

Achievements

Anaesthesia

- Department was part of the team of World's First Paediatric Swap Transplant.
- Department is also involved COVAXIN Programme of KEM Hospital.
- The department was part of the first successful hand transplant team.

Anatomy

- Organised Dr. Dhayagude drawing competition & Dr. Shirwalkar general proficiency scholarship examination • Staff members selected for FAIMER courses
- Staff members invited as Guest speakers for Anatomy, Medical Education and Bioethics

Biochemistry

- Faculty coordinated and delivered various lecture for online workshop 'CLINICAL LABORATORY PRACTICES: A QUALITY APPROACH' from 3rd Aug to 5th Aug 2021.

Cardiology

- Newer diagnostic modalities including Transesophageal Echo with 3D reconstruction, Live 3D echo, Contrast echo and perfusion imaging, Dobutamine Stress Echocardiography are now integral part of our routine patient management.
- Several complex interventions were performed in the cath lab, including Transcatheter Aortic valve Replacement, neonatal BAV, BPV and coarctoplasty and coarctation stenting and PCI of left main coronary lesions, complex bifurcations, OCT, rotational atherectomy, 3D electroanatomic mapping of arrhythmias and their ablation, physiologic (His bundle and Left bundle) pacing.
- The department has initiated the pacemaker lead extraction program and could successfully perform 4 such cases.
- The department has received a grant for state-of-the-art 2D echocardiographic machine (Vivid iq, GE Healthcare Ultrasound) through The Indian Hume Pipe Company Limited, Mumbai for dedicated ICU care.
- The department could also set up two well equipped dedicated ICCU beds for TAVR and complex structural intervention patients. The department has been enrolled for many new landmark trials for newer cardiovascular drugs (SELECT, ZEUS).

Cardiovascular and Thoracic Anesthesia

- NIRS, Videolaryngoscopes, Video DLTs- have been introduced into routine practice • Multiple CMEs, Guest Lectures in National conferences, Workshops were organized. • Ambu bronchoscope

for difficult airway management introduced. • TAVI- Transcatheter Aortic Valve Implantation now routinely performed by dept of cardiology undertaken by Dept of cardiac anaesthesia.

Cardiovascular and Thoracic Surgery

- Minimally Invasive Cardiac Surgery gained momentum and now includes surgeries of congenital heart disease, valve replacements, valve repair. single and multi-vessel coronary disease..
- Development of centre of excellence for interventional aortic aneurysm procedures in collaboration with Department of Radiology.
- 2• Extending Valve repair procedures.

Clinical Pharmacology

- Addition of pharmacogenetics of azathioprine – services for NUDT 15 from 20-July-21
- Several joint teaching programs were conducted for DM residents in collaboration with PGI Chandigarh and Nizam’s institute, Hyderabad
- The department was one the centers for the two COVID -1 9 vaccines clinical trials – COVOVAX™ and COVISHIELD™. The latter has received Emergency Use Authorization 8 Annual Report 2021

Community Medicine

- Dr. Gajanan Velhal, Professor and Head was elected as President IPHA Maharashtra Chapter for 2021-2024
- Dr. Gajanan Velhal gave a Plenary speech at International conference organised by Talyors University, Malaysia
- Dr. Rachhanaa Satish Pawaskar Developed a mobile application named ‘Stan Swasthya’ aimed to create awareness regarding Breast Cancer (causes, risk factors, stages, prognosis and treatment).
- Dr. Kritanjali Sahu and Dr. Rachhanaa Satish Pawaskar Nominated as Nodal Officer for the Air-borne infection control research project of ICMR-National AIDS Research Institute (NARI), Pune. (August-September 2021)

Dentistry

- The department is now fully renovated state of the art OPD.
- There are 5 electronically operated dental chairs and units catering to the dental needs and treatment of patients. Dermatology
- Dermatoscopy for various pigmentary disorders.
- Peels for acne, skin rejuvenation and pigmentation.
- Follicular hair transplantation in androgenetic alopecia and vitiligo.

