

ANNUAL REPORT 2019



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


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



ANNUAL REPORT 2019

(Period of Review- 1st January 2019-31st December, 2019)

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

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15. Dr. Namita Mohindra, Assistant, Department of Radiodiagnosis, SGPGIMS, Lucknow



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22. Shri Bhoopesh Chaubey, Member of Legislative Assembly (MLA), 1070B, Vidhayak Niwas, Lucknow



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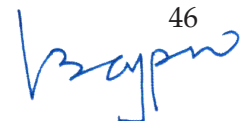
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32. Prof. R. K. Singh, Head Department of Emergency Medicine, SGPGI
33. Prof. Ujjala Ghoshal, Head, Department Microbiology, SGPGI
34. Prof. Swati Tiwari, Head Department of Molecular Medicine & Bio-technology, SGPGI
35. Prof. Alok Nath, Head Department of Pulmonary Medicine, SGPGI
36. Prof. Basant Kumar, Head Department of Pediatric Surgical Super-specialties, SGPGI
37. Prof. R. Harshvardhan, Head Department of Hospital Administration, SGPGI
38. Prof. U. C. Ghoshal, Faculty In charge, Research, SGPGI
39. Executive Registrar



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TABLE OF CONTENTS

1. Department of Anesthesiology	4
2. Department of Biostatistics And Health Informatics	5
3. Department of Cardiology	7
4. Department of Cardiovascular Thoracic Surgery	8
5. Department of Clinical Immunology	9
6. Department of Critical Care Medicine	10
7. Department of Emergency Medicine	12
8. Department of Endocrine & Breast Surgery	13
9. Department of Endocrinology	14
10. Department of Gastroenterology	15
11. Department of Hematology	16
12. Department of Hospital Administration	18
13. Department of Maternal And Reproductive Health	20
14. Department of Medical Genetics	21
15. Department of Microbiology	22
16. Department of Molecular Medicine And Biotechnology	23
17. Department of Neonatology	24
18. Department of Nephrology	25
19. Department of Neurosurgery	28
20. Department of Neurology	29
21. Department of Nuclear Medicine	31
22. Department of Ophthalmology	33
23. Department of Pathology	34
24. Department of Pediatric Gastroenterology	36
25. Department of Pediatric Surgical Superspecialties	37
26. Department of Plastic Surgery	38
27. Department of Pulmonary Medicine	38
28. Department of Radio Diagnosis	40
29. Department of Radiotherapy	41
30. Department of Surgical Gastroenterology	44
31. Department of Transfusion Medicine	45
32. Department of Urology And Renal Transplantation	46



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Executive Registrar
SGPGIMS, Lucknow

33. School of Telemedicine	00
34. The College of Nursing	50
35. General Hospital	47
36. College of Medical Technology	50
37. Hospital Revolving Fund	48
38. Public Relation Officer	00
39. Kamdhenu Society	00
40. Institute Revolving Fund	49
41. Apex Trauma Centre	50



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Director's Message



It is with great pleasure to place before you the “Annual Report” of the Institute for the year 2019. 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.

Departmental achievement as well as excellence achieved by individuals contributing handsomely to the development of the institute finds a place in this report. Our endeavor has always been to grow from strength to strength not only in infrastructure but also in patient care services and outcomes. I am happy to share the glimpses of growth of the Institute since its beginning. The ever-strengthening growth, activities, achievements of the Institute, departments, hospital activities, progress of other allied departments. The growing trend is reflected through each year “Annual Report” of the institute. The patient care, Teaching Research and training activities delivered and achieved by the department are directed toward the accomplishments of institute objectives.

I would like to express my gratitude to the State Government of Uttar Pradesh and its governance for the unwavering support towards the running of this Institute. The Director alone cannot run an institution of this scale. In fact, apart from being instrumental in keeping the momentum going for all the ongoing or recently completed projects such as Apex trauma centre etc, I can take little credit alone, for discharging any of my duties. It is with pleasure and pride that I acknowledge the contribution of all my colleagues who have helped me with the onerous task of steering this ship. I am 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.

I also take the opportunity to congratulate the students who passed out from SGPGI in 2019, thank them for their contribution in running the services and wish them success. I strongly urge them to now start playing the role of an ambassador of SGPGI and an active alumnus, who can contribute towards the growth of the Institute, their department, and their juniors.

Lastly, I appreciate the efforts made by the committee entrusted the task of preparation of this annual report for the period 2019.

I wish you all a healthy and safe 2020.

Jai Hind

(Prof. Rakesh Kapoor)
Director, SGPGI



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This Institute's foundation was laid 38 years ago. The Institute has made its presence felt in spheres of patient care, teaching, training and research both at national and international levels. The Institute is striving hard to grow further, and in 2019 we have added new dimensions to the services provided some of which are mentioned below:

Patient Care

Patient care activities, during the year 2019, the Institute provided medical care to an ever-increasing number of patients. Compared to the year 2017-18, the new outpatient registrations rose by 7.35% to 114504. This year 506219 patients were followed-up in the outpatient clinics, while 55873 patients were admitted for care on total bed strength of 1252 beds (Bed occupancy rate of 82%), apportioned to different specialties. Over 13736 major surgical procedures were performed. Robotic surgery has been started at SGPGI and Five surgeons have been trained in robotics thus far.

522 Online birth certificates and 1478 online death certificates were issued from the government portal- CRSORGI.GOV of Birth and Deaths of this financial year.

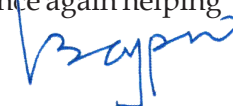
Financial Grant to Patients:- Under the Government's BPL/Antyodaya & Asadhya Rog Nidhi Schemes, 110 BPL/Antyodaya patients were received financial assistance to the tune of approximately Rs. 1.0 Crores in the year 2018-2019.

Asadhya Rog Nidhi Schemes, 313 patients were received financial assistance to the tune of approximately Rs. 5.0 Crores in the year 2018-2019.

Ayushman Yojana (PM-JAY scheme) has been started with effect from January, 2019 and more than 740 patients have been benefited under this scheme.

Kamdhenu Ati Nirdhen Chikitsa Sahayta Society (registered society) provided financial assistance to 1527 patients worth Rs.1640600 in the FY 2018-19. During the said period, apart from rise in patient numbers, expansion of services in the Hospital emergency and at the Apex trauma centre have provided care to greater number of acutely ill/ trauma cases. Departments of Radiotherapy, Medical Genetics, Radio diagnosis, Nuclear Medicine, Anesthesiology have been allocated a total of 134 beds in the old OPD area consequent to the shifting of OPDs to the Navin OPD building. Without doubt these new services have benefited both the outpatient care and in-patients in the new ward, such as terminally ill cancer patients, thalassemia patients etc. The Navin OPD building now has a centralized automated Blood Pressure measurement facility and three floors of Old ward tower (G Block) have been upgraded and renovated.

Well equipped post operative ICU bed strength has been increased from 16 to 26 – once again helping the acutely ill/post-operative ICU patient.



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Finally, Centre of Hepatobiliary diseases and transplantations, and Centre for Hematology, Bone Marrow Transplant and Stem cell Research have been activated and patient care activities started in these two blocks.

Apex Trauma Centre:- Apex Trauma Centre is functional since August 2018 with 60 bed strength out of 210 beds with all major specialties. By the end of June, 2019, a total of 2905 patients were registered, 7705 patients were followed-up, 1045 admissions were made and 579 operations in different specialties were performed.

Academics

With 32 academic departments and 249 faculty members, our Institute provides DM, MCh, MD, PhD degrees and Post-doctoral Certificate Courses (PDCC) in most disciplines. In the period under review, a total of 6 PhD, 34 DM, 18 MCh, 22 MD, 28 PDCC, 33 BSc Nursing, 6 MHA candidates successfully completed their training. The Medical Council of India recognizes all academic degrees given by the Institute.

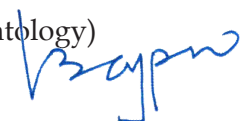
College of Nursing and College of Medical Technology are fully functional and actively participating in all the educational, cultural, social and sports activities, as is mandated in any undergraduate course curriculum.

Research

The Institute attaches much importance to high quality clinical and basic research and has made significant contributions in this area with the faculty contributing 5873 publications till date, of which 2353 have been published in the last 5 years.

In 2019, the Institute faculty members were successful in getting 17 new extramural grants and 6 multicentric drug/device trials. The Institute's intramural research fund is designed to encourage new research aspirants, and in the year 2018-19, it supported 22 projects.

Some of the major research grants have been-ICMR grant of 2.88Cr for Multicentric Collaborative National registry for rare disorders (department of Medical Genetics); DBT grant of 43Lacs for Centre for excellence on Translation research on Nanomaterials (department of Nuclear Medicine); ICMR grant of 1.67Cr for CARE on Kidney diseases-Biomarkers/new therapeutics (department of Molecular Medicine); ICMR grant of 57Lacs for Islet antibody negative in Type 1 diabetes (department of Endocrinology); ICMR grant of 20Lacs for Disease outcomes in Children with Enthesitis related arthritis (department of Clinical Immunology); DST SERB grant of 51Lacs for Evaluation of Cardiomyogenic potential of cKit + mesenchymal stem cells (department of Hematology)



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Visiting Professors

In the year 2019, 15 visiting professors visited the Institute, and of these, 10 were from international organizations and 05 from a national centre.

Short Term Training

The Institute provides short-term training /observer ship 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 course or dissertation and project training. About 134 students and doctors have been trained during the year 2018-19.

For the first time International trainees from developing countries like Africa and Central Asia have come to the Institute for specific skill training in their respective fields.

CONTRIBUTIONS OF VARIOUS DEPARTMENTS IN 2019

DEPARTMENT OF ANESTHESIOLOGY

The Department of Anaesthesiology has maintained in its rich tradition of providing safe and high-quality clinical services to all the zones of SGPGI, which requested for them following high standards of professionalism and dedication in the preceding year. In addition to the delivery of anaesthetic services in the routine and emergency operation theatres of the Institute, the other areas covered by the Department included peripheral services (CT, MRI, DSA, Cardiac Cath Labs, ERCP etc.), ICU services (Post op and PMSSY), Pre Anaesthetic Checkup Clinics, Pain and Palliative Care (Clinics and wards). The members of the Department provided the necessary services to all these sectors of the hospital to ensure high quality and uninterrupted patient care maintaining high levels of patient safety.

Faculty

Dr. Anil Agarwal
Dr. S P Ambesh
Dr. Prabhat Tiwari
Dr. S Shrivastava
Dr. Sanjay Dhiraaj
Dr. Devendra Gupta
Dr. Puneet Goyal
Dr. Aruna Bharti
Dr. Sandeep Sahu
Dr. Aarti Agarwal
Dr. Sanjay Kumar
Dr. Sandeep Khuba
Dr. Sujeet Gautam
Dr. Ashish Kannaujia
Dr. Amit Rastogi
Dr. RudrashishHaldar
Dr. Chetna Shamsherry
Dr. Divya Shrivastava

Dr. Ruchi verma
Dr. Tapas Singh
Dr. Vansh Priya
Dr. Rafat Shamim
Dr. Ganpat
Dr. Prateek Singh
Dr. Suruchi Ambasta

The Department continues to provide the state-of-the-art anesthesia and post-operative critical care services along with pain and palliative care to a wide variety of patients within the Institute. An outreach education program on pain medicine for students undergoing medical graduation is also being undertaken. Additionally, the department conducts basic life support and advanced cardiac life support hands-on courses for health professionals.

On the research front, a faculty is recipient of ICMR international fellowship award for biomedical Young Scientist for emergency medicine and trauma.

Awards and Honors

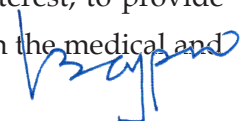
Dr Sandeep Sahu was awarded the ICN National Award for Emergency health care service, IMA Appreciation Award for improving emergency health care service and public health.

DEPARTMENT OF BIOSTATISTICS AND HEALTH INFORMATICS

Faculty

Prof. Uttam Singh
Dr. Prabhakar Mishra
Dr. Anup Kumar
Dr. Jai Kishun

The Department of Biostatistics and Health Informatics 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



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health sectors; and to manage patient care information and development of new technology in the area of health informatics.

The department organizes basic and advanced courses in specialized areas of biostatistics and research methodology for trainees and residents of various department of the institute. The department is also conducting PhD program in Biostatistics.

In addition to teaching and research activities the department manages and maintains the Hospital Information System (HIS) and patient care data on various servers within the institute (including to the newly started Liver Transplant unit) 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. The department has ensured a WiFi campus for its inmates.

Work is in progress to extend the HIS facility for financial electronic transaction for patients, leave management system for employees and installation of “e-office”, a software used for electronic movement of documents within the Institute.

Vision for the Next 5 Years

- Planning to start M.Sc. (Health Data Analytics) and Diploma in Data science.
- To conduct more studies as systematic review and meta-analysis with collaboration to other departments.
- To increase the frequency of advanced courses on various areas of the research methodology / biostatistics.
- To explore and apply advanced biostatistical methods in order to improve the data analysis and the quality of research studies.
- To explore application of advanced graphical methods in order to improve the quality and acceptability of research manuscripts in high impact journals.
- To start paperless records and activities in the department and institute through e-office.
- Tools development to interaction between patients and doctors / health providers.
- To start courses in basic biostatistics and health informatics for faculty and other research staffs of this institutes.
- To start training course in MS Office for Faculty / Residents and Non-teaching staff for this institute.



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DEPARTMENT OF CARDIOLOGY

Faculty

Dr. P K Goel

Dr. Aditya Kapoor

Dr. Satyendra Tiwari

Dr. Naveen Garg

Dr. Sudeep Kumar

Dr. Roopali Khanna

The department of Cardiology is the largest volume interventional cardiology centre of the state of Uttar Pradesh, with over 1500 angioplasties done per year. It is recognized for its expertise in the field of chronic total occlusion intervention both nationally and internationally. The department was one of the first to perform percutaneous aortic valve implant and has thus far performed 15 such transcatheter replacements. 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 has recently conducted two international conferences – Interventional cardiology and CTO.

Vision

- Develop a Heart Command Center which could cater for primary angioplasties to be done round the clock (the most established life saving treatment in Cardiology) and could benefit at least the society living within 25-30 Km of SGPGI to which institute could be accessible within an hour maximum (basic requirement for success of this facility) and achieve a door to balloon time of < 90 minutes. This is possible if one has a committed fully loaded ambulance service program (staff + emergency equipment) with a fleet of may be only 05 ambulances stationed in 05 radial directions of SGPGI about 10-12 KM away and emergency cardiac beds 12-24 to begin with available round the clock. The whole program could be controlled by the PRO on duty round the clock and a helpline number. This could be extending to a complete cardiac facility with 200 beds as a independent cardiology/cardiac sciences centre- The Heart Command Centre.
- Development of subspecialties like pediatric cardiology and electrophysiology to the same level as any where best in the country with recruitment of faculty who show 100% commitment to these subspecialties.



