensive care unit which is caters to all kinds of pulmonary disorders and critically ill patients requiring intensive monitoring and mechanical ventilation.

The inception of the department coincided with the wave of pandemic H1N1 influenza which came as challenge to medical fraternity and the department got the opportunity to manage these patients. The pandemic influenza patients are being managed primarily under our department since beginning. Dr. Alok Nath is the nodal officer for management of Swine Flu in SGPGI. Due to persistent viral activity and large number of patients a 12 bedded ICU has been constructed exclusively for swine flu patients.

The laboratory and special services that the department offers are -Bronchoscopy laboratory, Complete Spirometry and Body Plethysmography laboratory, Sleep Laboratory, Interventional Pulmonology Unit.

The department is the only one in state of UP, offering the facility of rigid and flexible bronchoscopy and endobronchial interventions such as thoracoscopy, airway stenting, tumor debulking, foreign body extraction, Endobronchial ultrasound (EBUS) for mediastinal lesion sampling and evaluation, cryoprobe lung biopsies, endobronchial laser for management of airway lesions. A dedicated Interstitial Lung Disease Clinic is also one of its kind in whole of UP and adjoining states.

### Recently Added Facilities

Interventional Pulmonology unit was started with the following facilities:

- Medical Thoracoscopy
- Rigid bronchoscopy and endobronchial interventions.
  - Airway stenting
  - Tumor debulking
  - Foreign body extraction

### Future Plans

- The department is in the process of procuring an equipment for sampling and diagnosis of lung parenchymal lesions under full image guidance called Virtual Bronchoscopic navigation which aid in accurate diagnosis of smaller non targetable lung lesions.
- Therapy resistant asthma is an important and challenging clinical problem and Bronchial thermoplasty is an upcoming modality for its management. The department intends to procure this equipment.
- The department will be starting a lung cancer clinic from the next year which shall cater to all the patients with lung malignancies.



- The department aims to start DM program in Pulmonary and Critical Care Medicine in next few years and also other academic programs like Phd. in stem cell therapy in various pulmonary diseases and disorders
- As a long term plan the department also looks forward to start lung transplantation with collaboration of other departments so that it can become the center of excellence for pulmonary diseases and disorders.

A PDCC in Interventional Pulmonology has been started since last academic year (2 seats per year)

## DEPARTMENT OF RADIODIAGNOSIS

The Department has always been in the forefront in advanced diagnostic imaging and interventional radiology work. The addition of bi-plane DSA last year has given an impetus to vascular interventional work. Angioplasty of AV fistula in dialysis patients has significantly increased and the neurovascular as well as other vascular work has grown. Long awaited elastography ultrasound services have started this year, with the installation of high-end ultrasound equipment. A 128 slice CT is being installed in the department. This will augment the diagnostic and image guided interventional services at the department of Radiodiagnosis. Earlier last year an MOU was signed between SGPGIMS and CBMR, and now the SGPGI Radiologists are using the latest state of art 3-Tesla MRI scanner for patient care at CBMR. This has helped in reducing the patient's waiting time at SGPGI MR Scanner. In addition, some newer MRI applications like whole spine screening, CSF flow study etc. have also started. The conventional CR based bed side/ICU services were also strengthened and additional ultrasound and radiography services have been started for outpatients in the New OPD. Radiology is also contributing to the services at Apex Trauma Center, SGPGIMS. Four new appointments for Assistant Professors have augmented the work force for the department. On the academic side the department of Radiodiagnosis, which already offers the much-coveted MD Radiodiagnosis course. PDCC in Neuro, Vascular & Gastro Radiology are running, apart from short term training.

## DEPARTMENT OF RADIOTHERAPY

The department has received a grant of 41.5 Cr. (later increased to Rs. 45Cr) from Ministry of Health and Family Welfare and UP State Government, under the Tertiary Cancer Care Centre (TCCC) scheme for upgrading the cancer treatment facilities. The department has utilized the first installment of the grant for replacement of existing equipment to state of the art Linear Accelerators along with networking system. The plan to utilize the rest of the funds is in place, and it would be implemented as soon as possible.

