



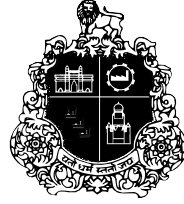
annual report 2020

SETH G.S. MEDICAL COLLEGE & KING EDWARD MEMORIAL HOSPITAL

Municipal Corporation of Greater Mumbai

The year that was.....





Seth G.S. Medical College & King Edward Memorial Hospital
Municipal Corporation of Greater Mumbai

ANNUAL REPORT
2020

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F r o m t h e D e a n ' s d e s k



The twin institutes of the Seth GS Medical College & KEM Hospital were established in 1926 with a nationalistic spirit to cater to the “health care needs of the northern parts of the island” to be manned entirely by Indians. With a glorious legacy of over 80 years, 10 lakh patients and 50,000 plus surgeries annually, these institutes are among the top ranked in the city and country with the Latin maxim “Non Sibi Sed Omnibus- not for self but for all”, embedded in every heart.

The year 2020 tumultuous to say the least. With the announcement of the COVID – 19 pandemic by the World Health Organization and the subsequent lockdowns imposed in the country and state, the staff of the institute rose to the occasion magnificently. This is chronicled in a new chapter in this year’s annual report. The trials and tribulations of a public sector institute that stood tall and firm amid the crashing waves of the pandemic is a true tribute to resilience and spirit of all those who worked and continue to work in testing circumstances.

Against all odds, the institute continued to excel and touch glorious heights. The first paediatric swap transplant was performed [Urology and Anaesthesia] as was the first Transcatheter Aortic Valve Implantation [TAVI] [Cardiology]. A new course DM Pulmonary Medicine [Chest Medicine] was rolled out as was a Epidemiology Resource Center [Community Medicine] . A combined PUVA and narrow band UVB chamber was installed [Dermatology]. The Gastroenterology department was nominated as a model treatment centre for the National Viral Hepatitis Control Programme. The Medicine department conducted a study on the use of Itolizumab in patients with COVID -19 while the Clinical Pharmacology department tested the Serum Institute/Oxford vaccine in a little over 100 participants. The Microbiology rolled out diagnostics for COVID -19 and successfully renewed its NABL accreditation. Neonatology was recognized as a Regional Collaborative Center for facility based newborn care and neurology excelled with epilepsy surgeries. Innovative surgeries were devised by Neurosurgery who also procured an intra -operative CT scan with biplanar digital angiography suite. Nuclear medicine started PSMA PET CT for the diagnosis of carcinoma prostate. Orthopaedics pioneered the “In search of excellence” patient management in multiple sub specialities while Paediatric Surgery performed complex 2D and #D laproscopic surgeries. Paediatrics completed 25 years of treatment of rare genetic diseases while Paediatric Anaesthesia worked with them in the use of Spinraza for children with spinal muscular atrophy. Several workshops were organized by Pharmacology and Therapeutics and Physiotherapy provided excellent support through the year for COVID-19 patients. Plastic Surgery partnered with ReSurge International for post burn contracture while Psychiatry manned a helpline for the mental health of patients afflicted with COVID-19. The department of Transfusion Medicine renewed their NABH accreditation.

A glorious paradox of an educational institute is that while the alumni grow old, the Alma Mater grows, forever young. As the institute inches slowly towards its centenary , it is hoped that these developments will constructively change the institutes for betterment of patients, greater efficiency of its enormous staff and help sounder training of its students and resident medical doctors, not to forget the support staff, nursing school and her alumni.

At the end of the day, as several thousand patients walk through these hallowed portals each year with hope in their hearts, it will remain our primary responsibility to ensure that they get the best medical care from kind, caring and compassionate physicians; hands that comfort, soothe and heal. As the pandemic continues unabated, the words of Bob Dole were never more relevant - “When it’s all over, it’s not who you were. It’s whether you made a difference”.

Hemant Deshmukh

Dean - Seth GS Medical College and KEM Hospital

January 2021

Editor's Note...



In the first month of 2021, we are ready to embark upon yet another 12-month journey and look forward to foundation day of the institute. It is now time to take stock and look at the year that was- what was achieved, what went wrong, where could we improve and how we can move forward. This annual report in its individual chapters looks at the work, the teaching, the research, publications, awards, achievements and much more. While the general format of the report has remained the same, it has nonetheless chronicled the numerous achievements and changes, both minor and major that have taken place in the last year-2020.

The year 2020 will be remembered for being world changing and paradigm shifting and drafting a whole new chapter in the history of mankind. Efforts of individual departments of our institute have been chronicled in a new chapter that has been introduced for the first time. When we look back a few years hence, this chapter will tell the story of a difficult time as also the tenacity and resilience of the human spirit.

The experience of putting this document together has been both humbling and enlightening. A huge thank you is due to Dr Hemant Deshmukh, Dean for his faith in me, his patience, vision and tenacity of purpose. This has helped shape the document. Gratitude is also due to heads of department and staff members for sending information. The editorial team [Shruti Bhide, Raakhi Tripathi, Gita Nataraj] that helped me put the report together deserves sincere thanks. I owe a debt of gratitude to the students of my department- Vijaya, Palvi, Sukant and Dhruve for their untiring efforts at follow up and help with editing and formatting. Lastly, thanks are also due to Kalpesh, Lakshmesh and Trivedi Sir at Urvi Compugraphics for layout, formatting, and inputs in the cover design and working long hours to ensure that the report is ready on time.

While the compilation has been done over two weeks with utmost care; the sheer magnitude and diversity of the report may have led to omissions and inadvertent errors. I request the staff members to bear with me. Efforts have gone into making the document comprehensive, yet discerning. It is hoped that as one sifts through the pages, the quality and quantum of patient care, education and research and the trials and tribulations of the nameless, faceless health care worker who gave it his all during the pandemic come through and we look ahead to 2021 with new hope and zest.

Nithya Gogtay

Editor – Annual Report 2020

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Seth G.S. Medical College & K.E.M. Hospital

Glimpses of History

Glimpses of History

Parel: From History to Hospitals

Raja Bhimdev of the 13th century would have been more than a little surprised to see the evolution of a part of his kingdom. His Royal Highness could scarcely have imagined that one of his islands would go on to develop into one of the largest centers of healthcare in India, offering hope to millions of patients, human or otherwise.

Parel was one of the original seven islands, which later combined to form the metropolis of Mumbai. Colaba, Old Woman's Island, Bombay, Mazagon, Worli and Mahim were the other islands. There are many theories offered to explain the name "Parel". Some believe that the name may have originated from the Paral trees that grew in the village. There also existed here the Parali Vajjanath Mahadev temple dedicated to Lord Shiva. On the other hand, the word "Paral" is also thought to mean "Flat lands". On the eastern shore of this island was a small hamlet called Shivdi, named after another temple in honor of Shiva. Centuries later the seven islands were joined together by a process of reclamation and railway tracks were laid down along the border of the erstwhile western shore of Parel.

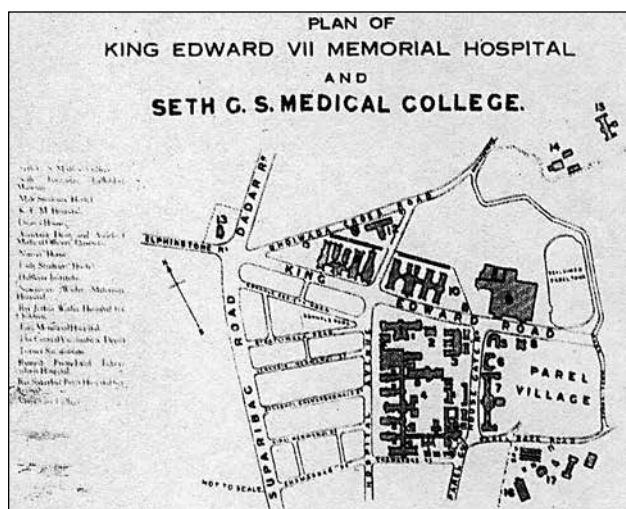
In 1534, the Sultan of Gujarat ceded the seven islands to Portugal, by the Treaty of Bassein. The Portuguese built a Jesuit church and convent when they occupied the island of Parel. The Portuguese did little else with what were then just marshy mud flats and in fact, the major island, Mumbadevi, was part of the wedding dowry when Catherine of Braganza married Charles II in 1661.

The British government took possession of all seven islands in 1665 and in 1668 leased them to the East India Company for the princely sum of 10 pounds per year. The church and the convent, which the Jesuits had built, continued to remain with them, till the British confiscated the property after the priests took the side of the Sidis during their battle with the British in 1689. These buildings became the official summer residence of the Governor of Bombay in 1719. In the 1770s, when William Hornby was in office, the official residence of the Governor was shifted here. Indeed, Parel was then one of the premier residential localities of the city.

Parel and Shivdi continued to flourish till well into the nineteenth century. However, later on a number of tanneries and dealers in dry fish were located here. Moreover, many textile mills came up on the reclaimed land in West Parel in the 1870s. All these industries led to considerable pollution. In 1883, the Governor's wife died of cholera while residing in Government House. Two years later, the Governor's residence shifted to Malabar Point. Subsequently, the old Government House was leased to the newly founded Plague Research Institute (Haffkine Institute), which was established as a direct consequence of the plague epidemic in the 1890s.

Hospitals & Medical Colleges

It may be a quirk of fate but the first hospital to be located in Parel was one that was exclusively for animals. The Bai Sakarbai Dinshaw Petit Hospital For Animals was founded with the aid of a munificent donation from Dinshaw Petit in 1883 and formally inaugurated in 1884. Monetary help from "native merchants" also aided the construction of this hospital, it is run by the Bombay Society for the Prevention of Cruelty to Animals and offers help to creatures ranging from the tiniest mouse to the giant elephant. 350 animals including 250 in-patients are daily attended to and the hospital is equipped with a Transfusion Medicine just for animals. The spacious grounds have a number of gracious heritage buildings including a beautifully constructed water fountain with a canopy. The Bombay Veterinary College located in the same leafy environs was established as a direct result of the exasperation felt by the British with the rampant prevalence of equine diseases within the breeding camps of their army. They enlisted the help of William Moorcroft from England. This gentleman contributed significantly to the reduction in equine morbidity. Thereafter, Col JHB Hellen was appointed President of the Indian Cattle Plague Commission. He recommended the setting up of a veterinary college at Bombay. The college was inaugurated in 1886. Today it is affiliated to the Konkan Krishi Vidhyapith and is one of the premier veterinary colleges in South - East Asia. Hospitals for mere mortals did not come up in Parel till a good 40 years later. The Europeans had introduced allopathy to India and "native citizens" got an opportunity to study western medicine with the creation of the Grant Medical College in Bombay in 1845. However, Indians were not given suitable appointments by the authorities. Dr KN Bahadurji was the first Indian to obtain the coveted MD degree of the University of London. He was denied the post of Professor of Medicine at the Grant Medical College and an IMS officer holding only the Licentiate of the Royal College of Physicians diploma (LRCP) was appointed instead. Dr Bahadurji then advocated the establishment of a new medical college, staffed by Indians. The monopoly of the IMS would then be broken. He placed the idea before Sir Pherozshah Mehta — the lion of Bombay — and other members of the Bombay Municipal Corporation. However, Dr Bahadurji died on 15 August 1898 before his



plans could materialize.

The Municipal Corporation was entrusted with the task of providing medical relief in Bombay under the Police Charges Act in 1907. In 1909, an ad hoc committee of the corporation decided that “the time had come for the provision of a fully equipped hospital to meet the growing needs of the North of the Island”. It was thought that this hospital would be a fitting tribute to the memory of the recently deceased King Edward VII and an initial sum of Rs 5,52,878 was raised from the people of Mumbai. Subsequently, the trustees of the estate of Seth Gordhandas Sunderdas offered Rs 12,00,000 (which was later increased to Rs 14,50,000) for endowing a medical college named Seth Gordhandas Sunderdas Medical College which was to be associated with the proposed hospital. At the instance of Sir Pherozshah Mehta, the donors also

insisted that the professors and teachers to be employed should all

be properly qualified independent Indian gentlemen not in government service.

The Seth G.S. Medical College started on first June 1925 with 46 students of whom six were women. It was the twelfth medical college in the country. The formal opening followed the next year and the college was affiliated to the University of Bombay. The hospital, with 125 beds, started admitting patients on 15 January 1926. Both the medical college and the hospital quickly gained a good reputation and patients were attracted in large numbers. A school of nursing, the first school of occupational therapy in India, a school of physiotherapy and an institute of electro-physiology were established subsequently. Today, the hospital has 1800 beds and treats 2 million patients every year.

Parel was at this time largely a mill area and the days would be punctuated by the call of the mill sirens, beckoning their workers from the many cramped “chawls” in which they resided. The conditions in industrial North Bombay prompted Sir Ness Wadia, the mill magnate to open a small hospital of 7 beds in a rented building in Parel, now called Calcuttawala building. Within months however, the demand for hospital delivery was so great that Sir Ness Wadia decided to build the present Nowrosjee Wadia Maternity Hospital to perpetuate the memory of his father. The hospital was inaugurated in 1926. The Baijerbai Wadia Hospital For Children, named after his mother, was built thereafter in an adjacent location where previously existed a lake. Together, these two hospitals look after the health needs of over 18,000 women and 32,000 children a year.

In 1931, it was Mahatma Gandhi who personally laid the foundation stone of the Khan Bahadur Haji Bachooali Charitable Ophthalmic and Ear, Nose and Throat Hospital in one of the lanes opposite KEM Hospital. These lanes have quaint names like Aimai Merwanji Street and Jehangir Merwanji Street in memory of various members of the Merwanji family whose descendants continue to live in Parel. This hospital too had humble beginnings. In 1914, it was started as a 6 bedded hospital which was popularly known as the Aimai Hospital and then shifted to its current building with a capacity of over 100 beds. In 1932 when Lady Meherbai Tata died of leukemia, after treatment abroad, Sir Dorab Tata was determined to establish similar facilities for the treatment of cancer in India. Initially it was planned to have a Radium Institute in Bombay. Sir Dorab unfortunately died in 1932. However, the trustees of the Sir Dorab Tata Trust, along with various outstanding cancer specialists committed themselves in 1935 to the establishment of this centre. In 1941, the Tata Memorial Hospital was born. In 1962, the Tata Memorial Hospital and Cancer Research Institute were transferred to the administrative control of the Department of Atomic Energy. This was due to the foresight and vision of Dr. Homi Bhabha, who envisaged the major role that radiation would play in cancer treatment - from imaging to staging and actual therapy. The Tata Memorial Hospital and Cancer Research Institute merged as the two arms of the Tata Memorial Center in 1966. The hospital has expanded today from 80 beds to 441 beds. Nearly 25,000 patients visit the clinics annually not only from all over India but also from neighboring countries.

The first hospital to be set up by the Employees State Insurance Corporation (ESIC) in India is also located in Parel. The ESIC, Government of Maharashtra and Millowners’ Association jointly run the trust. The Mahatma Gandhi Memorial Hospital was indentured in 1957 and inaugurated in 1962 to attend to the medical problems of workers. Today, it is identified as a reference center for occupationally acquired diseases for Western India.

Medical Research

Medical research too has its own home in Parel. The Plague Research Institute was opened on August 10, 1899 by the then Governor of Bombay, Lord Sandhurst. Dr. WM Haffkine was its first Director in Chief. This institute produced the plague

vaccine for use all over India. It was located in the old gubernatorial mansion in Parel (left vacant by the Governor's move to Malabar Point). The institute was renamed "The Haffkine Institute" after 1930. Today, the institute produces rabies vaccine and snake anti-venom besides conducting many other research activities.

In 1952 the Indian Cancer Research Center was established as a research institute for basic research in cancer. It was later called the Cancer Research Institute (CRI). The institute was a result of the pioneering work of Prof. VR Khanolkar who had initiated studies in the Tata Memorial Hospital on cancer patterns in the country and their relationship to life styles. The institute was born out of the conviction that to understand and solve the problems of cancer, research work had to be done in this country by Indian scientists and doctors. Since its inception, the CRI, has been working on all facets of cancer with equal stress on fundamental and clinically oriented research.

The Institute for Research in Reproduction is also located in Parel. Before shifting to its current spacious quarters in a vine-clad building in 1970, this organization was housed in the KEM Hospital. Besides research activities related to fertility and its control, the institute also runs 3 clinics.

Within the narrow confines of 2 square kilometers, these institutions offer excellent medical care to a staggering 3 million Indians every year. Together, they have more than 3000 beds, which admit over a million patients annually. Medical research too has carved a niche for itself in these environs and many an innovation in health care has been born in Parel. Truly, Parel must be one of the largest centers for health care in the world.

Vinita Salvi

First published in, 'On the wings of time: A saga of Seth G.S. Medical College and KEM Hospital, Platinum Jubilee, 1926-2001'

Seth GS Medical College and KEM Hospital in 2001: The Living Giant

Running KEM hospital is no easy task. The medical care given to patients forms only the proverbial tip of the iceberg. The housekeeping that is required to keep the hospital shipshape is of titanic proportions that have the potential to sink the whole show. Food, linen, laundry and the supply of medicines and consumables are the major needs that have to be daily attended to.

Food for Thought

The trolleys rumble along the corridors groaning under the weight of the lunch boxes they carry. Today, being Monday, there is "dahi kadi" for the patients. The diet department had to place an extra order for milk on the previous Saturday, to make the "kadi". On a normal day, as many as 700 litres of milk are required to fulfill the needs of over 1500 inpatients. For Mr. Temkar in the Diet Department, it is a ritual chore, which has to be unfailingly attended to. Each ward sends in its daily requirements. The total number of patients and their dietary requirements are all listed: most will be on a full diet while others will have special needs. The patients with diabetes and heart disorders are some of those who will require a specifically tailored diet. All the ward requirements are painstakingly added up to reach the grand total and the food prepared accordingly. The meals may be simple but the quantities are mind-boggling. Every day about 120 kilos of rice and 90 kilos of "atta" are consumed. The kitchens roll out as many as 1700 "chappatis" a day. And that is the number of "chappatis" required for a single meal. At night the patients are given bread, instead - a staggering 130 kilos being the daily requirement. The daily supply of 300 to 350 kilos of different vegetables and pulses too has to be ensured. And, of course, the children have their own special needs. All the tiny tots have to receive a banana, each day. It's like organizing a wedding, twice a day, everyday.

Washing Dirty Linen

The phone rings and senior administrators Dr Bhamare and Dr Salve sigh as they realize the source. It is Obstetric Operation Theatre once again reporting an acute shortage of theatre linen. Not surprising at all, since the two operation tables in this theatre see over 4000 operations each year. A small army of gynecologists, neonatologists, anesthetists, nurses and theatre attendants is needed to keep the theatre functioning each day. The magnitude of -the linen required by the hospital can be gauged by the fact that 5000 items of clothing (equivalent of a loaded truck) are sent daily to the central Municipal Power Laundry and an equal quantity of clean linen returned. But, it is a perpetual juggling act to ensure that sufficient linen reaches each ward and theatre. The monsoon's too don't help and there is a perennial cry for clean dry linen. Yesterday's heavy rains have ensured that the van has played truant and it requires a lot of verbal diplomacy and cajoling on the part of the administrators, to convince the central laundry to release a truck-load of linen later in the day. Everyone heaves a momentary sigh of relief. Tomorrow will be another day for the theatre staff. The administrators, however, are deep in thought as they think of ways to reach a solution. The only scheme they feel will work is to have a separate laundry facility just for theatre linen and they get down to the paperwork that will be needed to implement this plan.

Sweeping Times

Keeping the place clean sends a shiver down the spine of even the most efficient administrator. KEM hospital generates 1300 kilos of garbage everyday. Moreover, every month 2100 kilos of potentially dangerous biomedical waste have to be safely disposed off. This means that besides the usual cleaning up process, the garbage has to be sorted out at source. The general garbage is collected in black bags, which are to be disposed off at the dumping grounds at Deonar. On the other hand, the dangerous waste matter, which may be potentially infected is packed in colorful yellow plastic bags and sent off to the incinerator at the Sewri TB Hospital. Moreover, needles and other sharp instruments have to be collected in thick plastic jars and disinfected before they are sent for incineration. To ensure that the hospital is clean requires an army of helpers and as many as 400 sweepers man the campus each day in an effort to ensure cleanliness.

There are 26 elevators all over the hospital. The enormity of maintaining their function can be gauged by the fact that each elevator has 6 limit switches at each floor level, to ensure the safety of the lift. Thus in the multi-storeyed building on the campus (with 14 storeys), each lift has 84 limit switches: which means there are 84 sites, which have the potential for getting jammed, triggering off the lift alarm.

The Water of Life

A hospital, which was originally started with only 125 beds, has now expanded to a mammoth 1800 bed leviathan. The water requirement of the hospital has taken a quantum leap over the years. Each expansion of the hospital saw an addition in the number of pump installations. Till a few years ago, there were 17 pump installations with 2 pumps per installation. Today the water supply system has been largely centralized and an eight-inch diameter water pipeline encircles the entire campus with branches snaking off to various buildings and supplying 140 overhead tanks.

Ensuring that the hospital functions smoothly is indeed a gigantic task. It is only with the combined help of many hands that everything runs smoothly: well almost. It is a little remembered fact that nearly 2 million patients come to these portals each year, in search of health and hope. These are people who are being treated almost free of cost and many of them have come because the treatment facility they seek is not available elsewhere. The medical care given is just; small fraction of the total work involved. It is indeed a living giant who tends to their needs.

Vinita Salvi

*Former Professor of Obstetrics & Gynaecology
Reproduced from Annual Report 2010*



George Wittet died of Cholera soon after the Institutions were inaugurated. He is buried in Sewri Christian Cemetery. He was also the architect of Gateway of India, the GPO and the Prince of Wales Museum

Seth G.S. Medical College & K.E.M. Hospital

Vital Statistics

Sr. No.	Description	2020
1	Scheduled Beds	2,250
2	Total No. of Admissions	50,854
3	Average Daily Admission	139
4	Total O.P.D. attendance [new]	3,45,060
5	Total OPD attendance [average of new patients]	1,146
6	Total OPD attendance [old]	6,35,902
7	Total OPD attendance [average of old patients]	2,113
8	Total OPD attendance (New & Old)	9,80,962
9	Average Daily OPD attendance (New & Old)	3,259
10	Total Surgeries	35,565
	Major	17,502
	Minor	18,063
	Scopies	4790
11	Total Deaths	6,452
12	Death Rate	12.7%
13	Total attendance in Casualty	1,00,981
14	Total No. of Medico-Legal cases	23,423
15	Total No. of In-patients days	3,88,365
16	Bed Occupancy [average daily occupancy]	1,064 (47%)
17	Average in-patients stay [days]	7.64
18	Total No. of Deliveries	5,307

Human Resources - Outline

Nursing staff

• Matron	001
• Sr. Assistant Professor	000
• Jr Assistant Matron	004
• Principal	000
• Sister	112
• Sister Tutor	021
• Ward assistant	011
• Theater Assistant	000
• Theater Superintendent	000
• House keeper	000
• Staff Nurses	934
• Student nurses	200 each in 1 st , 2 nd , 3 rd and 4 th year

Undergraduate Medical Students

• Ist MBBS	250
• IInd MBBS	188
• III year- first part	181
• Final year MBBS	187

Admissions

• MD/MS	254
• Diploma	001
• DM	030
• Mch	022
• M O Th	010
• M P Th	020
• MSc	012
• MSc – by research	000
• PhD	000
• PG DMLT	010
• B O Th	040
• B PTh	040

Filled posts - Clinical Departments

• Professor	053
• Associate Professor	067
• Assistant Professor	80

Filled posts – pre and para clinical departments

• Professor	015
• Associate Professor	049
• Assistant Professor	064

Junior residents

• 1 st year	255
• 2 nd year	253
• 3 rd year	240

Senior residents

• 1 st year	052
• 2 nd year	044
• 3 rd year	046

Other residents

• House officers	022
• Registrars	061
• Fellows	025

Achievements and Highlights

Achievements and Highlights

Anatomy

- Department of Anatomy has evolved and successfully implemented online teaching and assessment for First MBBS, FYBPTH, FYBOTH, BPMT & MD Anatomy students. Have conducted live Webinars with students on google hangouts meets, created google classroom for students teaching learning and assessment. Conducted online teaching and feedback on large and small group Whatsapp discussions.
- The staff members of the department are involved in various research activities both in Anatomy and in Medical Education. The department facilitates conducting workshops by various clinical specialties where clinicians hone their skills. This kind of high quality education and training results in better patient care.