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- Continuing to maintain the same level of excellence in interventional cardiology, structural heart intervention and in areas like CTO intervention and complex high risk PCI where already an above threshold level of excellence has been achieved.
- To have a Heart Transplant program functional on a regular basis with atleast one faculty committed to this field.
- To run a state level primary prevention program for heart disease at community/school going children level with a faculty committed to this epidemiological cardiology field.

Mission

- Heart attack is a major killer today. Nearly 50% of heart attack patients die before reaching the hospital. If anyone could reach the hospital and timely and especially if it is a PCI centre nearly 50% of total cardiac mortality could be salvaged. The department was from a long time aiming to run a heart attack ambulance service which however could never get executed although 5 fully loaded ambulances were available then within the institute.
- The department had given a proposal to run the ambulance service along with an emergency heart command centre. Department still envisions the heart attack service and the same would be in true state/public health care interest.

DEPARTMENT OF CARDIOVASCULAR THORACIC SURGERY

Faculty

Dr. Nirmal Gupta

Dr. S K Agarwal

Dr. Shantanu Pande

Dr. G Majumdar

The department 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) courses. The department has also started Neonatal Cardiac Surgery and Robotic Cardiothoracic Surgery.



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DEPARTMENT OF CLINICAL IMMUNOLOGY

Faculty

Dr. Amita Aggarwal

Dr. Able Lawrence

Dr. Vikas Agarwal

Dr. Durga P Misra

Dr. Latika Gupta

The department of Clinical Immunology 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 for immunological disorders.

The DM program in clinical immunology was the first time in the country with an aim to train clinician with sound understanding of immunology and is rated as one of the best programs in the country. The department has a vibrant research program including training of PhDs. Extramural grants from ICMR, DBT, APLAR and IRA worth Rs 10 crore and intramural funding of 1Crore have been granted for pursuing clinical and basic research in the field of immunology. The department houses a state of the art Clinical Immunology laboratory for diagnostic tests. The department is very keen to train manpower in lab techniques and therefore conducts National autoantibody workshop regularly. After the acquisition of musculoskeletal ultrasound, the department has conducted 4 national level workshops to train rheumatologists.

Vision for the Next 5 Years

- Medical college network for training manpower in Rheumatology in UP
- Increase training slots for DM
- National reference laboratory for Autoantibodies
- Patient education program
- Centre of Excellence on rheumatic diseases (coordinated patient care with rehabilitation, physiotherapy and joint replacement as well as basic science research)

DEPARTMENT OF CRITICAL CARE MEDICINE

Faculty

Dr. A. K. Baronia

Dr. Banani Poddar

Dr. Afzal Azim

Dr. Mohan Gurjar

The department of Critical Care runs its 12 bedded critical care unit, to its maximum capacity. It is equipped with and ready to start High Frequency Oscillatory Ventilation (HFOV) for patients with severe Acute

Respiratory Distress Syndrome. The department has now a fully running DM course apart from the PDCC course which it has been running for over a decade.

With the help of the department, Critical Care facility has been started at Apex Trauma Centre and over 800 patients admitted in the past one year.

Vision for the Next 5 Years

Clinical (2020-2025)

- Increase in bed strength to 40 ICU beds. Presently, 8 CCM-ICU beds are under the possession of department of hematology. These 8 CCM-ICU beds were given to hematology department in the good faith and understanding in 2003, that all beds will be return to Critical Care Medicine department, in a year or so.
- To start Extracorporeal Membrane Oxygenation (ECMO) Services for
- ARDS patients
- Heart failure patients
- Cardiogenic shock after Acute Myocardial infarction
- Septic cardiomyopathy
- To start the program of continuous improvement of Patient Care Quality Indicators which includes developing/identifying key performance indicators, generating primary audit data and improving those parameters through interventions and performing post-intervention audit data. Electronic medical record system with data-mining facility and dashboard is an urgent requirement to achieve these goals.



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- Simulation based training in ICU: There are three simulation centers in SGPGI - (1) Anaesthesiology, (2) Apex Trauma Centre and (3) School of Medical Technology. As in the field of research, if all the simulators are placed under one umbrella in the name of Central Simulation Laboratory much like the establishment of Central Research Laboratory then we can have full access to such costly facilities.

Research (2020-2025)

- SWOT analysis of qualitative and quantitative research in Critical Care Medicine
- Strengths
- On an average 15-20 articles get published each year Participated in more than 15 international collaborative studies
- A medical device innovation (got published in Indian Patent Office Journal)
- Weaknesses
- Bottlenecks–Manpower shortage at the level of faculty and Senior residents
- Electronic medical record system with data-mining facility and dashboard is an urgent requirement to achieve these goals.
- Opportunities
- Mission would be to provide scientific, methodological, statistical and/or management services or support to new or experienced researchers in whatever aspects of research they may pursue related to improved care and treatment of intensive care patients.
- To liase and enter MoU with national and international centres for critical care research.
- Vision is to become a national service and an international collaborator for intensive care researchers including collaboration with the animal house of SGPGI to start animal experiments relevant to critically ill patients of India
- Threats
- Loss of data (as long as the EMR- Electronic Medical Record system is not in place).
- Investigator initiated intervention studies is not possible as institute has to provide corpus fund for insurance cover.
- Poor support from library for last 2-3 years

Academic (2020-2025)

- Subspeciality development in the form of Pediatric critical care, Trauma critical care, Transplant critical care and Infectious diseases critical care



- Nursing college to start MSc Critical Care Nursing after BSc Nursing
- School of Medical Technology to start Batchelors in Critical Care Technicians
- To start PhD programs in the field of Critical Care Medicine
- Development of audiovisual modules for Critical Care training

DEPARTMENT OF EMERGENCY MEDICINE

Faculty

Dr. Ratender K Singh

Dr. Alka Verma

Dr. Tanmoy Ghatak

Dr. Om P Sanjeev

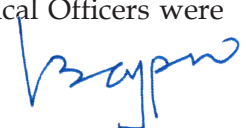
The 30 bedded Department of Emergency Medicine came into existence in May, 2014. However, permanent faculty were recruited only in July 2018. Since then, EMD has an annual footfall of 40,000 - 50,000 patients, and admitted over 6000 in this period. Further capacity building work, in terms of manpower, equipment and infrastructure is on. Resuscitative equipment such as monitors, defibrillators, airway, incubators and ventilators are available for patients requiring immediate resuscitation. With increased bed strength in future and round the clock HRF and HIS facility, the emergency services are bound to boost up further.

Currently, the emergency operates on zone basis i.e. red, yellow and green zones have been developed to prioritize the patients needing medical attention. Antimicrobial stewardship program and safe transport for transferring sick patients is being practiced in the emergency. Point of care portable ultrasound has been very useful in hemodynamic/cardiac/pulmonary and neurological evaluation apart from guided procedures.

On the Academic front, a Post-Doctoral Certificate Course (PDCC) has been started in emergency medicine for the residents from this year. Postgraduation in emergency medicine is likely to start in the coming academic year. The existing faculty, residents and nurses have been trained in emergency care/ sepsis management/ shock and fluid management from time to time.

On the research front, the department is gearing up to conduct audits dealing with working pattern and logistics, surveys and prospective trials in the coming future.

In recognition of the hard work in this high-pressure zone, the Emergency Medical Officers were acknowledged and awarded on this Independence day.



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Vision of the Next 5 Years

Department envisages to establish the largest Emergency Medicine of the country along with establishment of many untouched clinical areas like Geriatric Emergency Medicine, Acute Care Medicine, Disaster Management, Emergency Medical Services, Toxicological & Transport Medicine etc. We are also looking forward to play a lead role in ambitious Tele-ICU-Service, Air Ambulance Service and the Golden Hour Project in SGPGI. We wish to run various academic courses for the teaching training of graduates and postgraduates as well as nurses and paramedics. The overall aim of the department is to become the Apex Training Center in the field of Emergency Medicine, and provide the much needed trained manpower for capacity building of Emergency Services in the vast state of Uttar Pradesh and country at large.

DEPARTMENT OF ENDOCRINE & BREAST SURGERY

Faculty

Prof. S K Mishra

Dr. Amit Agarwal

Dr. Gaurav Agarwal

Dr. Anjali Mishra

Dr. Gyan Chand

Dr. Sabaretnem

The department of Endocrine Surgery is recognized as a front-runner in its field, and carries out surgical procedures for various thyroid, parathyroid, adrenal and endocrine pancreatic disorders. It also provides comprehensive breast cancer care, and diabetic foot care.

Recently, the department contributed to the Robotic Surgery program within the Institute, with surgery such as trans axillary thyroidectomy performed by Prof. Amit Agarwal and his team. The other faculty, Dr. Gyan Chand is also trained in Robotic assisted surgery.

The department has several credits to its account—Dr. Gaurav Agarwal has been elected the President of Breast Surgery International in 2019. Dr. Amit Agarwal is the elected President of Indian Association of Endocrine Surgeons and President of Indian Thyroid Society. Dr. Gaurav Agarwal delivered the prestigious oration in the UP state chapter of Association of Surgeons of India.

On Academic front, the department has a MCh program running for the past several years. The passed out students have found placements in prestigious Institutes within the country. The

currents students have bagged the best poster award in the recently held World Congress of Surgery, ASICON and IAESCON 2019 to name a few. The academic program is well acclaimed and trainees from abroad come for extended periods to get trained and have international exposure.

Vision for the Next 5 Years

The Department plans to expand its breast health program, diabetic foot program and minimally access and robotic surgery programs and initiate training courses (PDCC and PDF) in these niche areas.

DEPARTMENT OF ENDOCRINOLOGY

Faculty

Dr. Esh Bhatia

Dr. Vijaylakshmi Bhatia

Dr. Sushil Gupta

Dr. Preeti Dhabadghao

Dr. Subhash Yadav

Dr. Rohit Anthony Sinha

In the past one year the Department of Endocrinology has improved its patient care and social commitment via the support of National Health Mission, Government of India, by providing free insulin to all childhood diabetes patients reporting at SGPGI. The department conducts support group meetings, inviting interactive participation of young diabetics from remote centers at Gorakhpur and Raebareli via telemedicine, plus live webcast of the same.

With new faculty in the department, a dedicated pediatric endocrinology and pediatric diabetes OPD every week was started. Its DM Endocrinology and PDCC Pediatric Endocrinology programs are running in full swing.

On the research front, the department has several extramural grants from DBT on Vitamin D deficiency and ICMR grant in basic research. The department faculty is participating in formulating the international guidelines for polycystic ovarian syndrome (PCOS). Dr Preeti Dhabadghao became president of the national pediatric endocrinology society.

Vision for the Next 5 Years

- To start DM in pediatric endocrinology



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- Creation of an Advanced Diabetes Centre, with expansion of diabetes services including tele-diabetes and outreach diabetes services
- Bone and mineral metabolism laboratory services: DEXA (high end) with TBS, quantitative CT, bone histomorphometry
- Expansion and modernization of Endocrinology laboratory services, including patient care molecular endocrinology laboratory and steroid hormones analysis by LCMS-MS.

DEPARTMENT OF GASTROENTEROLOGY

Faculty

Dr. V A Saraswat

Dr. Rakesh Agarwal

Dr. U C Ghoshal

Dr. Praveer Rai

Dr. Samir Mohindra

Dr. Amit Goel

Dr. Gaurav Pande

The department of Gastroenterology shoulders a huge component of clinical workload, and this includes carrying out investigative procedures such as endoscopies, manometry etc. To get a glimpse, the department managed over 65,000 patients in the outpatient clinic, over 3100 admissions and over 18,000 endoscopic procedures. To further the teaching and training of residents/ nurses and technicians and for post graduate medical students of the state/region, the department organizes formal and informal lectures, interactive clinical case discussion sessions.

Prof VA Saraswat delivered Dr. PN Chuttani Memorial Oration awarded by ISG in November 2018. He has been elected President Elect, Indian Society of Gastroenterology. Prof Rakesh Aggarwal has been selected as Director JIPMER, Pondicherry. Professor UC Ghoshal has been selected as Editor in Chief, Indian journal of Gastroenterology

Vision for the Next 5 Years

These include expansion of the departmental services, with an increase in number of IPD beds, DM seats, faculty members, facilities and infrastructure in the department.

- Establishing an Advanced GI Endoscopy Center with upgradation of facilities for



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- 3rd space Endoscopy, interventional EUS, advanced ERCP and ESWL.
- Advanced Centre for Gastrointestinal Pathophysiology and Motility.
- Development of High Dependency and Intensive Care Unit in Gastroenterology Wards.
- Setting up multi-specialty, integrated unit for management of acute pancreatitis (AP) and hepatocellular carcinoma (HCC).
- Increase in number, scope and dimension of research with thrust areas including treatment of chronic liver disease and its complications, all forms of liver failure (ALF, ACLF, CLF), Hepatitis B and C, Hepatitis E, Luminal disorders, GI physiology, gut microbiome and fecal microbiota transplantation, basic research and endoscopic interventions for complications of acute and chronic pancreatitis, interventions, and GI Oncology.
- Expansion into WHO sponsored projects on Health Promotion and implementation strategies.

DEPARTMENT OF HEMATOLOGY

Faculty

Dr. Soniya Nityanand

Dr. Rajesh Kashyap

Dr. Ruchi Gupta

Dr. Khaliqur Rahman

Dr. Anshul Gupta

Dr. Dinesh Chandra

Dr. Sanjeev

Dr. Manish Kumar Singh

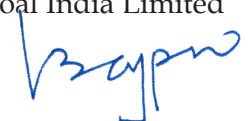
Dr. Chandra P Chaturvedi

Dr. Vinod Verma

Dr. Naresh Kumar Tripathy

The department of Hematology expanded its clinical and research services with the inauguration of the new Hematology building in October 2018, comprising Acute Leukemia ward for indoor patient, state of the art Bone marrow Transplant unit and Stem cell Research Centre (SCRC).

Recently the department carried out the first successful allogenic bone marrow transplant making SGPGI the first centre in the state to do so. This was with the financial aid from Coal India Limited



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SGPGIMS, Lucknow

(CIL) and MoHFW. The number of bone marrow transplant procedures is now steadily rising – a total of 85 being done, of which 15 were done in 2018-19.

The department has expanded its services for providing free treatment to thalassemia patients under the NHM sponsored program in the form of transfusion support and chelation therapy. The department has the diagnostic facility of carrying out cytogenetic testing, including karyotyping and fluorescence in-situ hybridization (FISH), in patients suffering from hematological malignancies. The department is now a major referral centre for the diagnosis and management of coagulation disorders.

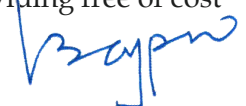
Dr. Soniya Nityanand, Prof and head of the department has taken charge as a State Nodal Office for Hematological Control Program under the NHM scheme of providing free factor replacement therapy to all hemophilia patients across 26 districts.

The department has increased its DM in Clinical hematology seats from 1 to 3 per year. B.Sc and M.Sc lab technology courses in Hematology have been started for the past 1 year. PDF in BMT, PDCC in Pediatric hematology and Hematopathology have been started.