Hospital Based Cancer Registry, which started last year, is in full swing with daily cancer data transfer to ICMR, Bangalore. Multidisciplinary clinics have gained momentum in most sites. Palliative cancer care is being provided to patients of advanced cancers on outpatient clinic basis. The department has made an attempt to train the nurses, student nurses and residents from within the Institute in palliative cancer care. Since the awareness towards palliative care in the state of UP is woefully inadequate, the department organized a meeting cum workshop with the government state officials and the stake holders such as district medical officers, with the aim of augmenting Palliative care services in the state of Uttar Pradesh.

Since the department strives to provide holistic care till the very last, a support group meeting for breast cancer survivors was held with the aim of providing support, networking among each other and exchange of knowledge for these patients who have managed to move beyond their cancer and its treatment.

### Faculty Achievements

- Dr. Shagun Misra, Assistant Professor Radiotherapy 1 year clinical fellowship in Breast Oncology at Princess Margret Hospital, Toronto, Canada

## DEPARTMENT OF SURGICAL GASTROENTEROLOGY

The Department is an academically sound department and has always been committed to good training of the students and residents. Apart from taking care of the educational interests of their own trainees, they have always conducted short term/ week long courses for the benefit of students from other Medical colleges.

It has recently launched a comprehensive laparoscopic surgery program that includes surgeries for colorectal and esophageal disorders. Joint tumor clinics with sister disciplines such as department of Radiotherapy, for stomach-esophagus, colo-rectal cancers and hepato-biliary diseases, are running in full steam.

The Center for Hepato-biliary Diseases and Transplantation is ready and will be operational in a few weeks time. It is a 112 bedded facility, and a part of department of Surgical Gastroenterology. Once functional, liver transplantation using cadaveric and live donor livers will be resumed. This centre will cater to all Hepato biliary disorders - both medical and surgical, for all age groups from neonatal to geriatric, including transplantation of all abdominal viscera under one roof.

### Faculty Achievements

- Prof. Rajan Saxena delivered Amasi Oration at the 77<sup>th</sup> Annual Conference of the Association of Surgeons of India at Jaipur
- Prof. Rajan Saxena was appointed as an External Examiner for DM Surgery Exam at the University of West Indies at Jamaica, Barbados, Trinidad and Tobago (St. Augustine Campus) in 2018.
- Prof. Ashok Kumar was awarded FRCS (Edinburgh)
- Prof. Ashok Kumar was elected as the President of the Association of Colon and Rectal Surgeons of India.
- Prof. Ashok Kumar became the President Elect of Association of Surgeons of Uttar Pradesh.

## DEPARTMENT OF TRANSFUSION MEDICINE

The Department has initiated new advanced treatment modalities which are currently not available in Government run Hospitals, in the state of UP. For instance, State of the art transfusion support including leuco-filtered and gamma irradiated blood components are being provided to patients such as Bone Marrow Transplant recipients, intra uterine transfusions, exchange transfusion etc. The department is also actively providing laboratory support for diagnosis of Passenger Lymphocyte Syndrome in ABO incompatible transplants.

Therapeutic Plasma Exchange was started in 2018 as a life saving treatment modality for various neurological and hematological disorders. The program is now well established and approximately 80 patients have been benefitted with this procedure.

The Autologous Platelet Rich Plasma therapy has now been attempted in patients with Osteo-radionecrosis of mandible with encouraging results.

The department is first of its kind to have developed molecular laboratory with basic facilities for molecular immune hematological investigations in India. Real Time PCR (RT-PCR) is now available with the department and protocols for Human Platelet Antigen typing are being developed for transfusion support in patients with platelet refractoriness.

## Faculty Achievements

- Prof. Anupam Verma was awarded with “Best Poster Award” in Master Coagulation Class organized by Dept of Hematology, Sir Ganga Ram Hospital New Delhi
- Prof. Anupam Verma was felicitated by MOH, Govt of India for Hemophilia Program of State of UP.
- Dr. Rahul Katharia, Associate Professor was awarded prestigious Herald Gunson Travel Fellowship from International Society of Blood Transfusion to attend their congress in Copenhagen, Denmark.