- Dermaroller therapy for patients of androgenic alopecia
- Vitiligo surgery.
- Q switched ND YAG laser for correction of pigmentary birth marks and other pigmentary disorders, tattoo removal, facial rejuvenation.
- I PRF – innovative procedure for hair growth.
- DPCP for hair loss and periungual verruca vulgaris.
- Vitamin D3 therapy in keloid.
- Intense pulse laser in steroid abuse patients and rosacea.
- Use of newer peels for various cosmetic indications.
- Newer treatment modalities for recalcitrant warts.

Endocrinology

- Participation in various symposia and conference by Dr Tushar Bandgar, Dr Anurag Lila, Dr. Virendra Patil at various national and international conferences

Forensic Medicine and Toxicology

- Professor & Head Dr. Harish Pathak has been appointed as DEAN, Crompton Greaves, Jumbo Covid Centre, Bhandup
- FOHIL: Pattern injury reporting in cases of Crime Against Women & Children. Identification of human remains from victim of crime, missing and unknown person, natural disaster by forensic odontology and Manual & Digital 2d & 3d forensic facial reconstruction.
- Organised 1st Biennial Symposium of Association Forensic Odontology for Human Rights Rescue, Rights & Dignity of The Dead on 23-24 Sep 2021.
- Organised 18th Annual National Conference of Indian Association of Forensic Odontology on 25th - 26th Sep 2021.
- Department has been centre of reference for sensitive, complicated, medicolegal & sexual assault cases.

Gastroenterology

- Department of Gastroenterology KEM Hospital is nominated as model treatment center for National Viral Hepatitis Control Program.

General Surgery

- Dr. Varsha Kulkarni designed a special intubation box for ease of intubation in Covid 19 patients.
- Dr. Jignesh A Gandhi -conducted AWR Cadaver Workshop held at KEMH in August 2021
- Dr. Rajiv Satoskar Prof. & HOD, Department of General Surgery superannuated on 30.04.2021.
- Dr. Abhay N. Dalvi Prof. department of General Surgery superannuated on 30.04.2021.
- Dr. Varsha Kulkarni appointed as Prof. & Head of the Department from 31.5.2021.
- Three faculties Dr. Jignesh A, Gandhi, Dr. Samir Suresh Deolekar, Dr. Suchin Sudhakar Dhamnaskar were given status of Professor Additional from 19.6.2021.

Hematology

- The Department also runs International hemophilia training center and Comprehensive Hemophilia Care Center with 1256 patients of hemophilia registered in our institution for treatment. Prophylaxis is the standard of care.
- We have started ITI in 04 patients
- Number of registered hemophilia patients are increased to 1256
- In day care more than 12468 patients are treated in the last 1 year.
- Around 250 Leukemia patients are diagnosed and treatment given in the last year
- 25000 patients in OPD basis and 13360 patients in day care along with 12468 in patients.
- With the help Cuddles Foundation the department has started dedicated nutritionist trained in cancer nutrition works in hematology dept and this foundation provides nutrition supplement and ration to pediatric cancer patients. We have also started RUTF nutrition supplement programme for paediatric patients
- Cankids organization has started their support programme in the department of hematology their Medical social worker and counselor counsel and help the patient regarding the chemotherapy, financial assistance, helping to get accommodation and other patient needs.
- Indoor Service: Ward 42 Total admissions-567
- Number of patients treated in Day care -16187

Medicine

- Dr. M. Y. Nadkar, Academic Dean, Professor and Head: Has been overall incharge of all Covid facilities in KEMH as administrative and logistic , HR head and Chairperson of Critical Care Committee for serious Covid patients
- Dr Santosh Salagre was selected for FAIMER Competency–Based Education Program (FACE) conducted by International FAIMER Institute
- All Faculty played an important role in the management of Covid -19 pandemic
- National, State and MCGM protocol compliant Covid 19 stage based treatment sheets were developed to ensure uniform treatment as per recommendations from Task Force, GOM.
- Establishment of a separate post covid mucormycosis ward
- Covid related equipment upgradation
- Total 51 Skanray Ventilators received through PM Cares fund were utilized for the care of critical COVID patients.
- Total 20 High Flow Nasal Canula Systems(HFNC's) received through MCGM or Donations utilized in SARI ward and COVID ICUS FOR critical COVID patients