The focus of the department faculty in research is on Mesenchymal stem cells human induced pluripotent stem cells and footprint free goat differentiation into muscles cells. These projects have been funded by DST SERB. Dr. Vinod Verma has been awarded “Vigyan Ratna Puruskar” for his contribution in popularizing Science and Technology by Global Environment and Science Association.

Vision for the Next 5 Years

- Expansion of the HSCT/BMT Program
- HSCT/BMT for Thalassemia and other genetic hematological disorders
- Expansion of the haploidentical & Matched Unrelated Donor HSCT/BMT Program
- Clinical trials with mesenchymal stem cells and by graft engineering for improving the outcome of HSCT/BMT (This work will be done within the Stem Cell Research Center)
- Establishment of Centre for Excellence in haemoglobinopathies diagnosis and management
- Providing comprehensive care to patients with thalassemia, sickle cell anemia and other rare haemoglobinopathies under single roof
- Increase the scope of Bone Marrow Transplantation in these patients as this is the only curative option
- Expand the scope of thalassemia carrier screening services in the state by providing free of cost prenatal testing to the at-risk population of the state



- Establishment of advanced treatment facilities for Leukemias, Coagulation, Thrombotic disorders
- Introduction of Next generation sequencing based testing for malignant haematological disorders and HLA typing and integrating the results for better patient care
- Establishment of therapeutic Drug monitoring lab for assays of various cytotoxic drugs as well as antifungals in anti leukemia treatment.
- To expand the spectrum of diagnostic coagulation tests including rare clotting factor assays
- To develop comprehensive Hemophilia treatment centre
- Establishment of Cellular therapy centre in the country
- To develop facility for indigenously manufactured CAR-T cells and NK cell therapy for relapse & refractory leukemia and Multiple Myeloma patients.
- Expanding Haematology training services
- To train manpower in hematology and to disseminate this knowledge to peripheral areas of the country
- The department plans to increase its D.M. (Clinical Hematology) seats to 06.
- The department plans to initiate DM Hemato-pathology course in the department.

DEPARTMENT OF HOSPITAL ADMINISTRATION

Faculty

Dr. Hem Chandra Pandey

Dr. Rajesh Harsvardhan

The department of Hospital Administration has been aiming to augment the quality of the teaching & training in the department and health/patient care services within the hospital. Master's Program in Hospital Administration is now running in full swing.

The department has been actively involved in the Hospital Infection Control Cell, Patient Safety Cell, Quality Cell, Centralised Condemnation & Disposal Cell, Central RTI Cell duly ratified by Institute Body of SGPGIMS in the year 2019, activities. An Infection control nurse, patient safety nurse & Quality nurse have been trained to run the HIC & Patient Safety Surveillance Protocol. Patient Safety Nurse has been taking care of interventions aimed at making healthcare safer.

The department along with the Chief Medical Superintendent and Medical Superintendent has been instrumental in establishing Quality Cell one Quality Nurse has been trained for the same. NABH Accreditation process for SGPGIMS has commenced and data collection is ongoing.

The department in collaboration with National Health Mission, Govt. of Uttar Pradesh runs Residential Capacity Building Program for Medical Officer's to train them healthcare management. It has been notified as Program Study Centre for School of Health Sciences of IGNOU. The department also successfully runs completed training of two batches of Bridge Program for Certificate Course in Community Health for Nurses (BPCCHN) that has been developed by MoHFW Govt. of India, in collaboration with IGNOU to ensure continuation of comprehensive primary healthcare services at sub-centres. Community Health Nursing program has started in collaboration with College of Nursing. Two more 6 months Programs - Certificate in Health Care Waste Management, Certificate in First Aid, apart from ongoing Post Graduate Diploma in Hospital and Health Management are running in the department

With the help of NHM, Govt. of UP a Central Skills Lab has been set up for College of nursing

The department ensured implementation of Aayushman Bharat-Pradhan Mantri Jan Aarogya Yojana at SGPGI since January 2019. The department with the help of MoHFW is setting up an Establishment of State Organ & Tissue Transplant Organisation at SGPGIMS for the State of UP, thereby making UP only 5th state in the country to have it established under NOTP.

Research/work conducted by the residents of the department fetched a best poster awards at a Workshop on Healthcare Waste Management, Environment & Occupational Safety at VMMC and Safdarjang Hospitals and on Biomedical Waste Management Conference organized by University Environment Department, King George's Medical University.

The de'artment in collaboration with NITI Ayog and QCI - NABH for assessment of District Hospitals and is conducting capacity building programs for the Hospital Administrators, from all across India. Dr Rajesh Harsvardhan has been awarded with Letter of Appreciation from Principal Secretary, Department of Medical Education, Govt. of UP and a certificate of appreciation from the Hon'ble Minister of Health for his Immense contributions. The department conducts several awareness programs such as Hand hygiene, Fire safety training etc.

DEPARTMENT OF MATERNAL AND REPRODUCTIVE HEALTH

Faculty

Dr. Mandakini Pradhan

Dr. Amrit Gupta

Dr. Indulata

Dr. Neeta Singh

Dr. Sangeeta Yadav

The department of Maternal and Reproductive Health is one of its kind to have patient care, teaching and training in the area of high-risk pregnancy. In addition to generate train manpower in this fast-developing field of medical science, it aims to prevent pregnancy related complication. Earlier, it used to be diagnosis and treatment of pregnancy complication. Now we follow a unique method to detect women at risk of developing various complications like hypertension, preterm labour etc. and prevent occurrence of such disease.

The department has unique distinction of giving blood transfusion to twin pregnancy at the same time and making them survive. It has pioneered in doing radio frequency ablation for acardiac twin and putting shunt in fetus for various fetal conditions.

Prof Mandakini Pradhan has been elected as Chairperson “Genetics and Fetal Medicine Committee” of FOGSI for 2019-22. This will enable her to train obstetrician all over India in this newly developing field.

Vision of the Department for the next 5 years

- To start DM course in “Maternal and Fetal Medicine”
- Expand the horizon of fetal therapy and to start facilities like fetal laser, fetal bipolar cord occlusion, fetal therapy for congenital diaphragmatic hernia.

DEPARTMENT OF MEDICAL GENETICS

Faculty

Dr. Shubha Phadke

Dr. Kaushik Mandal

Dr. Amita Moirangthem

Dr. Anshika Srivastava

Dr. Deepti Saxena

The department of Medical Genetics is actively involved in the diagnosis and management of patients with various genetic disorders for the last 3 decades. It provides free of cost factor replacement to Hemophilia patients with the help of grant received from the State Government of U.P. this year. Another grant from National Health Mission has provided free treatment thalassemia major patients for the last several years. Free enzyme replacement therapy is being provided for various metabolic disorders under various humanitarian access programmes. A new test has now been made available for clinical use for Huntington disease.

On academic front, a PDCC course in “Clinical Molecular Genetics and Genomics” has been started this year. Through DBT funding the department has been training in-service clinicians in the Government. This year, an ICMR funded two week course was organized on “Medical Genetics and Genetic Counseling”. Different aspects of the field of medical genetics and its applications were taught.

On research front, faculty has been awarded at different forums for their excellent work

Vision

To provide the best & most advanced diagnosis and care for every genetic disorder, however rare.
(Accessed from the website)

DEPARTMENT OF MICROBIOLOGY

Faculty

Dr. K N Prasad

Dr. Ujjala Ghoshal

Dr. Rungmei Marak

Dr. Richa Mishra

Dr. Atul Garg

Dr. Chinmoy Sahu

The department of Microbiology is an active academic department that takes active interest in the hospital infection control. More recently, the following clinically significant diagnostic tests have been introduced in the department of microbiology–Maldi TOF for identification of rare pathogens; Testing of antimicrobial susceptibility to newer antibiotics like ceftazidime – Avibactam and Ceftriaxone–Sulbactam- EDTA combination; like Vitek-2 and Maldi TOF for candida auris; Multiplex PCR for viral and bacterial gastroenteritis.

On research front, department has received extramural funding from WHO, IDSP, UPCST and CSIR. The department of Microbiology has Four projects are running under the guidance of Head and Professor Dr Ujjala Ghoshal with grants from WHO, IDSP, UPCST and CSIR.

Vision for the Next 5 Years

- Establishment of culture and molecular diagnostic Infectious disease laboratory with BSL-3 facility
- We want to establish a state of art molecular diagnostic laboratory. It will provide inclusive diagnosis of all types of infections with latest technologies. The focus will be on vector borne disease, drug resistant pathogens, tropical parasitic infections, Invasive fungal infections, serodiagnosis of rare pathogens etc.
- Establishment of advanced metagenomics laboratory
- Establishment of advanced metagenomics laboratory with infrastructures for timely identification of viruses and other agents causing morbidity significant at public health level and specifically agents causing epidemics and/or potential agents for bioterrorism. Developing capacity for identification of novel and unknown viruses and other organisms & emerging/ re-emerging viral strains and develop diagnostic kits. Undertaking research for identification of emerging and newer genetically active/ modified agents.



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SGPGIMS, Lucknow

- NABL accreditation of microbiology department
- NABL is a Constituent Board of Quality Council of India. We plan to go for NABL accreditation for technical competence testing of our all laboratories in our Department.
- Establishment of transplant associated infections disease laboratory
- Presently renal, bone marrow, liver, heart and lung transplant programmes are on priority list of our institute. Transplant associated infections are a major reason for graft failure and life threatening infections in the recipients. Thus, we plan to establish a laboratory exclusively for diagnosing these infectious agents.
- Hospital Infection control and AMR surveillance network at SGPGIMS, Lucknow
- As our institute is a tertiary care center, hospital acquired infections are major problem and leading cause of morbidity and mortality. So we want to establish and strengthen the various hospital infection control programmes. Surveillance and screening of multidrug resistant (MDR) pathogenic bacteria with special focus on hospital acquired infections and their molecular characterization. Elucidate the resistance mechanisms and the transmission dynamics of resistance genes using 'one health' approach. Improve awareness and understanding of AMR through effective communication, education and training.

DEPARTMENT OF MOLECULAR MEDICINE AND BIOTECHNOLOGY

Faculty

Dr. Swasti Tiwari

Dr. Alok Kumar

Dr. Santosh Verma

Dr. Lokendra Kumar Sharma

The department of Molecular Medicine and Biotechnology is well equipped with cell culture, molecular analysis and an animal facility. It has been earmarked as the nodal hub for establishing of Center of Excellence in Biomedical Sciences and Modern Biology at SGPGIMS. The department has developed non-invasive diagnostic tests to predict risk of proteinuria in diabetic patients. A confocal facility was established in the department to serve as a core facility for the institute. On teaching, training and research front, the department has a full fledged PhD program for the students. There are short term and hands-on training programs that have held for the benefit students/researchers from different colleges and universities



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SGPGIMS, Lucknow

On the research front, the department faculty has several extramural research projects sanctioned from ICMR, DBT and SERB DST. On the basis of their novel research Dr. Swasti Tiwari has recently filed two patents on a novel approach to estimate kidney-specific insulin sensitivity in human and non-invasive method to monitor placental health during the course of pregnancy.

Vision for the Next 5 Years

- Bridging clinical and basic sciences through collaborative translational research: with special focus on developing innovative diagnostic and therapeutic approaches for ongoing COVID-19 pandemic, kidney, mitochondrial diseases, cancer, infectious diseases.
- Advanced molecular diagnosis: for women health, maternal and neonatal health cervical cancer screening programmes, for non-communicable as well as infectious diseases.
- Development of skilled human resources: for health sectors, academia and industries through research based teaching and training programmes (MSc and PhD).

DEPARTMENT OF NEONATOLOGY

Faculty

Dr. Girish Gupta

Dr. Kirti M Naranje

Dr. Anita Singh

The department of Neonatology offers level III intensive care services to critically ill neonates (babies less than 28 days of life) with various medical and surgical problems such as prematurity, low birth weight, birth asphyxia, neonatal sepsis, jaundice etc. This facility is first of its kind in the state of Uttar Pradesh in a government sector. The department has signed an MoU with Sinai Health system, Canada to establish CINCERE (Canada -India Neonatal Centre of excellence in Research and Education) program which will develop clinical, research and training collaboration with Canadian neonatal network. NASTRAC (Neonatal Advanced Simulation Training and Research Centre) program is also being established with the aim to train all pediatricians of state of UP in art of management of sick newborns as a part of CINCERE.

DM Neonatology course was approved by MCI for the department of Neonatology. This course will be the first in the state of Uttar Pradesh for Neonatology. Number of seats in the Postdoctoral certificate course (PDCC) in Neonatology has also been increased.

Prof Girish Gupta and Dr. Astha Panghal have developed an indigenous Cricothyrotomy simulator named 'GiriAsh', a unique innovation for training in emergency management of newborns who present with difficult airway & as well as patients of all other age groups. The department is training Pediatricians to use this device in newborns.

Team of neonatal nurses from the department, have been trained and actively participate in the national level academic activities. Similarly, the faculty have become instructors for Neonatal Resuscitation program at a national level.

Vision for the Next 5 Years

- To increase bed strength from present 30 to 60 bedded unit.
- To increase human resource of the department
- Faculty strength -from 05 to 10 nos.
- Senior resident DM- from 02 per year to 06 per year
- Nursing staff- from 28 to 120 nos.
- To procure high end equipment's such as inhaled nitric oxide, therapeutic hypothermia and Neonatal ECMO services for better neonatal care.
- To establish Human milk bank
- To facilitate for MSc Neonatal Nursing program
- To become centre of excellence for neonatal care and research in India.

DEPARTMENT OF NEPHROLOGY

Faculty

Dr. Amit Gupta

Dr. Narayan Prasad

Dr. Anita Saxena

Dr. Anupama Kaul

Dr. Dharmendra Bhadauria

Dr. Manas Patel

Dr. Monica Yachha

Dr. Manas Behera

Dr. Ravi Khushwaha

The department of Nephrology is one of the largest peritoneal dialysis centre in South east Asia. The upgraded kidney transplant unit has cut down the waiting period and also improved the intensive care in the immediate post transplant period. Currently, the department has increased its bed strength (both in the ward and transplant unit), hemodialysis stations, CRRT machines and Critical Care Nephrology unit. At present on an average 2 to 3 kidney transplants are done per week. From the initiation till date the total 3029 renal transplantation including 86 ABO incompatible transplants have been performed in the department of Nephrology, SGPGI.

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.

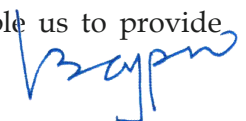
All ICU beds are equipped with ventilators, multipara monitors and pneumatic system for prevention of DVT. The department provides all intervention related services like permacath insertion, Tenckhoff catheter insertion, USG guided kidney biopsy, AV shunt and AV fistula. Intervention Nephrology suit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

The Nephrology 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 complete hematology parameters, renal acidification tests, peritoneal equilibration test, drug assays (Cyclosporine, Tacrolimus, MMF and Sirolimus). 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, Hematology cell counter and coagulation testing system, Architect 1000 for immunosuppressive drug monitoring, Vit D, PTH and other hormone assay facilities, NAT testing (COBAS) facility for HCV, HBV and CMV quantitative tests.