## DEPARTMENT OF UROLOGY

The Department routinely does renal transplantation procedure for the past several years. They have also hand held other Urology services guiding and assisting in the initiation of Renal transplantation programme. In uro-oncology subspecialty, the department has recently started laparoscopic radical prostatectomy, radical cystectomy with gohenim orthotopic neobladder, mini PCNL, TUEB (Transurethral Enucleation of Prostate by Bipolar). The department is committed towards academics therefore, apart from the MCh and PhD programs; the department is also running a post doctoral fellowship in Pediatric Urology and Transplantation.

## Faculty Achievements

- Dr. M.S. Ansari received Best Paper Award at European Society of Pediatric Urology Meeting 2018 at Helsinki, Finland.
- Dr. Sanjoy Kumar Sureka joined the department as Assistant Professor in June 2018.
- Dr. Priyank Yadav have joined the department as Assistant Professor in June 2018
- Department is running an extramural research project entitled “MMP 1,3,9 and TIMP 1 & 3 Gene Polymorphism in Renal Transplant Recipients” funded by UPCST, Lucknow with Dr. Aneesh Srivastava as a Principal Investigator

**GENERAL HOSPITAL** bridges the gap between primary and tertiary level health care in SGPGI ever since its inception. There is a team of specialist doctors comprising of a Surgeon, Physician, Pediatrician, Gynecologists, and a Dermatologist. It provides medical care to the staff, their dependants, and to general public. The Medicine OPD caters to ailments such as fever, anemia, tuberculosis, infective, metabolic and lifestyle diseases. The Pediatrics specialty has been recognized for its work in the Neonatal Resuscitation Programme (NRP), Pediatric Advance Life Support system (PALS) and Adolescent care. The Obstetrics and Gynecology facility manages normal

deliveries, caesarian sections and pelvic inflammatory diseases. They also hold an active interest in the gynecological malignancies and have conducted CMEs for the same. The General Surgery facility takes care of minor and major procedures not under the purview of the super specialties. Similarly, the dermatologist has a load of dermatological conditions to manage.

A Tuberculosis unit functions at the General hospital under the RNTC (Revised National Tubercular Control Program). It provides free of cost sputum microscopy, treatment for pulmonary and extra pulmonary Tuberculosis and Multi drug resistant TB. The General Hospital team is committed to participate in the National Polio Eradication Programme by administering polio drops to children on the stipulated dates. Childhood and adult as well as pre-travel and animal bite vaccines are all managed in the General Hospital.

**BIOETHICS CELL** Institute's Bioethics cell continues to remain very active by meeting up once every 2 months to discuss all research proposals. These meetings are conducted by a well spread out quorum of members in the committee.

Director Prof. Rakesh Kapoor, inaugurated software developed by the Bioethics Cell for submission of projects by the faculty of the Institute in July this year, during the FERCAP Institutional Ethics Committee (IEC) survey. Prof Vinita Agrawal, Member Secretary, IEC, was instrumental in getting it developed.

**CAMPUS DEVELOPMENT ADVISORY COMMITTEE** has the mandate of advising the Director regarding all activities related to campus development and maintenance.

Apart from addressing various issues related to complaints received from time to time from the campus residents, the committee has recommended following activities:

- With the purpose of providing direct and easy access to the main patient care areas of the hospital including New OPD, parking facility for patient and their attendants, the committee has recommended for creation of second gate opening on Raebareli road and parallel to the existing main gate of the Institute, and the approach road leading to the proposed new gate needs to be widened for smooth flow of traffic.
- In view of the ever increasing load of patient and other vehicles to the hospital premises, the committee has recommended construction of two multilevel parkings (one for staff and another for patients) with capacity to accommodate approximately 5000 or more vehicles.
- The committee also recommended repair of entire road along the boundary wall. In addition, it was also recommended that the stretch of road leading from in front of nurses condominium to the new campus needs to be provided with suitable street lights along with provision of pavement on one side of the road.