Anaesthesia

- The Department has been frontline workers in ICU's of KEM Hospital, Seven Hills, NESCO, Richardson & Cruddas (April-May) etc. & are still working tirelessly in above areas.
- The Department has trained 263 Medical Officers of F-South Ward in CPR. The Department has also trained doctors from DHS for CPR.
- Our Department was part of the team of World's First Paediatric Swap Transplant.

Biochemistry and Clinical Nutrition

- Copy right of OSPE stations for undergraduate medical students

Cardiac Anaesthesia

- ORGANISING COMMITTEE FOR NATIONAL CONFERENCE IACTACON 2020 (GOA)
- TAVI- Transcatheter Aortic Valve Implantation – 1 st case of this novel procedure in KEMH was performed in cardiology department undertaken by department of cardiac anaesthesia.
 - o NIRS, Videolaryngoscopes, Video DLTs
 - o Multiple CMEs, Guest Lectures in National conferences, Workshops
 - o New high end workstation with electronic gas monitoring and integrated multipara monitor including entropy and neuromuscular monitoring.

Cardiology

- The department of cardiology has continued to pursue its goal of quality cardiac care, including our OPD and IPD ICCU services. Various diagnostic (non invasive and invasive) and therapeutic procedures were available for cardiac patients.
- 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, Transcatheter Valve in Valve replacement, RSOVs, neonatal BAV, BPV and coarctoplasty and coarctation stenting and PCI of chronic total occlusions, left main coronary lesions and complex bifurcations, 3D electroanatomic mapping of arrhythmias and their ablation, physiologic (His bundle and Left bundle) pacing.
- The department has received a grant of a state-of-the-art video conferencing system through the Ratanchand Hirachand Foundation for uninterrupted academics. Another grant received from the Smt. Pramila Shantilal Shah Charitable Foundation for central monitoring system in the ICCU has improved patient care and safety.

Chest Medicine and Environmental Pollution Research Center

- The Department of Pulmonary Medicine and EPRC has started DM Pulmonary Medicine course from the academic year 2020-2021 which is affiliated to Maharashtra University of Health Sciences. This is the first such course in the state of Maharashtra.
- We identified the presence of platypnea- orthodeoxia in patients of COVID-19 who had hypoxia and this simple- to- use clinical sign helped us tremendously in triaging hypoxic patients. We further conducted a retrospective study after obtaining

permission from the Institutional Ethics Committee (clinical trial registry, no. CTRI/2020/08/027104, completed) and the results are currently under publication.

CVTS

- Did collaboration with the interventional radiology dept for TEVAR

Clinical Pharmacology

- Canvas of Clinical Pharmacology Workshop was held in January 2020
- Standardized and validated method for determination of vancomycin in human serum samples (to be translated into patient care)

Community Medicine

• Epidemiology Resource Centre

Department of Community Medicine, Seth G S Medical College and KEM Hospital has started UNICEF supported “Epidemiology Resource Centre (ERC)” since 9th March 2020. This Research Protocol and Statistics Support Unit is a separate unit within our department, which would take up the responsibility of provision of scientific technical support in development of research studies, data management and development of intelligence out of data.

Dentistry

- Dr. Prasad Bhangre, Assistant Professor, has served as the PRESIDENT of IDA Thane branch in 2020.

Dermatology, Venerology and Leprosy

- Newly installed combined PUVA and narrow band UVB chamber in the department benefitting patients with various dermatological disorders.
- Initiated research projects in collaboration with immunohematology under ICMR, biochemistry and clinical pharmacology departments.

ENT

- Fellowship programme in Otolaryngology and FESS
- Conducted Phonocon online workshop in May 2020 jointly with Bombay hospital

Forensic Medicine

- 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 forensic facial reconstruction.
- One stop centre of excellence started at KEMH on 4th sep 2019 with chairperson Mrs Smriti Irani. This centre supports a survivor centred approach and focuses on the needs and concerns of the survivor to ensure compassionate and sensitive delivery of medical as well forensic services.
- Department has been centre of reference for sensitive, complicated, medicolegal & sexual assault cases.

Gastroenterology

- Nominated as model treatment centre for National Viral Hepatitis Control Programme.
- Invited to formulate guidelines for Budd-Chiari syndrome for Asia Pacific Association for study of liver
- Invited to participate in formulation of guideline for coagulation by European Association for study of liver.
- Started third space endoscopy services, six bedded liver ICU and
- Capsule endoscopy services

General Surgery

- Dr. Dalvi, Dr. Deshpande, Dr. Rege, Dr. S. Rao, Dr. Gandhi and various other faculty members were invited faculty and delivered lectures at MASICON 2020, INDO-UK SURGICON 2020 (collaboration of IAGES and RCS Ed), SELSICON West Zone, Training courses of IAGES (FIAGES and FALS), ASICON 2020, International meeting on AWR Surgeons forum in coordination with Russian Surgical Society 9Dr Gandhi, Dr. Rege, Dr. Shinde, Dr. Chaudhary)

- Dr. Rege was faculty at 15th annual international conference of the association of minimal access surgeon of India (AMASICON)
- MASHAAL Leadership Programme for the Health System Strengthening at Anandwan

Hematology

- Number of registered hemophilia patients are increased to 1211
- In day care more than 12468 patients are treated in the last 1 year.

Medicine

- Under leadership of Dr. Milind Nadkar, entire staff of Medicine department was involved in the management of COVID pandemic. It included patient management, human resource management, training activities. In addition seminars and meetings were held.
- In view of this contribution, we have included a chapter dedicated to Institutional contribution for management of COVID pandemic.

Microbiology

- Under guidance of Dr. Gita Natraj the diagnostics in COVID pandemic were set up.
 - o Faculty has participated as speakers in various CME programs related to COVID-19.
- The department successfully renewed NABL accreditation for its test services which is valid till April 2022. New tests have been added to the scope.
- Department is recommended for certification of liquid culture and DST for first and second line anti-TB drugs by National Tuberculosis Institute to Central TB Division.
- The multicentric, multi-national NeoOBS project on neonatal sepsis involving the departments of microbiology and neonatology, has been successfully completed .

Neonatology

- **Department of Neonatology** is recognized as the “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 has been appointed as:**
 - a. 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.
 - b. Member of expert committee appointed by the Government of Maharashtra. for formulating guidelines on the management of Neonatal COVID 19
 - c. National EC member for initiation of Neonatal palliative Care
 - d. Board member for the initiation of the certificate course in Pediatric Palliative Care under the aegis of Pain and Palliative Care chapter of IAP.
- Organization of 8 SNCU Observership training programs (14 days each) for pediatricians & nurses from Maharashtra, Gujrat, Odisha, and Chhattisgarh under National Reproductive and Child Health Program of Ministry of Health & Family Welfare, Government of India

Neurology

- Comprehensive Epilepsy Care center in Collaboration with Neurosurgery since 2001, and have completed 612 surgeries till date.

Neurosurgery

- Innovative techniques developed for treatment of complex craniovertebral anomalies including basilar invagination, Chiari malformations and atlantoaxial dislocations.
- Extensive experience in the treatment of complex brain tumors that include trigeminal neurinomas, foramen magnum meningiomas, sphenoid wing meningiomas and cerebellopontine angle tumors.
- Cerebrovascular surgeries, epilepsy surgery, stereotactic surgeries, image guided neuronavigation, pediatric neurosurgery and skull base surgeries are specialized expertise offered by the Department.
- Procured two Leica 3D state of art microscopes with high definition camera for neurosurgery operation theatre. The

department has recently procured an intra-operative CT scan and a biplanar digital angiography suite.

- Developed a State of Art Neurosurgical recovery room with all modern amenities including high-end ventilators and monitors.

Nuclear Medicine

- Started PSMA PET CT (for diagnosis of cancer prostate).
 - o Introduction of many PET/CT related investigations such as Whole body, Limited body, cardiac and brain PET/CT

Orthopedics

- 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 2020 such as:
 - o KEM Arthroplasty Course (3rd to 5th Jan 2020)
 - o BOS master cares and master shares on arthroplasty (05.01.2020).
 - o KEM Shoulder course (28/02/2020 to 01/03/2020)
 - o KEM PG training course (06/03/2020 to 08/03/2020)
 - o BOS Pelvi-acetabular course (15/03/2020)

Pediatric Surgery

- 2D/3D laparoscopic repair of Morgagni hernia.
- Anal agenesis with rectovestibular with low recto vaginal fistula, new variant of H type fistula.
- Use of Holmium Yag Laser for management of posterior urethral valves
- Laparoscopic extra vesical ureteric reimplantation of right upper moiety ectopic ureter
- Laparoscopic pyelolithotomy in a child with horse shoe kidney Video presentation of
- 3D laparoscopic excision of residual choledochal cyst with bilio-enteric reconstruction
- Thoracoscopic lobectomy in CPAM
- 3D laparoscopic ureterocalicostomy-A salvage procedure for ureteropelvic disruption

Pediatrics

- **Patient Care & Administrative:**
 - o Dr. Mukesh Agrawal, Dr. R.K. Vaswani, Dr. Yogesh Mokase participated in SIPHAP(Spinraza Individual patient humanitarian access program) for SMA patients, 1st program of this type in India.
 - o Dr. MamtaMuranjan: In recognition of more than 25 years experience of the Genetic Clinic in diagnosis and treatment of rare diseases, KEM Hospital, Mumbai has been notified as one of the Centres of Excellence for treatment of rare diseases under the Ministry of Health & Family Welfare, Government of India’s draft of National Policy for Rare Diseases 2020.
 - o Dr. Sunil KarandeDr. MamtaMuranjan and Dr. Milind S. Tulluhad editorial responsibilities in various national and international journals.
 - o Dr. Milind S. Tullu: Guide & Mentor for ASPIRE (Association for Support and Propagation of Innovation, Research & Education) PROJECT

Pediatric Anesthesia

- Continued involvement in intrathecal injection of the drug Spinraza in children with Spinal muscular atrophy as part of National project in conjunction with the Department of Paediatrics, KEM Mumbai.
- Started erector spinae block and catheters for pain relief during major thoracic surgeries.
- Use of ultrasound incorporated for accurate placement of epidural and caudal catheters during regional blocks in neonates and infants.
- Increased use of microcuff endotracheal tubes in neonates weighing more than 3 Kg.
- Central Line care bundle introduced to prevent catheter related bloodstream infection.

Pharmacology and Therapeutics

- Faculty members and postgraduate students bagged 4 awards for paper presentations at different national/regional conferences held this year.
- The department conducted an online national workshop on 'Clinical pharmacology research in traditional medicine' under the auspices of ICMR Advanced Centre for Capacity Building in Clinical Pharmacology Research.
- Various workshops on GCP, research methodology, ethics and adverse drug reporting were also conducted by the department.

Physiotherapy

- The physiotherapy OPD was functioning throughout the lockdown period providing physiotherapy management for non- covid patients in ICU, indoor patients and OPD.

Plastic Surgery

- Partnership with 'ReSurge International', to benefit post burn contracture patients – all treatment provided free – including surgery, consumables, pressure garments and splints.
- Continuing Special Clinics (Maxillofacial clinic and Hand clinic)for Patient care.

Psychiatry

- Department of Psychiatry is a Regional Resource and Coordination Centre (RRCC) under DTC scheme. Started in November 2014 under the aegis of Ministry of Health and Family Welfare, GOI.
- HITGUJ Mental Health helpline is set up by MCGM in response to growing acute stress level in people of Mumbai city. which is accessed not only in Mumbai but also by Maharashtra and all over India.
- Department of Psychiatry ran the helpline for caregivers of COVID-19 positive patients admitted in the COVID-19 wards of KEM Hospital. The helpline helped in communicating about the patient to the family members of the patients on a daily basis
- Psychosocial Support Cell helpline for COVID-19 patients was started

Department of Transfusion Medicine

- The Department has taken a lead in starting a postgraduates course in Transfusion Medicine leading to the award of M.D. in Immunohaematology and Blood Transfusion for the first time in Mumbai with annual intake of 2 students since July 2010 and 11 batches of M.D. students have joined till date.
- 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 centres against NABH Accreditation standards in Blood Banks.
- The Department has been awarded NABH Accreditation by NABH-National Accreditation Board for Hospitals and Health Care providers, Quality council of India, New Delhi from 22.08.12 to 21.08.2015, and then renewed from 22/08/15 to 21/08/18, and from 18/01/2019 to 17/01/2022 being the first Public Hospital in Maharashtra to get NABH Accreditation.

Urology

- Performed first pediatric swap transplant in Public hospital in India in March 2020.
(News published in The Times of India (date: 17.10.2020))

Awards and Honors

Awards and Honors

Anesthesia

- Dr. Sanjeevani Zadkar won 1st Prize for poster presentation entitled 'Jaw Dislocation In A Pregnant Female Post Lower Segment Caesarean Section' presented at National Airway Conference.
- Dr. Anil Kumar L. N. won quiz competition "Kaun Banega Airways Champ" in the XI National Airway Conference of the All India Difficult Airway Association (AIDAA) held on 10th – 11th October 2020 on a virtual platform (NAC-2020).
- Dr. Anjali Wilson Secured 2nd Place in "KISA VIRTUCON Quiz" during ISA Karnataka Virtucon 2020 held on 12th & 13th December 2020.

Biochemistry

Certificate of Appreciation from BD company for working as COVID WARRIOR during covid-19 pandemic.

- Dr. Anita S. Chalak
- Dr. Uma Shinde
- Dr. Rekha Dhamnaskar
- Dr. Satyaprakash Rane
- Dr. Yogesh R. Pawade
- Dr. Trupti D. Ramteke
- Dr. Kranti S Gawali

Cardiac Anesthesia

- Dr. Surendhar S. -DM Cardiac anaesthesia third year residents passed FIACTA (Fellowship in Indian association of cardiothoracic anaesthesia) in first attempt.
- Dr. Sanjeeta Umbarkar- successfully completed 1 year fellowship on perioperative echocardiography.
- Dr. Surendhar S.- Second prize in oral paper presentation in national conference IACTACON GOA 2020.
- Dr. Vishal Prabhu - S S Sarkar gold medal awardee- university exams.

Clinical Pharmacology

- Dr. Jeffrey Pradeep Raj, won the Second prize [oral presentation] at the 13th annual conference of the Indian Society of Clinical Research held in Mumbai from 23-25 Jan 2020 for his work on "An audit of the quality of Institutional Ethics Committee queries after original research submissions – investigators' perspectives"
- Miss Shagun Nasta, undergraduate student won the first prize [oral presentation] at the 13th annual conference of the Indian Society of Clinical Research held in Mumbai from 23-25 Jan 2020 for her work on "An audit of conflict of interest policies among Indian biomedical journals"

Community Medicine

- The best intern award "Nina Dahejia Award" for the year 2019-20 was given to Prashant Giri for his exemplary work in Community Medicine.

CTVS

- Dr. Avinash Prakash (3rd Year) and Dr. Chandana Adhikarla (2nd Yr) have been awarded the TSF Saha Scholarship to attend the 2021 STS Annual Meeting.

Dentistry

- Dr. Prasad Bhanke, Assistant Professor, served as the PRESIDENT of IDA Thane branch in 2020.

Dermatology, Venerology and Leprosy

- Dr. Aditi Shende won E poster Award at Cuticon 2020 – A rare presentation of systemic lupus erythematosus with dramatic response to Dapsone.

- Dr. Shefali Saini won Dr. Arwind Lonkar Award at Cuticon 2020 – A descriptive observational cross sectional study of various deformities seen in a tertiary care centre in the post elimination era
- Dr. Ketki Bhoitewon Dr. S L Wadhwa Award at Cuticon 2020 – Dermoscopic evaluation of Extra-genital Lichen Sclerosus et Atrophicus.
- Dr. Agnikumar Bose won Dr. A C Parikh Award at Cuticon 2020 – Lymphocytes gone bizarre.
- Dr. Tejas Vishwanath Free paper Award at Cuticon 2020 – Innovations in dermatology

Endocrinology

- Dr. Saba Memon was awarded as best resident Dr. Sanjay Oak Award on 21st January 2020
- Dr. Saba Menon received first prize in Endocrine Hawk Eye- Quiz at Endocrine Enrichment Program at Kolkata on 9th February 2020, second prize in Competitive Quiz at ESI TYSA at Delhi on 15th February 2020.
- Dr. Vikrant Gosavi received third Prize- for Oral Paper at Endocrine Enrichment 2020 on 8th February 2020.
- Dr. Chakra Diwakar received first prize in endocrine wise owl competition at Endocrine Enrichment Programme on 12th & 13th February 2020, first prize in poster at T-Endocon 2020 on 23.02.2020 first prize in quiz at Itscon on 8th & 9th Feb 2020.
- Dr. Brijesh K received 2nd Prize in Poster Itscon on 8th & 9th Feb 2020
- Dr. Robin Garg received 3rd prize in Oral Presentation T-Endocon 2020 on 23.02.2020
- Dr. Manjunath HD received First prize in poster presentation (case report) at ISBMR, 2020 on 26th October 2020.
- Dr. Manjeetkaur S received 1st prize in best thesis ESI-AV Gandhi Award on February 2020.

Gastroenterology

- Japanese endoscopy society fellowship
- Best Rotto award (Jt. Director Incharge) WEO fellowship
- Gold Medal (DM Gastroenterology)

General Surgery

- Paper presentation in National conference by VMK Unit registrar in Best Paper category in 2020 Topic “Abdominal compartment syndrome in emergency laparotomy - early management prevents catastrophe” Conference name = Trauma 2020 virtual- 10th annual conference

Neonatology

Dr. Ruchi Nanavati:

- Incharge for National Reproductive and Child Health Program, Ministry of Health & Family Welfare, Government of India
- Neonatal Resuscitation Program Regional Trainer for First Golden Minute project of Indian Academy of Pediatrics & National Neonatology Forum
- Reviewer of Indian Pediatrics, Journal of Neonatology, Journal of Postgraduate Medicine.
- Advisor and faculty at 3rd Neonatology Refresher Course by Neonatology chapter of IAP & Neonatology Forum Mumbai, September 2020.
- Advisor to the Association of Neonatal Therapists.
- Trustee of NGO: SNEHA (Society for Nutrition, Education and Health Action) working for women & children of urban slums

Dr. Anitha Haribalakrishana:

- Faculty at 3rd Neonatology Refresher course by Neonatology Chapter of IAP & Neonatology Forum Mumbai held in Mumbai, September 2020.
- Successfully completed Advanced Course in Medical Education (ACME).
- Reviewer in Advances in Nutrition, Nutrients, Journal of Pediatric Gastroenterology and Nutrition, Journal of Tropical Pediatrics.

Dr. Nitu Mundhra:

- Successfully completed International Board Certified Lactation Consultant Examination

Nephrology

- Dr Satarupa Deb received 2nd prize in Dr Pravena Shah poster competition at ISNWZ 2020 for paper titled “Repeat COVID RT-PCR positivity in dialysis patients”
- Dr. Nikhil Saxena, Dr Abhinav katyal, Dr Ankita Patil bagged the first prize in annual ISNWCN quiz 2020.

Neurology

- Dr Shruti Agrawal received 2nd Prize in Video Challenge at International MDSCON Sep 2020.
- Dr Shruti Agrawal received 3rd Prize in Video Akkhada Conference at MDSICON kochi Jan 2020.

Neurosurgery

- Prof. Atul Goel - Awarded Honorary member of Italian Neurosurgical Society
- Dr. Abhidha Shah – Asian Congress of Neurological Surgeons – Virtual Meet – Best paper.

Medicine

- The Thesis of Dr Nigar Ansari, Postgraduate Student of Dr Santosh Salagre received ‘Nadgauda annual best thesis award in Medicine’ by Association of Physicians of India on 9th January 2020 during APICON 2020 at Agra.
- Dr Santosh Salagre (Principal Investigator) mentored Medical Symposium team (Third MBBS) AmeyKundawar, Akash Mantri, TejasSaha, Prarthna Srivastava, ShubhaangiDhanjita, Shaurya Jain, Ameya Dandekar, Nikita Chandak, AmeyaMachave, Abhishek Ukarde, Shruti Deshpande and Vaibhav Karandekar bagged series of awards for the research projects on Geriatric Healthcare-
 - o First Prize at Swaasthik- Medical Conference at Topiwala National Medical College Mumbai on 15th February 2020.
 - o First Prize at Qriosity- Medical Conference at H.B.T. Medical College and Cooper Hospital Mumbai on 25th February 2020.
 - o Second Prize and Best Audiovisual Presentation at Hridaya- Medical Conference at Terna Medical College Navi Mumbai on 7th March 2020.
 - o Third Prize at Zenith - Medical Conference at Rajiv Gandhi Medical College Thane on 5th March 2020.

Obstetrics and Gynecology

- Dr. Kavita Yadav, Dr. Samant P.Y. received 1st prize for Poster presentation at the Annual Conference of Association of Fellow Gynecologists, Mumbai February 2020. Topic: Secondary Sjogren’s Syndrome in Pregnancy
- Dr. Monica Uppal, Dr. Samant P.Y. received 2nd prize for Paper presentation at the Annual Conference of Association of Fellow Gynecologists, Mumbai. February 2020. Topic: A rare Case of Refractory Thrombocytopenia in Pregnancy
- Dr. Aditi Khare, Dr. Samant P.Y. received 2nd prize for Poster presentation at the Annual Conference of Association of Fellow Gynecologists, Mumbai, February 2020. Topic: Chronic Placental Abruption
- Dr. Maitreyee Parulekar received Best paper award for ‘Vulvar necrosis post orthopaedic surgeries’ at the Annual Conference of Association of Fellow Gynecologists, Mumbai, February 2020.
- Dr. Maitreyee Parulekar received, Late Smt. Durga Ramdas Sadhale award given by DJST trust KEM for standing first in Obstetrics and Gynecology MS examination in the college in January 2020.
- Dr. MaitreyeeParulekar received, Dr Bipin Pandit healing hands caring hearts meritorious award for Gold Medal in M.S Obstetrics and Gynecology at University level. Awarded at MOGS conference 2020.

Occupational Therapy

- Hemant Nandgaonkar:
 - o Awarded with N. Swaroop Trophy for the Best Innovative Technology Display for indigenously designed “INDIA EBUS – Digital Approach to Neurodevelopmental Care in NICU” at the 57th Annual National Conference of AIOTA -OTICON2020 at RavindraNatyMandir, Mumbai on 18th January, 2020. Hemant Nandgaonkar
 - o Appointed as assistant editor of The Indian Journal of Occupational therapy
 - o Awarded fellowship in Occupational therapy by All India Occupational Therapists Association on the occasion of Annual National Conference in January 2020
- Shilpa Prasad Nayak: appointed as Organizing committee member for National Conference OTICON”2020
- Alok Patil: appointed as Scientific Committee member for OTICON 2020 - a 3 day National Conference held on

Jan.16 to Jan.18,2020.

- Saurabh Phadke: Worked as Internal Facilitator in EMS Covid Centre, KEM Hospital and Organizing committee member for OTICON 2020
- Pradnya Bhovad: Worked as Internal Facilitator in EMS Covid Centre, KEM Hospital and as Scientific Committee member for OTICON 2020 - 3 day National Conference held on Jan.16 to Jan.18,2020.
- Somnath Sonwalkar: Worked as Internal Facilitator in EMS Covid Centre, KEM Hospital.
- Saurabh Phadke, Pradnya Bhovad, Alok Patil, Hemant Nandgaonkar – created OTICON 2020 website and managed it.
- Student achievements: Bachelor students bagged
 - o 2nd prize in scientific events of Innovative Technology
 - o 2nd prize - street play and dance
 - o 1st prize in fashion show in OTICON 2020

Ophthalmology

- Dr Samruddhi Dani received Dr V H Majumdar Award for Standing 1st in MS Ophthalmology, Seth GSMC and KEMH
- Dr Nehal Mehta received Gold medalist at the MUHS MS Ophthalmology examination
- Dr Priya Jain received Gold medalist at the MUHS Diploma Ophthalmology examination

Orthopedics

- **Dr. S. K. Srivastava**
 - o He has been elected as the President of Bombay Spine Society.
 - o He has been Nominated and placed in AOSI member group.
 - o He has been positioned as chairman of ASSI for ASSI CONNECT & has taken over position.
- **Dr. S. S. Mohanty**
 - o He has been elected as President of Bombay Orthopaedics Society.
 - o He is the President of Indian Arthroplasty Society.