Vision for the Next 5 Years

Clinical

- Advanced Renal & Transplant Centre- By 2021, we are going to have “Advanced Renal and Transplant Centre”. The department will have the capacity of 208 beds including 111 dialysis stations, which will be the largest dialysis provider in India. It will enable us to provide



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Executive Registrar
SGPGIMS, Lucknow

maintenance hemodialysis to the people as well which is not possible at present because of high load of acute care and bridging the ESRD patients to renal transplantation consume capacity and infrastructure. The advance transplant centre will have 6 operation theatres, which will enable the capacity with 2-3transplant per day. The department intends to increase the number of transplants mainly through increasing deceased donors and swap transplants.

- Critical Care Nephrology -Department is planning to increase no of beds from 8 to 24 in next 5 years.
- Intervention in Nephrology - Department is planning to have one more fluoroscope and DSA to facilitate intervention nephrology programme.
- Division of Pediatric Nephrology - Department proposes to start pediatric nephrology unit in next 5 year.
- Renal &Transplant Immunology Lab- Department also plans to upgrade transplant immunology lab and intend to provide for HLA typing by next generation sequencing, CDC cross match, DNA figure-printing and testing for non-HLA antibody.
- Advance Centre for Prevention of Malnutrition In Chronic Kidney Disease
- Patient Education and Training - Department planning to improve patient education and training through
 - Counsellor
 - Medical Social Worker
 - Psychologist
 - Renal Nutritionist (by strengthening existing one)
 - Audio-visual programme

Teaching and Training Activities

Department also wants open new course and increase existing seats as below

- Post-Doctoral Fellowship (PDF) in Critical Care Nephrology
- Post-Doctoral Certificate Course in Dialysis
- Advance Certificate Course in Renal Nutrition
- Post-Doctoral Fellowship in Transplant Immunology
- Increase seats for Post-Doctoral Fellowship (PDF) in Renal Transplantation
- Increase seats for Doctorate in Medicine (DM) in Nephrology

Research Activity

To enhance the research activity, department planning to achieve following objectives

- Upgrading research lab to facilitate cell culture and genomic studies.
- Strengthening of transplant immunology research facility

DEPARTMENT OF NEUROSURGERY

Faculty

Dr. Sanjay Behari

Dr. Awadhesh Kumar Jaiswal

Dr. Arun Kumar Srivastava

Dr. Anant Mehrotra

Dr. Amit Keshri

Dr. Kuntal K Das

Dr. Jayesh Sardhara Chunnilal

Dr. Ravi Shankar

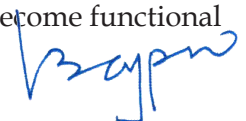
Dr. Kamlesh S Bhisora

Dr. Pawan Kumar Verma

Dr. Ved Prakash Maurya

The department of Neurosurgery performs the entire range of endoscopic neurosurgery including skull base surgery. Image guided Neurosurgery is now possible, with the upgraded neuronavigation and intraoperative ultrasound, fluoroscopy integration and minimally invasive spine procedures like pain management injections, vertebroplasty, endoscopic discectomies, temporal lobe resections /amygdalohippocampectomies for epilepsy are being done. Similarly, distraction technique in cranio vertebral junction surgery for instability has also been started. The Neuro-otology subdivision of Neurosurgery department has also been active and is regularly performing cochlear implant surgeries for deaf patients. An Animal experimental laboratory in conjunction with the Faculty in the newly developed Animal House.

On the academic side, the department has started three new 1year post-doctoral fellowships. The new fellowship programs are in Neuro critical care, Neuro-endocrinology and Neuro-traumatology. The department has also started a PDCC course in neuro-otology. These courses will become functional from the current academic year.



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SGPGIMS, Lucknow

As regards extramural funding the department has received grant for cochlear implant from NRHM, Government of Uttar Pradesh

Faculty has brought laurels to the department. Prof Raj Kumar was selected as Vice Chancellor to Safai Medical University. Dr Sanjay Behari has been elected as the President of UP-UK neurosciences society and Dr Arun Srivastava as the treasurer of the society.

Vision for the Next 5 Years

- To further, increase the complexities of epilepsy surgery and to start functional Neurosurgery as surgery for movement disorders.
- Proposal of Stereotactic Radio Surgery unit
- Proposal of dedicated Neurosurgery CT scan and DSA lab
- Increase in animal studies
- Establishment of Vestibular Lab, Cochlear Implant Clinic, Vertigo Clinic
- Auditory Brain Stem Implantation
- Starting Mch Course In Neuro-otology in the Department.
- MSc Course in Audio-vestibular Medicine in School of Medical Technology

DEPARTMENT OF NEUROLOGY

Faculty

Dr. Sunil Pradhan

Dr. G. N. Babu

Dr. Jayantee Kalita

Dr. Sanjeev Jha

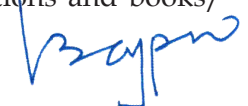
Dr. Vimal Kumar Paliwal

Dr. Vinita Elizabeth Mani

Dr. Ruchika Tandon

The department of Neurology faculty is committed towards patient care, teaching training and research.

They have worked extensively on menace of encephalitis in India, epilepsy, muscular dystrophy, clinical electroencephalopathy and toxic myelopathy. There are several publications and books/ book chapters that have been authored or co-authored by the debarment faculty.



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Prof Sunil Pradhan was awarded UP Ratna award and Gomati Gaurav Samman award this year.

On the academic front, organizing mini conferences at weekly intervals, co-opting other centres from within the city viz RMLIMS, KGMU, Command hospital, has been the brain child of Dr. Sunil Pradhan.

The department faculty, Dr. UK Mishra and Dr. J Kalita, have recently bagged the extramural grant to proceed with research on tubercular meningitis. It has been funded by Indian epilepsy association.

Vision for the Next 5 Years

In the immediate future, our department envisions to do the following

- To set up a stroke unit
- To improve the management of critically ill patients with the setting up of a dedicated Neuro ICU
- To establish a departmental registry of patients OPD + IPD which will aid in research
- To establish a sleep lab
- To initiate specialty clinics in the afternoons
- Refractory epilepsy clinic with epilepsy surgery
- Movement disorders clinic with DBS
- Neuroinfection clinic
- Headache clinic
- Neuromuscular clinic
- To continue with the CME programs and Mini conferences
- To hold a mortality meet once a month or as per need
- To get a dedicated physiotherapist, speech therapist, counsellor and rehab specialist for neurology patients
- To get an MRI machine for the neurosciences to aid in patient care and research

DEPARTMENT OF NUCLEAR MEDICINE

Faculty

Dr. S. Gambhir

Dr. P. K. Pradhan

Dr. S. Barai

Dr. A. Arya

Dr. Manish Dixit

Dr Manish Ora

Dr Aftab H Nazar

S. C. Kheruka

Sarita Kumari

The department of Nuclear Medicine has kept pace with developments in this field having added PET-CT imaging for general oncology and neuro-endocrine tumors. The establishment of Cyclotron facility enhances the spectrum of clinical utility even further with new radio labelled tracers such as ^{11}C -PiB for Alzheimer disease, $^{99\text{m}}\text{Tc}$ -Pyrophosphate ($^{99\text{m}}\text{Tc}$ -PYP) for amyloidosis, $^{99\text{m}}\text{Tc}$ -GSA asialoglycoprotein for liver parenchymal dysfunction in chronic liver disease and liver transplants in addition to ^{11}C -Methionine, ^{11}C -Choline, ^{13}N - NH_3 , ^{18}F -FES, Ga-68 based peptides were introduced to diagnose various diseases. With the production of Cu-64 radio-isotope, the first in country, which is used for diagnostic and its therapeutic potential to be explored.

Economical therapy for liver cancer patients was achieved with in-house radio-pharmaceutical production in the form of I-131 Lipidol therapeutic therapy to replace costly imported therapy from 6.0 lakhs to 40.0 thousand per treatment.

New ten bedded radionuclide therapy has been dedicated to patient on radionuclide therapy will soon activate it.

The PDCC course in correlative imaging and radionuclide therapy is in full swing and so is Master in Nuclear Medicine Technologies with BBAU, Lucknow.

Apart from patient care the department put its efforts to do research and development in collaboration with various research institutes across the globe such as IIT-K, CDRI-Lucknow, AMU-Aligarh, University of Alberta, Canada and received grants from national and international funding agencies such as DST-New Delhi, MHRD-New Delhi, DBT-New Delhi.



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Dr Sanjay Gambhir was honored with Dr. T. B Patel Oration Award, Schroll of Honor, by Gujarat Cancer and Research Institute Ahmadabad and Nuclear Medicine Physicist Association.

Vision for the Next 5 Years

Patient Care

1. Enhancement of patient services through new ten bedded radioactive isolation ward, like 1-131 and Lu-177-DOTA therapy. These are specialized therapies and presently having waiting time of 3 months or more as SGPGIMS is the major center for these therapies in Uttar-Pradesh and eastern India.
2. Pain clinic using low cost indigenized pain palliation radionuclide therapy for terminally ill cancer patient. This is an already ongoing process and department is planning to increase the procurement of this radioisotope to cater more patients.
3. Making available radio-ligands like [^{18}F]-tau protein tracers, ^{11}C -Arylbenzothiazole for -amyloid imaging, for brain imaging with PET-CT. These ligands are available? at very few centers around the globe and the department can provide these in next six months to a year.
4. Installation of 2nd PET-CT scanner to increase throughput and reduce waiting period. To meet out the increasing demand and reduce the waiting period already need is being felt for second PET-CT. Since it's a costly equipment the cost can be met either through government resources or through PPP as per the modalities decided and permitted by the government.
5. Procurement of state-of-the-art gamma cameras for organ specific investigations like CZT camera for non invasive imaging of heart will take the quality to the international level and shorten appointment waiting period for cardiac imaging patients but cost involved has to be worked again either through governmental resources or PPP model. The time line will depend on availability of funds or early decision to go for PPP.

Research

1. Synthesis of newer PET radiopharmaceutical for Tumor/Cancer diagnostics imaging such as [^{18}F]-Fluro propyl glutamate derivative, $^{99\text{m}}\text{Tc}$ -Galatosylated Human Serum Albumin, ^{64}Cu labeled lycidol-urea based imaging agents. This offers benefit of diagnosing disease in respective organs which are not detectable by standard diagnostic modalities.
2. To explore and indulge in 'MAKE IN INDIA' theme to provide low cost indigenized radio pharmaceutical synthesizer for in-house production of radiopharmaceutical along with technical institutes of India like Indian Institute of Technology (IIT).



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DEPARTMENT OF OPHTHALMOLOGY

Faculty

Dr. Kumudini Sharma

Dr. Vikas Kanaujia

Dr. Vaibhav Jain

Dr. Rachana Agarwal

Dr. Alok Pratap Singh

The department of Ophthalmology has seen tremendous growth in patients and surgical cases of all subspecialty of Ophthalmology like Neuro-Ophthalmology, Glaucoma, cornea, retina oculoplasty, strabismus.

The faculty members have been invited regularly as guest speakers in various National conferences and presented papers in international conferences. The department is regularly conducting instructions courses in Neuro-ophthalmology in All India Ophthalmic Society conference.

The Department has recently conducted Oculofacial aesthetic workshop demonstrating the use of Botulinum and filler. The department celebrated world glaucoma week 2019 by conducting public awareness lectures, free screening camps and awareness talks on radio and television shows.

The Department has also published many research papers in reputed national and international journals.

Vision for the Next 5 Years

- The priority of the department would be to enhance academic and research activities. The Postgraduate course in Ophthalmology (MS) to be started soon after an approval of National Medical Council. It will help the department to improve academics, and imparting clinical skills, and research activity among residents.
- To develop the Retinoblastoma patient care program involving 3 clinical specialty: Ophthalmology, Radiotherapy, and Interventional Radiology.
- To develop Glaucoma services further, streamlining of digital records, and archiving of all patients records would be done
- To start PDCC Course in Glaucoma specialty to improve academics in Glaucoma specialty
- To improve the surgical skill and better patient management for the current senior residents is also the top priority of the department.



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- Considering the need of cornea transplant in our society, the department would like to start an eye bank once the sufficient manpower with technical expertise in the field of eye banking and infrastructure would be available.
- To enhance the current patient care and management with the latest technology and surgical expertise available in the world.

DEPARTMENT OF PATHOLOGY

Faculty

Dr. Rakesh Pandey

Dr. Manjula Murari

Dr. N. Krishnani

Dr. Seema Sharma

Dr. Manoj Jain

Dr. Lily Pal

Dr. Vinita Agrawal

Dr. Niraj Kumari

Dr. Sushila Jaiswal

Dr. Ram Nawal

Dr. Ritu Verma

Dr. Neha Nigam

Dr. Pallavi Prasad

Dr. L Raghavendra

The department of Pathology continues to offer an ever increasing number of services for Histopathology, Cytopathology, Electron microscopy, Immunofluorescence, Immunohistochemistry, Frozen section biopsy- to name a few. It extends its support to the core laboratory facility being run by the department of Molecular Medicine. The department is committed to provide comprehensive training to medical students enrolled in the 3 year MD program. Apart from them, several PhD students are enrolled to pursue research in the field.

Vision for the Next 5 Years

The Department of Pathology is currently providing state-of-art diagnostic facilities in the areas of surgical pathology, cytopathology, immunohistochemistry, electron microscopy, hematology and clinical chemistry and is associated with teaching and training activities of the department and the institute. In the view of the ever-increasing requirements from the clinical subspecialties and growing technical advances in the diagnostics and research, the needed boost in all working spheres is required for a continued development and progress of the department. All the three areas including patient care services, teaching and research need to be expanded. However, in order to achieve higher goals the infrastructure and administrative support will be required in terms of infrastructure, space, manpower and availability of latest technology.

In terms of teaching teaching and training - The department plans to strengthen the existing teaching and training activities. In addition, the department also plans to introduce regular faculty development training programs by running short-term courses in technical advances and specialty pathology areas.

The department also plans to establish digital archiving of histopathology, cytopathology and hematopathology teaching material to augment teaching and training in pathology and for development of online teaching and telepathology activities.

The Department plans to start new Courses: PDCC courses in subspecialty pathology

- PDCC in gastrointestinal and hepato-biliary pathology
- PDCC in endocrine and breast pathology
- PDCC in cytopathology

In terms of Diagnostic services -Augmentation of existing facilities and development of newer diagnostic modalities including in-situ hybridization, DNA diagnostics, electron microscopy in neuro-muscular disorders, flow cytometry, automation in cytology, and liquid-based cytology.

In terms of Research Activities-The department plans to continue to pursue the cutting-edge active research interest in the frontiers of pathology, in addition to actively collaborating with the other clinical departments of the Institute in various thrust area projects such as renal pathology, gastrointestinal and hepatic pathology, endocrine pathology, pulmonary pathology, immunopathology, and organ transplant pathology, etc.

DEPARTMENT OF PEDIATRIC GASTROENTEROLOGY

Faculty

Dr. S K Yachha

Dr. Ujjwal Poddar

Dr. Anshu Srivastava

Dr. Laxmikant Bharti

Dr. Moinak Sen Sarma

The department of Pediatric Gastroenterology has started 2 new tests for children, measurement of urinary copper by and estimation of liver copper (quantitative) by atomic absorption spectrophotometry.