**Hospital Revolving Fund (HRF)** : It was established in 1997 with the approval of Institute Governing Body and a loan of Rs. 50.00 lacs has withstood the test of time in pursuing its operational with self-sustainability & the motto of Mission Supply All” has fulfilled its aim and objectives by ensuring round the clock availability of drugs & consumables. HRF has ensured bedside availability of quality items at reasonable rates procured by national open tender, where response of participating bidders has been overwhelming as all leading, reputed & multinational companies dealing in pharmaceuticals & surgical consumables have responded. This has met the essential requirement of drugs & surgical consumables for the hospital. It caters for all indoor patients, diagnostic/procedural centers, OT and ICU’s. Bedside delivery at reasonable rates (much lower than MRP) is provided as direct service to patients. The drug dispensing is ON LINE with transparency and accountability. Cost realization from the patients is just to ensure economic viability of the system and make it self-sustainable. HRF functioning is monitored by chartered accountant; local fund audit and AG audit which aid in keeping the financial viability intact.

In year 2017-18 HRF has initiated the following prominent activities:

- E-tendering process has been adopted for procurement of Disinfectants, CSSD and Cath Lab consumables items etc.
- As per Government NPPA guide line HRF is providing the coronary stents to the related patients well within the ceiling price as fixed by NPPA.
- It also needs to be emphasized that HRF has modified all the existing Rate Contracts, according to application GST well within stipulated time.
- HRF has successfully commenced its activities in the Apex Trauma Centre through two peripheral stores – one solely for OT area and the other for ward & emergency area and ensured to supply all the Ortho / Neurosurgery / Maxillofacial implants and all other consumables & medicine related to Trauma Centre.
- HRF team has managed to procure the items required for the Apex Trauma Centre in a very short time.

**Investigation Revolving Fund (IRF)** : It was established in the year 2003 and ever since its inception has been making strong and outstanding contribution in the improvement of Laboratory services of the Institute. It has successfully been providing uninterrupted supplies of all laboratory consumables on the “Principal of Self-sustainability”. It has changed the views and opinion of all stakeholders over a period of time. IRF has successfully finalized a contract towards the creation and establishment of 24 hours lab in the Main OPD area of the Institute for routine tests and investigations throughout the year irrespective of weekends and holidays. This lab has been made functional in the December 2015. The services of 24 hours Lab have also been extended to the Apex Trauma Centre

which is functional from July, 2018.

New open e-tender for supply of diagnostic kits, reagents and chemicals has recently been floated, following which technical bids have been opened. This e-Tender is actively under process and would be finalized in couple of months.

**Kamdhenu Ati Nirdhan Chikitsa Sahayata Society** ([www.kamdhenusociety.in](http://www.kamdhenusociety.in)) : It is an autonomous registered society (Registered under UP Societies Registration act 1860, Registration no 1268). It provides financial assistance to poor/ needy patients who report to SGPGIMS seeking treatment. In the financial year 2017-18, financial assistance was provided to poor patients from the state, which otherwise would not be able to continue the treatment - 1489 patients have received financial assistance amounting to Rs. 1,61,40000.00. The total donation received by the society from different sources was Rs.4, 64,482/-. With this financial aid, patients have had major surgeries/ transplantation/ treatment of major illnesses/cancer treatment done at SGPGI.

The **Central Library** of SGPGIMS was established to meet the health information requirement of various academic programs of the Institute. The Library holdings are accessible everywhere through WEB OPAC (Online Public Access Catalogue). The Library provides its services round the clock by 12 library professionals. More than 62, 000 bound volumes of journals and books and 291 current journals are available in the library. The Library is subscribing to CLINICAL KEY, a comprehensive data base of Elsevier, having more than 600 e-journals, 1250 e-books and much more. The Library has access to 244 e-journals from 5 publishers through ERMED Consortia. This has been provided by National Medical Library, Govt of India. New Library Building is operational and is providing a number of added facilities for readers.