Microbiology

- DHR/ICMR is established on the 7th floor of MSB and operational. It was inaugurated by Honourable AMC (WS), Shri. Suresh Kakani, in August 2021.
- The department successfully completed desk top surveillance for continued NABL accreditation till April 2022. • BACTEC FX 200 (automated blood culture system) has been installed and is operational. This is expected to improve the sensitivity and quality of blood culture results.
- Scaling up of HIV viral load testing in public sector – supported by NACO and MDACS.
- The department has actively participated as a testing centre in vaccine trials and in various other research projects for COVID-19.
- Participated in BCG vaccine trail along with community medicine department which has been completed successfully.
- Participated in “Latent Tuberculosis Infection” project along with Public Health Department (MCGM) which is completed successfully. The project was supported by Share India.
- A project to assess the operational feasibility of TATA MDCHECK TM for detecting SARS-CoV-2 has been completed. The project was supported by FIND (India).
- Department is recommended for certification of liquid culture and DST for first and second line anti-TB drugs including PZA and Levofloxacin by National Tuberculosis Institute of Central TB

Division, the certifying body. As per programmatic recommendation, follow up cultures are currently in it's ambit.

Neonatology

- Department of Neonatology recognized as the regional “Regional Collaborative Center for Facility Based Newborn Care” under National Reproductive and Child Health Program of Ministry of Health & Family Welfare, Government of India.
- Dr. Ruchi Nanavati: bestowed on the most prestigious award “Fellow National Neonatology Forum” during annual convention of NNF in Bangaluru, December 2021.
- Dr. Ruchi Nanavati: recipient of “President’s special appreciation award” during annual convention of NNF in Bangaluru, December 2021.
- Dr Ruchi Nanavati: member of Empowered Action Group (neonatal subgroup) of MOHFW, GOI on training and capacity building of HCWs for COVID 19 pandemic.
- Dr. Ruchi Nanavati: National faculty & In charge Regional Collaborative Centre of Facility Based Newborn Care Program under National Reproductive and Child Health Program of Ministry of Health & Family Welfare, Government of India.
- Dr. Ruchi Nanavati: Secretary of the Task Force of MCGM formed for planning of guidelines for the management of third wave COVID 19.

Nephrology

- 20 Live related renal transplants and 5 deceased donor renal transplants were done in 2021. All the patients are doing well with functioning graft.
- ICU dialysis facility started for critically ill patients in EMS- ICU (Medical Intensive Care Unit)
- As part of the team involved in ‘Hand Transplant’ we were involved in pre-transplant assessment and post-transplant medical management including immunosuppression regimen.
- Establishment of post COVID kidney care OPD for patients with kidney disease recovering from COVID-19. We have managed 103 Kidney transplant recipient with COVID-19 infection till date.
- Only centre to perform 24 x 7/365 days emergency haemodialysis, also provides the service to HIV/HbsAg/HCV positive patients.

Neurology

- We have Comprehensive Epilepsy Care center in Collaboration with Neurosurgery Since 2001 and we have completed 632 surgeries till date

Neurosurgery

- First Mortality Meeting held this year
- Conducted the first Mucormycosis case post COVID under general anesthesia radically excising the disease.
- Hosted Renowned Australian Neurosurgeon Dr. Charlie Teo for a teaching Program – C M E on gliomas involving all neurosurgeon in Mumbai and allied specialty as well on 24th Nov 2021

Nuclear Medicine

- Started PSMA PET CT (for diagnosis of cancer prostate)
- Introduction of many PET/CT related investigations:
 - Whole body PET/CT
 - Limited body PET/CT
 - Cardiac PET/CT
 - Brain PET/CT