Pediatric Anesthesia

- Dr Raylene Dias received KPR Young Anaesthesiologist award by ISA Kerala.
- Dr Vishal Saxena (2nd year DM Resident) won 1st prize for poster presentation “Erector Spinae Block in paediatric VATS: A case series” at the IAPA mid-term conference conducted on 5th September 2020.
- Dr Akhil Goel, Dr Priyanka Muneshwar and Dr Amrit Kaur placed 5th, 6th and 10th amongst the top 16 posters selected in IAPA mid-term conference conducted on 5th September 2020.
- Dr Akhil Goel and Dr Amrit Kaur finalists of Airway Quiz of National Airway Conference conducted in October 2020.

Pediatric Surgery

- Dr. Abhijit Kumar received 1st prize in video presentation in IAPS national conference 2020 for his presentation on Thoracoscopic lobectomy in CPAM.
- Dr. Abhijit Kumar won PG quiz in IAPS national conference 2020.

Pediatrics

- Dr. Milind S. Tullu: Citations awarded / nominated (biographical note), “Marquis Who’s who in the world” 2020
- Dr Manavi KM and Dr Praveen Kumar: 2nd Runner up in IAP PG pediatric quiz 2020, regional round
- Dr Nandan KV: University second rank in MUHS Summer 2020 examination in Pediatrics
- Dr. C.T.Deshmukh & Dr. Milind S. Tullu: Awarded the Dr. A.N.Supe Best Published Paper Award 2019 for the paper entitled “The predictors of outcome and progression of pediatric sepsis and septic shock: A prospective observational study from Western India” in Journal of Postgraduate Medicine [Authors: Shagun Shah, C.T.Deshmukh, & Milind S. Tullu (- Corresponding author)]. Certificate and Cash Prize of Rs. 3000/- awarded on Foundation Day Academic Awards Function in January 2020.
- Dr Angela Maria Pallickal : received Dr JR Kamat Award for Best Pediatric Resident.

Pharmacology and Therapeutics

- 1st prize for poster - Karekar S, Shetty Y. 'Assessment of the quality and trend of reporting of health economic evaluation research in India', at the 13th Annual ISCR conference held in Mumbai from 24th-25th January 2020
- 1st prize for poster - Patil P, Shetty Y, Singh V, Manjesh PS. 'Evaluation of the effect of Myostaal Forte Tablets on chondroprotective biomarkers in an experimental model of osteoarthritis in rats' at the international conference on 'Natural Products – Quality, safety and efficacy, organised by SIES of Arts, Science and Commerce (Autonomous), Mumbai from 6th-7th March 2020.
- 2nd prize for poster - Prajapati M, Gajbhiye S, Kamat S." A review of clinical studies in the area of COVID-19 registered in the clinical trial registry of India", at FERCICON organised by FERCI and PGIMER, Chandigarh from 27th - 29th November 2020.
- 2nd prize for poster - Disha SR, Kamat S, Dhavan P. 'Evaluation of the effect of 'Rubia cordifolia on angiogenesis and wound healing' at AAPSCON 2020 organised by Department of Pharmacology, Kurnool Medical College from 4th-5th December 2020.
- Best presenter award to Yashashri Shetty, Medha Rajappa, Sudha Ramalingam, Vinita Agarwal, Gaurav Narula. "Perceptions about Ethics of Public Health Behavioral Interventions during the Covid 19 Outbreak" at" 20th FERCAP Online International Annual Conference December 7-9,2020,organised by National Institutes of Health University of the Philippines Manila.

Physiology

- **The Association of Physiologists and Pharmacologists of India** conducted **First Physiology Leaders' Summit** in February 2020 where **Dr. DhangaouriShenvi** was selected and she contributed by highlighting the importance of Exercise Physiology in UG & PG curriculum.

Physiotherapy

- Mariya Jiandani received best "Academician Award "at MSPHYSIOCON Feb 2020, Miraj and has been featured in Vanguards of Physiotherapy

Psychiatry

Staff Members Appointments:

- **Dr. A. S. Nayak**
 - o Member of Academic Committee of KEM Hospital.
 - o Member of Core Committee of PCOS clinic of NIIRH.
 - o Member of Medical Research Unit (MRU) of KEM Hospital.
 - o Member of Department of Medical Education.
- **Dr. N.S. Sawant**
 - o Hon Editor Annals of Indian Psychiatry of IPS WZB: 2018-2020.
 - o EC member BPS, 2019-2021.
 - o Vice President Research Society, 2019-2024.
 - o Chairperson IEC, MDACS
 - o Chairperson: PG Presentation IPSWZB(2020-21)
 - o Co chairperson, Speciality Section on Sexual disorders of Indian Psychiatric Society 2020
- **Dr. Kranti Kadam**
 - o Nodal officer for PSS helpline.
 - o Appointed as Member of Marathi Vishwakosh Mandal, Government of Maharashtra.
 - o Appointed as member of Marathi Vangmay Mandal, Seth GSMC & KEMH.
- **Dr. Shilpa Adarkar**
 - o Honorary President - Bombay Psychiatric Society for 2019-20.
 - o Nodal Officer, DTC Project under DDAP, MOHFW.

Radiology

- Dr.AbhishekBairy got Dr. Mukund Warawdekar Award for "Best Resident in Department of Radiology"
- Dr. Ayush Jain received 2nd prize in quiz at RRC Sept., 2020

- Dr. Ayush Jain received 2nd prize in quiz, Radaspire CME at BYLCH Nair.
- Dr. Sagar Kumar received 1st Prize in Poster Presentation at 19th MRI Teaching Course, August 2020 at Nanawati Hospital.
- Dr. Sagar Kumar Won Prize at REF – Cafe Roentgen 24th RRC Quizinar, Sept 2020.

Surgical Gastroenterology

- Dr. Chetan Kantharia, Professor and Head Dept of SGE was awarded as Best Docs 2020 by OUTLOOK and same was published in their magazine
- Dr. Chetan Kantharia, Professor and Head Dept of SGE got elected as Honorary Secretary of Indian chapter of IHPBA
- Dr. Vikram Rao and Dr. Rahul R passed out successfully clearing DNB GI Surgery.
- Dr. Parth Manek completed MUHS fellowship in Minimal Invasive surgery
- Dr. Parth Patel and Dr. Sunil completed MUHS fellowship in GI and HPB surgery

Transfusion Medicine

- Dr. Jayashree Sharma & Dr. Swarupa Bhagwat are editors of various journals & are serving on various national & international committees like Indian Society of Blood Transfusion & Immunohematology & American Association of Blood Banks.

Urology

- ROTTO SOTTO Maharashtra, headed by Dr. Sujata Patwardhan awarded best ROTTO and best SOTTO in the nation in November 2020. There was Donor felicitation program organized on 27th November at KEM hospital with Hon'ble Dr. Harshavardhan (MoH) as the Chief Guest .
- Dr. Bhushan Patil won first place in Consultant session for presenting “First Pediatric swap transplant in Public Hospital “in Oct 2020 at Mumbai Urological Society Annual Meet.

Community Care

Community Care

Anesthesia

- Conducted basic life support training course for paramedical personnel to handle emergency scenarios.
- Residents regularly attend blood donation camps.
- Conducted COLS workshop for lay persons

Biochemistry

- Department staff provided their services in the form of logistics services for smooth functioning and management of various COVID wards and to support clinical staff of KEM Hospital to better serve patients during covid-19 pandemic.

Cardiac Anesthesia

- COLS on world anaesthesia day by Dr.Sanjeeta Umbarkar
- TAVI using the indigenous Meril (MYVAL) was performed by cardiology department under the anaesthesia provided by team of department of CVTA.
- Posted for COVID duties in intensive care unit since march 2020 in both KEM and Seven Hills Hospital.

Cardiology

- Faculty participation in seminars, conferences, workshops, CME etc:

Chest Medicine and Environmental Pollution research center

- The Department of Pulmonary Medicine & Environmental Pollution Research Centre at K.E.M. Hospital conducts respiratory morbidity related health surveys to study the effects of air pollution on health.

Sr. no.	Period	Area	Group Surveyed	Total Nos.
1.	2020	N.E.H.P.Saroda Complex, Kandivali East Saismruti Society, Borivali East Green View Complex, Borivali East Sai Ashish Society, Borivali East Mahalaxmi Society, Borivali East	Medical Check up	817
2.	15.01.2020	Traffic Police, Dadar	Medical Check up	30
3.	09.12.19 to 31.12.20	Asthma education	OPD basis	410

Community Medicine

- Community Outreach Health Services
 - o Mumbai ArogyaAbhiyan: Residents & Interns are posted at various camps.
- **Naigaon under five clinic:** Naigaon community is one of field practice areas of the department of Community Medicine. The various activities conducted in the Underfive Clinic, Naigaon community are as follows:
- Under Five Clinic at Naigaon Maternity home on every Tuesday & Friday.
- In view of the Covid-19 Pandemic, there was lockdown from 23rd March till 31st July 2020. Naigaon Maternity home was reserved for Covid-19 patients and the area was sealed by MCGM. Hence Underfive clinic was not conducted in the above period. The Under-five clinic OPD was initiated from 11th August 2020 twice every 15 days.
- No. of New registration: 179 and No. of old beneficiaries 124.

Naigaon Geriatric OPD:

- General OPD (Geriatric Clinic) on every Wednesday & Friday.
- In the year 2020 till date, 1396 patients were examined in the Geriatric OPD at Naigaon.
- Malvani Urban Health Centre, Malad (W)
 - o General OPD: Total-30970, Children 0-5 yrs:3939, 6-12 yrs:3393, Adults-23638
 - o Total OPD collection is Rs. 2,28,842 /- only
 - o Special OPDs:

OPD		No. of patients
Dental		NA
Psychiatry	New	133
	Follow up	1765
	Total	1898
Ophthalmology	Cataract surgery	NA
	Optometry	NA
	Total	NA
Injections given		1374
Skin		6348

- Chronic diseases OPD: Total-2266, Male-742, Female-1514
- Tuberculosis- Total-331 (Pulmonary- 209 and Extra pulmonary- 122)
- No. of children started on INH prophylaxis started in RNTCP OPD – Males (51) & Females (40), Total (91)
- Special Activities/ NGO visits:

Month	Activity	No of Beneficiaries
January	A session on skin diseases conducted by RMOs at SNEHA NGO, Malwani on 21 st January	60
	Packets of Nutritional support distributed to TB Patients on 24 th January	25
	CME on leprosy (for SNTD nursing students) on 30 th Jan 2020	30
February	Pledge taken to END stigma related to TB on 6 th Feb 2020	55
	CME on leprosy for RMOs and Interns	14
	On 14 th Feb Leprosy referral center, S K Patil General hospital – Visit	9
March	On 20 th March Health talk session on health care providers	42
September	On 7 th Sep Orientation to NGO for transgender called SAKHI CHAR CHAUGHAI	15
October	On 19 th October Monthly TB Meeting	20
November	On 6 th November Health Post 1 orientation	7
	On 10 th November SNEHA NGO orientation	20
	On 12 th November Observation of World Diabetes Day	35

CTVS

- Specialised Medical Social Worker (MSW) service attached to the Department of CVTS

Dentistry

- Dental care of municipal school students attending school clinics at KEM in the afternoon.
- Dr. Urvi Gala was part of camp organised in Sakhpada, Palghar where-in she gave a lecture on oral care and tobacco cessation to school children and parents.

Dermatology, Venerology and Leprosy

- Participation in various camps in city and outside city in association with other departments-10-12/year.
- Community awareness regarding fungal infections.
- Social awareness regarding blistering disorders by conducting “PEMPHIGUS MEET” in the month of January every year.
- Vitiligo day was celebrated on 25-6-2020, with spreading awareness regarding the disease to the patients telephonically.

Endocrinology

- Community outreach health services undertaken by our department: Weekly visits to diabetes dispensaries at peripheral health centers attached to KEM hospital.

ENT

- Department has participated actively in Covid duties including Government established Covid centers like Seven Hills Hospital, Kasturba Hospital, NESCO and KEM hospital, while managing outpatient, indoor and emergency services as well.
- Raised Donation for Covid positive patients in the form of bed sheets, diapers and toiletry kits.
- Donations for Health care workers in the form of Vitamins ,high protein snacks, dried fruits, scrubs,PPE, Face shields, steam inhaler, electrical kettle, water dispenser, tea, coffee, spiced tea, horlicks, ORS, butter milk.
- Dr.NilamSathe was invited chief guest for Medical Camp organised by Vikhroli Medical association on 2nd February 2020.
- Dr.Nilam U. Sathe was invited speaker by ParleshwarPratishthan, Mumbai & delivered online informative lecture on covid which was attended by around 1800 viewers on 31st May 2020.

Forensic Medicine

- Project with Maharashtra Police Academy and Mumbai Police for training of Medical Officers and Nursing staff of MCGM for women safety under safe city project, Nirbhaya Fund.
- Project for disaster Victim identification for defense personnel with Indian Dental Association.
 - o Training conducted for API, Senior Inspectors and ACP officers at Maharashtra Police Academy, Nashik and Police Training Centre, Khandala
 - o Project for Disaster Victim Identification for defence personnel with Indian Dental Association
- Resource Faculty at various medicolegal CME, GCP workshop, etc.
- Lectures given to NGOs on promotion of cadaveric organ donations.
- Forensic Medicine lecture on Crime Scene Investigation, evidence collection, examination of victim of sexual assault.
- Expert Opinion given in the case of sensitive issue, complicated medicolegal cases & sexual assault cases.
- Forensic Odontology lectures conducted for UG & PG student at Nair Dental College.

Gastroenterology

- Department of Gastroenterology, KEM Hospital was nominated a model treatment center for National Viral Hepatitis Control Programme.

Hematology

Cancer awareness programme:

- Hemophilia Care patient awareness camps
- Education with fun activity for cancer patients by Alcargo trust.
- Nutritional and Hygiene awareness programme in leukemia and other blood disorder patients
- Awareness on Role of exercise and occupational therapy in leukemia patients
- Education with fun activity, outing, Birthday celebration, Festival celebration, Cancer Awareness, Parents support group meeting for cancer patients by Cankids trust.

Medicine

- Dr Smrati Tiwari
 - o Conducted a webinar on counseling for family caregivers a doctors perspective for NGO caregiver sathi.

Microbiology

- Providing counseling and HIV antibody testing services for direct walk in clients.
- Counselors following up with PLHIV for increased linkage to care and support.

Neonatology

- Community outreach health services undertaken by various departments: Nil
- Social Awareness camps and lectures:
 - o Weekly meetings with parents of babies admitted in NICU to educate them about Preterm and Low Birth Weight care. Approx 1200 parents are educated in 2020.

Nephrology

- Specialised Medical Social Worker (MSW) service attached to the Department of Nephrology
- Weekly education programme for patients with end stage kidney disease and transplant
- Weekly counselling programmed for patients with kidney disease and their care givers
- Dr. Divya Bajpai is associated with Kidney warrior's foundation (dealing with burden of kidney disease in the community). She participated in a programme for patients and caretakers and spoke on the "Challenges in kidney transplant for patients and family" on 13th December 2020.

Neurology

- Epilepsy Awareness Program on World Epilepsy Day on 17 Nov 2020.
- Participated in Epilepsy camp organized by Epilepsy Foundation 2020.

Nuclear Medicine

- Community outreach health services undertaken by various departments
- Social Awareness camps and lectures

Ophthalmology

- National Road Safety Week Eye Check Up Camp on 15/01/2020.
- AarogyaShibir at Sewree, Ward No 206 on 09/02/2020.

Orthopedics

- Our staff members participated in local and regional social services camps.

Services Offered:

- Complex traumatology
- Spine surgery
- Arthroplasty
- Arthroscopy & Sports Medicine
- Ilizarov& limb deformity correction
- PaediatricOrthopaedics
- Orthopaedic Oncology
- Shoulder & Elbow subspecialty services
- Hand surgery

Pediatric Surgery

- Birth Defect Clinic– Counseling and early intervention of congenital anomalies- 392 families counseled since Jan 2020.

Pediatrics

- Blood bank camps attended by Resident Medical Officers--8
- Regular health camps attended by Resident Medical Officers – 4

Physiotherapy

- Community outreach health services undertaken- Cerebral palsy camp at Bhoiwada public school.
- Social Awareness camps and lectures- World physiotherapy day- 8th September 2020- Performance related fitness evaluation for medical administrative staff and planned for their fitness.

Plastic Surgery

- Partnership with Resurge International wherein every patient under its fold is provided complete free surgery and post-operative rehabilitative aids
- Offered surgical and outpatient services to camp in Upleta, Gujarat and at the lifeline express.

Psychiatry

- A community psychiatric health Centre is run by the Department atMalvani, Malad. Trained psychiatrists examine and

treat patients hailing from this area. Individual & group counseling services are also provided where needed. Patients requiring detailed testing and evaluation are occasionally referred to Psychiatry Department of KEM Hospital when needed.

- Psychoeducation groups conducted along with team once every week by the Psychiatry Social workers.
- Guidance provided to students of M.A. in Social work by Psychiatric Social Workers.

Surgical Gastroenterology

- Social Awareness Lectures were delivered by Dr.Chetan Kantharia, Dr.Ramkrishna Prabhu and Dr.Sharvari Pujari at various forums including on Television and for Hospital Staff including sisters.

Transfusion Medicine

- A single organization i.e. Tarun Mitra Mandal had organized 3 Blood donation camps in the year 2020. On 5th January 2020 - 359 blood units were collected. On 20th May 2020, 72 units and 27th September 2020 - 131 units of blood collected.
- Tarun Mitra Mandal contributed a total of 562 blood units in the year 2020.
- Rashtra Seva Dal, Dapoli camp was held on 11.1.2020 and collected 147 units.
- MangaonPatrakarSangh,Dist-Raigad camp was held on 19.2.2020 and collected 153 units.
- Marathi Sanskruti Pratisthan-Taluka Shrivardhan-Dist.Raigad camp was held on 12.11.2020 and collected 156 units of blood.
- Conducted a blood donation camp on the occasion of International Woman's Day on 08.03.2020 only for Women for the first time in mumbai & collected 115 units of blood.

Donations and Grants

Donations and Grants

Biochemistry and Clinical Nutrition

Departmental staff received various packed food items, steamers and PPE kits from various charitable organizations during covid-19 pandemic.

Cardiology

- Video conferencing system for department academics – Donated by Ratanchand Hirachand Foundation, Mumbai.
- Two High flow nasal oxygen systems, Fisher & Paykel healthcare, donated by Rotary Club of Mumbai Western (one loaned to Department of Medicine for Covid 19 response).
- Softcath software for Cath lab for Cath procedure reporting donated by Terumo India Pvt. Ltd.
- ICCU Cental monitoring system installed for quality care and monitoring of ICCU patients donated by RatanchandHirachand Foundation, Mumbai.

Chest Medicine and Environmental Pollution Research Center

- Sanyog Trust:Digital sthethoscopes
- Jewelex India Pvt Ltd,Shri Irani :AIRVO2 HFNC

Clinical Pharmacology

- Received a grant of Rs.25,000/-from'Diamond Jubilee Society Trust'for project entitled"Quantitativeproteomic evaluation of Chikungunya antibody positive participants compared to age and sex matched healthy controls in a tertiary care hospital of WesternIndia."
- Received a grant of Rs.50,000/-from'Diamond Jubilee Society Trust'forproject entitled"Effect of CNS stimulant and CNS depressant on healthy volunteers using computer-based tests on the Mindomatics™software-Validation Study."
- Received a grant ofRs.15,000/-from'Diamond Jubilee Society Trust'for project entitled, "An audit of safety reporting in Randomized Controlled Trials(RCTs) over a five-year period in one high impact factor journal."
- Received a grant of Rs.75,000/-from'Research Society'for a project entitled, "Evaluation of genotyping and therapeutic drug monitoring vs. only therapeutic drug monitoring as a strategy for risk minimization in epileptic patients on phenytoin therapy: a randomized controlledtrial."

Dermatology, Venereology and Leprology

Name of Donor	Amount Donated	Specific Activity for Which Donated
Jenburkt Pharmaceuticals	5000	Research and training
Ajanta Pharma	10000	Research and training
La pristine bioceuticals	5000	Research and training
Palsons derma	5000	Research and training
Glenmark pharmaceuticals	5000	Research and training
Curatio healthcare	20,000	Research and training
Deepak Shah	51000	Strengthening department

General Surgery

- Received donation for 100 PPE Kits from Ms. Anjali Damania in April 2020.
- Received 100 N95 masks from Department of Urology in APRIL 2020.
- Received donation of 40 PPE suits, 100 face shields and 140 n95 masks from MsVritika Mehta.
- Received 1000 N95 masks and 2000 3 ply masks from vital global foundation in April 2020
- Donated 1030 FFP1 face masks and 2000 three play masks from Dr. Shilpa rao on April 2020 to KEM Hospital healthcare workers.

Neonatology

Name of Donor	Amount donated /Equipment donated (Rs.)	Specific activity for which donated
State PIP, NUHM	32,97,000.00 (carried forward from 2019)	Facility Based Newborn Care project
State PIP, NUHM	2,50,000.00	SNCU Software project
State PIP, NUHM	10,00,000.00	NICU Operational Cost
AIIMS, New Delhi	13,17,412.00	International research study on neonatal sepsis
Krishna VrundavanPrathisthan	7,75,000.00 Oxygen Blender: 1 Pluse Oximeters: 5 Infusion pumps: 5 LED Phototherapy: 2 Breast Pumps: 4 Hot Air Oven: 1	NICU management
Lions Club of Byculla	2,57,600.00 Infusion pumps: 4 5,74,660.00 Transcutaneous Bilirubinometer: 1	NICU management
Inner Wheel Club of Bombay	40 KMC bags, 40 Nesting and 80 Baby sheets per month	Neonatal Developmentally Supportive Care
Swasth Foundation	N95 masks, PPE kits, face shields, neonatal intubation box.	COVID 19 pandemic protection of HCWs.

Nephrology

- ISN Grant of 1 lac for the project- Complement system abnormalities in patients with atypical HUS and their impact on clinical outcomes.
- DJST grant for the project “Genetic analysis of tubulopathies”

Neurosurgery

- Received donation from Rotary Club of Malabar Hill and developed aState of Art –Neurosurgical Intensive Care Unit.

Nursing

- Received a donation of 14 Computers and printers, 2 air conditioners, one LED TV from Dr.Hansoti.

Occupational Therapy

Occupational Therapy Dept organized OTICON 2020 got donations from past alumni and well wishers.

Hemant Nandgaonkar - Received the Research Grant by Research Society of Seth G.S.M.C, Mumbai. (Project title - Efficacy of parent-child interaction guidance in children with regulatory disorder of sensory processing between the age group of 7 months to 3 years.)

Shilpa Prasad Nayak - Donation coordinated through medical social worker department to avail therapeutic activities for occupational therapy in mental health in December 2020.

Ophthalmology

List of Donors	Amount Donated	Equipment
<ul style="list-style-type: none"> • Rotary club of USA • Rotary Club of Bombay Global Grant Nos 2098308 Gift of Sight 3 • Lions Club of Bombay Queensway • Sanyog Trust • Ms. Bhairavi Vakil • Moneylife Foundation 	Rs. 33,60,000 US \$ 187443 Rs. 1,85,000 Rs. 24,90,000	ERG and VEP machine Corneal cross-linking, combined topographer with puff tonometer and aberrometer, Octopus autoperimeter, Zeiss surgical microscope and recording system I-Care tonometer Topcon Fundus Camera with FA N 95 masks N 95 masks, Non contact infrared thermometer

Pediatric Anesthesia

- Anjeze Charitable Trust donated 6 Infusion Pumps and 1 convective warmer with paediatric body blankets worth approximately 4 Lakhs in November 2020.

Pediatric Surgery

- M/S. Thyssenkrupp Industrial solutions (India) donated:
- Paediatric CystoUrethroscope and
- Rigid Paediatric Ureteroscope; both worth Rs. 7,57,680/-
- M/S. Bharat Serums and Vaccines Limited donated Valley Lab Electrosurgical Cautery worth Rs. 17,92,000/-

Paediatrics

- MPS Interactive Systems Limited –Rs.4,00,000/- Educational Grant for partially running the Learning Disability (LD) Clinic, Department of Pediatrics.

Pharmacology

- ICMR Advanced Centre for Capacity Building in Clinical Pharmacology Research- Rs. 26,35,118/-
- ICMR Task Force project on Rational use of Drugs- Rs. 15,75,520/-

Plastic Surgery

- ReSurge International gave a grant for post-burn Patients.