## COLLEGE OF NURSING

It is in the eighth year of recognition of National Schedule for B. Sc.(Nursing) program by the Indian Nursing Council. The requirement of the adequate number of teaching staff has BEEN met by way of in-sourcing, as an interim measure and at the same time, part time teachers have also been empanelled for all the non-nursing subjects. The college will soon be enriched by 08 permanent teaching staff, recruitment process for which is underway.

NHM, UP with technical partner Jhpiego and IGNOU have given approval for SGPGIMS Institute as Program Study Centre for commencing the new course i.e. Bridge Programme of Certificate Course in Community Health Nursing (BPCCHN) under Dept. of Hospital Administration with collaboration of College of Nursing. College will soon be commissioning the M.Sc. (N) program,

Post Graduate Certificate Course in Critical Care Nursing apart from Certificate Program in Super specialty Nursing. Mrs. Bhumika Singh and other teaching staff have put efforts for making proposal for state skills lab and other nursing labs. Approvals have been obtained for establishment of State Skills Lab for Nursing Training and efforts are being made for its early commissioning. Grant has been approved from Green Gas Limited for strengthening the nursing labs of CON.

B.Sc. Nursing students are being sent to Virangana Avanti Bai hospital, KGMU and Mohanlal ganj for their clinical training, in addition to the clinical training received at SGPGIMS. Ms. Rashika Lal, 3<sup>rd</sup> yr student received scholarship from Students Nurses Association of India (TNAI) on her academic performance. Three students have been admitted (Supernumerary Quota) under the Prime Minister's special scholarship scheme for students who belong to Jammu and Kashmir.

College of Nursing organized the Foundation Day and Oath Ceremony of B.Sc. Nursing 1<sup>st</sup> year students on 1<sup>st</sup> February 2018. The first year students, as is the tradition, are welcomed and sensitized through an Induction programme. The college organized a one day Continuing Nursing Education (CNE) program on Research Methodology recently. Teaching faculty presented their research paper at National Workshop on Recent Amelioration of First Aid at KGMU. Mr. K Halemani was awarded certificate for best paper presentation at this national workshop.

Sports events & Cultural programs are being organized at appropriate occasion to foster extra-curricular interests for the students. Students of the college won first prize in quiz competition at a National conference under State Student Nurses Association at Medical College, Guntur, Andhra Pradesh.

## COLLEGE OF MEDICAL TECHNOLOGY

One of the prime objectives of the Institute has been to provide training in paramedical and allied fields, particularly in relation to super specialties. To achieve this objective, the College of Medical Technology has been set up to impart education, training & research in the field of Para-medical & Medical Technology. Following necessary approvals, a Core Committee has recently been set up, under The School of Medical Technology that has decided to run courses leading to B.Sc., M.Sc, degrees in different specialties. The following courses have been approved: M.Sc. in Medical Laboratory Technology (Virology); M.Sc. in Medical Laboratory Technology (Transfusion Medicine); M.Sc. in Medical Bio-Technology; B.Sc. in Operation Theatre Technology; B.Sc. in Renal Dialysis Technology; B.Sc. in Anesthesia Technology; B.Sc. in Imaging Technology (Radio-diagnosis); B.Sc. in Radiotherapy Technology; B.Sc. in Respirator Care Technology; Bachelor of Physiotherapy (BPT); B.Sc. in Medical Laboratory Technology (Hematology). Approvals from the UP Govt, statutory bodies



including AERB permission has been obtained and the courses have been rolled out. Following the admission process, first batch of medical technology students (34 BSc and 8 MSc) have been selected and the teaching session has started in all earnestness.