Occupational Therapy

- Few of the tools for practice include splints, adaptive devices and orthoses prescription, fabrication and checkout. Prosthesis prescription, Wheelchair prescription, mobility aids prescription and training, Recommendations for 'Access' in community, home and other areas, Assessment and intervention in 'Activities of daily living', disability calculation and assessment and assessment for Work Fitness.
- During the 2nd wave of COVID-19, Occupational therapy services were rendered to patients admitted at NESCO Jumbo COVID Centre, Goregaon. Occupational therapists were deputed to NESCO on rotation basis, specialized Occupational therapy programs were developed and intervention given to admitted patients infected with COVID-19.
- Informative pamphlets regarding maintaining physical and mental health during COVID-19 pandemic were designed, printed and distributed at KEM Hospital's vaccination centers in collaboration with Community medicine department.
- Tele-Rehabilitation services started during Covid-19 pandemic were continued to cater services to OPD patients for rehabilitation.

Ophthalmology

- Department has trained ward assistants to perform their duties in wards and OT efficiently .
- Faculty participated as speaker in various CME programmes held at national level.
- Department is well equipped VEP/ERG machine and to run a paediatric ophthalmology clinic every wednesday 8am to 10 am.
- Use of double frequency nd-yag laser for management of posterior capsular opacity ,peripheral irridotomy ,selective laser trabeculoplasty.
- Use of newly installed cross linking machine for treating conreal ectasias like keratoconus.
- Our senior residents have been selected for fellowships in various subspeciality in pioneering institutes of ophthalmology in india.
- Our department is well equiped with fundus photography and slit lamp photography,usg b-scan,paediatric refractometer,and paediatric vision screening.

Orthopaedics

- Department of Orthopaedics “In search of excellence” has protocolled the patient management in subspeciality of spinal surgery, arthroplasty and arthroscopy.
- The department has taken an active part in conducting various academic activities and workshops in the year 2021 such as: o KEM Orthopaedics PG Training Course 5 March to 7th March 2021. o Clinical Meeting and master class on topic “PCL Knee injuries” on 2nd October 2021. o Bimonthly Bombay Orthopaedic Society meet on 3rd October 2021. o KEM Hospital Elbow Course - 8th to 10th October 2021. o Bone demo on robotic knee - 1st & 2nd November 2021. o Cadaveric Course & Live surgery – 4th & 5th December 2021.

Paediatrics

- Dr. C. T. Deshmukh contributed to COVID task force of MCGM for Pediatric COVID.
- Faculty members contributed to panel discussions on diverse topics. Paediatric Surgery Experience with the following
- 3D laparoscopic choledochal cyst excision and hepatico-duodenostomy in children.
- Laparoscopic pyeloplasty
- Lap assisted C-Arm guided Removal Of Endoscope capsule
- Lap management of intra abdominal cyst

Pathology

- Point of care testing - IL6, D-Dimer started for COVID 19 & other patients.
- Upgradation of Pathology class with mounting of over 100 new specimens for undergraduate teaching.
- Upgradation & Automation of the Emergency Medical Laboratory Services, Surgical Pathology & Cytology, Cardiovascular Pathology, Hematology & Clinical Pathology, Neuropathology & Out Patient Department for better services and timely delivery of reports.
- Continuing participation in external quality control program for Hematology, lipid and enzyme biochemistry with CMC Vellore and Randox Laboratories, UK, and cytopathology with Tata Memorial Hospital.

Pharmacology and Therapeutics

- Faculty members and postgraduate students bagged 9 awards for paper presentations at different national/regional conferences held this year.
- Various workshops on GCP, research methodology, ethics and adverse drug reporting were also conducted by the department.
- Faculty members also delivered lectures on various topics of ethics, research methodology in workshops conducted by MUHS and other institutes.

Physiology

- The staff members of the department were involved in various research activities both in Physiology and in Medical Education.
- Faculty was involved in managing Human resources for Covid at various hospitals in Mumbai. They were involved managing ICUs, wards and logistics.