Psychiatry

- GT Sheth Medical Foundation- Rs. 1,00,000/- for poor psychiatric patients.
- Aadi JinYuvak Charitable trust- Rs. 40,000/- for poor psychiatric patients.
- Rs. 1,35,000/- for PPE kit for healthcare workers.
- Material worth Rs. 12,000/- for Occupational Therapy department.
- PBCF donations of Rs. 30,000/- from Nana Palkar Smruti Samiti, Sushila Modi charitable trust

Radiology

- Received BPL USG Machine in ward 6 through donation from Cap Gemini.

Education

Education

Anatomy

- Newly developed e-Teaching Learning and Assessment Modules for First MBBS, FYBPTH, FYBOTH, I BSc PMT, and MD Anatomy students
- Used Digital Lecture Theatre and Dissection hall for online teaching & revision program with newly prepared dissection video modules
- Continued Professional Development of staff members by attending various online programs (MOOCS, Basic workshop in Biomedical Research etc.)
- Courses offered, intake for the current year and results:

Sr. No.	Courses taught	Annual intake
1	I MBBS	250
2	MD Anatomy	00
3	I B.P.Th.	40
4	I B.O.Th.	40
5	Nursing	80
6	I B.P.M.T	32

- Collaborative programs with various clinical departments:

Sr. No.	Date	Collaborating Departments	Name of the Workshop
1.	05.01.20	Department of Orthopedics, Seth GSMC and KEMH	Knee & Hip -Arthroplasty Course
2.	16.02.20	Department of Orthopedics, Seth GSMC and KEMH	Workshop on Cervical Spine
3.	27.02.20	ROTTA SOTTO	Organ Retrieval Workshop for training members
4.	01.03.20	Department of Orthopedics, Seth GSMC and KEMH	Shoulder Arthroscopy
5.	11.03.20	Department of Plastic Surgery	Hand Transplant training for transplant team

- Library Holdings:

Total No. of Books:	-	1025
No. of New Books added in 2020:	-	80
No. of Journal titles:	-	04
Total No. of Journals:	-	111

Anesthesia

- CPR – ACLS conducted for medical & paramedical personnel.
- CPR Workshop conducted (Year 2020):
 - o on 21st to 23rd September, 2020 for Anaesthesia 1st Year Resident = 35 Delegates
 - o 263 Medical Officers of F-South Ward in CPR.
 - o For doctors from DHS for CPR on 11th to 15th February, 2020
- Workshops/ CME
- CME & Group Workshop on “How & What – of Radio Frequency Ablation on Chronic Pain Management”, on Thursday 30th January, 2020.
- ‘Airway Workshop’ on 21st to 22nd January, 2020.
- ‘Simulation Workshop’ on 22nd to 24th January, 2020.
- ‘USG Guided Regional Anaesthesia Workshop’ on 24th to 25th January, 2020.
- Rapid Revision Class on X-Rays by Dr. Ayush, ABG by Dr. Sridhar Sundaram, PFT by Dr. Sonal Karpe, on 5th February, 2020
- MASTERCLASS 2020, for Students appearing for Examination in Summer 2020, on 7th – 8th March, 2020.
- Webinar
 1. ‘Closed Circuit & Low Flow Anaesthesia’ by Dr. Anjali Pingale on 22nd January, 2020.
 2. ‘Peri-operative Management of Blood Sugar in Patients with Diabetes’ by Dr. Virendra Patil on 26th February, 2020.
 3. ‘Managing Mental Health of Covid Warrior’ by Dr. Harish Shetty, Dr. Samudara Sawant on 27th July, 2020.
 4. ‘Monitoring of the brain in the Intensive Care Unit’ by Dr. Lakshmi Venkatraghvan on 24th October, 2020.

5. 'Intra-operative Neurophysiological Monitoring' by Dr. Lakshmi Venkatraghvan on 31st October, 2020.
 6. 'Anaesthesia for Paediatric Swap Kidney Transplant' by Dr. Shraddha Devrukhkar & Dr. Sunil Chapane on 29th December, 2020.
 7. 'Anesthesia in difficult airway with failed spinal' ISA Kerala branch by Dr. Indrani Hemant kumar.
 8. Herbal drugs and anesthesia, RSACP Odissa branch by Dr. Indrani Hemantkumar.
 9. Intensive Care and Covid. By RSACP Mumbai branch. Panel discussion by Dr. Indrani Hemantkumar.
 10. Morbid Obesity and Anesthesia by RSACP Mumbai by Dr. Indrani Hemantkumar.
 11. Panel discussion on Post operative complications moderated by Dr. Indrani Hemantkumar for Baxter India.
 12. Anesthesia in Covid recovered patients-challenges by RSACP West Bengal branch by Dr. Indrani Hemant kumar.
- Student intake Intake :
MD: 21 students, Results : 100% & DA: Intake : 07 Results : 100%
Fellowships in Chronic Pain, Neuroanesthesia, GI anesthesia, Regional Anesthesia...2 students for each fellowship
CPCR : Advanced Cardiac Life Support (ACLS) : Workshops, attended by approx. 300 students.
B.P.M.T. (OT Technician) Intake : 10 Results : 100%
New courses added and Intake :
 - One year fellowship course started with approval from MUHS –
Fellowship Course in Pain Medicine - 01
Fellowship Course in Neuro Anaesthesia - 02
Fellowship Course in Regional Anaesthesia - 02
Fellowship Course in Gastroenterology Anaesthesia - 02

Library :

- No. of books: 700
- Computer equipped Dept. library is available for use to faculty and residents.

Biochemistry and Clinical Nutrition

- Workshop on "Dry Chemistry Analysers and Total Laboratory Automation" organized by Ortho-Clinical Diagnostics in October 2020
- AITo (Integrated Teaching Programme - Horizontal & Vertical) in coordination with Departments of Physiology, Anatomy, Medicine, Surgical Gastroenterology and Nephrology) along with Department of Biochemistry for the following topics.
 - i. Cell
 - ii. Jaundice
 - iii. Clinical Enzymology
- Started ICMR Short term Studentship (STS) program for medical undergraduates to familiarize them with research methodology.
- Courses offered by the Department (Affiliated to MUHS)

Sr. No.	Courses Taught	Intake of Students
1.	MBBS - I Year	250
2.	B.P.Th. - I Year	40
3.	B.O.Th. - I Year	40
4.	B.P.M.T. - I Year (Cardiology Technician & Perfusion Technician)	10
5.	PG-DMLT	10
6.	Ph.D. Medical Biochemistry	3

Cardiac Anesthesia

- Courses offered and intake: Two seats in DM cardiac anesthesia & One Fellowship seat in cardiac anesthesia.

Cardiology

- Five Observers underwent training in department of Cardiology this year
- Courses offered and intake for the current year:
- D.M. Cardiology : At present six residents have joined for the cardiology course this year.

- M.D. (Medicine/Allied)- Residents from department of medicine are posted for a period of 1 month in Cardiology on rotation basis.
- BSc PMT – Intake of 5 Students per year.
- III BPTb and BOTb students &MPTh students for clinics, learning patient care and rehabilitation.
- Observers in Critical care and Palliative Medicine from Tata Memorial Hospital.
- Nursing students from various institutions are allowed observership as per administrative directives.

Chest Medicine and Environmental Pollution Research Center

Course	Intake	Result
M.D. Respiratory Medicine	4	4 students (2017-2018) passed University examinations in September 2020

- DM Pulmonary Medicine was started as a new course (the first such in the state of Maharashtra) and is affiliated to the Maharashtra University of Health Sciences.
- Postgraduate training includes a variety of activities like seminars, Journal Club, case presentations together with bedside clinical teaching.
- We aim at integrated teaching and organize clinical meetings with various departments including Radiology and Pathology.
- MBBS, Occupational and Physiotherapy students are regularly posted in Pulmonary Medicine as part of their curriculum and undergo training through lectures and bedside clinics.

CVTS

- Course offered and intake:
 - o M.Ch (Cardiovascular & Thoracic Surgery) - 6seats
 - o CertificatecourseintheExtraCorporealPerfusionTechnology(Oneyear)-3students
- M.Ch residents rotate through other disciplines like Cardiology, Chest medicine, Vascular Interventional Radiology and Surgical Oncology at Tata Memorial Hospital.
- Department has an active teaching programme in the form of clinical presentations, journals club, diagnostic catheterization conferences and mortality meeting.
- Department also offers undergraduate course of three years for BPMT perfusion therapy from MUHS Nashik.
- Department runs active teaching and clinical training for the perfusion students/ Nursing / OT & PT.
- Two Functional Departmental Vascular Lab with Weekly Hands on Training session.
- Three honorary Consultant have joined the department.
- Departmental Library – 358 books

Clinical Pharmacology

- Courses offered, intake in 2020:
 - o DM (Clinical Pharmacology) –03
 - o Ph.D (Clinical Pharmacology) -0
 - o Ph.D (Applied Biology)-0
 - o Msc (Applied biology)-0
- MD Pharmacology residents from KEM (rotation posting for 2 months) -8
- Department library- Number of books= 181

Community Medicine

The center conducts following types of Health education activities: Regular, Special Days, Creating and uploading educational material, Creating Material for the Institute and other departments as required.

- IEC for the special Programmes and Days of Educational Activities by RMOs and Interns in Field practice areas in Naigaon, Malvani, Rural and Sastur.
- Application of EPI INFO software, SPSS software, SYSTAT, SAS, Medcal software, other newer software etc.
- Regular on-Going IEC activities at OPD for the patients, Urban Health Centres and Rural Area. 24x7 Poster Exhibition in the general OPD area, which is changed as per the session and requirement.

- Creating new HE material or redoing the old material and Uploading of the Educational Material on KEM Hospital Website.
- Helping the institutes with putting up instructions or making materials that are important for creating awareness or providing care.
 1. Child immunization, INDRADHANUSHYA program poster was made for the immunization opd of the department.
 2. Display material was provided for display on Indian Organ Donation Day function.
 Other educational activities:
 1. The newly inaugurated KEM evening OPD was provided with educational board and standee.
 2. IDSP – Board displaying important information about its activities was made.
- Courses offered, intake and results:

	Course offered	Intake	Results (2019)
1	M.B.B.S.	185	Pass –181 Failed -4
2	Diploma in Public Health	-	-
3	M.D. (Community Medicine)	16	All Passed
4	PhD (Community Medicine)		6 students pursuing PhD
5	Postgraduate course in Pharmaceutical Medicine		Lecture courses in Community Medicine
6	Bachelor of Occupational therapy (B.O.Th.)		Lecture courses in Community Medicine
7	Bachelor of Physiotherapy (B.P.Th.)		Lecture courses in Community Medicine
8	B.Sc. Nursing (Bhagwati, Cooper Hospital)		Lecture courses in Community Medicine conducted by Malvani Health Centre

Post Graduate Students Activities for MD (CommunityMedicine):

Faculty Lectures	Monday
Journal Club presentation	Tuesday
National Health Policies and Programs	Wednesday
Case Presentation	Thursday
Biostatistics & Research Methodology	Friday
University Seminar	Saturday

Postings of RMOs – KEM Hospital – 22 months (which includes posting in General OPD,

- IDSP, UIP OPD, Naigaon Under -5 clinic & Naigaon geriatric OPD.), Rural health training
- Center – 4.5 months and Malvani Urban Health Center - 8.5 months
- Posting in Kasturba Infectious Disease Hospital for one month on rotation basis
- ‘Mother Support Group’ training for RMO: Rotational 15days training to all 1st Year RMO’s.
- 1 Day training on “Peripheral smear for Malaria Parasite technique” for all 1st Year RMO’s.
- STI/RTI Training at Mumbai District AIDS Control Society, Mumbai
- Visits to Non-Government Organizations (NGO) working in field of health or health related
- Activities, Essay writing on topics of Public Health importance/issues, Recent Advances,
- PG Examination Preparation (Writing and Discussion).

Internship -

- Trained 155 regular batch interns, 18 odd batch interns, 25 externs from institutes within India & outside India.
- Interns participated in various outreach activities of the department like: Mumbai Arogya Abhiyaan & Pulse Polio Immunisation programmes. Interns are also involved in managing fever OPD & Malaria awareness programme in the community especially during the monsoons.

Dermatology, Venerology and Leprosy

- Regular lectures taken over ZOOM and organized webinars on varies topics for PG students amidst of COVID19 pandemic social distancing norms.
- Regular lectures and case discussions are conducted for students posted in the skin department.
- CME was organized on 3rd March 2020
- Courses offered, intake for the current year and results-

Name of course	Intake capacity of current year	Result
M.D (Skin & VD)	4	Pass
D.V.D (Skin & VD)	2	Pass
Fellowship in Dermatopathology and diagnostic dermatology	2	Pass

Library : Seven books of latest edition are added to the Department Library

Endocrinology

- Courses offered, intake in 2020: DM Endocrinology –03
 - Diploma Diabetology (DD):02
 - Ph.D. applied Biology:01
- New courses added and intake: Nil
- **Library:** Number of Books pertaining to Endocrinology 476 in Central Library & 489 in Departmental Library

ENT

- Symposia and lectures held by Dr. Hetal Marfatia, Dr. Milind Navalakhe, Dr. Nilam Sathe, Dr. Shashikant Mhashal, Dr. Swapna Patil, Dr. Dhanashree Chiplunkar, Dr. Asmita Madhavi
- Online Clinics for PG students held at Prince Aly Khan Hospital and AOI west branch
- Theory lectures for UG, Physiotherapy and Occupational Therapy Students
- Practical clinics and exams for UG students

Forensic Medicine

- MBBS: 185
- II MBBS examinations of the MUHS, Nashik- 183 students passed
- Training & Teaching BAMS Students at KEM Hospital.
- Training & Teaching BPMT Students at KEM Hospital.
- Training & Teaching Forensic Nursing Students at KEM Hospital.
- Resource Faculty at Fellowship in Forensic Odontology at Indian Dental Association, D Y Patil Dental College, Indian Board of Forensic Odontology, Maulana Azad Institute of Dental Science, Delhi

Gastroenterology

- External rotation posting from Tata Hospital, Mumbai –2
- Courses offered and intake for 2020:
 - DM Gastroenterology - 4 students
 - Hepatology fellowship : 2 candidates
- Library – Total 175 books and journals like Hepatology

General Surgery

- MUHS approved course of Breast Fellowship (2 fellow intake per year) as the first independent fellowship course in department of general surgery under Dr. Shilpa Rao
- Dr. Shilpa Rao was Organising Chair at the MCGM Major Hospitals “GENSURG 2020” a national level Webinar. Held on 16th to 20th March 2020.
-

Hematology

- Department of Hematology along with NIH is one of the two international hemophilia training center in India where trainees are trained in comprehensive care of hemophilia in all the aspects of hemophilia management.

Medicine

Dr. Santosh Salagre

- conducted Communication Skills workshop for the Residents and Nurses of Hinduja Hospital, Khar on 11th January 2020.

- co-conducted a training session on Bioethics & Professionalism for the newly joined interns on 28th February 2020.
 - was resource faculty for Revised Basic Course workshop (rBCW) for Teaching Faculty Tutors/Contract-Temporary Faculty from 4th to 6th March, 2020 at Nodal Centre, Seth G.S. Medical College & KEM Hospital, Parel, Mumbai
- Dr. Anjali Rajadhyaksha: organized E- Mapcon 2020

Microbiology

- The department carried out undergraduate training for MBBS, B.Sc.(OT) , B.Sc. (PT), BPMT, and B.Sc.(nursing) students. Post graduate training was provided to MD (Microbiology), M.Sc. (Microbiology) by research, PGDMLT and Ph.D. students until lockdown and online thereafter.
- Six students have registered for MD Microbiology this year.
- The pass percentage for M.D in 2020 was 100%.
- Library (Departmental Library) Books – 239
- Journals – IJMM, JPGM(now e-prints only)
- Internet facility is available for all staff and students

Neonatology

- Courses offered and intake for 2020:DM (Neonatology):4 and MUHS Fellowship:2
- International observers and elective trainees : Nil
- National observers cum trainee: 10 Pediatricians &35 nurses from Gujarat, Orissa, Chhattisgarh and Maharashtra trained in neonatal care under Facility Based Newborn Care program
- Organization of 7 Facility Based Newborn Care Observership Training programs of 14 days each for pediatricians & nurses from Maharashtra, Gujarat, Orissa & Chhattisgarh.
- Library: Total no of books: 200

Nephrology

- Courses offered and intake for2020:DM Nephrology:2
- 2 Senior Registrars and 2 Houseman posts
- 1 Clinical research co-ordinator post (1 year duration)
- Structured academic schedule and research activities
- Dr Divya Bajpai delivered a talk on “Recent advances in prevention and management of AKI” in Indian perspective on ERA-EDTA conference 2020 on August 13 2020.
- Library:Total number of books- 370+ and journals (national and international)

Neurology

- Two students per year for DM Neurology.
- Two posts per year for Epilepsy Fellowship (Post-Doctoral)
- 5 students per year for B.Sc. Paramedical Technology
- Library – Dept. library holds 250 books.
- Every Saturday Lectures Conducted for OT/PT students.

Neurosurgery

- International and national observers attend neurosurgical services.
- International fellows trained in 2020 – 3,National Fellows –10
- The Department has a Microneurosurgical laboratory for anatomical dissections, the only kind in Western India, is in great demand.
- The laboratory is recognized by Neurological Society of India and World Federation of Neurosurgical Societies (WFNS).
- Department has been recognized by WFNS education committee as Class A centre for training in skull base surgery 2008-2009.
- The Department has 7 recognized teachers for M.Ch. (Neurosurgery) of the University of Mumbai. Every year 4 candidates are admitted for the M.Ch. Neurosurgery course.
- Regular zoom lectures conducted by all faculty of the department in national and international platforms.

- Library has 2314 books and various National and International Journals

Nuclear Medicine

- Course offered
DNB (Nuclear Medicine) Intake – 2 students per year Results: 100%

Obstetrics and Gynecology

Courses	Intake Annual
MBBS	250
MS Obstetrics and Gynecology, Seth GS Medical College	36

- CME:
 1. Recent Updates in Gynecological Oncology: In Collaboration with Tata Memorial Hospital on 11.03.2020
 2. N. A. Purandare Postgraduate teaching programme conducted online in collaboration with Mumbai Obstetric and Gynecological Society on 6.12.2020
- Library:Books: 530 andJournal: 280

Occupational Therapy

International Observers and Elective trainees:

Results:

Year	Result
First BOTH	70%
Second BOTH	100%
Third BOTH	100%
Fourth BOTH	97%
MOTH - Neurosciences	100%
MOTH - Developmental Disabilities	100%
MOTH - Musculoskeletal Sciences	100%

Library:60 Journals and Books: 850

Ophthalmology

Courses offered

- MS Ophthalmology – 5 students

Webinars conducted in 2020

- April - Cornea 'Quarantine'
- May - Refractive Surprise
- June - Limbal Stem Cell 'Advancements'
- July - Covid-19 & Eye banking
- August – Ocular tumors
- September – Transplant 'Innovations'
- October – Dry Eye 'Desert'
- November – Ophthalmology 'Gadgets & Gizmos'
- December – Ocular Inflammation 'Lessons'

Orthopedics

- Courses offered – MS Orthopedics, MUHS & MCI recognized.
- Intake: 24 post graduate candidates
- We conduct regularly monthly clinical meets, educative ward rounds and bedside clinics apart from scheduled under graduate and post graduate lectures.
- We have access to updated departmental library and online journal data base.

Pathology

- Courses offered and annual intake:
MD – 14 students
MBBS – 180 students
DMLT - 10 students
BPMT Course – 22 students
Fellowships in Cytopathology, Renal Pathology, GI Pathology, Cardiovascular Pathology, Pediatric Pathology and Neuropathology – 12 fellows Sanctioned per year & 7 fellows filled – 2 per subspecialty.
Observerships offered for Autopsy training and Histopathology training to MD Pathology post-graduates in Pathology from all over India.
Training imparted in laboratory techniques to many trainees from various colleges in Mumbai through out the year.
- Library holdings: 310 text books

Pediatric Anesthesia

- Courses offered and annual intake:
 - o DM (Pediatric Anesthesia)
 - o Intake capacity: 1/year
 - o Fellowship in Pediatric Anesthesia Intake capacity: 2/year
- Library: 63 books

Pediatric Surgery

- Successfully conducted M.Ch. Paediatric surgery Examination via videoconference

Pediatrics

- Courses offered and Intake for Current Year:
MD Pediatrics: 28 MD Pediatrics seats.
Fellowships: Pediatric Intensive Care (2 seats); Clinical Genetics (2 seats), and in Pediatric Neurology & Epilepsy (2 seats).
MSc in Applied Biology.
- Library Holdings: Books - 231 & Periodicals.

Pharmacology and Therapeutics

- Teaching sessions for the students of II MBBS, II year BOPh, II year BPh, II year, BPMT and II year Nursing students of the college were conducted online using Microsoft Teams App.
- Two symposia were conducted for undergraduate students.
- Journal Clubs, Seminars, Symposia, Protocol planning were conducted for PG students.
- Four postgraduate students were selected for a two month internship program at Novo Nordisk Mumbai.
- Two postgraduate students were selected for a two month internship program at Astra Zeneca, Mumbai.
- Two students completed their internship program at Abbott, Mumbai.
- Workshops / CMEs organized:
 1. Workshop on 'Ethics committee - Role and responsibilities' was conducted for ethics committee members of Inter System Biomedical Ethics Committee, Sthanakwasi Jain Aradhana Dham, Mumbai on 9th January 2020.
 2. Workshop on Good prescribing practices was conducted for faculty and residents of Dr. Vasantrao Pawar Medical College Hospital and Research Centre, Nashik on 11th January 2020.
 3. 'Adverse Drug Reporting Symposium' was conducted for medical and nursing staff of Bhatia Hospital, Mumbai on 25th February 2020.
 4. Workshop on Good Clinical practices and New Drugs and Clinical trials, Rules, 2019 was conducted for Ethics committee members of Masina Hospital on 23rd and 24th September 2020.
 5. Workshop on Good Clinical practices and New Drugs and Clinical trials, Rules, 2019 was conducted for Ethics Committee members and investigators of Smt. Kashibai Navale Medical College on 12th and 13th October 2020
 6. Workshop on 'Ethical considerations in research and NDCTR 2019' was conducted for Ethics committee members of Aditya Jyot Eye Hospital, Mumbai on 21st November 2020.