**SCHOOL OF TELEMEDICINE AND BIOMEDICAL INFORMATICS** leads the national initiative for networking the Medical Colleges over National Knowledge Network, a backbone for facilitating knowledge exchange. The School has been receiving grant-in-aid from MOHFW every year to support its activities, maintain infrastructure and upgrade old equipments. Current activities of School of Telemedicine include - creation of computer assisted collaborative learning workplace which will facilitate launch of new activities alike e-Tumour board, remote clinical decision support system, Tele-radiology support service, Inter-disciplinary educational sessions; creation of advanced medical /surgical visualization (3D, 4K, edge blending, multiview) lecture theatre system to facilitate application of futuristic educational technologies; up-gradation of existing digital operation theatre of Department of Endocrine surgery to “Advanced Integrated Operation Theatre of the Future” . Current statistics of Video Conferencing (September 2001-July 2018): Tele-education session -3918; Tele healthcare session - 1757; Total Tele medicine session- 4892; Clinico-patholcal conference (CPC) received from - 270; Clinical Grand Round sharing with remote partners - 329; CME’s shared - 172 (Video conferencing in hours -1867). The School of Telemedicine has been associated with the design and development of e-health and Telemedicine tools for Rural Health Care. Mobile Telemedicine Systems (MTS) have been developed under extramural research grant and NGO support. One such unit has been developed in a bus that goes to different rural areas as per a schedule. It provides specialty health care consultation and health check up, besides creating health awareness in the community. In compliance with the directive of Telemedicine Division, MOHFW, Govt. of India for setting up the Mobile Telemedicine van for providing the tele-health services at rural area of Mirzapur district. The bus travelled to five locations to carry out health check up. Electronic Medical Record (EMR) using Telemedicine software including vital parameters of each patient was taken.

SGPGI has been identified as the National Resource Center for the National Medical College Network project in the year 2010. Highly advanced Information & Communication Technology and electronics infrastructure resource has been created to support this pan India project.

SGPGI has been assisting Telemedicine Division, Ministry of Health & Family Welfare, Govt. of India to design, develop & implementation of CollabDDS Online Radiological Services (CORS) on pan India basis in collaboration with National Informatics Center.

The school of Telemedicine has assisted IMS, BHU, Varanasi in establishment of Regional Resource Center (RRC) for eastern India, and is currently assisting Govt. Medical College, Trivandrum for establishment of a Regional Resource Center (RRC) in Southern region. NRC, SGPGI, played a key

role in establishment & operation of Telemedicine facilities in the religious places of UP - Kashi Vishwanath Temple, SSPG Divisional Hospital, Kabirchura, Varanasi etc

**Animal House :** The new animal house is an important addition to the research activities of the Institute. A well developed Animal House plays a key role in pre-clinical research as well as caters to the educational needs of any Institute. This facility at SGPGI has parallel capabilities of research in small as well as large animals under the guidance and supervision of Prof. T. N. Dhole and Dr. A. K. Baranwal.

Animal house has permissions form CPCSEA (Committee for the Purpose of the Control and Supervision of Experimentation on Animal), Govt. of India (Under Ministry of Environment, Forest and Climate Change) for animal breeding and experimentation. CPCSEA approved IAEC (Institutional Animal Ethics Committee) is working at the Institute level, which is responsible for ethics and welfare of research animals.

Dr. A. K. Baranwal has started several short term training modules of Laboratory Animal Science Practices and trained more than 100 students. In the past one year more than 10 small animal studies have been approved by IAEC for experimentation. In comparison to previous years few more clinical departments have shown interest in animal research and got approval for the same.

### **Institute Balance Sheet**

Current financial status of the Institute is as follows -

During financial year 2017-18 as a part of the capital expenditure, Rs. 40.00 Cr for construction work, Rs.24.69Cr for purchase of medical equipments was received from Govt. of UP. The major projects funded under the capital head are construction of 134 Beds Old OPD Block, 40 Type IV Houses, New Diagnostic Block, Fire fighting and electricity connection of Lecture Hall and Library building, 100 flats of New Married hostel and research student Married hostel, up-gradation of old lift system, Neurosurgery OT & ICU, old AC system. An additional grant of Rs.19.05Cr (as first installment from central government and its state share) has been received under the Tertiary Care Cancer Centre (TCCC) scheme, being managed by the department of Radiotherapy, under the National Programme for Prevention and control of cancer, Diabetes, Cardiovascular Diseases & stroke (NPCDCS).