Former head Prof. SK Yachha who superannuated in February 2019 received a Life time achievement award of Uttar Pradesh Academy of Pediatrics. The current head, Prof. Ujjal Poddar has become the Gastroenterology section of Indian Pediatrics journal. Dr. Moinak Sen Sarma got the Young investigator award, European Society of Pediatric Gastroenterology Hepatology and Nutrition and Poster of excellence award in the United European Gastroenterology Week at Vienna.

A DM course in Pediatric Gastroenterology, currently is being offered by SGPGI, is now in full swing.

Vision for the Next 5 years

Expansion of Infrastructure

- To increase the number of inpatient beds from 30 to 40[general bed=6, Isolation = 2, Private ward n=2].
- Academic Block: to house faculty offices, Laboratory Space, Research area, Teaching /seminar room etc.
- To create acute liver care unit with dedicated faculty and infrastructure.
- Augmentation of laboratory facilities to do urine succinylacetone for diagnose tyrosinemia and other metabolic liver diseases through blood TMS (tandem mass spectroscopy) and urine GCMS (gas chromatography mass spectrometry).

Expansion of Manpower

- Increase the number of DM seats from 2 to 4.



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- To start Post-Doctoral Fellowship in intervention pediatric gastroenterology.
- To start PDCC in clinical nutrition in Pediatric Gastroenterology.
- To increase SR posts (from 10 to 18).

New Services

- To start speciality Clinics: Celica disease clinic, IBD-clinic, Liver disease clinic, obesity/NAFLD clinic, etc.
- To increase the OPD services: from 3 to 6 per week.
- To increase the outpatient endoscopy services from 2 to 4 per week.

DEPARTMENT OF PEDIATRIC SURGICAL SUPERSPECIALTIES

Faculty

Dr. Richa Lal

Dr. Basant Kumar

Dr. Vijai Datta Upadhyaya

Dr. Ankur Mandelia

The department of Pediatric Surgical Superspecialties provides quality surgical care to the entire spectrum of high end Pediatric Surgery like handling high volume and complex pediatric surgical gastroenterology load, pediatric oncosurgery including administration of protocol based chemotherapy, pediatric endoscopic surgery (laparoscopy, cystoscopy, bronchoscopy & Thoracoscopic), pediatric urology, pediatric thoracic surgery, neonatal surgery and pediatric neurosurgery. In fact the department is High volume national level referral centre for Pediatric Hepatobiliary & GI Surgery.

The emphasis is on undertaking complex operations in high risk small babies who may have associated other congenital anomalies, managing cases which present a diagnostic & management challenge, providing Level 3 post-operative intensive care, well defined post operative management protocols, providing round the clock emergency pediatric surgical services and maintaining long term follow up post-surgery to assess & optimize long term outcome & quality of life. Apart from a ward, ICU, OP services the department also runs special clinics such as chemotherapy clinics for pediatric solid tumors, pediatric stoma care clinics and urodynamic lab.

The emphasis is on personalized compassionate care from the entire team to optimize quality of life. To improve patient outcomes, other domains of emphasis are: patient safety, nursing education, clinical nutrition and strong interdisciplinary coordination with allied specialties.

With its robust clinical and academic experience in pediatric surgical gastroenterology, the department offers a 1 year post-M.Ch Post-doctoral Fellowship in pediatric surgical gastroenterology.

DEPARTMENT OF PLASTIC SURGERY

Faculty

Dr. Rajiv Agarwal

Dr. Ankur Bhatnagar

Dr. Anupama Singh

The department of Plastic Surgery is providing comprehensive state of the art services in all the subspecialties of plastic surgery. The department has started doing combined surgical and radiologic procedures for treating complex vascular malformations. In addition, the department is doing full range of cosmetic surgery procedures including laser surgery and facial rejuvenation.

Vision for the Next 5 Years

- To create and develop “Advanced centre of excellence for burns”
- To apply for increase in seats of MCh from 1 to 3
- To make the department centre of excellence in treatment of craniofacial, cosmetic and reconstructive surgery
- To have an independent physiotherapy unit in the department
- Hand and microvascular surgery and otoplasty unit in the department

DEPARTMENT OF PULMONARY MEDICINE

Faculty

Dr. Alok Nath

Dr. Ajmal Khan

Dr. Zia Hashim

Dr. Mansi Gupta

The department of Pulmonary Medicine came into being under PMSSY scheme since July 2009 with an objective of providing quality care to patients with lung problems. It also aims at establishing new paradigms in areas of research. In this one decade of existence, the department has acquired a name for itself within and outside the state of Uttar Pradesh. To take care of the lung related problems the department runs OPDs, special clinics, ward, 8 bedded ICU, laboratory and special services such as Bronchoscopy, Body Plethysmography, sleep lab and intervention pulmonology unit for thoracoscopy, endobronchial ultrasound (EBUS), endobronchial laser and virtual bronchoscopic navigation system

On the academic front, a PDCC course on Interventional Pulmonology is being offered and DM and PhD program shall soon be started.

Vision for the Next 5 Years

For sustained development and achievement of the goals, the department aims to start following services in coming five years:

Clinical Activities

- Increase the capacity of general ward to at least 30 beds.
- Upgrade the services of ICU by renovating the ICU with state-of-the-art new equipment for ICU viz.
- New ICU ventilators and ICU pendants
- Multiparametric monitors with central monitoring system
- Extracorporeal membrane oxygenation
- Separate OPD for management of lung cancer patients

Lung Transplantation: Lung transplantation is the need of the hour for management of end stage lung diseases. It has been recently started for the first time in India in government set up at PGIMER Chandigarh. It needs collaboration with other departments specially department of CVTS and also creation of well-equipped transplant ICU dedicated for the same.

Pulmonary Rehabilitation: Management of chronic lung diseases cannot be complete without a fully functional rehabilitation center. The department aims at initiating this service soon, but this will require provision of separate space also along with various equipment.

Laboratory Activities

- Upgradation of bronchoscopy lab to a Modular OT Enabled Pulmonary Intervention Unit where all the therapeutic and diagnostic bronchoscopic procedures may be done in standalone fashion.
- Addition of advanced bronchoscopy equipment to our armamentarium like:
- Confocal laser scanning bronchoscope
- Autofluorescence bronchoscopy
- Bronchial Thermoplasty
- Academic and Research Activities
- Research project in stem cell therapy for diffuse parenchymal lung diseases
- MSc in Respiratory Technology

To achieve a seamless and streamlined management of all patients in our department we also aim to consolidate our services under one roof by proposing the approval for a separate *Advanced Pulmonary Centre*.

DEPARTMENT OF RADIO DIAGNOSIS

Faculty

Dr. Sunil Kumar

Dr. Archana Gupta

Dr. Hira Lal

Dr. Sheo Kumar

Dr. Zafar Neyaz

Dr. Namita Mohindra

Dr. Rajanikant R Yadav

Dr. Vivek Singh

Dr. Raghunandan Prasad

Dr. Neeraj Jain

Dr. Surya Nandan Prasad

Dr. Anuradha Singh

Dr. Anil K Singh



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The department of Radiodiagnosis continues to offer interventional treatment in Neurological diseases, Gastro-related diseases and vascular diseases, besides MRI, CT, Mammography, Sonography services. A 128 slice MDCT scanner was inaugurated and has been made functional for patient care since March this year. Since, the interventional radiology load is on the rise, a 20 bedded Radiology ward has been allotted for such patients, and will soon be functional. It is one of the few departments wherein the faculty/ residents and staff provide patient care services within the main department, new OPD building, PMSSY building, emergency and apex Trauma centre.

Academically, the MD Radiodiagnosis, and Post Doctoral certificate courses in Neuroradiology, Gastro-radiology and Vascular Radiology run in full swing. The first academic session of BSc. Medical Technology (Radiodiagnosis and Imaging) commenced in 2018 and students are receiving vast exposure and their training is at par with best institutes within the country.

On the research front, a collaborative work on interstitial lung disease is ongoing in collaboration with IIT, Kharagpur and funding from Department of electronics and information technology, Government of India.

Vision for the Next 5 Years

The department is making efforts to start DM course in Neuroradiology. Fresh proposals to begin new DM/PDCC courses will be made. Another main focus is to acquire the state of the art equipment systems to aid in the clinical, research and training services.

DEPARTMENT OF RADIOTHERAPY

Faculty

Dr. Shaleen Kumar (on lien)

Dr. Punita Lal

Dr. Neeraj Rastogi

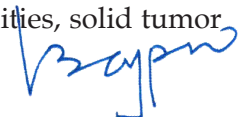
Dr. K J Maria Das

Dr. Shalini Singh

Dr. Sushma Agrawal

Dr. Shagun Misra

The department of Radiotherapy is a comprehensive Tertiary Cancer Care Centre that provides holistic care for adults and children, in terms of state of the art Radiotherapy facilities, solid tumor



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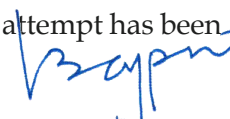
chemotherapy and palliative care services for cancer patients. Nearly 4000 new cancer patients report to the department for consultation/ opinion, and of these, nearly 3000 patients receive treatment in the department. Today the department stands tall after acquiring a new high end Linear Accelerator and Radiotherapy network system from the grant in aid TCCC scheme of Ministry of Health and Family Welfare. The Linear Accelerator became function in June 2019. This has benefited the cancer patients of the state of Uttar Pradesh in a big way. A much needed 30 bedded radiotherapy ward has been started in the Old OPD block.

With the current infrastructure and technology, the department routinely practicing techniques such as Image guided RT, IMRT and SBRT in different tumors. The department is committed towards palliative/ supportive cancer care, for the advanced cancer patients who are beyond cure. Preventive oncology has been a focus in the department and therefore faculty have taken public awareness lectures on World cancer Day and No Tobacco day to school students on cervical cancer and staff on ill effects of tobacco respectively. The department is actively involved in the Hospital Based Cancer Registry (HBCR) program, approved by NCRP of ICMR under extramural financial assistance. Academic sessions continue to be beamed via telemedicine network interest and for the past 8 years it has been extending its daily teaching sessions to the department of Radiotherapy, KGMU.

On academic front, apart from the MD program the BSc (Radiotherapy technologist) program has been started with the help of College of Medical Technology.

Vision for the Next 5 Years

- The department is actively involved in conducting audits, in the past, in various sites to improvise clinical care and direct hypothesis for conducting prospective work. Often times, they have been practice changing. Apart from prospective work, the department remains committed to continue carrying out such audits as a continuum towards the process of evolution. There is also ongoing work on prospective collection of patient reported outcomes presenting to the Radiotherapy clinic.
- Interested faculty has lately been involved in the development of software for paperless workflow in the department, archiving patients treated in the past. This will be a major game changer in department functioning and will also facilitate data capture for the Cancer registry program. A successful implementation might provide a template for the Institute to move in the direction of paperless Institute, sometime in future.
- The department motto, from the time of inception, has been towards precision radiotherapy. New equipment/techniques have always gone through a QA protocol and an attempt has been



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Executive Registrar
SGPGIMS, Lucknow

to ask research question(s) at the time of introduction of a clinical service. Currently, Stereotactic program has been initiated for treating brain and lung and liver tumors. Faculty is presently studying the nuances and the doability in our patients. Related question would subsequently be dealt with. We also plan State of Art breast radiotherapy practice.

- Hospital based cancer registry has been functioning since 2016. It provides epidemiological insights, temporal trends, and potential for prospective work. Additionally, a registry data can be effectively utilized by the administrators and policy makers to channelize public funds in the correct direction in cancer care. It is a long term mandate to capture maximal and detailed information of cancer patients visiting SGPGI (a tertiary care institute that caters to all ailments and not just cancer alone) for the abovementioned reasons.
- Advanced cancer patients are unable to come to a hospital for a variety of reasons. They need symptom based palliative care to provide comfort during the last phase of their life. Ideally, this care needs to be provided at bedside. However, lack of facilities and awareness amongst decision makers and patients alike, has kept end of life palliative care beyond the reach for most patients. The dire need has been recognized in southern states but in the state of Uttar Pradesh, we seem to be a long way off. The palliative cancer care team has a long term commitment to augment palliative care services in our state, and to study the cost effective strategies that are possible at a local level.
- Medical Physics is an integral and indispensable part of any Radiation oncology department across the world. The team deals with radiotherapy planning and working of the equipments of a department. They have in the past, been collaborating with the renowned institution in the vicinity namely IIT Kanpur to study QA related research. To take it further, they plan to indulge in collaborative and innovative projects, in the same direction, with a like minded team over there.
- Telemedicine for improvisation of tele-followup is increasingly being recognized. Not all patients need to pay a visit to the hospital each time. In select situations, it is preferable to use technology and connect, since it saves time, money and effort. However such a consultation has its own issues that need to be studied and answered. Given the likely benefit, it is fortunate that a faculty is keen on initiating a Tele follow up program and study its doability, quantify the gains and look into the implications of such consults.
- Brachytherapy is an integral part of the Radiation oncology training. Over the past few decades, a distinct decline has been witnessed, until the introduction of Image based brachytherapy. The nuances of Image based brachytherapy need to be studied at the time of implementation of the program in any department. Faculty from the department plan to study the physics and clinical aspects of these issues and aims to promote the utility of image guidance in brachytherapy.

- Radiotherapy department also planning to develop a Liver Stereo Tactic body radiotherapy (SBRT) programme and also trying to use the artificial intelligence for predicting outcomes in oesophageal cancers.

DEPARTMENT OF SURGICAL GASTROENTEROLOGY

Faculty

Dr. Rajan Saxena

Dr. V K Kapoor

Dr. Ashok Gupta

Dr. Anu Behari

Dr. Rajneesh Kumar Singh

Dr. Ashok Kumar

Dr. Rahul

Dr. Ashish Singh


The department of Surgical Gastroenterology is a busy specialty with huge surgical and outpatient work load. It has recently launched a comprehensive laproscopic surgery program that includes surgeries for colorectal and esophageal disorders. Centre of Hepato-biliary Diseases and Transplantation (CHBDT), a part of the Department of Surgical Gastroenterology, has been inaugurated and the clinical services have started. The Centre is expected to reach full activation within a year from now, with installation of Radiology Equipment and recruitment of manpower. The OTs have also been inaugurated and a pediatric living donor liver transplant was carried out in January 2019. All types of major and complex HPB Surgical Procedures are being regularly performed at the CHBDT since January 2019.

On academic front, the MCh course is in full swing with the seats increased from 4 to 10. Once again MCI recognition for these MCh seats has been obtained, for a period of 5 years.

The Department has, as always contributed in terms of research by publishing their original work in high impact factor journals.

Vision for the Next 5 Years

The Department of Surgical Gastroenterology of SGPGIMS (CHBDT included) would emerge as the Largest Comprehensive facility in Public sector in India, with Dedicated Upper GI Service Unit, A Lower GI Service Unit, and a comprehensive HPB and Transplant Center.