7. National Workshop on 'Clinical Pharmacology research in traditional medicine' was organised under the auspices of ICMR Advanced Centre for Capacity Building in Clinical Pharmacology Research from 28th-30th November and 3rd -5th December 2020.
 8. MUHS approved online Research Methodology Workshop was conducted for postgraduate students of Seth G. S. Medical College & KEM Hospital from 14th-16th December 2020.
 9. Pharmasteer, an online orientation programme for postgraduate medical students all over India, was held on 28th November & 5th, 12th and 19th December 2020 as a part of the academia-industry collaboration between Department of Pharmacology & Therapeutics and Astra-Zeneca.
- Courses offered and intake in 2020:

Courses Offered	Intake for the current year	Results of Exams
MD Pharmacology	10	100%

Library: 816 books, 4 newbooks were added

Physiology

- Courses offered and intake in 2020:

Courses offered	Intake for the current year
Postgraduate degree course in Human Physiology	1
I MBBS	250
III MBBS (Integrated lectures)	180
FYBOTH /FYBPTh	40+ 40
III year OT	40
Bachelor of Para-Medical Technology 1 st & 2 nd year	25

- **Library books:** books-for faculty & residents 1590, for first year MBBS & OTPT students- 823

Physiotherapy

	Courses	Duration	Intake	Results
I	Bachelors in Physiotherapy	Four years + Six months of Internship	40	I BPTH – III BPTH – results awaited IV BPTH-100%
II	Masters in Physiotherapy	Two years	Total =20	
	PT in Musculoskeletal Science		8	100%
	PT in Neurosciences		6	100%
	PT in Cardiovascular & pulmonary Sciences)		6	100%
III	Ph.D Guides: Saraswati Iyer: Bhavana Mhatre Jaimala Shetye Mariya Jiandani:	Ph.D Scholar's from PT Department: R.Lakshmi Prabha, Archana Gore, Jyotsna Thosar, Dipti Geete, Swati Paranjpe	13	
IV	Externship	8 candidates from other institutes have come for externship this year		
V	International Observers and Elective Trainees in 2020	None		
VI	New courses added and intake	None		
VII	Library	Departmental Library with Computer facility and e books		

Plastic Surgery

- Courses offered and intake for 2020:
 - o M.Ch. Plastic Surgery -4

Psychiatry

- International /National Observers/Trainees in Psychology -5
- Courses Offered and Intake in the year 2020:
 - o M.D. (Psychiatry) –6

- o MUHS Approved One Year Deaddiction Fellowship Course -2
- Results for the year 2019:
 - o 5MD Psychiatry and 1 Diploma candidates passed the MUHS Summer 2020 Examination.
- Books on Psychiatry and Allied Subjects: 1015 (11 new books added)

Radiology

- Courses Offered: MD Radiology
- Session on imaging in intracranial infections on 6.5.2020 Dr Shilpa Sankhe
- Session on imaging of gliomas by Dr Shilpa Sankhe on 10.06.2020
- Session on role of MRI in adherent placenta on 16/9/2020 by Dr. Shilpa Sankhe.
- Academic activities:
 - o Twice a week lectures by Residents,
 - o Monthly X-ray spotter and case discussion,
 - o Monthly gastrointestinal imaging spotter and case discussion,
 - o 4 to 5 lectures of X-ray physics every month
 - o Maintaining the website www.kemradiology.org, which includes case of the day, case of the month, monthly quiz, monthly interventional case records, journal club discussions and other academic activities.
- Epilepsy Meet- Weekly
 - o Gastrointestinal Meet – Weekly

Surgical Gastroenterology

- Courses offered
- Mch Seats - 2
- MUHS Fellowship in Minimal Access Surgery with intake of two students every year
- Conduct Quarterly Basic Laparoscopic Instructional Course for Surgeons from Periphery.
- MUHS Fellowship in HPB and Liver Transplant Surgery with intake of 1 candidate annually.
- Library: E Library, GI surgery books and online journals

Transfusion Medicine

1. Telemedicine seminars are conducted along with SGPGI, Lucknow and SRMC Chennai.
2. National Expert Reviewer :Dr. Jayashree Sharma for the News Letter constituted by Haemovigilance Programme of India, National Institute of Biologicals, New Delhi.
3. Lectures are taken for second MBBS students, D.M.LT. Students, O.T. and P.T. students and the nursing students from S.N.D.T.
4. Technologists take specialized training in “Component Preparation and platelet pheresis.”
5. Regular teaching programmes for M D Transfusion Medicine students, like Case presentation, Seminars,
6. Journal Clubs and Quiz Competition etc.
7. Lectures for BPMT students
8. Library with the latest books and Journals on Blood Transfusion and Immunohaematology

Urology

The department has a full-fledged training programme for M.Ch. residents since 1980 which is recognized by the University of Mumbai, by the Medical Council of India (MCI) and National Board of Examination, New Delhi to train DNB urology candidates.

Teaching Work:

- Inter-departmental meetings and Teaching Program: The teaching program includes regular integrated undergraduate lecture for all the 3 terms and post-graduate teaching schedule for M.Ch. (Urology) students in the form of clinical, case presentation, bed side clinics, ward rounds, uro-nephrology meetings, Journal reviews and operative video session.
- Daily Morning rounds - 8.00 am to 8.30 am
- Grand round - Wednesday : 8 to 9 pm and Saturday: 1 to 2 pm
- Clinics-Video class with Professor Dr. Ganesh Gopalakrishnan, Ex. Professor, CMCH, Vellore.

- Transplant meet – once a week to discuss prospective and operated renal transplantation cases
- Case discussion
- Journal Club, Uro-pathology, Symposium / Seminar
- OPD case discussion- Uroradiology: Basic instructions and teaching on various Uro-radiological procedures.
- Symposium / Seminar
- Interdepartmental Meeting with Nephrology to discuss renal transplants and explained the procedure of renal Transplant to the patients and relative as required by the law.
- UG and P.G. Teaching and journal review

Patient Care

Patient Care

Anatomy

- Cold storage mortuary of the department is being utilized for storage of dead bodies of the hospital
- Demonstration Room No 1 (Marcello Malpighi), Microanatomy Laboratory have been provided for seating of staff members of Department of Medicine and Surgery with appropriate social distancing.
- Demonstration Room No 3 (Claudius Galen) has been provided for storage of PPE kits.

Anesthesia

- PAIN CLINIC OPD on every Wednesday from 1.30 p.m. to 3.30 p.m. Room No. 345, Multi storage Building, Ground Floor. Incharge – Dr. Indrani Chincholi, Professor & Head, Dept. of Anaesthesia, KEM Hospital. Honorary Consultants – Dr. Lakshmi Vas, Dr. Kailash Kothari.
- The Department has trained 263 Medical Officers of F-South Ward in CPR. The Department has also trained doctors from DHS for CPR.
- Our Department was part of the team of World's First Paediatric Swap Transplant.
- Anaesthesiology department catered to 43 operation theater tables located in 15 OT complexes. Anaesthesia services were given to about 63,000 surgical patients & the department catered to 25,000 Anaesthesia OPD patients for pre-operative evaluation.
- The department has special post-operative pain relief services and anaesthesia intensive care unit.
- Anesthesia services have started in MRI and additional OR tables in Orthopedic OT, Spine, Urology, EMS.
- Anaesthesia services were provided for workshops conducted by Paediatric Surgery OT, Urology OT, Plastic Surgery OT, Ortho OT, Spine OT, ENT OT, General Surgery OT & G.I. OT.

Biochemistry and Clinical Nutrition

1. Central Clinical Biochemistry Laboratory (CCBL)
 - o Patients' samples are analyzed on:
 1. TWO Olympus AU 680 Fully Automatic Biochemistry Analyzers
 2. TWO Olympus AU 400 Fully Automatic Biochemistry Analyzers
 3. ONE Erba Mannheim EM 200 Fully Automatic Biochemistry Analyzer
 4. ONE Transasia ERBA Chem-7 Semiautoanalyzer
 - o 13 biochemical parameters are analyzed on routine basis and in the EMS.
 - o Number of tests done in CCBL and EMS Laboratory from Jan 2019 to Oct 2020:
CCBL- 1948958
EMS-596221
CVTS Laboratory No. 315: Patients' samples are analyzed for biochemical parameters.
Number of tests done in 2020-48892

Cardiac anesthesia

- Near infra red spectroscopy Monitoring.
- McGrath video laryngoscope
- Video Double Lumen Tubes.
- New high end workstation with electronic gas monitoring and integrated multipara monitor including entropy and neuromuscular monitoring. Near infra-red spectroscopy Monitoring- Near infra-red spectroscopy for cerebral oximetry has been added in monitoring of on pump and off pump cardiac cases.
- Near infra red spectroscopy for cerebral oximetry has been added in monitoring of on pump and off pump cardiac cases.
- Videolaryngoscope for paediatric and adult difficult airways.

Cardiology

- No. of Procedures done in Siemens & Philips Cath Lab from 1st January 2020 to 31th December 2020- 1161
- Admissions:1st January, 2020 to 31st December 2020

Total No. of patients admitted in ICCU	953
Total No. of patient admitted in Wd. 32	1250
Total no. of patients done CST	937
Total no. of patients done 2D ECHO/CD	5533

Procedures:

ECG: EMS – 86456; CVTC – 9824

CVTC OPD : Total-12,234

Chest Medicine and Environmental Pollution research center

- The Department of Pulmonary Medicine and EPRC manages an Intensive Respiratory Care Unit with 5 ICU beds and 3 step-down beds and provides inpatient services with a total 30-bedded ward at our hospital. Honorary inpatient services are provided by our Additional Professor at Group of TB Hospitals where a 40- bedded ward caters to patients requiring indoor care.

Facilities available:

- Polysomnography (Level I study with fully equipped sleep lab)
- Thoracic ultrasonography
- Videobronchoscopy
- Medical thoracoscopy
- Pulmonary function testing (spirometry, lung volumes, diffusion and forced oscillometry.)
- Arterial blood gas laboratory (with co-oximetry)

Specialty outpatient clinics run along with the routine outpatient services:

- Bronchoscopy clinic
- Asthma clinic
- Pulmonary Rehabilitation clinic
- Sleep Disorders
 - Noninvasive ventilator facilities together with new delivery devices such as HFNC allow us to optimally treat patients with exacerbations in the intensive care unit.
 - Honorary services are provided by Faculty at GTB Hospital along with erstwhile DOTS PLUS Services & NTEP OPD at KEM.

OPD Patients	New Patients	Follow- up patient	Total
2020	3316	9975	13291

- Indoor admissions -202 with a mortality rate of 1.48%

Procedures

Bronchoscopies	20
Bronchial washing	20
Medical Thoracoscopy	03
Ultrasonography	211
Pleural tapping	71
ICD insertion	13

Pulmonary Function Tests

FV Loop	1596
DLCO	35
RV/TLC	5

Arterial blood gas laboratory

Total ABGs performed –43491

Polysomnography

Seven sleep studies were performed in 2020.

Asthma Education

- The department of Pulmonary Medicine has an asthma education programme for indoor and outdoor patients. A total of 410 patients have been given asthma education.
- In addition, the EPRC team is also involved in creating asthma awareness and education of school children about asthma and self-care.
- The EPRC team carries out an annual respiratory morbidity survey. The details of these surveys are published in the Environmental Status Report. The environment pollution research Centre conducts regular surveys and health checkups in response to citizens' complaints as well.

CVTS

- Out patient services (4 OPDs/week)
Place CVTC Building, Ground Floor (307)
Timing 1.30 pm Onwards
Days Monday/Wednesday (Dr.DVK Unit)
Tuesday / Friday (Dr.Uej Unit)
- New patients as well as follow-up patients are seen in the OPD.
- Till 30th November, around 2000 new cases were evaluated for various Cardiac Thoracic and Vascular ailments. Operative work Details
- Total Admissions : 853
Total Surgeries: (Open – 567, Closed- 225, Emergency - 27)

Clinical Pharmacology

- Therapeutic Drug Monitoring OPD

Total Patients seen	1604
Follow-up patient seen	810
New patients seen	794

- Drug wise patients who reported to the OPD

Name of the drugs	Total number of patients
Valproate	764
Phenobarbitone	203
Phenytoin	390
Carbamazepine	200
Lamotrigine	47
Levetiracetam	410

- Malaria OPD

Total Number of Slides screened	4800
Total Positive	75
Total Number positive for <i>P.vivax</i>	72
Total Number positive for <i>P.falciparum</i>	03
Total Number positive for mixed infections	00

- Lithium Data

Total number of patients	72
New patients	42
Old patients	30

- Pharmacogenetics OPD: Total number of patients seen: 158
- ADR Reporting: Total ADR reported: 710

Community Medicine

- 43196 patients attended General OPD
- Morbidity: (data available till April 2020) -7504
- Laboratory investigations (data available till April 2020)-5580

- Immunisation OPD:
- Vaccine beneficiaries:

Vaccine	Total
BCG	3589
OPV 0	3109
OPV1, OPV2, OPV3	1269
PENTA 1, PENTA 2, PENTA 3	1277
MR	182
MMR	122
DPT / OPV B1	260
DT / OPV B2	38

In addition, 2 rounds of Subnational Pulse Polio immunisation on Sundays followed by a week of IPPI activities within the campus were conducted in the year 2020.

- Universal Immunization Programme: 11513
- Yellow Fever OPD:1041
- Integrated Disease Surveillance Program:

Daily Disease surveillance is done through IDSP established at KEM Hospital, PSM Dept. for patients with Acute Gastroenteritis, Leptospirosis, Dengue, Malaria and fever cases admitted in KEM Hospital.

The disease trend and high risk areas are identified and informed to Epidemiological cell (Kasturba hospital Mumbai) for required action.

Health checks up camps are carried out in the vicinity of the outbreak areas by the PSM residents.

- Disease Surveillance Report - 1557

Dermatology, Venerology and leprosy

- No of OPD patients per day-150-180/day
- No of biopsies done per day-8-10/day
- No of IPD patients per week-5-8/week
- No of procedures per week-70-100/week
- Department provides educational pamphlets for prevention of fungal infections for patients and their relatives in collaboration with preventive and social medicine department.
- Use of advanced surgical modalities like non cultured melanocyte transfer for treatment of stable vitiligo.
- Initiation of cosmetic dermatology services with various chemical peels, thread lift, and scar revision surgeries.
- Use of biologicals for treatment of patients with life threatening dermatological diseases.
- Lasers-Multiplatform harmony laser machine, IPL and Q switched Nd YAG for the treatment of disorders like hirsutism, acne scars, vascular lesions, facial rejuvenation.
- Inclusion of Biological like Rituximab injection under RGJAY thereby benefitting more number of patients with vesiculobullous disorders
- Novel methods of vitiligo surgery like SMASH grafting and EXCIMER laser has improved patient's outcome.

Dentistry

- Total OPD patients - 12144
- Procedures done:
- Extractions - 1856
- Root canals – 75
- Restorative work (fillings) – 216
- FPDs – 68
- Dental Arch bar Wiring – 38
- Major and minor surgeries – 243

Endocrinology

- Indoor admission: from 01 January 2020 to 30 November 2020- 228
- Outdoor patient: From 01 January 2020 to 30 November 2020 -22843

- Out Door Patients
Diabetes New– 2856, Diabetes old– 12101
Thyroid New– 1815, Thyroid old– 3592
Puberty & Growth New– 641, Puberty & Growth old– 1838
- Hormone Assay Workload in 2020

Sr. No	Test	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov
1	FBS	962	794	536	*CO19	85	154	196	182	453	472	411
2	HbA1c	1971	1899	921	23	70	393	474	648	623	439	368
3	T3	1391	1306	996	145	175	301	450	385	541	148	110
4	T4	1432	1307	992	145	185	311	458	397	657	310	155
5	TSH	2626	2411	1695	275	479	530	803	769	1163	147	110
6	AMA	400	318	274	24	45	44	70	190	179	129	56
7	FSH	348	304	224	4	18	18	45	81	135	153	135
8	LH	335	352	246	4	18	19	46	68	135	151	122
9	PRL	52	4	20	7	10	12	23	4	6	*	32
10	Testo	219	159	160	8	10	15	42	60	106	106	95
11	Cortisol	270	598	211	23	25	33	71	101	161	171	167
12	PTH	327	323	404	35	30	49	117	182	285	310	147
13	ACTH	12	31	*	*	10	9	5	*	19	*	18
14	IGF1	61	34	58	*	10	8	9	26	48	35	59
15	HGH	45	62	45	*	4	4	5	*	27	35	19
16	FT3	268	563	146	33	21	27	80	102	143	58	56
17	FT4	378	314	222	33	25	28	85	135	231	53	55

- Overall highlight of patient care services (numbers of each service)
All services are carried at OPD No. 103, 1st floor, OPD building, Seth GSMC and KEM Hospital, Parel, Mumbai.
MONDAY: Diabetes OPD & Diabetes Foot Clinic-discussion in OPD
Reassessment of old diabetes patients
TUESDAY: Diabetes OPD & Diabetes Foot Clinic-Clinical Discussion in OPD
Thyroid Clinic & Obesity Clinic
WEDNESDAY: Ward Round-Presentation and Discussion of Ward Cases
THURSDAY: Puberty and Growth OPD, Endocrine Oncology OPD & Adrenal Disorder Clinic.
FRIDAY: Diabetes OPD & Diabetes Foot Clinic, Puberty and Growth OPD,
Endocrine Oncology OPD & Adrenal Disorder Clinic
Thyroid Clinic
SATURDAY: Diabetes OPD & Diabetes Foot Clinic
(Gestational diabetes cases seen on all days)
- Pituitary meet: 1st Wednesday of every month: Here challenging cases are discussed with
- Neurosurgeons, Endocrinologist, Radiation Oncologist, Radiologist, and Neuropathologist for patient care improvement.
- Thyroid meet / Histopathology meeting: 2nd Wednesday of every month: Here challenging cases are discussed with Endocrinologist, Radiologist, and pathologist for patient care improvement.
- Adrenal meeting: 3rd Thursday of every month : Case based discussion between urology, surgery, radiology, pathology, nuclear medicine physician and Endocrinology.
- General surgery, radiology, pathology, nuclear medicine physician and Endocrinology.
- 2 month Interesting case discussion.
- DSD meet: Second Wednesday of every month with pediatric surgeon
- Head face neck Meeting: once in 2 months on 3rd Wednesday
- Pancreatic neuroendocrine tumor Meeting: once in 2 months on 3rd Wednesday
- Plastic surgery meet: First Monday of every month for surgical management of DSD patients
- New services added with numbers- 03 Services added in Department of Endocrinology
- Diabetes Foot Clinic
- Adrenal Disorder Clinic
- Obesity Clinic

Forensic Medicine

Overall highlight of patient care services

- Estimation of age including sportsperson & others status. Consultation to surgery & medicine wards regarding the injury certificates in admitted cases.
- Expert opinions given on different Antemortem Cases Like: Sexual Assaults, Violent Asphyxias, Poisoning Cases,
- Forensic Odontology Expert Opinion given on cases of Sexual Assault, identification of unknown & Age assessment.
- Total Ante-mortem cases -401 (till date)

Gastroenterology

- The Gastroenterology OPD is conducted 4 times a week on Monday, Tuesday, Wednesday, Friday Special care Liver.

O.P.D. Patients	
New patients	5560
Follow up patients	3293
Admitted to Gastroenterology ward (32A and 41)	767
Upper GI scopy	1950
Colonoscopy	550
ERCP	450
Proctoscopy	890
Liver Biopsy	76
EUS procedures	140
Oesophageal variceal sclerotherapy	105
Oesophageal variceal band / loop ligation	960
Endoscopic clipping for bleeding lesions/polyps	35
Oesophageal dilatations	90
Oesophageal prosthesis placement	8
Gadstric varices with glue	150
Bleeding ulcer injection	45

O.P.D. Patients	
EUS Therapeutic biopsy	35
POEM	1
Argon plasma Coagulation	50
Endoscopic biliary sphincterotomy	200
Endoscopic pancreatic sphincterotomy and drainage	75
Pancreatic cyst drainage	6
Polypectomy	25
Foreign body removal	45
Percutaneous endoscopic gastrostomy	18
Rectal stricture dilatation	10

Special procedures:

- Capsule Endoscopy : 8
- Therapeutic EUS : 15
- POEM : 1
- ESD : 1
- Special services for patients : 24 hr emergency services, especially for patients with GI bleeds, pancreatitis, cholangitis, and liver disease complications.

General Surgery

During the covid times our patients were followed on phone, out patients services remained open and in patient services restarted by August 2020 (Chemo and Surgery).

A Covid 19 Helpline had been started to co-ordinate and follow 50 patients

Hematology

- This year we have seen around 25000 patients in OPD basis and 13360 patients in day care along with 1177 in patients.
- The Department of Hematology runs an outpatient clinic three times a week on Mondays and Thursdays from 9.30 to 1.30 and on Wednesday on 11th floor from 9.30 to 12.30 for follow up of CML and Aplastic anemia patients.
- Patients are referred from other municipal hospitals such as Cooper, Bandra Bhabha Hospital, V.N. Desai, & M.G.M Hospital. Moreover, patients are referred to the Department from all over Maharashtra and adjoining states.
- Patients requiring indoor admissions are admitted to Ward 42 on the 10th floor, New Multistory Building. We have an emergency service for bleeding disorder and hematological malignancies patients.

Hematology day care Centre

- New Hematology day care has been renovated on the 11th floor new multistory building. Centre has been developed with the funding from the Natco trust. They have spent for the renovation, furniture and staff in the day care.
- The department runs a day care for patients to be given treatment on a day care basis.
- The patients of Thalassemia major are given blood transfusions on a day care basis, regularly, every two to three weeks, as required. Patients of aplastic anemia, MDS and other bone marrow failure syndromes are treated with blood and platelet transfusions as and when required.
- Patients of various hematological malignancies such as Leukemias, lymphomas, Myeloma etc requiring chemotherapy intravenous and intrathecal are given in day care schedule.
- All patients with bleeding disorders of coagulation e.g. hemophilia or platelet disorders are also treated with blood products or factor concentrates as needed. Parents are trained for giving intravenous injections for their children. Home therapy given and records are maintained in day care.
- With the help Cuddles Foundation we have a 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.
- The Department also runs International hemophilia training center and Comprehensive Hemophilia Care Center with 1211 patients of hemophilia registered in our institution for treatment.
- In patient service

Beds: Total - 25 [Allotted].

Place: Ward 42, 10th Floor, East Wing, M S Building, K.E.M Hospital Campus,, Parel, Mumbai - PIN 400 012. Indoor Service: Ward 42

The department runs a day care, for patients to be given treatment on a day care basis.

Day care for patients of : Thalassemia for blood transfusions, Bone marrow failure syndromes for blood & platelet transfusion, Hemophilia's & other coagulation disorders for factor treatment and physical therapy, Platelet disorders for transfusions, Leukemias & lymphomas for chemotherapy, oral, I, V, & Intrathecal. Other hematological disorders

Number of patients treated in Day care

- Number of OPD patients-484
- Total no of patients-12468

OPD patients-Total-**7683** (Old-**5658**, New- **2025**)

HB-9544, Retic-2471, TC/DC-9544, ESR-29, Plt.C- 9544, HBEpp-142. BMA-619

PT-709, APTT-434

Medicine

EMS intensive care unit- Having 15 beds, 15 ventilators, 8 multipara monitors, ECG machine, 1 de-fibrillator for management of critically ill patients.

Dr. Archana Sonawale:

Incharge of NESCO ICUs from August – November 2020, involved in management, training of RMO'S etc

Dr. Meghna Vaidya:

Deputed as ICU in –charge NESCO for 20 days and coordinating transfer out from NESCO to KEM Hospital. Telephonic consultation SOS to NESCO ICU consultants till date.

Worked as In-charge EMS, ward 7 and ward 19 taking turns among the faculty in Medicine, KEM Hospital.

Dr Smrati tiwari

DACEP member for HIV services

Dr. Vishal Gupta :

Medical Intensive Care Unit

Dr. Kaustubh Salagre:

Training and lecturer faculty for Training Programme for Faculty and Employees of MCGM in April and May 2021.

Dr. Shraddha More :

Rheumatology Saturday OPD CVTC

HIV THursday OPD DACEP panelist

Dr. Smrati Tiwari :

HIV patients, Routine medicine patients

Patient Care Data:

Triage/ Cough Cold Fever OPD

Conducted in collaboration with community medicine dept. Round the clock 24* 7 for the covid suspect patients in casualty area

Dr. MYN Unit IPD patients -1500

Dr. AGR Unit IPD patients- 1800

Dr. RNS Unit IPD patients- 2500

Dr. SBS Unit IPD patients – 2480

Dr. AKS Unit IPD patients-2600

Dr. KSJ Unit IPD patients-2566

Dr. MSV Unit IPD Patients – 2876

Total OPD Patients -

General Medicine OPD :Old : 17,026

New : 11,272

HIV patients -650, dacep opd conducted online during the pandemic for Patients on ART

Rheumatic patients-new patients-618

Follow up patients -2,883

Hypertension OPD : New cases- 219, Follow-up cases – 1,463 (Total patients - 1682)

Geriatric patients – New -05 Old - 246

MICU :

- Total admissions in MICU: 616 till Dec .2020 including COVID and Non COVID

Patient Care :

- Care of critically ill patients like complicated tropical illnesses e.g. malaria, leptospirosis, dengue, septicemia, poisoning, fever & acute lung injury/ ARDS needing ventilator therapy. We also manage obstetric & gynecological patients presenting with medical emergencies as also post vascular & neuroradiology interventions.
- MICU has managed critically ill residents and interns of KEM Hospital who had dengue fever and acute febrile illnesses.
- MICU PATIENT CARE:

The content should reflect the quality and quantum of patients care:

- Total 16 ventilators - to provided noninvasive & invasive mechanical ventilation to Acute lung injury/ ARDS/ Respiratory/ depression/ Cardio respiratory failure patients.
- Number of patients on ventilator approximately- 450.

Overall highlight of patient care services (number of each services):

Plasmapheresis:

- To patients of Gullian Bare Syndrome, Myasthenia Gravis, TTP, Polymyositis, both MICU patients & Medical ward patients with help of plasmapheresis pump 1- 2 per month.

Renal replacement therapy is given by following :

- CAVH, CVVHDF on CRRT machine available in MICU.
- 2Decho done by portable, USG + Echo machine on MICU patients: 332.
- Bronchoscopy: Therapeutic, Diagnostic bronchoscope and fiberoptic bronchoscope
- Percutaneous tracheostomy: total 5

New facilities provided:

- Interactive MICU daily rounds with faculty from microbiology department including Assist Prof. Senior resident.