During financial year 2017-18 under the revenue head, a grant of Rs.352.14Cr for pay & allowances and Rs. 117.00Cr for other than pay & allowances was received from Govt. of UP. Adding the Institute Internal income of Rs. 58.85Cr, the total receipts were Rs. 527.99Cr, against which the expenditure of Rs. 476.84Cr was incurred including pay & allowances, wages, other hospital expenditure and

various other heads. Rs. 2.00Cr for free medical facilities to be provided to the BPL patient was received as a single time grant from Govt of UP.

For the financial year 2017-18 an additional grant of Rs 30.62Cr has been received for the Trauma Centre. Out of which, Rs.1.87Cr is for construction activities, Rs.22.50Cr for medical equipments, & Rs.6.25Cr for other than pay & allowances has been allotted by the Govt. of UP.

For the financial year 2018-19, under the capital head Rs. 60.00Cr for construction of ongoing projects and Rs.30.00Cr for medical equipments of various departments has been allotted. An additional grant of Rs.18.00Cr (committed state share) has been sanctioned for Tertiary Care Cancer Centre (TCCC) under National Programme for Prevention and control of cancer, Diabetes, Cardiovascular Diseases & stroke (NPCDCS). Under Revenue head Rs. 488.80crore for pay & allowances, Rs. 19.42Cr for payment of arrears of 7<sup>th</sup> pay Commission & Rs. 200.00 crore for other than pay & allowances has been allotted by the Govt. of U.P. Institute's Internal income of Rs. 69.59 crores is expected during financial Year 2018-19.

For the financial year 2018-19 an additional grant of Rs 35.00Cr has been allotted for Trauma Centre. Out of which Rs.25.00 crore for Medical equipments, and Rs.10.00 crore for 24 hours free medical treatment for trauma patients has been allotted by the Govt. of U.P. Institute is planning for Emergency Medicine department, Robotic surgery & Centre of hepatobiliary diseases and transplantation from the loan amount of Rs.473.00 crore sanctioned by SBI.

### **Construction Activities in 2018**

Following ongoing projects are being undertaken by the Engineering section-

- Hepatobiliary and Liver transplant centre
- Married nurses flats (100)
- Research Students hostels (100)
- Married doctors hostel (200)
- Up gradation of central air-conditioning in the hospital building
- Installation of new lifts replacing the old ones (26)
- Up gradation of fire fighting system in the entire hospital complex
- Construction of Type IV flats (40)
- Extension of diagnostic block
- Ophthalmic centre
- Creation of new ward in the old OPD area (134)

- Modular OT in the old Library area(3)
- Nalkoop for Apex trauma centre
- Separate electrical connection for ATC

The Institute guest house (B C Joshi Guest house) is a place that houses the visitors to the Institute and holds various Statutory & Non-statutory meetings like Academic board, Research Committee, Ethics Committee, Selection committee, Finance committee etc. Approximately 20 international and national conferences / workshops/ CME were organized during last one year.

The guest house is being renovated in phased manner. Till now common utility areas including the reception lobby have already been renovated. The dining hall has been extended and renovated. It has acquired state of art kitchen facilities. Overall, it has acquired a modern look but retained its natural touch.

Completed projects by the Engineering section (handed over and in use) -

- Library
- Lecture theatre complex
- New OPD block
- Central RO plant for ward block
- Apex trauma centre

Completed projects by the Engineering section (awaiting activation) -

- Hepatobiliary disease and Transplantation centre
- Hematology - teaching, research, ward and OPD block

Projects in pipeline for the Engineering section -

- DG set for New Library complex
- Nalkoop for campus (2)
- Emergency medicine, clinical and ward area, surgical robot, equipment for Liver Transplantation unit and upgradation of Kidney transplantation unit.
- Type III houses (160)
- 24x7 Canteen for residents

**Public Relations Department** : It deals with the management of both internal and external communication - thereby enhancing and improving the flow of information within the hospital and, between the hospital and the outside community. Most importantly, this communication serves to facilitate patient care in several ways.