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- **Expansion:** The Department intends utilizing its full capacity of infrastructure of 172 beds (60 SGE Beds, 112 CHBDT Beds (Centre of Hepatobiliary Diseases and Transplantation including 40 Hepatology Beds), 7 Operation Theaters, Endoscopy and other laboratories and dedicated Radiology Set Up to its full capacity in the Post-Covid Era. The entire CHBDT would be put to full utilization including a sustainable liver transplant program that shall offer deceased donor as well as living donor transplantation to the adult, pediatric as well as neonatal population, with facilities for swapping, liver splitting, and need-based transplant based research focusing on the country's requirements. A digital library is also proposed to be set up in the CHBDT.
- **Teaching and Training:** To start a structured teaching and training program in HPB Surgery and Transplantation, either as a Fellowship Program or an MCh program.
- **Minimally Invasive Liver Surgery:** Laparoscopic and Robotic would be fully provided by the Department in the coming two years.
- **Basic Research:** One basic research lab has been activated in the CHBDT building. One more basic lab is proposed to be established in the next financial year, along with a Basic Anatomy Lab, A Frozen Section Lab, and a Complete Simulation Surgery laboratory, coupled with Animal Research Lab.

DEPARTMENT OF TRANSFUSION MEDICINE

Faculty

Dr. Rajendra Chowdhary

Dr. Preeti Elhence

Dr. Prashant Agarwal

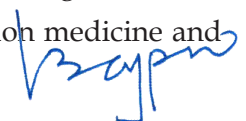
Dr. Anupam Verma

Dr. Atul Sonkar

Dr. Dheeraj Khaitan

Dr. Rahul Katharia

The Department of Transfusion has been very proactive and within a year, has initiated blood transfusion services for patients at the Apex Trauma Center, SGPGI. Recently, on-line leukofiltration for provision of leukodepleted blood component support for Thalassemia patients through National Health Mission support. This is the first endeavor of its kind in the state of Uttar Pradesh. In order to improve the bed side transfusion practices nursing staff of the Institute is being trained in batches. This initiative has been taken up jointly by the departments of Transfusion medicine and



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Hospital Administration. To standardize the blood bank services and optimal utilization of blood and component utilization within the state, the department has taken the initiative of conducting orientation training programs for the benefit of Medical officers from NACO.

The department has recently started M.Sc MLT (Transfusion Medicine) as a part of College of Medical Technology, SGPGI.

On the research front, extramural grant has been given by National Health Mission, to promote voluntary blood donation in the state of Uttar Pradesh and study the pattern of usage of Blood and Component utilization in the State of Uttar Pradesh. The department has also been entrusted with responsibility of Hemophilia Program of UP as State Nodal centre for Hemophilia. The faculty has excelled in research as well, and Prof. Anupam Verma and Dr. Rahul Katharia have been awarded Award for excellence at different platforms.

Vision for the Next 5 Years

- Department envisage to create a “Center of Excellence” in transfusion medicine which will serve as apical center for development of guidelines, training, referral services and transfusion support to centers in the state of UP.
- Department is in the process of starting new facilities like Post donation clinic, Post transfusion clinic, Platelet serology, Patient blood management program.
- Department is developing External Quality Assurance program in collaboration with UP State AIDS Control Society for blood centers in the state of UP.

DEPARTMENT OF UROLOGY AND RENAL TRANSPLANTATION

Faculty

Dr. Rakesh Kapoor (The Director, SGPGIMS)

Dr. Aneesh Shrivastava

Dr. Mohd Ansari

Dr. Uday Pratap Singh

Dr. Sanjay Surekha

The department of Urology was the department acquire the surgical robot and perform the robotic surgery. More than two thirds of all robotic surgeries worldwide are performed by urologists and this trend is expected to continue at SGPGI as well which is already a leader in advanced laparoscopic

surgery in the country. The pediatric robotic urological procedures are going to commence very shortly wherein the focus is on hyposadias pyeloplasty, ambiguous genitalia and gender reassignment surgery.

Prof. Aneesh Srivastava, Head, department of Urology, was recently conferred with lifetime achievement award by the Urological Association of Uttar Pradesh and Uttarakhand (UAU).

Faculty and residents, through their research work have received recognition both at state and National level.

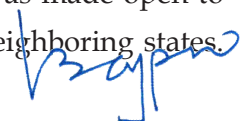
The department as recently inducted a Basic Scientist for a faculty to focus on translational clinical research.

Vision for the Next 5 Years

- To get involve in new research and find new innovative surgical and non-surgical techniques for the management of patients with urological malignancies.
- To develop a dedicated Uro-oncology unit to take care the patients with urological cancers.
- Department is actively involved in upgrading state-of-the-art lab facilities in clinical as well as basic research in different areas of urology (Uro-oncology, Uro-lithiasis, Renal Transplantation, Infertility, Paediatric urology, etc). We are working towards establishing an animal cell culture lab for research involving urological tissues, with the ultimate aim of establishing the branch of regenerative urology at the institute. Recently we received approval from Director Sir for establishing Drosophila (alternate to animal model) research facility for modelling various urological diseases. Drosophila model is being used to understand the molecular mechanisms and development of potential therapeutic molecules of various urological diseases.

We have started translational research to develop diagnostics, prognostic tools, and identification of therapeutic molecules for better care of patients. Apart from Department is involved in developing human resources as it runs Ph.D courses and lab training programs. Department has started the course “Model system for biomedical research” for Ph.D. coursework. Incoming 5 years, I wish the department will achieve a new height in the area of urological translational research.

The **General Hospital** at SGPGI was meant to serve the staff members and their families and bridge the gap between primary and tertiary level health care available at the Super specialty teaching Hospital. There is a team of specialist doctors comprising of a Surgeon (Dr. Brijesh Singh), Physician (Dr. Prerna Kapoor), Pediatrician (Dr. Piyali Bhattacharya), Gynecologists (Dr. Deepa Kapoor and Dr. Anju Rani), and a Dermatologist (Dr. Ajit Kumar). In the last few years, it was made open to the public and thereafter it has been serving the people of Uttar Pradesh and neighboring states.



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Employees' dependents also continue to be catered for. With the addition independent sample collection, billing and registration counter, vaccination room, dressing room, HRF store and recently, a diet clinic, the services have become more patient friendly and mostly under the same roof. The Medicine OPD caters to ailments such as fever, anemia, tuberculosis, infective, metabolic and lifestyle diseases, school health and preventive medicine and also participates in screening, recruitment of new employees and food handlers. 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 gynecological malignancies. The General surgery facility takes care of various minor and major procedures such as hernia repair, wound care, varicose veins (using Radiofrequency ablation or Endo vascular laser technique) and Proctology. The dermatologist manages diverse Skin infections and infestations, pigmentary disorders, nutritional and skin manifestations of systemic disorders as well as sexually transmitted diseases and leprosy. The diet clinic looks after the nutritional needs of the in-patients and provides dietary advice to out patients for special needs during pregnancy, lactation, dietary deficiencies, metabolic syndrome, hypertension, gout and diabetes.

RNTCP (Revised National Tubercular Control Program) unit provides free of cost sputum microscopy service and other tests for detection of MDR TB and treatment for Tuberculosis and Multi drug resistant TB. The General Hospital team is committed to participate in the National Polio Eradication Programme. Childhood and adult as well as pre-travel, pre surgery and animal bite vaccines are all managed in the General Hospital Vaccination room. With growing patient numbers, GH has now acquired a separate identity while retaining its interdependence with the main Hospital.

The **Hospital Revolving Fund** established in 1997 with the approval of the 44th Institute Governing Body. It started with a one-time grant of Rs. 50.00 lacs and has withstood the test of time in pursuing its operational motto "Mission Supply All" and has fulfilled its aim and objectives by ensuring round the clock availability of drugs & consumables. This unique supply chain management system for all types of drugs and consumable items required for patients at the SGSPGIMS has grown in phases, extending from OT/ICU area to Procedure Labs to Wards, OPDs and other new areas of SGPGIMS. Today, HRF can proudly claim to have achieved the goal set for it and fulfilled its mission, which was to establish a self sustaining system to supply all needs it is tasked with. 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. E-tendering process has been adopted for procurement of Disinfectants, CSSD and Cath Lab consumables items etc. It also needs to be emphasized that HRF has modified all the existing Rate Contracts, according to application GST. HRF has procured all the items required for the functioning of Apex Trauma centre.

Investigation Revolving Fund (IRF) was established in the year 2003 and has been making outstanding contribution in the improvement of laboratory services of the Institute since its inception, by providing uninterrupted supplies of all lab consumables on the “principle of self sustainability”.

The Chairman is Dr. Manoj Jain. IRF has changed the views and opinions 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 week days and holidays. This laboratory has been made functional since December 2015. The 24 hours laboratory has also been extended to the Apex trauma centre which has been functional for the past 1 year.

Further, IRF has expedited the e-tender for supply of diagnostic kits, reagents, chemicals and lab consumables and is in the final stages of becoming operational.

The **Central Library** of SGPGIMS was established to provide 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 service round the clock by qualified library professionals. More than 50,000 bound volumes of journals and books and 210 current journals are available in the library. To modernize it, all library holdings are being RFID (Radiofrequency Identification) tagged, which will be used for inventory control, theft prevention and location of missing items. New library building has started and is fully functional for the trainees and academician to utilize the services.

THE COLLEGE OF NURSING

Faculty

Mrs. Usha Rani

Ms. Shabana Khatoon

Ms. Alice Joseph

Mrs. Pushpa Singh

Ms. Bhumika Singh

The College of Nursing is successfully running the 4 years B. Sc. Nursing degree courses, which is duly recognized by Indian Nursing Council New Delhi, U.P. State Nursing Council and U.P State Govt. This is the 10th batch that has been admitted in the 2019 session.

The pass out graduates from this college has been placed in organizations of repute. In fact, prestigious Homi Bhaba Cancer Institute and others offered to come to take on- Campus recruitment interviews for our final year students this year.

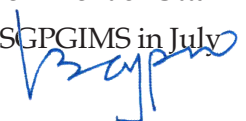
The college of nursing is now a vibrant set up. Educational activities, cultural events, social and sports events are routinely being carried out for the holistic growth of the young nursing students.

Vision for the Next 5 Years

- Fill the vacant post of Principal 01, Lecturer 02 and Tutor 08.
- College of Nursing building.
- To start M.Sc. Nursing & Ph.D. Nursing in College of Nursing.

The **College of Medical Technology** was started in 2018 with the aim of imparting education, training and research in the field of paramedical technology and allied health sciences. 9 BSc courses (OT technology, Renal dialysis technology, Anesthesia technology, Radio diagnosis and imaging, Radiotherapy technology, respirator care technology, Physiotherapy Medical laboratory technology and Perfusion technology) and 3 MSc courses (Medical Virology, Transfusion medicine, Hematology) have started following necessary approvals from the statutory bodies of the Institute. The second batch has successfully been admitted in the July session. Prof AK Shukla, Nodal Officer, College of Medical Technology, has received one extramural and one intramural grant during this period for the growth and development of College of Medical Technology.

The state-of-the-art **Apex Trauma Centre**-The Medical Education Department, Government of Uttar Pradesh, issued orders to handover of Apex Trauma Centre (ATC) from KGMU to SGPGIMS in July



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2018. The Apex Trauma Centre has successfully celebrated its first Foundation Day on 31st July, 2019. In less than a year, ATC is functional with 66 beds with plan for expansion to full capacity of 210 beds in near future. There is round the clock facility for emergency management, ICU and Operation theatres to handle various trauma emergencies.

The clinical specialties functional in Apex Trauma Centre are Trauma Surgery, Neurosurgery, Critical Care Medicine, Orthopedics, Gynecology, Physical Medicine & Rehabilitation, Oral & Maxillofacial Surgery, besides diagnostic services being provided by Lab Medicine (Biochemistry: Clinical Pathology/Microbiology and Radio diagnosis department.

The department wise activities done over the last one year is as follows:

Neurosurgery-: 807 patients have been managed and 194 operated. These were primarily head/spine injury cases. 1 year PDF Course in neuro traumatology will start from this session. Dr. Ved Prakash, faculty, was awarded best paper award in a neuro trauma conference.

Critical Care Medicine-: They have managed 848 patients out of which, 304 in ICU. 83% patients being successfully discharged from ICU. Trauma ICU is equipped advanced ventilators and dialysis facilities.

Trauma Surgery -: Over 900 patients were admitted under emergency trauma care. Tracheal injuries, thoracic injuries, complex pelvic injuries, major intraabdominal organ injuries and vascular injuries have been managed.

Orthopaedic-: A total of over 7000 patients were managed in the past 1year. Over 500 major orthopaedic surgeries including complex trauma such as pelviacetabular surgeries, spinal injuries, joint replacements, sport injuries & arthroscopic surgeries, and deformity corrections were performed.

On the academics front, fracture clinic audit, journal clubs/seminars and weekly lectures are being taken.

Oral & Maxillofacial Surgery: More than 50 cases of maxillofacial trauma were operated during last 1 year. Apart from this, a dental OPD is being run for the SGPGIMS staff. 24x7 emergency cover is being provided to the emergency department.

Anaesthesia-: Over 800 surgeries (of which around 300 under general anaesthesia) were performed in ATC. Pain free surgeries and peripheral nerve blocks under image guidance are being practiced. guided techniques. Apart from that, round the clock emergency and intensive care cover is being provided.

Physical Medicine and Rehabilitation-: It the first Trauma centre in the country to have integrated and comprehensive rehabilitation facility for trauma patients. So far, over 2200 patients have been managed. The physiotherapy unit is equipped with the latest modalities and equipments.

Laboratory Medicine-:24x7 emergency services are being provided with a state of the art fully automated equipment. Hospital infection control protocol and antibiotic policy are being implemented

As per directives issued by the U.P. Govt., ATC has been given additional responsibility to upgrade 3 trauma centers running in medical colleges of Prayagraj (Allahabad), Gorakhpur & Kanpur.

The **School of Telemedicine and Biomedical informatics** is a MoHFW, Government of India initiative. The nodal officer for this project has been Dr. SK Mishra. Dr. PK Pradhan from the department of Nuclear Medicine is actively involved and routinely assists Dr. SK Mishra in the school of Telemedicine. The Ministry of Health and Family Welfare, has been providing Grant-in-Aid for the Human Resources and maintaining and upgrading the infrastructure at the School of Telemedicine & Biomedical Informatics (STBMI), SGPGIMS, and has designated it as the National Resource Center (NRC). Highly advanced technical infrastructure has been created to support telehealth care and distance education and skill sharing such as Intelligent Digital Operation Theatre, E-Tumour Board, Immersive learning theatre, Tele-surgery studio etc. Around 60 medical colleges (including Medical colleges of Uttar Pradesh) are being networked to SGPGI on the back bone of National Knowledge Network. This facility is only one of its kind in the country. SGPGI has been assisting Telemedicine and eHealth Division, MoHFW, to implement various telehealth projects like CollabDDS Online Radiological Services (CORS) on pan India basis in collaboration with National Informatics Center.

NRC, SGPGI played key role in establishment & operation of Telemedicine facilities at District Hospital, Baharaich, Raibareli and Community Center at Bachrawana.