- This helps analyze infection patterns, identify culprit organisms and their resistant pattern.
 - Interactive rounds with faculty of physiotherapy department especially for proper Chest PT, Respiratory muscle, strengthening exercises.
- 10 Multipara Monitors & 2 USG & 2D Echo Machine for Critically ill patients.
- 1 ECG machine and 2 Defibrillator procured for patient care
 - Ems Intensive care unit having 15 beds and ventilators, 8 multipara monitors managing emergency cases like myocardial infarction, GBS, tropical illnesses, poisoning, needing monitoring and ventilator treatment.

Microbiology

- Clinical microbiology diagnostic services are provided by different divisions of the Microbiology Department. Emergency laboratory services are available after routine hours. The annual workload for the different service divisions of the department was as follows:

Section	Workload
Bacteriology including Emergency laboratory	
• Samples processed	40176
• Antibiotic susceptibility tests	29974
• BACTEC	1359
• Vitek rapid ID and ABS	500
Total	72009
Virology	
• HIV serology	24258
• HBV serology	21259
• HCV serology	20676
• RPR	1766
• CD4 count	4587
• Viral Load (HIV)	3276
• Viral Load (HBV)	0
Total	75822
Serology including Emergency laboratory	
• Leptospirosis	18139
• Dengue	34907
• Widal	1086
• Others	2482
Total	56614
Mycobacteriology	
• Microscopy – LED fluorescence (pulmonary)	3680
• Microscopy – LED fluorescence (extra-pulmonary)	777
• GeneXpert	7011
Total	11468
Mycology	2971
Parasitology	
• Stool examination (routine)	3896
• Stool for opportunistic parasites	0
• Malaria Antigen Test (including emergency lab)	13630
Total	17526
Covid Testing	
• RT-PCR	77909
• RAT	15257
• Covid antibody	831
Total	93997

- MGIT 960 (TB culture DST) has been installed and will be available for patient care once certified by Central TB Division. In 2019, the department successfully cleared the desk top surveillance for continuation of NABL accreditation as per ISO 15189:2012 for all the tests carried out in its divisions
- The department successfully cleared EQAS for bacteriology, serology, virology and CD4 count administered by IAMM
- / NARI, and mycology administered by Mycology Ref Lab, PGI, and Chandigarh.

- The Department has been identified as a medical college Viral Reference Diagnostic Laboratory (VRDL) by Department of Health Research, MoHFW, Govt. of India. Establishment of this facility is in process.

Neonatology

- Initiation of Universal Newborn Metabolic Screening program.
- Neonatal Intensive Care Unit:** 42 beds

Patient care areas	Type of Services	Number of beds
Inborn Unit	Inborn aseptic neonatal care area	13
Inborn - Outborn Unit	Inborn septic & out born neonatal care area	12
Transitional Care Unit	Intermediate care area	12
Ventilation Unit	Advanced ventilatory care area	05

Inborn Unit: Neonates born in K.E.M. Hospital are managed in this unit.

Inborn-Outborn Unit: Neonates in K.E.M. hospital at risk of infection and neonates transferred from other municipal or private hospitals are managed here.

Transitional Care Unit: This section renders transitional convalescent care to neonates once the acute stage of disease is managed in intensive care units. The babies who do not require close and continuous monitoring are looked after here.

Ventilation Unit: The babies requiring advanced ventilatory care are closely monitored and managed here.

Human Milk Bank: Human milk bank is an institution established for the purpose of collecting, screening processing, storing & distributing donated human milk that is dispensed to recipients who are not the biological off springs of the donor mother.

Kangaroo Mother Care Center: The department is selected as the center of excellence in India for initiating Kangaroo Mother Care for low birth weight babies. **Kangaroo Mother Care Center is the first & the only of its kind in the country.** Neonates, recipients of KMC, are regularly followed up here for growth, nutritional status, neuromotor, neuro developmental & neurosensory assessment & early intervention therapy is instituted whenever required.

Quantum of patient care:

Total number of deliveries	5307
Total number of LBW babies	1960
Total number of NICU admissions	1295
Total number of KMC recipients	638
Total number of COVID suspect neonates	196
Total number of COVID positive neonates	23

New Services: Neonatal Palliative Care for neonates with no curative option.

Neurology

In the year -2020

I. Routine VEEG - 775

Ictal VEEG- 89

Electromyography & Nerve Conduction study (EMG/NCS)- 257

II. Epilepsy Surgery

1. Surgeries conducted in 2020.

Ecog Guided (ECOG) - 03

Non Ecog Guided (Non –ECOG) - 00

2. Epilepsy surgery OPD for New and follow-up of patients who undergo pre-surgical work-up that are already operated. It is a combined effort from Neurology, Neurosurgery, Neuropsychology and Psychiatry Dept, to streamline the services of Comprehensive Epilepsy Center.

3. Neuropsychology -55 psychological evaluations for Epilepsy Surgery and other neurological conditions including evaluations for fitness.

III. OPD Services

Pre-operative & post-surgery counselling and guidance for Epilepsy patient.

Neurology New – 2975 patients per year

Neurology Old – 4863 patients per year

Epilepsy New – 1060 patients in the year

Epilepsy Old –7285 patients in the year
Paediatric Epilepsy New –270 patients in the year
Paediatric Epilepsy Old - 643 patients in the year
Indoor Services – 216 patients

Stroke Center

Total 99 patient's thrombolysed till date. There is coordination with Neurosurgery for Mechanical thrombectomy for Acute Stroke.

Movement Disorder Clinic

Dr.Pankaj Agarwal is a honorary visiting Specialist in Movement Disorder.

Weekly Botox therapy given to Selected Patients.

Nephrology

- Nephrology Department provides indoor, outdoor and emergency services for patients suffering from renal diseases. Facilities available are clinical nephrology, dialysis and kidney transplantation. Laboratory services are also offered.
- Only centre to perform 24 x 7/365 days emergency haemodialysis, also provides the service to HIV/HbsAg/HCV positive patients.
- Successful functioning of various sub-speciality clinics along with establishment of a new special OPD- Tubulopathy clinic once a month
- Expanding services of the Intervention Nephrology Division of the department of Nephrology to include
- 4 Live related renal transplants, 2 swap transplants and 2 deceased donor renal transplants were done in 2020.
- ICU dialysis facility started for critically ill patients in MICU (Medical Intensive Care Unit)
- ABPM (Ambulatory Blood Pressure Monitoring) services started for patients with hypertension
- Palliative care services in Dialysis Clinic started in collaboration with TATA Trust from September 2019
- Annual OPD attendance - 8582
- Annual inpatient admissions – 313
- No of dialysis sessions done in 2020 till date: 6187
- No. of kidney biopsies done in 2020: 108
- No. of tunnelled cuffed catheters inserted in 2020: 48
- Major exemplary contributions of the department:
- First pre-emptive swap transplant was performed in 2019 in the department in collaboration with urology team.

Expansion of laboratory services-

New state of the art laboratory equipment acquired for laboratory work-

- 1 Olympus binocular microscope, 4 centrifuge machines (R23, RHC)
- CBC Analyser, Randox Analyser (Biochemistry), Fully automated Integrated Urine Analyser (In process)

Services of AKD dietician-

- Ward 34A- Comprises of pre and post renal transplant patients: prescribed diet plan and counselled
- Ward 12 and 4- Patients under AKD unit are monitored regularly.
- Attend referral calls-
- Advice diet to OPD patients held thrice a week
- Average number of patients seen per day: 30-35

Neurosurgery

The department is a referral centre for neurosurgical patients from through-out western India and also from other parts of the country.

The highlight of management is that there is no waiting list for surgery. All patients needing surgery are operated within 2 days of admission. All the technological equipment necessary to perform any kind of complex neurosurgery procedure is available in the department. Specialization in sub-divisions of neurosurgery is encouraged.

Approximately 2000 operations are done by the departmental staff. Of these there are 450 operations done for head trauma in the general surgery operation theatre by the neurosurgical staff. 1800 surgeries were performed in the neurosurgery operation theatre. (check numbers)

Video EEG and neuropsychological assessment is available for evaluation of epilepsy patients.

- Digital subtraction angiograms and endovascular neurointerventional procedures are being performed. Carotid stenting, coiling and flow diversion of aneurysms and treatment of cranial and spinal arteriovenous malformations is being routinely done.
- Awake craniotomies and intra-operative monitoring techniques are now available and being performed routinely.
- Number of patients in 2020- New-3907, Old-7003
- Surgeries-955

Nuclear Medicine

Addition of PET/CT related services

1. PET/CT scans – 367
2. Cardiac PET scans-5
3. Bone scan-70
4. Salivary scintigraphy-6
5. HIDA scan-16
6. Renal Scan-301
7. DMSA scan-67
8. Lung perfusion scan-6
9. Stress thallium-22
10. Lymphoscintigraphy-0
11. Parathyroid scan-3
12. Thyroid scan-61
13. MUGA -12
14. Brain SPECT-3
15. Iodine scan-7
16. Iodine therapy-3
17. GET-34
18. GER-15
19. Meckels Scan-13
20. Brain PET scan-32

Obstetrics and Gynecology

1. Total number of confinements: 5248
2. Total number of major surgeries in OBOT: 2846
3. Total number of minor surgeries in OBOT: 546
4. Total surgeries in Gynecology OT: 191
5. Total Gynecology new OPD patients: 5150
6. Total Gynecology old OPD patients: 5973
7. Total obstetrics new outdoor patients: 5253
8. Total obstetrics old outdoor patients: 13921
9. Gynecology indoor patients: 507
10. Obstetrics indoor: 6435
11. Gynecology OPD and Antenatal OPD run daily on a regular basis even during the covid pandemic.

Day	Specialty clinic
Monday	Sexually transmitted infections
Tuesday	Gynecological endocrinology
Wednesday	Oncology
Thursday	Adolescent gynecology
Friday	Assisted reproductive technologies
Saturday	Menopause

Occupational Therapy

- Specialized OPD Interventions:

Sr. No	Name	Building	OPD No.	Day
1	Obesity clinic	CVTS	4	Mondays, Thursdays & Saturdays
2.	Cardiac Risk Modulation clinic	CVTS	4	Tuesdays, Wednesdays & Fridays
3.	Pain Management Clinic	Orthopedic Center	412	Mondays to Fridays & Saturdays (Half Day)
4.	Rheumatoid Arthritis Clinic	CVTS	307	Saturdays
5.	Neonatal High Risk OPD	Multi Storey New Building, 1st Floor		Wednesdays
6	Back School Clinic	Orthopedic Center	412	Mondays to Fridays & Saturdays (Half Day)
7	Musculoskeletal management for Hemophilia	CVTS & Orthopedic Center	4 & 412	Mondays to Fridays & Saturdays (Half Day)
8	Hypertension Clinic	Multistory New Building, 1st Floor		Wednesdays
9	Neuro-Rehabilitation and movement disorder clinic	Old K.E.M Hospital Building	Ward 10, OT Department	Mondays to Fridays & Saturdays (Half Day)
10	De-addiction: Intervention and Fitness	Orthopedic Center	OT department in Ward 40	Mondays to Saturdays
11	Breast Clinic	New building	11	Wednesday
12	Psychiatry: Intervention and Work Fitness	Old K.E.M Hospital Building	OT OPD 79	Mondays to Fridays & Saturdays (Half Day)
13	Child Guidance Clinic – New Patients OPD	Old K.E.M Hospital Building	OT OPD 79	Mondays to Fridays & Saturdays (Half Day)
14	Kangaroo Mother Care	Behind Orthopedic Center		Mondays and Thursdays
15	Pediatric Neuro Developmental -New Patients OPD	Old K.E.M Hospital Building	OT OPD 79	Saturdays
16	Sensory Integration Therapy	Orthopedic Center	412	Mondays to Fridays
17	Burns, Plastic Surgery and Specialized Hand Clinic	Old K.E.M Hospital Building	OT OPD 260	Mondays to Fridays & Saturdays (Half Day)
18.	Synovitis and contracture Management Clinic	Orthopedic Center	412	Mondays to Fridays & Saturdays (Half Day)
19.	Learning disability clinic	Old KEM hospital building	O.T OPD. 079	Mondays to Fridays & Saturdays (Half Day)

- Workload:

Workload	Outpatient Dept	In Patient Care
Patients	15063	13378
visits	45786	45122

Ophthalmology

New facilities provided

- Retina clinic – Tuesday, Thursday, Friday-Dr Vikram Nakhate & Dr Anniruddha Mahendrakar
- Paediatric and squint clinic – Wednesday and Thursday-Dr Pooja Ghalla
- Glaucoma clinic – Thursday and Saturday-Dr Arjun Gokani
- Oculoplasty clinic – Tuesday-Dr. Smita Menon
- Cornea clinic – Monday to Saturdays-Dr Amrita Ajani,Dr. Aashiyana Nariyani

Annual OPD attendance – 14338

Annual IPD – 219

Surgeries done

- o Major surgeries – 68
- o Minor surgeries – 186
- o Day care procedures – 1421

Investigations Done

- o A-scan - 16
- o Optical biometry - 24
- o OCT – 159
- o Perimetry - 354
- o Retinoscopy - 2523
- o Paediatric vision assessment - 425
- o ROP screening – 21

Orthopedics

Daily OPD [New Patients 8:30-1:00, Follow-up Patients 1:30-4:30]

24 hr emergency services [OTST in EMS complex]

Treating fresh and neglected musculoskeletal trauma in all age group.

Treatment of congenital, inflammatory, infective, neoplastic and degenerative pathologies affecting musculoskeletal system. We have skill and equipment to treat simple & complex trauma, spinal surgery, arthroplasty, arthroscopy and paediatric orthopaedic surgery.

Our staff members participated in local and regional social services camps.

Services Offered

- Complex traumatology
- Spine surgery
- Arthroplasty
- Arthroscopy & Sports Medicine
- Ilizarov & limb deformity correction
- Paediatric Orthopaedics
- Orthopaedic Oncology
- Shoulder & Elbow subspecialty services
- Hand surgery

Operating rooms: Three theatre complexes

- Routine Orthopaedic Operation Theatre: Has three functional theatre rooms. Out of three two have laminar flow. Renovated and renamed as Joint replacement Routine Orthopaedic Centre Operation Theatre.(JROCOT)
- Spine Surgery Operation Theatre: Total renovated State of the art for spine surgery and other orthopaedics procedures. (JRSOT)
- Orthopaedic Trauma Services Theatre: (OTST) Two operating rooms located in the Emergency Medicine Services Complex.

Pathology

- a. No. of OPDs run and their frequency: One Blood Collection OPD 008 everyday (Monday to Saturday)
- b. Annual OPD attendance: Approx-138000 - 140000 (2019), 43000-50000 (2020)
- c. Annual IPD: 7.5 to 8 lakh (2019), 3.5 to 4 lakh (2020)
- d. Name & no of Lab investigation done annually: Pathology:

Sr. No	Name of the Lab investigation	No of investigation done in 2019	No. of investigation done in 2020
1.	Total Collections (biochem etc)	138779	43216
2.	CBC ESR	712524	338323
3	Urine	107988	18010
4	Fluids	9538	3139
5	CSF	1192	478
6	ABG	53110	39824
7	PT	81534	44337
8	FNAC	3400	1224
9	Fluids	4738	2868
10	Histology (total Cases)	14007	137
11	Autopsy (total cases including histopath)	452	5682

Sr. No	Name of the Lab investigation	No of investigation done in 2019	No. of investigation done in 2020
12.	Immunology	9426	350
13	Biochem (lipids, enzymes RA etc)	24642	6471
14	Miscellaneous	25750	10426

Pediatric anesthesia

- Paediatric Surgery and MRI, CT OPD on every Tuesday and Thursday from 1.30 p.m. to 3.30 p.m.
- Continued involvement in intrathecal injection of the drug Spinraza in children with Spinal muscular atrophy as part of National project in conjunction with the Department of Paediatrics, KEM Mumbai.
- Started erector spinae block and catheters for pain relief during major thoracic surgeries.
- Use of ultrasound incorporated for accurate placement of epidural and caudal catheters during regional blocks in neonates and infants.
- Increased use of microcuff endotracheal tubes down to neonates weighing more than 3 Kg.
- Central Line care bundle introduced to prevent catheter related bloodstream infection.
- The department catered to 3 operation theater tables located in Paediatric OT complex. Anaesthesia services were given to about 500 surgical patients & the department catered to 1500 Anaesthesia OPD patients for pre-operative evaluation.
- In addition the department provides care and cover for sick children in the Paediatric Surgery 3ICU, along with anaesthesia services for children in remote locations such as Ophthalmology (45 cases), Gastroenterology (91 cases), MRI (165 cases), and CT scan(56 cases).
- Aid the Paediatric department in securing difficult intravenous access via central/peripheral route.
- Use of real time ultrasound has been extended beyond regional and vascular access to include airway assessment, 2D Echo as well as abdominal and lung assessment.
- Increased use of target controlled infusion for delivery of total intravenous anaesthesia in Anesthesia services have started in MRI and additional OR tables in Orthopedic OT, Spine, Urology, EMS.

Pediatrics

Patient Services	2020(1 st Jan 2020 to 15 th Dec 2020)
General Pediatric OPD	6819
Indoor Admissions	1731
EMS Attendance	4488
PICU Admissions	331
Under Five Clinic	1475
Pediatric Rheumatology Clinic	40
Pediatric Nephrology Clinic	40
Pediatric Chest Clinic	92
Genetic Clinic	180
School Clinic	135
Thalassemia day care centre admissions	1196
Pediatric Epilepsy Clinic	550
Learning Disabilities Clinic	200

Pediatric Surgery

The department continued the surgical services of non covid and covid children during the pandemic.

The department has completed 233 cases of 3-D laparoscopy till date.

The department has completed cases using 58 HOLMIUM YAG LASER SYSTEM .

Total admissions – 1727

Total no of Surgeries – 393

Major surgeries – 210

Minimal access surgeries – 61

Minor surgeries – 183

Birth Defect Clinic– Counseling and early intervention of congenital anomalies – 392 families counselled since Jan 2020

Pharmacology & Therapeutics

- The Ayurveda Research Centre of the Department of Pharmacology and Therapeutics runs an OPD on Friday afternoon. Total patients registered from 1st January 2020 to 31st December 2020 were 558.
- Admissions in Ayurveda ward were done for detailed assessment of patients, *panchkarma* and other therapeutic procedures. Total number of indoor admissions from form 1st January 2020 to 31st December 2020 were 208.
- Monitoring for quality of Ayurvedic formulations: 5 ayurvedic formulations were analysed for synthetic steroids and heavy metals. Of these 1 was found to contain synthetic steroid and 2 samples were found to contain heavy metals.

Physiotherapy

- Patient care services OPDs run and their frequency:
 - o Musculoskeletal, Neurophysiotherapy- adult and pediatric, Cardio respiratory, cardiac rehab, obesity.
 - o Frequency of OPD- daily
- Services provided to total
 - o OPD-16998 patients
 - o New-24206 patients
- Telerehabilitation services started for non-covid patients
- Fitness rehabilitation
- Stroke rehabilitation

Plastic Surgery

Round the clock Emergency Services are provided involving Maxillofacial injuries, Hand injuries, Skin cover for upper & lower limbs, Replantation & Revascularization of limbs and digits; Acute burns in adult females

Besides Routine Plastic Surgery, the dept. specializes in cleft lip and palate, complex vascular malformations of head, face & limbs, T. M. joint ankylosis, lymphedema, skin tumors, management of absent vagina and intersex related problems, micro vascular surgery etc.

Joint Clinics: Hand, Maxillofacial Surgery, Brachial Plexus, Intersex.

Year	2020 (till Nov 2020)
Indoor patients - Plastic surgery	325
Indoor patients - Burns	66
O.P.D. Patients	2778
Casualty Reference	601
Routine operations	891
Emergency operations	1364
TOTAL OPERATIONS	2074
Referrals from other departments	1367

- Special services for patients: Comprehensive hand clinic, Thursday 2.30 pm
Maxillofacial - Mondays, Ward 16, 2.30pm
Breast Clinic – OPD Friday, 11 a.m. – 1 p.m.
- Special facilities for patients: Occupational Therapy services exclusively for our dept.

Psychiatry

- In the year 2020, the number of new patients seen in OPD were –4770
- On follow-up the number of patients examined were approximately –31967
- Total no. of Indoor patients admission in Psychiatry were - 184
- EEGs - Total no. of patients - 288
- ECTs - Total no. of patients – 310
- Biofeedback- Total no. of patients – 5
- Psychological testing - Total no. of patients – 748
- Deaddiction Centre-
 - o OPD New cases – 502
 - o Follow up cases – 3501
 - o Indoor Admissions – 73

- Drug Deaddiction Laboratory Work Report (Jan 2020 To Dec 2020): Samples assessed for alcohol, morphine, cannabis, benzodiazepines, MDMA, cocaine, amphetamine and other miscellaneous samples (Pudi, Tablet, Misri) – 4350

Specialist services

- Group Therapy Services
The Department provides group therapy services for patients/caregivers. The disorders and the number of patients counseled this year are as follows:-
Suicide prevention counselling group: - 7
Sexual dysfunctions group: - 12
Dementia group/Memory Clinic – 19
Caregivers of Patients with Schizophrenia group – 79
- Deaddiction Ward Groups
Yoga: 38
Patient Psycho-education Group: 42
Caregiver Group: 41
- Specialized Clinics
Child Guidance Clinic (CGC)for children with psychiatric disorders: New cases: 192, Follow up: 423
Geriatric Clinic for old age patients:New cases: 66, Follow up: 308
- No. of New patients for counseling by PSWs: 600

Radiology

In the year 2020, the Dept. of Radiology has performed following number of scans:

Modality	Number of scans performed
CT	39736
MRI	7881
USG	89054
Barium	1649
IVP	857
Mammography	525
Interventional Radiology Procedures	VIR - 1331 INR - 804
XRAY	398073 (including General X-rays, OC bldg., CVTC, EMS X-ray

Surgical Gastroenterology

- Clinical care and management of complex GI surgery cases presenting primarily and referred post-operated, complicated cases from the city, state and other parts of the country.
- Twice a week Outpatient Services for GI Surgery cases and once a week for Liver Transplant cases.
- OPD attendance: New patients-5444, Old patients-978
- IPD attendance:34
- Surgical statistics:

Sr. No	Type of surgeries	Total no of surgeries done in 2020
1	Supramajor	139
2	Major	105
3	Minor	13
4	Day care	05

Name and number of diagnostic test done annually

Sr. No.	Name of Investigations	Nos in 2020
1	USG	814
2	CECT SCAN	321
3	MRI/MRCP	47
4	PET-CT	08
5	ERCP/EUS	39
5	Interventional radiology procedures	41
6	PFT	0
7	Barium/contrast done	11

- IPD beds available for the department:30 beds including 6 bedded ICU

Transfusion Medicine

- Routine services like grouping & crossmatching of 2 lakh Blood units per year.
- Single Donor Platelets (prepared by plateletpheresis) to patients, particularly to those with hematological disorders, monsoon related illnesses and those undergoing cardiac surgery.
- Total 6267 units of Random Donor Platelets and more than 104 units of Single Donor Platelets (SDP) were issued to the patients.
- The demand of 150-200 blood units per day for patients admitted in our hospital is fulfilled by about 200-220 blood donation camps in a year with over 36000 blood units collected annually.
- 70 Therapeutic Plasmapheresis procedures have been performed in the Department which is beneficial for patients of G.B. Syndrome, Polymyositis Myasthenia Gravis etc.
- FDA License No.954 Renewed from 01/01/2017 to 31/12/2021.

Urology

- OPD-14500
- Kidney transplantation-867
- 30 Beds in Urology Ward
- There are 4 Operation Rooms and operations are performed 5 days a week
- Three outpatient department sessions (OPD) every week
 - o Stone Clinic :Wed.1.30To5.30 pm -210 patients / OPD day
 - o General Urology :Saturday8.30 To1.30 pm -220-250 patients / OPD day
 - o Andrology :Friday1.30 To 3.30pm - 25-30 patients / OPD day
- Investigative facilities offered by the department
 - Ultrasonography :
 - Uroflowmetry :
 - Doppler ultrasound:
 - Radiological investigations like Retrograde Ureterogram and Retrograde Pyelogram.
 - Uro-endoscopy
 - Phalldynamic Studies (Impotence Studies).
 - TRUS: Trans Rectal USG with prostatic Biopsy for diagnosis of Ca prostate.
 - Urodynamic study: Pressure flow studies.

TREATMENT MODALITIES OFFERED BY THE DEPARTMENT

1. Stone disease
 - Endoscopic
 - Suprapubic & transurethral Cystolithotripsy
 - URS
 - PCNL
 - Open surgeries
 - Extra Corporeal Shockwave Lithotripsy (ESWL)
 - RIRS – Laser surgery,
 - 3D laparoscope System
2. Uro-oncology - Advanced uro-oncologic surgeries like radical retropubic prostatectomies, radical cystectomy with orthotopicneobladder etc.