The Public Relation Counter for New OPD was activated, while the round the clock PR Counter was kept stationed at the hospital building. The staff at these counters help steer the patients' towards emergency, investigation and indoor wards. The online patient registration portal is being run by the PR section of the Institute. This online mechanism of registration has certainly avoided many a long queue of patients at the main registration counters. The management of reception and information desk was operated from all major patient areas such as dialysis, radiotherapy, gastroenterology, endoscopy, radiology etc.

In-house journal of SGPGIMS Newsletter published quarterly, showcases various activities within the Institute, and has always been well received by the staff of the Institute.

The PR department has always provided wide coverage of conferences and workshops that are organized by the various departments. Special feat by the faculty of the Institute are always projected widely - this includes the treatments imparted to across the border patients, to promote medical tourism.

**Positive Health Initiatives at SGPGI :** In an attempt to give back something to this beautiful, green, residential SGPGI campus which has given us so much, and to promote clean, green living, a group of like minded women doctors at SGPGI have formed the "Vibrant Campus Initiative". They have, in the past one year carrying out simple awareness programs with the idea to educate and encourage everyone towards a healthy and a clean way of life. The focus points at present are - no littering, say no to polythenes, separate biodegradable waste and do composting at individual levels, do not waste water and electricity and look after personal cleanliness and hygiene. These awareness programs have been designed in the form of walks, "nukkad nataks", simple and fun power point presentations, youtube videos, colourful posters, quiz etc. the target audience has been varied - faculty wives, domestic helps, children from servants quarters and community center shopkeepers etc.

These efforts are but drops in the ocean towards making SGPGI a model green campus and there are still miles to go!

**Staff Members That Superannuated :** Slowly, the Institute is coming of age. In the year gone by (2018) - 22 colleagues/staff superannuated or took voluntary retirement! Their contributions towards the growth of the Institute are acknowledged - Km. Saroj R. Dayal (Staff Nurse), Smt. Uma Rani Nagar (Staff Nurse), Smt. Baby Sarojam (Sister grade 2), Dr. A K Verma (Prof, Surgical Endocrinology), Smt Shaheen Rizvi (APRO), Sh. Ram Vilash(Technician Grade 2), Smt Geeta Vashisht (CTO-CWS) Sh.V K Pandey (Sr Admin Officer), Sh. Gajendra Kumar Singh (Technical Officer), Smt Pushpa Rani (ANS), Sh. A K Asthana (Sr. Accounts Officer), Meena Bhattacharya (Hosp Attendant Grade 2),

Smt. Kuttiamma Antony (DNS), Smt Tara Roberts (DNS), Smt. Airina D Verdhe (DNS), Sri. Raja ram (Driver Grade 1), Sh. Anil Srivastava (ASPO), Km. Thishimma Abraham (ANS), Sh. Eshwari Dutt (Attendant Grade 1), Sh. Surendra Srivastava (Scientist Grade 4), Sh. Sabir Ali (Sr. Operator) and Mr. Dileep Jha (Asstt Accountant – Voluntary retirement)

**Demise of The Employees in 2018 :** SGPGI is like one big family. 4 staff members died in 2018. Institute pays condolence to their immediate family members: Smt.Nadini (Sister Grade 1), Sh. Devta deen (Patient helper), Sh Ravi Daniel (Technical officer), and Sh. Umesh Kumar (Technician Gr.-2).

May their soul rest in peace.

### Acknowledgements

The Institute is extremely grateful to the members of the Institute body, Governing body, Finance committee, Academic board, Hospital Board, Research Committee and Ethics Committee for their active contribution.

158 students conferred their super-speciality degrees in Medical and Allied Health Courses. 4 candidates conferred with PhD research degrees. 3 Medal winners (Dr. SR Naik Award for Outstanding Research Investigator – Prof SK Yacha, Department of Paediatric Gastroenterology, SGPGI

Dr. S.S Agarwal Award for Excellence in Research – Dr. Vijay Kumar, Department of Neurology, SGPGI.

Dr. RK Sharma Award for Best DM Student – Dr. Vikas Gupta, Department of Immunology, SGPGI) have been identified for their exceptional performance.



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