SGPGI signed an MoU with National Thermal Power Corporation (NTPC) for establishment of Telemedicine facilities at their Unit Hospitals. Currently, two locations i.e. Rihand and Meja are under implementation phase.

Vision of SGPGI Telemedicine Programme: 2020 & Beyond

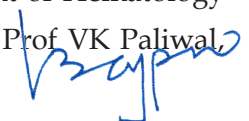
- Setting up Best Practices in Tele-care for population at large and Tele-education to supplement knowledge and skill gap of needy healthcare professionals in the country and developing world at large.

- Developing trained human resources in the fields of Digital Health through structured curriculum based courses, sponsored training, fellowship etc.
- Advancing various e learning modules over National Medical College Network and Cloud enabled mobile learning programme. Popularizing the modules developed at SGPGI.
- Designing and deploying ICT integrated collaborative Learning Work Spaces.
- Setting up Advanced Telemedicine Research Programmes aiming at Population health, Safety of patients, Tele-epidemiology, Surgical Informatics etc.
- Introducing concept of Virtual Hospital and outreach programme-Rural Access to Affordable Healthcare Adopting Telemedicine (RAAHAT) in collaboration with Institute and Health development of GoUP.
- Expanding Medical College Network from existing three medical colleges to all the medical colleges of the state.
- Creating a Center of Excellence in Digital Health in India and applying WHO to declare the center as WHO Collaborating Centre.

Honors and Recognition received by Faculty Members/Residents/ Research Scholars of SGPGIMS

As in past years, the SGPGIMS faculty, residents and research scholars of the Institute have received wide-ranging awards, honors and recognized in the professional, research and academic circles over the last year. Some of these are listed here:

Prof Sunil Pradhan received several prestigious awards including U.P. Ratna Samman by the Government of Uttar Pradesh, Gomati Gaurav Samman, Seva Bhushan Samman for Vishist Chikitsa Seva, Seva Bharti and Awadh Prant award. Lifetime achievement awards have been conferred to Prof. SK Yachha from Uttar Pradesh Academy of Pediatrics. Prof. Aneesh Srivastava was conferred the Life time achievement award by the Urological Association of Uttar Pradesh and Uttarakhand (UAU). Dr. Narayan Prasad was awarded Honorary FRCP, Prof. Vikas Agarwal received honorary Fellowship of the Royal College of Physician, Edinburgh. Dr. Anita Saxena received International Excellence Award for distinguished achievement and services. Prof Anupam Verma received an award for Excellence in Transfusion Medicine under the Medical Specialty from Venus International Foundation. Prof UK Misra was awarded the Medical Sciences –Clinical Research award by the Sun Pharma Research Foundation. Prof J Kalita Amrut Modi Unichem prize by the ICMR and the Outstanding Faculty Award by Career 360. Dr. Dharmendra Bhadauria, received Icons of Health award by Times Group of UP, Bihar & Jharkhand. Dr. Vinod Verma, department of Hematology received Vigyan Ratna Puraskar by Global Environment & Science Association. Prof VK Paliwal

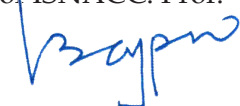


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Department of Neurology, was felicitated by Hon'able Governor, Puducherry Ms. Kiran Bedi and Mr. Sandeep Singh (former Captain of Indian Hockey Team) at Doctor's Day Conclave 2019. Dr Sanjay Gambhir, Department of Nuclear Medicine received Schroll of Honor, by Gujarat Cancer and Research Institute Ahmedabad. Faculty members of the institute have been entrusted with various administrative responsibilities of national and state levels: Prof. Rakesh Aggarwal was selected as Director JIPMER, Pondicherry from January 2019. Prof. Soniya Nityanand, took charge as State Nodal Officer for the Hemophilia Control Program under the National Health Mission. Numerous faculty members were conferred fellowships by various national and international organizations: Prof R K Singh, Department of Emergency Medicine received Fellowship of the American College of Emergency Experts in India. Dr. Durga Prasanna Misra from Department of Clinical Immunology got the Fellowship of the Royal College of Physician, Edinburgh. Dr. Awadhesh Jaiswal and Dr. Arun Srivastava, department of Neurosurgery received skull base surgery fellowship from Fukushima medical university, Japan. Prof. Vinita Agrawal department of Pathology received Fellowship of Indian College of Pathology. Dr. Pawan kumar Verma, department of Neurosurgery secured AOTS Training program fellowship from Japan. Dr. Ved Prakash, Departments of Neurosurgery received fellowship from Japan. Dr. Kamlesh Bhaisora, Department of Neurosurgery visited Medical University of South Carolina, on Charleston fellowship in Neurovascular intervention. Dr. Shagun Misra, department of Radiotherapy received ICRET fellowship at University of Pennsylvania, Philadelphia USA. Dr. Latika Gupta, Department of Clinical Immunology, received EMBO Short term fellowship at University of Bath, UK. Dr. Zia Hashim, department of Pulmonary Medicine received Fellowship of Indian Society of Sleep Medicine in. Dr. Shruti Gupta, department of Neurosurgery received Neurosurgical Fellowship at Regional Neurosciences Centre, Cardiff. Dr. Suyash Singh, department of Neurosurgery obtained Neurosurgical fellowship at the University Hospital, Belgrade, Serbia.

Dr Deepak Khatri, department of Neurosurgery received North Shore Neurosurgical fellowship, New York. Institute faculty members were called upon to deliver prestigious orations at various conferences:

Prof. Rakesh Kapoor delivered the Gujral Bhargav Memorial Oration award at KGMU, Lucknow; Prof. VA Saraswat, delivered Dr. PN Chuttani Memorial Oration awarded by ISG in Cochin. Prof. Sanjay Behari, delivered Kapil Sood oration of Uttar Pradesh Neurosciences Society, annual oration at Bombay Neurological Association and Midwest neuro-surgeon society oration. Dr Sanjay Gambhir, T. B Patel Oration and Hall Anger Oration by Nuclear Medicine Physicist Association of India. Prof. Ujjala Ghoshal, delivered Prof. CM Habibullah Oration in Cochin in November 2018. Dr Shashi Srivastava, delivered Gode Oration at the Annual National Conference of ISNACC. Prof. Swasti Tiwari, delivered invited talk on its Foundation Day of DBT.



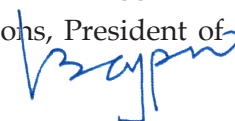
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Numerous faculty members of the institute were nominated and served as experts or members of various technical and professional committees by international and Indian agencies:

Prof. R. N. Mishra participated as Member of ICMR Scientific Advisory Committee, Member of the DST Task Force on Satyam. Prof. Amita Aggarwal Co-chaired GOI statutory body for recombinant and genetically modified (RCGM) products, Member of DBT task force on chronic disease biology, and member of Sectional Committee on Medical Sciences of Indian Academy of Sciences. Prof. Sanjay Behari was elected as the President of UP-UK Neurosciences Society. Prof. VA Saraswat, was President Elect and Vice President, Indian Society of Gastroenterology. Dr. Punita Lal and Dr. KJ Maria Das selected as teaching faculty in Indian College of Radiation Oncology. Prof. Ujjal Poddar, Department of Pediatric Gastroenterology was invited as guest faculty for plenary session of International Conference of the Bangladesh Pediatric Association, and Visiting Professor, at Bangabandhu Sheikh Mujib Medical University, Dhaka. Prof. Preeti Dabadghao, was elected as President of the national Pediatric Endocrinology Society, ISPAE. Prof Anupam Verma served as State Nodal Officer Hemophilia. Dr Arun Srivastava was elected as the treasurer of UP-UK Neurosciences Society. Dr Rungmei Marak has been selected as Executive member of Hemwati Nandan Bahuguna Medical University, Uttarakhand. Dr. Kirti Naranje and Dr. Anita Singh, Department of Neonatology were selected as National Instructors for Neonatal Resuscitation program. Dr Ankur Bhatnagar Department of Plastic Surgery was elected as Executive Member Association of Plastic Surgeons of India and Secretary Breast Reconstructive and Aesthetic Surgeons Association. Prof. UC Ghoshal was elected as Chair, Rome Foundation International Liaison Committee, Director of Household Survey of Rome Foundation Global Epidemiology Survey and expert in UP CST. He is also serving as a President of Indian Motility and Functional Diseases Association and elected as Governing Council Member of the Indian Society of Gastroenterology. Dr. Mohan Gurjar department of Critical care Medicine, National representative of international studies 'EURECA' and 'ENIO'.

SGPGI faculty members have been contributing to the process of scientific publications by serving as editors, sectional or sub editors and editorial board members of various scientific journals, and by reviewing papers submitted to various scientific journals. In the past year, these included:

Prof. Amit Gupta serves as an Emeritus Editor of Indian Journal of Peritoneal Dialysis. Prof. E. Bhatia is an Editorial Board Member of Indian Journal of Medical Research; National Medical Journal of India. Prof. V Bhatia is an Editorial Board Member, Hormone Research in Pediatrics (J. European Society for Pediatric Endocrinology). Dr. Banani Poddar is an Associate Editor of 'Indian Journal of Critical Care Medicine'. Prof. Sanjay Behari Department of Neurosurgery is the Editor in Schiele of Neurology India, and edited 3 books on Minimally invasive Spine Surgery. Prof. Amit Aggarwal serves as Council –Coordinator of International Association of Endocrine Surgeons, President of



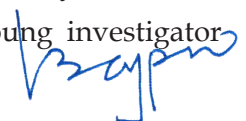
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Indian Association of Endocrine Surgeons, President of Indian Thyroid Society, Editor-in-chief of World Journal of Endocrine Surgery, nominated on the Editorial board of Thyroid Research and Practice and reviewer of World Journal of Surgery, International Surgery, Laryngoscope. Prof. UC Ghoshal was selected as Editor in Chief, Indian journal of Gastroenterology and associate Editor of Digestive Disease Journal and is serving as an advisory board member from India in Nature Review Gastroenterology and Hepatology. Prof. Ujjal Poddar section editor, Gastroenterology, Indian Pediatrics. Dr. Narayan Prasad an executive Member- International Society of Nephrology- Renal Sister Programme, Executive Member- South Asia Regional Board, International Society of Nephrology, Members of Guideline committee- Prevention of Diabetic Nephropathy, Asia Pacific Society of Nephrology. Prof. Vikas Agarwal serves as an Editor in Chief- Indian Journal of Rheumatology, Member Technical evaluation committee ICMR. Dr. Narayan Prasad is an Associate Editor, Indian Journal of Nephrology, Associate Editor, Indian Society of Organ Transplantation, Secretary, Indian Society of Nephrology. Dr. KJ Maria Das editorial Board member of Journal of Medical Physics and International Journal Medics Physics, Clinical Engineering and Radiation Oncology. Dr. Sushma Agrawal, Editorial Board member for Indian Journal of Cancer and South Asian Journal of Cancer. Dr. Anita Saxena Secretary of Renal Nutrition and Metabolism, Editor of Journal of Renal Nutrition and Metabolism, Member Expert for Review Panel in The Kidney Disease Outcome Quality Special Initiative, Member Editorial board Journal of Renal Nutrition, Honorary Faculty for Certificate in renal nutrition, Med varsity Hyderabad, Honorary Faculty, GOI Certificate course in Community health for Nurses (BPCCHN). Dr Dheeraj Khetan, Department of Transfusion Medicine was nominated as Associate Editor of Asian Journal of Transfusion Science.

Dr. Dharmendra Bhadauria, Department of Nephrology is a Council Member of Indian Society of Organ Transplantation and Editorial Board Member, Indian Journal of Transplantation. Dr. Mohan Gurjar, Department of Critical care Medicine is a Research Committee Member, Indian Society of Critical Care Medicine and Editorial Board Member of 'Journal of Neuroanaesthesiology and Critical Care' and The Anesthetist's Forum and authored Textbook of Ventilation, Fluids, Electrolytes and Blood Gases. Ms Rachna Mishra department of Neurosurgery won Best paper presentation award for on Nursing day celebration, SGPGIMS.

Institute faculty, residents and researchers bagged international and national best paper awards / best poster awards at various conferences, symposia and other scientific events:

Dr Sandeep Sahu, department of Anaesthesiology ICN National Award for Emergency health care service, IMA Appreciation Award for improving emergency health care service and public health. Prof. Ram Nawal Rao, Department of Pathology won best E-Poster Award at Sydney, Australia. Dr. Moinak Sen Sarma Department of Pediatric Gastroenterology received Young investigator



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Executive Registrar
SGPGIMS, Lucknow

award, European Society of Pediatric Gastroenterology Hepatology and Nutrition, Glasgow and Poster of excellence at Vienna. Dr Rahul Katharia, Department of Transfusion Medicine Award for excellence, Best Speaker: ISBTI, Vizag. Dr Chinmoy Sahu, Department of Microbiology first prize in bio-informatics quiz organized by IIT, New Delhi. Dr. Latika Gupta, Department of Immunology received APLAR Celltrion Best Oral abstract award at APLAR, Taiwan. Dr Aarti Agarwal, Department of Anaesthesiology won Best Paper Award at the Asia Pacific Intensive Care Forum at Singapore. Dr. Deepti Saxena, Department of Medical Genetics won 1st prize for poster presentation at FOGSI International Conference at Gorakhpur, U.P and Best poster presentation at Annual Conference of UPCOG held at Prayagraj, U.P. Dr. Suyash Singh (Post doctoral fellow) Department of Neurosurgery “Best young neurosurgeon paper award” at the World Federation of Neurological Societies at Belgrade. Dr Kumar Madhavan, Department of Urology won best poster award at the 38th Congress of the Société Internationale d’Urologie Seoul, South Korea and second prize for Marudhara Best Paper award at the Annual Conference of the Urological Society of India, North Zone Chapter at Ludhiana, Punjab. Dr. Sushma Singh, department of Immunology received Best Paper, Poster: Basic Sciences in IRACON, Guwahati. Dr. Ved Prakash, department of Neurosurgery, Best paper award in AASNS- Neurotrauma committee, PGI Chandigarh. Dr Durga Prasad, department of Pediatric Gastroenterology received CP Mittal Award for best oral paper, annual meeting of Indian Society of Pediatric Gastroenterology, Hepatology and Nutrition Mumbai. Dr. Parijat Ramm Tripathi, department of Pediatric Gastroenterology won 1st Prize (plenary session): at ISPGHANCON Mumbai. Dr Amit Gopan, department of Pediatric Gastroenterology won 1st prize (poster): at ISPGHANCON Mumbai. Dr. Rahul Jena (SR), Department of Urology received CKP Menon Best Paper award at USICON at Bhubaneshwar and Best Poster award at the NZUSICON Ludhiana, Punjab. Dr. Astha Panghal (SR), department of Neonatology won gold medal’ prize in oral paper presentation in UP Pedicon. Dr. Anmol Singh Rai (SR), department of Neurology, won 2nd prize in TYSA. Dr. Naved Alam (SR) department of Radiotherapy Best paper award UPAROICON, Varanasi and First prize in quiz - YROC 2018. Dr. Y Susheel Kumar (JR) department of Radiotherapy and Dr. MS Gujral gold medal for best paper award in the AROICON at Thiruvananthapuram. Department of Hospital Administration won 2nd Prize in Poster Presentation at National Workshop on Healthcare Waste Management, Environment & Occupational Safety organized by VMMC and Safdarjang Hospital New Delhi. Dr. Goonj Johri (SR), Department of Endosurgery 3rd prize in poster podium session at AsAES and 16th Biennial Congress of the Asian Association of Endocrine Surgeons: New Delhi, India. Dr. Sanjay Kumar Yadav, Department of Endosurgery won the “Best Paper Award (2nd Prize) by Asian Association of Endocrine Surgeons during Biennial conference at New Delhi, India. Dr. Ramya, Department of Endosurgery received Prof. Jyothirmalingam best paper award and Second best Poster award at Indian Asso. of Endocrine Surgeons, and Best Poster award at WCS: Dr. Suneel Mattoo, Department of Endosurgery won

Prof. S. Vittal's Best Paper Award at ASICON. Ms Jyotika Srivastava (PhD Scholar) Department of Hematology won 2nd prize at Academy of Experts Meeting, organised by Mumbai Hematology Group. Dr Sujeet Kumar (DM Student) and Dr Faheema Hasan Department of Hematology won 3rd prize in the Myeloma-Quiz, held during Indian Myeloma Congress, Mumbai.