3. Female Urology - Surgeries for SUI, genitourinary fistulas, reconstruction surgery for urinary incontinence
4. Paediatric Urology - Hypospadias surgeries.
 - Bladder neck reconstruction for incontinence.
 - PCNL / URS / RIRS
5. Transplant urology – Laproscopic donor nephrectomy.
6. Andrology and Infertility -
 - For infertility - VEA, VVA, TUIED (Transurethral incision of ejaculatory ducts)
 - For impotence - Penile prosthesis
 - Venous ligation
7. Laparoscopic surgery procedures like Lap.VVF repair and Lap. Pyeloplasty.
8. Laser prostatectomy.
9. Stricture surgery for complicated cases - Redo surgery- rectourethral fistula
10. UDS
11. USG Machine for TRUS Biopsy and USG KUB, with USG guided PCN, biopsy, cyst aspiration
12. Microscopic procedures like micro varicocelectomy, AV Fistula for dialysis
13. ESWL – KEM Hospital Urology department has a state of art Dornier Lithotripter (to break kidney stones without surgery). This is amongst the best such machine in India. It caters to a total of 560 new patients per year. The Old machine has been scraped and a new Dornier delta 3 machine has been installed.
 - Now offering 3D laparoscopic procedures to our patients (ureterolithotomies, Lap. Nephrectomies etc).
 - Performing laparoscopic donor Nephrectomy which is consider to be the most difficult and complex urological laparoscopic operation.
 - Performing complex procedures such as radical cystectomy, radical prostatectomy and VVF repair.
 - Patient Education Activities: Dietary advice, BEP, Stone, Cancer
 - All IPD records are Computerization.
 - All OT records are maintained on the computer and the data can be retrieved immediately.

Workload of the Department Patient Workload:

Year	O.P.D. Attendance						Indoor Admissions	Referrals Calls		
	Gen.Urology		Stone Clinic		Infertility			Total	Emergency Calls	
	New	Old	New	Old	New	Old			Indoor	Intra op.
2020 (till Nov.2020)	2372	2827	908	979	111	79	7276	603	1232	25

• **Diagnostic Workload:**

Year	USG	Cystoscopy & Related Procedures	Uroflowmetry	Trust Guided Biopsy	UDS
2020 (till Nov.2020)	197	411	820	65	16

• **Operative Workload**

	2020 (till Nov.2020)
Open work	184
60to 70% in operative work	
Transplant – (LRDT + Cadaver)	9
Endo-urology :	
VIU	46
TURP	37
URS	49
PCN	145
PCNL	155
PCCL	7
U plasty	22
TURBT	34
Laparoscopy	34

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Publications

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- Comparison of outcome of intubation using conventional laryngoscopy with gum elastic bougie versus Airtraq in mannekin by second and third year anaesthesia residents in tertiary care public hospital.
- An audit of peri - operative complications in paediatric patients undergoing surgery for neural tube defects.
- To Study awareness among residents of anaesthesia, orthopedics and nurses of orthopedic department about postoperative fasting duration after anaesthesia in patients undergoing elective surgery.
- Prospective comparative study of cuff leak test versus ultrasound guided laryngeal airway column width difference to predict the occurrence of laryngeal oedema in patients undergoing surgery in prone position for more than 3 hours.
- An assessment of intubation training program in novice anesthesiology resident with the use of mannequin.
- Practice of using dexmedetomidine intraoperatively - prospective observational study.
- Assessment of patient satisfaction about pre-operative anaesthetic evaluation practices in tertiary care hospital”.
- Comparative study of Oropharyngeal seal pressures in AMBU Laryngeal Mask Airway versus Laryngeal Mask Airway Supreme in patients undergoing elective breast surgery.
- A prospective study comparing iv magnesium sulfate iv dexmedetomidine for attenuating haemodynamic response to laryngoscopy and endotracheal intubation.
- Correlation of symphysiofundal height and abdominal girth with incidence of hypotension in case of cesarean section under spinal anaesthesia using Bupivacaine and fentanyl as adjuvant.
- A comparative study of glottic visualisation and ease of intubation at different heights of operating tables.
- Comparative Randomised controlled study of Relieving Anxiety by music therapy versus IV Midazolam in the Patients undergoing short Duration surgeries using subarachnoid neuraxial blockade.
- Prospective randomised study comparing volume-controlled ventilation mode, pressure controlled ventilation mode and pressure-controlled ventilation- volume guaranteed mode in patients undergoing spine surgery in prone position.
- Effect of emergency duty related sleep deprivation on cognitive function among anaesthesiology residents – a prospective observational single centre study.
- Comparison between Acromioaxillosuprasternal Notch Index and Modified Mallampati Test in predicting difficult visualization of larynx and intubation.
- Prospective observational study to assess impact of pulse pressure variation guided fluid therapy on incidence of venous air embolism and hemodynamics during anaesthesia in sitting position.

- A comparative study of modified aldrete score and fast-track.
- Criteria for assessing recovery from general anaesthesia after laparoscopic surgery.

Biochemistry and Clinical Nutrition

- Dr Anita Chalak: effect of iron deficiency anemia on HbA1c status in diabetic patients attending tertiary care centre.
- Dr. Trupti D. Ramteke: Impact of Modified OMP Model on reasoning skills of Phase I MBBS Students in Biochemistry.

Cardiac Anesthesia

- Transesophageal echocardiographic evaluation of tricuspid valve.
- Cerebral oximetry in on –pump and off pump CABG.
- STS vs Euroscore
- Erector spinae VS thoracic epidural block for thoracic surgeries.

Cardiology

- A Randomized, Double-blind, Placebo-controlled, Parallel-group, Multicenter Study to Demonstrate the Effects of Sotagliflozin on Cardiovascular and Renal Events in Patients With Type 2 Diabetes, Cardiovascular Risk Factors and Moderately Impaired Renal Function.
- A Multi-center, Randomized, Double-blind, Active-controlled, Parallel-group Phase 3 Study to Evaluate the Efficacy and Safety of LCZ696 Compared to Ramipril on Morbidity and Mortality in High Risk Patients Following an AMI.
- SELECT - Semaglutide Effects on Cardiovascular Outcomes in People With Overweight or Obesity.

Chest Medicine and Environmental Pollution Research Center

- National Environmental Health Profile: 20 City Multi-sites Study.
- Asthma- Omkar Study.
- Retrospective study of Hematological changes in patients with tuberculosis.
- Retrospective study of Asthma in Obese people.
- Retrospective study of pulmonary function test in patients with chronic kidney disease.
- Retrospective study of Pulmonary Function Test in people with Obstructive Sleep Apnea.
- Retrospective clinico-radio analysis of patients admitted with acute exacerbation of ILD in a tertiary health care centre.
- The retrospective study of pulmonary function test in bronchiectasis.
- Prevalence of pulmonary hypertension in patients with acute exacerbation of chronic obstructive pulmonary disease-retrospective study.
- Assessment of reversibility in chronic obstructive pulmonary disease with pulmonary function test.
- Retrospective study of profile of lung functions in people exposed to biomass fuel attending tertiary care hospital.
- A retrospective assessment of proportion of cases of pre-diabetes and diabetes in microbiologically proven pulmonary tuberculosis.
- Retrospective study of lung functions in geriatric population more than 60 years attending tertiary care hospital.
- Retrospective study quantifying the sleep architecture in different grades of sleep apnoea according to AHI.
- Comparative study of serial pulmonary functions in patients with asthma, Chronic Obstructive Pulmonary Disease & asthma Chronic Obstructive Pulmonary Disease overlap.
- Prevalence of smoking in sputum smear positive Pulmonary Tuberculosis.
- To study prevalence of allergic bronchopulmonary aspergillosis in Bronchial Asthma.
- Study of use of Non-Invasive Ventilation in patients of Acute exacerbations of Chronic Obstructive Pulmonary Disease.

Clinical Pharmacology

- ATLAS A/B: A phase III study to evaluate the efficacy and safety of patients in Hemophilia A or B, without inhibitory antibodies to Factor VIII or IX (ALN-AT3SC-004).
- A Phase 2/3 Observer-Blind, Randomized, Controlled Study to Determine the Safety and Immunogenicity of COVI SHIELD (Covid-19 Vaccine) in Healthy Indian Adults.
- A Randomized, Controlled, Open Label, Multicentre, Two Arm, Two Dosage, Phase II Study Assessing the Efficacy and Safety of Intravenous Administration of Adult Human Bone Marrow Derived, Cultured, Pooled, Allogeneic Mesenchymal Stromal Cells in Patients with Acute Respiratory Distress Syndrome Caused by Pneumonia due to COVID-19.

- Population pharmacokinetics of hydroxychloroquine sulphate in healthcare workers given for prophylaxis against Corona Virus Disease 2019 (COVID-19) pandemic in India.
- Efficacy and safety of GutGard in the management of gastro-esophageal reflux (GER)-related symptoms - A Phase III, single centre, double-blind, parallel group, randomized placebo-controlled trial.
- Population pharmacokinetics of hydroxychloroquine sulphate in healthcare workers given for prophylaxis against Corona Virus Disease 2019 (COVID-19) pandemic in India.
- Evaluation of single dose pharmacokinetics of Primaquine (15mg base) and its metabolite Carboxyprimaquine in patients with moderate hepatic dysfunction in comparison with normal participants.
- A Single-Arm, Multicenter Phase Iiib Clinical Trial to Evaluate the Safety and Tolerability of Prophylactic Efficizumab In Hemophilia a Patients with Inhibitors.
- Evaluation of population pharmacokinetics of Levetiracetam in patients with epilepsy.
- Evaluation of the utility of genotyping in patients with Budd Chiari Syndrome Versus Standard of care to assess impact on bleeding and costs - A randomized control trial.
- Evaluation of Genotyping and Therapeutic Drug Monitoring vs. only Therapeutic Drug Monitoring as a strategy for Risk Minimization in epileptic patients on Phenytoin therapy: A Randomized Controlled Trial.
- Evaluation of Genotyping and Therapeutic Drug Monitoring vs. only Therapeutic Drug Monitoring as a strategy for Risk Minimization in epileptic patients on Carbamazepine therapy: A Randomized Controlled Trial.
- An audit of all the consent declines in randomized consent trials during COVID-19 pandemic at a tertiary care centre in India.
- Association of BCG vaccine strains and COVID-19 morbidity and mortality globally.
- An audit of studies registered for COVID-19 infection with the Clinical Trials Registry of India.

Community Medicine

- Costing of Health Services in Different States of India.-Dr. Gajanan D Velhal.
- A Multi-centric study to assess exposure and health effects of pesticides on general population -Dr. Gajanan D Velhal.
- Study to Evaluate the Effectiveness of BCG vaccine in Reducing Morbidity and Mortality in Elderly individual in COVID-19 Hotspots in India- Dr. Rujuta Hadaye is the P.I.

Dentistry

- Achieving haemostasis in patients with Hemophilia.
- Dental care in medically compromised patients.
- Correlation of chronological age of individual with anthropological parameters and dental status.

Dermatology, Venerology and Leprosy

- Role of Dermoscopy in the diagnosis of axillary pigmentation. A Descriptive Observational Cross sectional study of epidemiological & clinical factors of childhood vitiligo along with dermoscopic analysis.
- A Descriptive Observational, Cross-sectional study of Clinical and epidemiological aspects of Palmoplantar keratoderma and its effect on the quality of life.
- A descriptive,cross sectional,observational study of hair loss in children with dermoscopic analysis.
- A descriptive,observational,cross sectional study of clinic-epidemiological aspects of photodermatitis in Indian population.
- A descriptive,cross sectional observational study of clinic epidemiological aspects of superficial fungal infection in children.
- A descriptive, observational, cross seudy of clinic epidemiological and histopathological aspects of primary localized cutaneous amyloidosis and its effect on the quality of life of the patient.
- A descriptive observational and cross sectional study of clinic epidemiological and pathological aspects of cicatricial alopecia in children.
- A descriptive, observational, cross sectional study of epidemiological and clinical aspects of pityriasis rosea along with dermoscopic analysis.
- A descriptive,observational,cross sectional study of clinic epidemiological study of LPP.
- A randomized double blind,multicentric, phase 3 study to evaluate the long term safety and efficacy of Baricitinib in adult patients with atopic dermatitis.

- Study of correlation of subclinical thyroid dysfunction and anti-thyroid antibodies in adult vitiligo patients.
- A cross sectional study to detect the presence of steroids in fairness and beauty creams available over the counter in india.
- Is vitiligo a metabolic syndrome?

Endocrinology

- Prospective Study of Adrenal Masses - CT Imaging Features and their histopathological co- relation
- Cross sectional study of bone mineral density and renal tubular function in postoperative cured patients of primary hyperparathyroidism.
- Percentage Arterial Enhancement: An Objective Index for Accurate Identification of Parathyroid Lesions in Primary Hyperparathyroidism”
- Study of efficacy (and its predictors) of gonadotropin therapy in male IHH (Idiopathic Hypogonadotropic Hypogonadism) Patients.
- Prevalence of primary aldosteronism in patients with type 2 diabetes mellitus and hypertension: Prospective study from western India.
- A pilot randomized clinical study assessing the non- inferiority of calcium channel blockade over alpha blockade on hemodynamics stability in the management of Pheochromocytoma/Paraganglioma
- Effectiveness of various diagnostic tests in Cushing Syndrome: A retrospective analysis.
- Range of salivary cortisol (morning and late-night), and Overnight dexamethasone suppressed serum and salivary cortisol in chronic renal failure patients.
- Performance of ⁶⁸Ga-DOTATATE, ¹³¹I –MIBG and ¹⁸F–FDG PET in localisation of PPGL– a single centre experience.
- Radionuclide therapy in Pheochromocytoma / paraganglioma (PPGL): single centre experience.
- Retrospective study of parathyroid carcinoma cases single center experience from western india”.
- Vitamin D dependent rickets Type I and Type II : Single center experience
- Genotype phenotype correlation in Indian Patients with Congenital Adrenal Hyperplasia due to 21- α hydroxylase deficiency
- Retrospective analysis titled: Clinical, Biochemical and Genetic profile of Patients with Congenital Adrenal Hyperplasia due to 11- β Hydroxylase deficiency.
- A prospective observational cohort study to identify the utility of risk-based screening strategy for long term complications in adolescent and adult cancer survivors of leukaemia and lymphoma.
- Clinical, biochemical, radiological characteristics and treatment outcomes in patients with adrenal cushing’s syndrome: A retrospective analysis.
- Retrospective analysis of Insulinoma Cases evaluated at tertiary care referral center in western India.
- Clinical, Biochemical and Radiological characteristics of patients with Growth Hormone Deficiency and combined pituitary hormone deficiency – A Retrospective analysis.
- Retrospective assessment of outcomes in clinical management of patients with Cryptorchidism with Congenital Hypogonadotropic Hypogonadism: Single Center experience and review of literature.
- To retrospectively analyse clinical, hormonal, radiological features and management outcomes of Primary hypophysitis.
- Retrospective analysis of the phenotypic and genotypic spectrum of mutation proven POU1F1 patients and to compare them with the published literature.
- Head and Neck Paraganglioma: Retrospective Study of Disease Spectrum and Outcome.
- Ambulatory blood pressure monitoring in pheochromocytoma –paraganglioma: A retrospective study.

Forensic Medicine

- Sudden cardiac Death in Young Individuals & Need of Molecular Autopsy.
- Informative campaign Identify me on ante mortem detail identifiers for missing and unidentified persons.
- Age estimation from skeletal and dental maturity indices in the age group of 12-21 years in Indian population.
- A study of injuries to Neck Structures in cases of hanging with special ephasis on salivary glands changes.
- Medico legal and socio Demographic study of death due to burns at tertiary care center.
- Operationalization of victim centric multi-disciplinary care of survivor of sexual violence at One Stop Centre at a tertiary care hospital in a metropolitan city.
- Evaluation of Post Mortem CSF Serotonin Level: Comparison of suicidal verses non suicidal deaths at tertiary care hospital.

Gastroenterology

- A study of gonadal function in male Budd Chiari syndrome (BCS) patients before & after app EC-PHARMA-07/2017: Phase II, Randomized, Double-blind, Placebo-controlled, multicenter
- A study to evaluate the efficacy (maintenance of remission) and safety of Etrolizumab compared with placebo in patients with moderate to severe active Ulcerative Colitis who are naive to TNF appropriate therapy inhibitors.
- An open label extension and safety monitoring study of moderate to severe ulcerative colitis patients previously enrolled in etrolizumab phase ii/iii studies.
- Evaluation of the role of capsaicin on intestinal permeability, visceral hypersensitivity and gut TRPV1 receptors in patients with irritable bowel syndrome.
- Predictors of Early Mortality and Readmission In Alcoholic Cirrhosis Patients Presenting With First Decompensation.
- Post-paracentesis leak in patients with Cirrhosis of liver: A Prospective Study
- Evaluation of the utility of genotyping in patients with Budd Chiari syndrome versus standard of care to assess impact on bleeding and costs.
- A Phase 3, Randomized, Double-Blind Study to Evaluate the Safety and Efficacy of Tenofovir Alafenamide (TAF) 25 mg QD versus Tenofovir Disoproxil Fumarate (TDF) 300 mg QD for the Treatment of HBeAg-Negative, Chronic Hepatitis B.
- A Phase 3, Randomized, Double-Blind Study to Evaluate the Safety and Efficacy of Tenofovir Alafenamide (TAF) 25 mg QD versus Tenofovir Disoproxil Fumarate (TDF) 300 mg QD for the Treatment of HBeAg Positive, Chronic Hepatitis B.
- Paracentesis Induced circulatory Dysfunction (PICD) in Patients with Budd Chiari syndrome.
- Correlation between esophageal histology, 24 hr pH metry and high definition endoscopy in patient with refractory GERD.
- Combined phase 3, Double-blind, Randomized, Placebo-Controlled Studies Evaluating the Efficacy and Safety of Filgotinib in the Induction and Maintenance of Remission in Subjects with Moderately to Severely Active Crohn's Disease.
- A Long-Term Extension Study to Evaluate the Safety of Filgotinib in Subjects with Crohn's Disease.
- A Randomized, Double-blind, Placebo-controlled, Phase 2 study to Evaluate the Testicular safety of Filgotinib in Adult Males with Moderately to severely Active inflammatory Bowel Disease.
- Gonadal function in male NCPF & EHPVO patients.
- COVID-19 pandemic and inflammatory bowel disease from patients prospective a survey from western India.

General Surgery

- Microbiological spectrum of surgical site infection and different types of perforation peritonitis- Thesis of Dr. Abhishek Dhakad under Guidance of Dr. Mahadeo Garale.
- Factors that predict the need for surgical intervention in conservatively managed acute traumatic SDH. Thesis of Dr. Shubham Tapadiya under Guidance of Dr. Shilpa Rao
- Mortality trends in trauma patients. Thesis of Dr. Tanvi Dalal under guidance of Dr. Shilpa Rao.

Hematology

- Micro particles versus thrombin generation assays as predictive tests for dosage adjustment of bypassing agents in hemophilia patients with inhibitors.
- Defining immunological markers for response to therapy in patients with aplastic anemia.
- Cytogenetic and molecular study of Myelodysplastic syndrome in Indian Population.
- Telomerase activity and telomere gene mutations in aplastic anemia.

Collaborator

- ICMR

Medicine

- Prevalence and Clinical Profile of Hypertensive Patients with Thyroid.
- Clinical Profile and ABPM Parameters in patients of Acute Coronary Syndrome.
- Comprehensive Geriatric Assessment of geriatric patients and their views regarding healthcare.
- Current practices in geriatric healthcare and views among interns and medical professionals.
- Clinical profile & cognitive function in elderly hypertensives.
- Study of ADRs of anti-hypertensive drugs.

- Clinical profile & cognitive function in elderly hypertensives.
- Study of ADR s of anti-hypertensive drugs.
- To study the outcome of COVID 19 patients who have received Remdesiver or Tocilizumab or their combination during their treatment in a tertiary care Hospital.
- Study of clinical profile and factors associated with outcome in acute liver failure in an Intensive Care Unit.
- Study of clinical profile of pregnant patients with Thrombocypopenia requiring admission to Medical Intensive Care Unit of a tertiary Care Hospital.
- To study the outcome of COVID 19 patients who have received Remdesiver or Tocilizumab or their combination during their treatment in a tertiary care Hospital.
- Study of Clinical profile outcome in patients with Hepatitis B.
- Clinical profile of Dengue patients within Oxygen Involvement of Tertiary care Hospital.
- Clinical profile of Cerebral Venous Thrombosis (CVT).
- Role of Vitamin D and angiotensim in endothelial dysfunction among COVID 19 Patients from Mumbai, Maharashtra
- Study of clinical profile of patients admitted with urinary tract infection and their clinical outcome.
- Prevalence of discordant HIV couples and factors impacting sero discordance and fertility intentions.
- Study on clinical profile of acute encephalitis syndrome.
- Clinical profile of AKI in covid patients.

Microbiology

- A comparison of eight different RT PCR assays for detection of SARS CoV 2 – experience from a SARS CoV 2 testing laboratory
- HIV 1 viral load testing in patients on ART- experience from a tertiary care public hospital, western India.
- Comparison of CBNAAT and Taqman48 for HIV 1 viral load testing
- Seroprevalence of Hepatitis D in HBsAg positive patients at a tertiary care hospital
- Utility of laboratory diagnostic tests in women suspected of genital tuberculosis attending a tertiary care teaching hospital.
- Oral swab as an alternative specimen for diagnosis of pulmonary tuberculosis
- Evaluation of diagnostic performance of Xpert MTB/RIF Ultra assay in suspected tuberculous meningitis cases in tertiary care setting.
- Bacterial spectrum in patients with acute exacerbation of COPD (AE-COPD) and associated comorbidities.
- Microbial profile of liver abscess in patients attending surgery department at tertiary care centre.
- Incidence and bacteriological spectrum of ventilator associated pneumonia in adult intensive care unit patients.
- Fecal carriage of carbapenem resistant Enterobacteriaceae in a tertiary care teaching hospital.
- Biofilm production in isolates recovered from bone and joint infections.
- Prevalence of *Streptococcus pneumoniae* carriage in the upper respiratory tracts of school going children.
- Urinary tract infections in post renal transplant patients.

Neonatology

- NeoAMR: Global Neonatal Sepsis Observational study. (NeoOBS): A prospective cohort study of sepsis in hospitalized neonates
- Fluid restriction for term infants with HIE following perinatal asphyxia: A RCT
- Neonatal Palliative Care in India - Current Scenario
- Platelet distribution width-association with neonatal sepsis
- An Audit of Human milk bank at a tertiary care public hospital in Mumbai
- Mother to child HBV transmission
- Evaluation of neonatal skin condition score in NICU-an observational study
- A quality improvement initiative to reduce device related skin injuries in NICU
- A quality improvement initiative to increase the donation of milk to the human milk bank post COVID 19 Pandemic.
- Kangaroo mother care in neonates with birth weight of 2000g -2500g: A Quality improvement study
- Administration of surfactant in labour room: a quality initiative study.
- Diagnostic accuracy of neutrophil to lymphocyte ratio in neonatal sepsis in comparison to body fluid culture: A retrospective observational study.
- Post INSURE administration of Heated Humidified High Flow Therapy versus Nasal Continuous Positive Airway Pressure in Preterm Infants more than 28 weeks gestation with Respiratory Distress Syndrome: A Pilot Trial

- Reduction in early onset sepsis by improving infection control strategies in delivery room post pandemic period - A quality improvement study.
- Neonatal BPD outcome estimator for prediction of BPD in Indian preterm population: A prospective observational study.
- Current practices of Neonatal palliative care in India.
- Improving routine use of analgesia for venepuncture in tertiary level nicu - A QI study.
- Implementation of Direct Observed Procedural Skill in Super Speciality residence doctor in Neonatology: an observational study.

Collaborator

- International: NeoAMR Global Neonatal Sepsis Observational Study (Neo OBS) - a prospective cohort study of sepsis in hospitalized neonates.
- Facility Based Newborn Care in collaboration with National Reproductive and Child Health Program of Ministry of Health & Family Welfare, Government of India.
- Ophthalmic evaluation of normal babies and High Risk NICU graduates in collaboration with KB Haji Bachooali Charitable Ophthalmic and ENT hospital, Mumbai.