Physiotherapy

- COVID related- Management of COVID patients in acute care and rehabilitation is still continued.
- Formulation of national level physiotherapy guidelines for management of COVID patients.

Plastic Surgery

- Prof. Vinita Puri lead the Plastic Surgery department and the multi disciplinary team which successfully conducted the first Hand transplant in Maharashtra in a public hospital in August 2021
- Partnership with 'ReSurge International', to benefit post burn contracture patients – all treatment provided free – including surgery, consumables, pressure garments and splints.
- Continuing Special Clinics for Patient care

Psychiatry

- Department of Psychiatry is a Regional Resource and Coordination Centre (RRCC) under DTC scheme.
- Provides Free drugs under scheme: T. Disulfiram, T. Naltrexone, T. Buprenorphine, Syp. Methadone DTCs under RRCC, KEMH are Bhardawadi, Rajawadi, Osmanabad, Goa, Dhule, Nagpur, Surat, Chennai, Hyderabad, Indore.
- HITGUJ Mental Health helpline received local as well as international calls for support.
- COVID-19 caregiver helpline was started
- Psychosocial Support Cell helpline for COVID-19 patients was started
- Dr. Kranti Kadam received 'Savitribai Phule Stri Gaurav Puraskar 'on Women's Day 8/03/21 Pulmonary Medicine
- The Department of Pulmonary Medicine and EPRC was involved in giving care to COVID, non-COVID as well as to post COVID patients.
- We have established post COVID care facility for in patient and out patients.
- We have undertaken therapeutic procedures like therapeutic whole lung lavage, gluing of bronchopleural fistula and bronchial dilatation in post tubercular stricture.

Radiology

- Over 3,20,000 patients come to the Radiology Department in a year for Diagnostic as well as Interventional Treatment.
- The department is equipped with latest and sophisticated 1.5 Tesla MRI, two CT Scan machines (64 slice and 160 slice), Mammography (for Breast Cancer Screening), Digital Fluoroscopy, Ultrasonography and Doppler machines.
- Peripheral Vascular and Neurovascular Minimally Invasive Interventions are carried out on a Bi-planar DSA machine. Conventional imaging is carried out on 5 Digital Radiography (DR) units as well as on Computed Radiography (CR) units.
- Facility for Radiofrequency Ablation (RFA) of tumors is available here. Endovenous Laser Therapy (EVLT) is done here to treat patients with varicose veins. Facility of DR Fluoroscopy for Barium study exists.
- Two High End Digital Radiography X-ray (DR) and Six Computerized Radiography X-ray (CR) machines have been installed this year. Annual Report 2021 13

Surgical Gastroenterology

- Developing Serum Markers to Predict Colonic Malignancy with IIT Mumbai.
- Faculty members delivered lectures on various topics like Surgery for Portal Hypertension, Management of Corrosive Pharyngo-Oesophageal strictures, Management of Colo-Rectal Liver Metastasis and Neoplastic Polyp /Adenoma -Carcinoma sequence.
- Faculty members also participated in various panel discussions.
- Students completed various fellowships.

Transfusion Medicine

- The Department has been awarded NABH Accreditation by NABH-National Accreditation Board for Hospitals and Health Care providers, Quality council of India, New Delhi
- Dr. Jayashree Sharma has been appointed as National Expert Reviewer for the NewsLetter constituted by Haemovigilance Programme of India, National Institute of Biologicals, New Delhi.
- Dr.Jayashree Sharma passed the NABH Assessor course in the year 2009 and has been empanelled as Assessor for carrying out assessment of blood banks/blood centers against NABH Accreditation standards in Blood Banks.

Urology

- ROTTO SOTTO Maharashtra, headed by Dr Sujata Patwardhan was awarded best ROTTO and best SOTTO in the nation in November 2021. There was Felicitation program organized on 27th November 2021 at Delhi by Hon'ble Minister of State for Health and Family welfare Bharti Pawar and Hon'ble Minister for Health and Family Welfare Mansukh Mandaviya.