Numerous Travel grants/ awards/ bursaries from various organizations/ professional societies/ conference organizers were awarded to SGPGI faculty, residents and research scholars. These included: Dr. Sanjay Kumar Yadav Department of Endosurgery received "Tata Education and Development Trust travel grant for an observership program in Endocrine, Parathyroid, and Thyroid Surgery at Johns Hopkins Hospital, Baltimore, USA and "UICC travel grant for World Cancer Congress, Kuala Lumpur, Malaysia and ATA Trainee Grant for participation in the E. Chester Ridgway Trainee Conference during annual conference of American thyroid Association, Washington, D.C. Dr Rahul Katharia, department of Transfusion Medicine Young Investigator Travel Fellowship Grant, ICKSH, South Korea. Dr. Jayesh Sardhara, department of Neurosurgery received WFNS international travel fellowship for MISS Seoul, Korea. Dr. Latika Gupta got JCR fellowship to attend the Japanese College of Rheumatology Conference at Kyoto, Travel fellowship to attend the Korean College of Rheumatology Conference at Seoul and Travel Grant by ICMR for oral presentation at APLAR, Taiwan. Dr. Goonj Johri (SR), Department of Endosurgery, received Traveling scholarship to attend ASAES and Biennial Congress of the Asian Association of Endocrine Surgeons: New Delhi, India. Dr. Bhanuprakash K. B. received travel grant from 'Asia Pacific Intensive Care Forum' to present his research at SG-ANZICS, Intensive Care Forum held at Singapore. Dr Anil Mani

Department of Urology received AUA Traveling Fellowship by Urological Society of India to represent India at the Resident's Bowl, the annual resident quiz of the American Urology Association. Dr. Sidharth Pant (SR) department of Radiotherapy received ICMR Travel grant for ASTRO meeting. Dr. Naved Alam (SR), department of Radiotherapy received a travel grant in the Young Radiation Oncologists of India. Dr. Sapana Bothra department of Endosurgery received Chester Ridgeway Trainee Grant at the annual meeting of American Thyroid Association, Washington DC. Dr. Nitish and Dr. Abhishek, department of Endosurgery received Trainee Grant annual meeting of American Thyroid Association.

Institute being a center for education and training, various conference/CME/ workshops are organized every year. To name a few: Department of Clinical Immunology & Rheumatology: National Workshops, IRACON 2018, Department of Nephrology: World Kidney Day, Advance Course In Renal Nutrition And Metabolism, Department of Ophthalmology: 1st SGPGI Oculofacial aesthetic workshop demonstrating the use of Botulinum and filler, Department of Anaesthesiology: Ultrasound Workshop, Enhanced Peri Operative Care, Ultrasound Guided Regional Anesthesia, Department

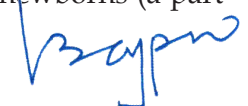


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Executive Registrar
SGPGIMS, Lucknow

of Biostatistics and Health Informatics- Sample size estimation: concepts and application, Survey Research Methodology. College of Nursing Community Health Nursing (BPCCHN), sponsored by NHM with the collaboration of dept. of Hospital Administration, Department of Molecular Medicine & Biotechnology: International symposium in Molecular Medicine, organized at SGPGI; Department of Transfusion Medicine: "Orientation training program of Medical officers from NACO supported blood banks of the state on pattern of utilization of blood and blood components. Department of Endocrine surgery: Organized the Biennial meeting of International Society of Oncoplastic Endocrine Surgeons and 4th annual meeting of Indian society of thyroid surgeons. Department of Medical Genetics: ICMR Course on Medical Genetics and Genetic Counseling. Departments of Neurosurgery: Minimally invasive spine surgery conference, Craniovertebral Junction spine & skull base live & cadaveric workshop, endoscopy skull base workshop, Minimally invasive spine surgery live and cadaveric workshop. Department of Urology: Pediatric and Adolescent Urology workshop and conference on gender reassignment surgery. Department of Cardiology: National Interventional council of the Cardiological society of India, Chronic Total Occlusion Intervention in collaboration with Japanese expert group in the field under the banner Indo Japanese Chronic Total Occlusion. Department of Gastroenterology: UPISGCON. Department of Hospital Administration-State CME on Antimicrobial Stewardship, Healthcare Executive Management Development Program for CMO from UP Health Services. Department of Surgical Gastroenterology: The National Conference of the Association of Minimal Access Surgeons of India, 23rd Surgical Gastroenterology. Department of Hematology: A workshop for the lab diagnosis of coagulation disorder, under the aegis of NHM, and in association with World Federation of Hemophilia, CME cum workshop on Blood Coagulation, Young Hematologist Orientation Program also conducted the 1st Masterclass of Peripheral blood and Bone marrow examination. Department of Radiotherapy: conducted a annual course on Supportive care for Residents, Students and Nurses, Teaching course on Follow up of cancer patients on Foundation day, CME for Radiotherapy Technologists.

Some of the other noteworthy achievements and recognition of the institute faculty, residents, nurses and other staff included:

Prof Girish Gupta and Dr. Astha Panghal department of Neonatology developed an indigenous Cricothyrotomy simulator named 'GiriAsh', a unique innovation for training in emergency management of newborns with difficult airway. Department of Neonatology has facilitated the Institute and Dept of Medical Education to sign MOU with Sinai Health system, Canada to establish CINCERE (Canada -India Neonatal Centre of excellence in Research and Education) program. The department is also establishing NASTRAC (Neonatal Advanced Simulation Training and Research Centre) to train all pediatricians of state of UP for management of sick newborns (a part



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Executive Registrar
SGPGIMS, Lucknow

of CINCERE). Department of Emergency Medicine was given Excellence Award” from the Director on the occasion of 73rd Independence Day. Dr. Rajesh Harsvardhan, department of Hospital Administration has received letters of appreciation from Principal Secretary Medical Education, State of UP and Hon’ble Minister of health. Dr. Dharmendra Bhadauria was a part of the team constituted by Director, SGPGIMS to develop Transplant Program at AIIMS, Jodhpur. Department of Nuclear Medicine started economical therapy for liver cancer patients. School of Telemedicine & Biomedical Informatics signed MOU with National Thermal Power Corporation (NTPC) for establishment of Telemedicine facilities at their unit Hospitals. Department of Hematology: signed MoU between the Coal India Limited & MoHFW & SGPGIMS for providing financial aid for Allogenic Bone Marrow Transplant of thalassemia patients.

Sister Sheela Singh, department of Radiotherapy was awarded Best Nurse award in May 2019. Mr. Sita ram, department of Radiotherapy got Patient attendant- Good worker award on Republic day.

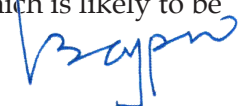
Institute Balance Sheet

During financial year 2018-19 as a part of the capital expenditure, Rs. 60.00crore for construction work, Rs.42.00crore for purchase of medical equipments was received from Govt. of Uttar Pradesh. The major projects funded under the capital head are construction of 40 Type-IV houses, Modular Operation theatres, fire fighting and electric connection of Lecture hall & Library building, 100 flats of Married Hostel and research students hostel & up-gradation of old lift system.

During financial year 2018-19 under the revenue head a grant of Rs. 488.80 crore for pay & allowances and Rs. 200.00 crore for other than pay and allowances, Rs.19.42 crore for payment of 50% arrear of 7th Pay Commission was received from Govt of U.P. Adding the Institute internal income of Rs. 67.32 crore, the total receipts were Rs. 756.12 crore, against which expenditure of Rs. 633.60 crore was incurred including Pay & Allowances, wages, other hospital expenditures and other various heads. Rs.2.00 crore for free medical facilities to be provided to BPL patients was received from Govt. of U.P.

For the financial year 2018-19 an additional grant of Rs.25.00 crore has been received for Medical Equipments of Trauma Centre.

A sum of Rs. 473.00 crore SBI loan has been sanctioned by the Govt. of U.P. for upgradation of patient care facilities. Out of which Rs. 118.00 crore has been released till date by the State Bank of India for construction of Emergency Medicine building & Rs. 26.80 for Medical Equipments for Emergency Medicine Department, Robotic Surgery & Centre of Hepatobiliary diseases and transplantation. Emergency Medicine building is proposed to be completed in December, 2019, which is likely to be



started in the next year.

For the financial year 2019-20 under the Capital head Rs. 60.00 crore for construction of ongoing projects and Rs. 30.00 crore for Medical Equipments of various departments has been allotted. An additional Grant of Rs. 5.00 crore has been sanctioned for Tertiary Care Cancer Centre (TCCC) under National Program for prevention and control of Cancer, Diabetes, Cardiovascular Disease & stroke (NPCDCS). Under Revenue head Rs. 520.00 crore for Pay & Allowances, Rs. 19.42 crore for payment of balance 50% arrear of 7th 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. 78.23 crores is expected during financial year 2019-20.

For the financial year 2019-20 and additional grant of Rs. 20.00 crore has been allotted for Medical Equipments of Trauma Centre & Rs. 10.00 crore for 24 hours free medical treatment for Trauma patients.

The **Public Relations Cell** deals with the management of both internal and external communication thereby enhances and improves the flow of information within and across various hospitals. This year to facilitate patient care especially to senior citizens a help desk from 8.00 am to 4.00 pm is formed. A route map facility at the registration desk and an information brochure in Hindi containing information regarding all clinical departments and various facilities available for patients was compiled and uploaded on the institute's website. SGPGIMS Newsletter which is a showcase of the various activities of the Institute is now fully active making us aware of the happenings within the Institute.

Staff Members that Superannuated in 2019

Slowly, the Institute is coming of age. In 2019 - 43 colleagues/staff superannuated or took voluntary retirement. Their contributions are acknowledged:

- | | |
|----------------------------|--|
| 1. Prof. Raj Kumar Sharma, | Prof. & Head, Nephrology |
| 2. Prof. T. N. Dhole | Prof. & Head, Microbiology |
| 3. Prof. Janak Kishore | Prof. Microbiology |
| 4. Prof. C. M. Pandey | Prof. & Head, Biostatistics |
| 5. Prof. S. K. Yaccha | Prof. & Head, Pediatric Gastroenterology |
| 6. Prof. K. N. Prasad | Prof. & Head, Microbiology |
| 7. Dr. Aruna Prashar | Additional Professor |
| 8. Mrs. Chaya Sanyal | Nursing Superintendent |



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Executive Registrar
SGPGIMS, Lucknow

9. Smt. Sushma Srivastava	UDA, Neurology
10. Col. Ajay Gupta	Senior System Analyst
11. Shri D. P. Tripathi	PPS
12. Shri Mahesh Singh	LDA
13. Shri P. N. Swami	Senior Attendant
14. Shri Ramdatt Tiwari	Senior Electrician
15. Shri Harinath Mishra	Librarian Grade-I
16. Shri Kalib Solanki	O.T. Supervisor
17. Shri D. P. Pradhan	PPS
18. Shri Abhaysaran Jain	Technical Officer
19. Shri S. N. Semwal	Senior Technical Officer
20. Shri Tej Bahadur Yadav	LDA
21. Shri Ghanshyam Tiwari	LDA
22. Shri Walter Mashih	Asst. Store Purchase Officer
23. Smt. Malti Grey	Asst. Nursing Superintendent
24. Shri V. K. Jaiswal	Sr. Store Purchase Officer
25. Smt. Edith Sahni	DNA
26. Shri Pawan Kumar Gupta	LDA
27. Shri BML Srivastava	Senior Electrician
28. Shri Ram Bharoshey Yadav	Attendant Grade-I
29. Shri Satya Narayan	Mali Grade-I
30. Shri Mahadeen Vikram	LDA
31. Smt. L N Brawn	DNS
32. Shri Vijay Kumar Srivastava	Technical Officer
33. Shri Krishna Chandra Singh	Technician Gr.-II
34. Km. Meena Daniel	NS
35. Smt. Kanteswari Shukla	ANS
36. Dr. Pushpa Singh	M.S.S.O. Gr.-I

List of persons who took voluntary retirement:

1. Dr. R. V. Phadke	Prof. & Head, Radiodiagnosis
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Executive Registrar
SGPGIMS, Lucknow

2. Dr. Hem Chandra Prof. & Head, Hospital Administration
3. Prof. Richa Lal Prof. & Head, Pediatric Surgical

Super-specialties

4. Shri Ram Singh Haritwal Staff Nurse
5. Shri Umesh Kumar Sharma Staff Nurse
6. Shri Gajendra Solanki Staff Nurse
7. Shri Ram Ashrey Senior Attendant

Our Losses...

SGPGI mourns the death of 6 staff members in 2019 and pay condolence to their family members and acknowledge their contribution:

1. Shri Ram Kishore Mali Grade-II
2. Shri Ram Lal Attendant Grade-II
3. Shri Ram Vilash Patient Helper
4. Shri Vijay Kumar Bearer Masalchi
5. Dr. Jyoti Zack Senior Demonstrator

Molecular Medicine & Biotechnology

6. Shri Ram Virendra Yadav Attendant Gr.-I

Degree Awards and Recognition in 2019

Lastly, 151 students were conferred DM/MCh super-speciality degrees in Medical and Allied Health Courses. 3 Medal winners - Dr. SR Naik Award for Outstanding Research Investigator – Prof Sanjay Behari, Department of Neurosurgery, SGPGI; Dr. S.S Agarwal Award for Excellence in Research – Dr. Suvrat Arya, Clinical Immunology, SGPGI; Dr. RK Sharma Award for Best DM Student – Dr. Suvrat Arya, Department of Clinical Immunology, SGPGI, Dr. RK Sharma Award for Best MCh Student – Dr. G Krishna Kumar, Department of Neurosurgery, SGPGI were acknowledged for their exceptional performance

Prof Rakesh Kapoor

Director