Nephrology

- Study of clinical and laboratory features and long-term outcomes of patients of Distal Renal Tubular Acidosis and results of mutation analysis by genetic testing.
- Dual blockade of Renin Angiotensin Aldosterone system (RAAS) in primary glomerulonephritis.
- Incidence, risk factors and outcomes of post-transplant Tuberculosis in Indian renal transplant recipients.
- Incidence, risk factors and outcomes of renal side effects of Anti-Tubercular drugs used for MDR and XDR Tuberculosis.
- Incidence, risk factors and outcomes of ABMR in Indian post renal transplant patients.
- To compare clinical outcomes between twice weekly and thrice weekly haemodialysis in CKD patients.
- Diarrhoea after kidney transplant: A study of risk factors and outcomes.
- Role of diuretics in acute kidney injury (AKI) and predictors of response to diuretics and outcomes of AKI.
- Clinical profile and outcomes of patients with malignant hypertension and kidney disease.
- Complement system abnormalities in patients with atypical HUS and their impact on clinical outcomes.
- Effect of Atenolol in CKD patients on haemodialysis with uncontrolled hypertension.
- Study of long-term renal outcomes in patients with pregnancy associated acute kidney injury.
- Renal tubular dysfunction in patient with lupus nephritis.
- Neonatal AKI: Study on etiology, clinical profile and outcomes.
- Efficiency of SLED in critically ill patients with AKI.
- FLOW- Effect of Semaglutide versus placebo on the progression of renal impairment in subjects with Type 2 Diabetes and Chronic Kidney Disease.

Neurology

- A Prospective, multicentric, Randomized, Double Blind, Placebo Controlled Phase II Clinical Study to Compare the Safety and Efficacy of PMZ-1620 Therapy along with Standard Supportive Care in Subjects of mild to moderate Alzheimer's disease.
- A prospective, multicentric, post-marketing surveillance to assess safety & efficacy of perampanel in Indian patients as an adjunctive treatment in partial onset seizures with or without secondary generalized seizures in patients with epilepsy aged 12 years or older.

Neurosurgery

- Scientific evaluation of series of patients undergoing the surgical management of complex neurosurgical tumors and lesions are being conducted.

Collaborator

- IIT Mumbai on proteomic study of pituitary tumors.

Nuclear Medicine

- Validation of stomach accommodation volume with nutrient test (in collaboration with GI Medicine department and Nuclear Medicine department of TMH)
- Role of FDG PET/CT in autoimmune encephalitis.

- Role of FDG PET/CT in staging of LABC and non LABC (breast cancer).

Obstetrics and Gynecology

- Correlation of clinical-laboratory-sonography parameters in patients of gestational diabetes mellitus with maternal and fetal outcome.
- Comparison of different treatment modalities in gestational diabetes mellitus (GDM) and its maternal and fetal outcomes.
- Injuries and interventions in sexual assault case in a comparative study in various age groups
- Caesarean Scar Defects- Histopathological Comparative Study of Caesarean and No Caesarean Cases.
- Non-obstetric causes of abdominopelvic pain
- Maternal and perinatal outcomes in women with congenital heart disease.
- Massive obstetric haemorrhage and its maternal and perinatal outcomes- a retrospective and prospective observational cohort study.
- Chronic renal disease in pregnancy- maternal and fetal outcomes.
- A study of pelvic and abdominopelvic cystic masses in women.
- Effect of body mass index (BMI) and weight changes during gestation on perinatal and maternal outcome- a prospective observational comparative study.
- Surgical site infection in post lower segment caesarean section- epidemiology, causes and prevention.
- Maternal obstetric trauma to the genital tract following vaginal delivery.
- Congenital fetal malformations and pregnancy outcome.
- Maternal and fetal outcome in women with mitral valve disease of rheumatic origin.
- Analysis of conservative surgeries in prolapse at a tertiary care center.
- Analysis of ICU admissions for obstetrical indications at a tertiary care center.
- First trimester vaginal bleeding and pregnancy outcome.
- Analysis of maternal and fetal outcome in case of oligohydramnios.
- A study of various causes of thrombocytopenia in pregnancy and their effect on maternal and fetal outcome - a retro prospective study.
- An analysis of prenatal invasive testing in obstetrics at a tertiary care center- a retro prospective study.
- An observational analysis of usage of antenatal ultrasonography and its determinants and the impact on pregnancy outcome
- Clinical audit of maternal mortality in a tertiary care center- an observational retro prospective study.
- Analysis of stillbirth as per recode classification.

Occupational Therapy

- Cognitive Abilities In Late Adulthood Age Groups.
- Effectiveness Of Occupational Therapy In Patient With Stroke,Receiving And Not Receiving RTPA.
- Knowledge, Attitude And Practise Of Child Care And Development Among Working And Non-working Parents In Nuclear Family.
- Efficacy Of Parent-child Interaction Guidance In Children With Regulatory Disorder Of Sensory Processing Between The Age Group Of 7 Months To 3 Years.
- The Effect Of Selective Voluntary Motor Control Training On Gait And Adl Of Children With Spastic Cerebral Palsy.
- School Readiness In Children From Private And Government Preschools In Mumbai City:A Comparative Study.
- Compliance And Patient Perception Of Jaipur Foot Prosthesis Among Below Knee Amputee Patients.
- Effectiveness Of An Ergonomic Intervention Program In College Students Carrying Backpack In Metropolitan City,Mumbai.
- Effect Of Client Centered Approach On Percieved Self-efficacy And Quality Of Life In Administrative Office Workers With Chronic Pain.
- Effectiveness Of Toe-out Gait Modification Pattern On Pain And Function In Patients With Knee Osteoarthritis.
- ONGOING PROJECTS
- Correlation of Muscle Tone to - Muscle Tone and Voluntary Control in UMN lesions.
- To study the relationship between voluntary control and muscle tone in upper extremity and their implication on function- A correlational study.
- Assessment of duration using canalith repositioning maneuver and habitual exercises on Benign paroxysmal postural

vertigo. - A Randomized control trial.

- Effectiveness of Pilates as an adjunct to occupational therapy intervention for pelvic stability, gait and functional mobility in stroke - A Randomized control trial.
- Parental expectations from health care providers of pediatric wards in tertiary care hospital on the basis of Family centered approach.
- Assessment of feeling difficulties in children of 2 to 5 years of age using SCOPE-IT Frame of Reference.
- Stressors in parents of school going children with Attention Deficit Hyperactivity Disorder in the age group of 6 to 12 years and perceived barriers in Occupational Therapy program participation.
- Effectiveness of Graded motor imagery versus Cross-education for improving upper limb functions in distal radius fracture.
- Effectiveness of Client-centered ADL training program for improving Upper Extremity function in Subacute Adhesive Capsulitis: A Randomized Control Trial.
- Risk of work related musculoskeletal disorders (WSMDs) and Efficacy of ergonomic program among nursing students.

Ophthalmology

- Evaluation & management of chemical burns with their visual outcomes in 88 cases.
- Evaluation of incidence and causes of raised IOP in Post-Operative penetrating keratoplasty.
- Cross sectional study of the prevalence of retinal breaks and detachments among myopes and non myopes in tertiary care hospitals.
- Study of etiology and clinical profile of unilateral and bilateral disc edema in tertiary health care hospital.
- Cross sectional study of OCT macula findings in case of diabetic retinopathy according to its severity.

Orthopedics

- Comparative analysis of diffusion tensor imaging in compressive vs non-compressive myelopathy.
- Skull base morphometric analysis in congenital basilar invagination.
- Comparative analysis of regular and high horizontal offset stem on stability in bipolar hemiarthroplasty for fracture neck of femur.
- Study of clinical outcome of restored and non-restored posterior femoral condyle in total knee replacement.
- Patient satisfaction after unicondylar knee replacement.
- Patient satisfaction after total hip replacement.
- Comparative study of the functional outcomes of intercondylar lower humerus fractures in adults stabilised by Bicondylar plate VS stabilised by lateral condylar plate with multiple inerecondylar
- Functional outcome of Pott's fracture treated by percutaneous TBW for medial malleolar fracture and single intramedullary k wire fixation for tibia
- Outcome of new cost effective silicone template for 2 stage reconstruction of infected TKR.
- Prevalence of sleep disorders in post TKR patients.
- Does fully coated uncemented stem cause stress shielding of proximal femur.
- Morphometric study of the patterns and variation of glenoid in western population in india.
- Clinico Radiological study to compare USE of proximal femoral nail and dynamic hip screw in unstable inter trochanteric fractures of femur.
- Short term results of endoscopic discectomy.
- Radiology and ct morphology of distal radius and ulna in indian women.
- Role of pet ct in evaluation of status of healed lesions in spinal tuberculosis.
- Clinicoradiological and functional outcome of multiligament reconstruction of knee : a retrospective study.
- Clinico radiological outcome in operated patients of mdr tb spine a single centre retrospective analysis.
- Evaluation of soft tissue injuries associated with proximal tibia fractures.

Pathology

- Gall bladder project - Comparison of incidence of precursor and pre-invasive lesions of the gall bladder in patients operated for chronic cholecystitis and cholelithiasis in endemic and non-endemic regions in India with Tata Memorial hospital, Mumbai.

Pharmacology and Therapeutics

- Assessment of physico-chemical properties of the *bhasma* and evaluating the effect of *bhasma* on animal model of parkinson's disease.
- To evaluate anti-allergic and immunosuppressive potential of *Boerhaavia diffusa* in experimental animals.
- Evaluation of effect of *Cynodon dactylon* and *Asparagus racemosus* on implantation in mice and its mechanism of action.
- Evaluation of perception and knowledge regarding changes in regulatory status of FDC in postgraduate students of tertiary care hospital.
- Evaluation of effect of acamprosate in animal models of epilepsy and epilepsy induced depression.
- Evaluation of simvastatin and atorvastatin in temporal lobe epilepsy in Wistar rats.
- Evaluation of drug use pattern, adherence to treatment guidelines and awareness of lifestyle modification in PCOS patients: An observational study.
- To evaluate the efficacy of nanoparticles studded electro-spun nano-fibres on wound healing in a streptozotocin induced diabetic rat model.
- evaluation of minocycline in post-traumatic stress disorder induced in wistar rats with alcohol use disorder.
- Mass spectrometry based early detection of potential biomarkers for cervical cancer in Indian women.
- An experimental study to evaluate the antidepressant potential of metformin in conditioned defeat model in golden syrian hamsters.
- Evaluation of management of hyperglycemia during perioperative period in surgical patients of a tertiary care hospital
- Evaluation of the effect of metformin on trinitrobenzene sulfonic acid (TNBS) induced acute and chronic colitis in BALB/c mice
- Evaluation of the effect of memantine on complete Freund's adjuvant (CFA) induced rheumatoid arthritis (RA) in Wistar rats
- Evaluation of drug awareness, adherence and prescription pattern in chronic primary open angle glaucoma (CPOAG) patients presenting to the ophthalmology OPD in a tertiary care hospital
- Evaluation of effect of dextromethorphan on post- traumatic stress disorder model in C57BL/6 mice
- Evaluation of the clinical outcome, prescription patterns and cost of treatment in patients with lupus nephritis in a tertiary care hospital
- Experimental evaluation of hypnotic and antidepressant effect of pine needles of *Cedrus deodara*.
- To study disease and drug awareness, prescription patterns and self-medication practices in patients of functional bowel disorder
- Evaluation of neuro-protective effect of sinomenine in 6-hydroxy dopamine induced parkinson's disease in Wistar rats.
- A prospective, active-controlled, randomized, observer blind, comparative, parallel, 2-arm study to evaluate the efficacy and safety of oral Myostaal forte, a polyherbal formulation as chondroprotective in patients suffering from osteoarthritis of knee.
- A randomized, placebo-controlled, double blind study to evaluate the effect and tolerability of *Withania somnifera* on physical performance, biomarkers of inflammation and muscle status in healthy volunteers.
- Evaluation of the role of capsaicin on intestinal permeability, visceral hypersensitivity and gut TRPV1 receptors in patients with irritable bowel syndrome
- Prospective, open label, multicentre, single-arm, post-marketing study for evaluation of safety and efficacy of favipiravir in adult Indian patients with mild to moderate COVID-19 disease.
- *Ashwagandha* for the prophylaxis against SARS CoV-2 infection: A randomised hydroxychloroquine controlled clinical trial in health care providers.
- A prospective, multicenter, randomized, double-blind, phase III study to compare the efficacy and safety of biosimilar adalimumab injection of Enzene Biosciences Ltd. with HUMIRA® (adalimumab) injection in subjects with active Ankylosing spondylitis (AS).
- An open label, randomized, multicentric, comparative clinical study to evaluate the efficacy and safety of Oro-T oral rinse (IN-100000264) in mitigation and treatment of oral mucositis during cancer radiotherapy with or without chemotherapy in head and neck cancer patients.
- Evaluation of antidepressant and anxiolytic effect of minocycline in alcohol abstinence induced depression model in mice.
- Evaluation of the effect of *Rubia cordifolia* on angiogenesis and wound healing.
- Evaluation of the protective effects of *Aegle marmelos* and *Phyllanthus emblica* in an animal model of intestinal mucosal barrier dysfunction.

- Treatment awareness, adherence and variation in prescription pattern in COPD patients: A cross sectional questionnaire based study.
- Evaluation of neuroprotective effect of metformin in 6-OHDA induced parkinson's disease in Wistar rats.
- experimental study to evaluate the effect of niacin in chronic unpredictable stress induced depression in Wistar rats.
- Evaluation of the effect of pregabalin in monosodium iodo-acetate induced osteoarthritis in Wistar rats.
- A cross-sectional questionnaire based study to evaluate the medication adherence and control of disease in asthmatic patients in a tertiary care hospital.
- An analysis of medical post- graduate thesis registered in the clinical trials registry of India in the year 2018.
- Evaluation of the prescription pattern of drugs in different OPDs of a tertiary care hospital [ICMR-RUD task force project].
- Prophylaxis for COVID-19 among health care workers in India: A cross sectional study [ICMR-RUD task force project].
- ICMR-RUMC COVID-19 Study for the Assessment of Prophylaxis for Health Care Workers [ICMR-RUD task force project].

Physiology

- A Pilot study to find the correlation of sleep body posture and BMI with severity of apnoea in obstructive sleep apnoea syndrome.
- Effect of duration of smart phone use on heart rate variability in young adult males.
- Assessment of lung function by using spirometry in post -menopausal women.
- A study to assess the readiness in first year MBBS students towards self-directed learning by self-rating scale of self-directed learning.

Physiotherapy

- Correlation of severity and perceived disability of pain with scapula posture in neck pain patients.
- Effect of rotator cuff pathology on scapulohumeral rhythm in arm elevation.
- Correlation of head posture, deep cervical flexor muscle endurance and simple reaction time in young healthy adults.
- Comparison of cervical proprioception and simple reaction time in subjects with brachial plexopathies and healthy adults.
- Correlation of laterality discrimination task with cervical joint position sense and pain in patients with chronic non-specific neck pain
- -Association between fear-avoidance belief, neck disability and pain in patient with chronic non-specific neck pain.
- Effect of self-stretching of lumbo-pelvic muscles on pain, range of motion and function in patients with chronic low back pain
- Correlation between functional ability and fear of fall in osteoarthritic Knee Patients.
- Correlation of lower extremity coordination and speed of walking in elderly.
- Correlation of Postural Control with Fear of Fall in healthy elderly.
- Correlation of paediatric clinical test of sensory interaction for balance and visual classification scale.
- Correlation between visual classification scale score and pediatric reach test distance in children with cerebral palsy.
- Association of Patient Perceived Quality of Life, Depression and duration with severity of Facial paralysis in subjects with Lower Motor Neuron Facial Palsy
- Effect of Kinesio Taping on Hand Function in Subjects with Stroke.
- Comparison of Pulmonary functions in Young Adults with and without Forward Head Posture
- Comparison of Six-Minute Walk Test Distance Among Overweight Subjects With Apple and Pear Shaped Body Fat Distribution.
- Perception of patients on long term oxygen therapy about participatory roles and daily activities and quality of life.
- Two Minute Step Test: Estimating normative reference values in healthy adults.
- Agreement between VO₂max estimated from six minute walk test and chester step test in normal adults.
- Comparison of effect of Flow and Volume incentive spirometry on peak expiratory flow rate and single breath count in post sternotomy.
- Pre-discharge functional testing of patients with covid-19: a retrospective analysis.
- Retrospective analysis of effect of single sitting of physiotherapy on single breath count and breath holding time in covid-19.

- Correlation of smartphone usage with functional capacity in young adults.
- Retrospective analysis of oxygen saturation and balance in subjects with covid- 19.
- Telerehab experiences while treating patients with adult neurological disorders during the covid-19 pandemic.
- Effect of cognitive training on balance and functional mobility in young adults.
- Correlation of peak expiratory flow rate and single breath count in normal adults.

Pediatric Anesthesia

- Comparison of sevoflurane and propofol for maintenance of anaesthesia in paediatric MRI.
- Cascade sign for optimal positioning of central venous catheter tip using ultrasound – a prospective pilot study.
- Feasibility and efficacy of low flow sevoflurane anaesthesia administered through face mask during MRI in.

Pediatric Surgery

- Rotasil Vaccine Intussusception Surveillance in Kerala, Karnataka, Maharashtra and Gujrat, India.
- Role of laparoscopy in the management of Disorders of sex development.
- Role of Holmium:YAG laser versus electrocautery for Posterior urethral valve fulguration in paediatric patients.
- Laparoscopic management of Paediatric Intraabdominal cystic lesions.
- 'Birth Defect Clinic'_ An Integrated approach to perinatal management of antenattaly diagnosed anomalies.
- Initial experience with 3D laparoscopic choledochal cyst excision and hepaticoduodenostomy in children.
- Early experience of Three-dimensional (3 D) minimal access surgery in Paediatric age group in a tertiary care institute.

Pediatrics

- A Phase III, randomized, open study to assess the immunogenicity, reactogenicity and safety of two different formulations of GlaxoSmithKline (GSK) biologicals' oral live attenuated human rotavirus vaccine, Rotarix, when given as a two-dose primary vaccination, in healthy infants with no previous history of rotavirus illness or vaccination.
- A Phase IV randomized, controlled study of the safety and immunogenicity of Rabishield + Rabivax S post exposure prophylaxis regimen in patients with potential rabies exposure.
- Immune Lot-to-lot Consistency and Non-Inferiority of SHAN6™ Vaccine in Comparison to SHAN 5® + SHANIPV™ When Administered as Three Doses at 6-8, 10-12 and 14-16 Weeks of Age in Healthy Indian Infants, Concomitantly with Oral Rotavirus Vaccine.
- Clinico epidemiological and laboratory profile of acute disseminated encephalomyelitis in children-an observational study.
- Barriers against sustained exclusive breast feeding: a case control study.
- Prospective and observational study of etiology and outcome of hematemesis in children.
- A comparative study between low dose and high dose iron therapy in children with iron deficiency anemia.
- An observational cross sectional study of iron overload in Gaucher disease.
- Pattern of inotrope use in a pediatric intensive care unit of a tertiary care center.
- To study clinic radiological correlation of computed tomography (CT) brain in children aged between 1 month to 12 years.
- Reliability and reproducibility of tuberculin test in diagnosis of childhood tuberculosis.
- Delayed medical attention in monsoon related illnesses: Causes, risk factors and impact on outcome.
- Etiology, patterns and trends of poisoning and animal bites in children.
- Effect of infant feeding practices on growth.
- Emotional intelligence of students with specific learning disabilities.
- An observational study of the risk factors for occurrence of febrile seizures and its recurrence in children.
- Economic burden of Gaucher disease in a tertiary care hospital.
- Use of non-invasive ventilation in a tertiary care pediatric intensive care unit.
- To study the efficacy of chelation therapy on serum ferritin level in pediatric thalassemia patients aged between 18 months to 12 years.
- Indicators and risk factors for inappropriate complimentary feeding practices in study population: A case-control study.
- Risk factors for Severe Acute Malnutrition in study population- A case control study.
- Risk factors for Hypocalcemic seizures in infancy: A case control analysis.
- Assessment and Response of Clinical and Arterial Blood Gas Parameters During Initiation of Noninvasive Ventilation in Pediatric Intensive Care Unit.

- Patterns of Screen Use Time and its Effect on Health Of Children Aged 5 to 12 Years.
- An observational cross-sectional study of adherence to antiepileptic medications in children and to determine the factors associated with non-adherence.
- Clinico-etiological spectrum of infections in children with Nephrotic syndrome.
- An observational study of current practices of enteral nutrition in patients admitted to a tertiary care pediatric intensive care unit.
- An observational study of the pattern of use of analgesics, sedatives and neuromuscular blocking agents in a tertiary care pediatric intensive care unit
- Study of the etiology and clinical profile of hepatosplenomegaly in children 1 month to 12 years of age in tertiary care centre.
- Patterns and outcome of patients admitted to pediatric Intensive Care Unit in a tertiary care centre. MUHS PICU fellowship project 2019.
- Study of Clinico-etiological correlation of partial seizures in children between 1 to 12 years.
- Evaluation of prescription patterns and off label drug use in pediatric ICU of tertiary care center (2019-2021).
- Parental perceived health related quality of life of students with Borderline Intellectual Disability.
- Economic burden of language barrier : A prevalence based cost of illness study on its direct, indirect & intangivle costs.
- A study of barriers to prenatal testing of genetic diseases in children.
- Prescription pattern & direct cost analysis of levetiracetam in a tertiary care hospital.

Plastic Surgery

- Paediatric burn study.
- Geriatric burn study.
- Study to assess awareness about breast reconstruction.
- Study to assess quality of life in burn survivors.
- Evaluation of two point discrimination in hands.

Psychiatry

- A cross-sectional study of depression, sleep quality & body image disturbances in pregnant women.
- Study comparative study of depression, anxiety, stress and coping strategies in primary caregivers of patients with obsessive compulsive disorder and depression.
- A Cross-Sectional Study of Depression, Self Esteem, Body Image Disturbances and Quality Of Life in Patients with Acne Scars.
- Study of quality of life in patients with recurrent depression: analysis of dyadic effects of dyadic effects.
- A cross sectional study of stress, anxiety, depression and quality of life among parents of intellectually disabled child.
- A study of prevalence of substance use and perceived stress in medical UGs and PGs in a medical college.
- Study of sleep patterns, depression and life satisfaction in patients coming to geriatric out-patient department in a tertiary care center.
- A study of subjective illness experience, self-identified causes, help seeking behaviour and stigma in patients with opioid addiction.
- Study of comorbidity, aggression and parenting style in children suffering from disruptive mood dysregulation disorder-impact of functional impairment.
- A study of depression, alexithymia, personality profile and perceived stress in patients of functional gastrointestinal disorders.
- A cross sectional study of depression, self-esteem, body image disturbance and quality of life in patients of androgenetic alopecia.
- A cross sectional study of suicide risk and personality profile in patients of alcohol use disorder.
- A cross sectional comparative study of psychopathology, Quality of life and Burden in caregivers of patient with Alcohol use disorder and other substance use disorder.
- Comparative study of copying in patients with eating disorders.
- A Retrospective Analysis of Psychopathology in Children and Adolescents with Refractory Epilepsy before Epilepsy Surgery.
- A cross sectional study on prevalence of gaming disorder and correlation of self-esteem, parenting style, perceived stress and sleep quality with gaming in college students.

- Study of suicidality, clinical profile and quality of life in patients of early onset Schizophrenia.
- A Cross Sectional Study of Impact of Nicotine Dependence on Psychopathology, Quality Of life And Cognitive Impairment in Patients with Schizophrenia.
- A Qualitative Study on Understanding Sexuality, Sexual Functioning and Marital Relationships in Women with Schizophrenia.
- A Cross Sectional Study of Depression, Perceived Stress, Self Esteem and Sleep Quality among the Women with Infertility.
- Study of Factors Associated With Functioning In Patients With Major Depressive Disorder.
- A Cross Sectional Study of Depression, Self Esteem, Body Image Disturbances and Quality of Life in Patients of Psoriasis.
- Assessment of stress levels, anxiety and depression in parents of children with autism.

Surgical Gastroenterology

- Objective Evaluation OF Effect Of Octerotide On Pancreatic Texture in Patients Undergoing Pancreatico-Duodenectomy.
- Evaluation of the Outcome In patients with chronic pancreatitis undergoing Frey's Procedure and Subjective and Objective Improvement Post-procedure.
- Lymph Node Mapping In Patients OF Carcinoma Colon.
- Outcome of Patients with Carcinoma Gall Bladder.
- Assessment Of Pulmonary Function after Laparoscopic Heller's Cardiomyotomy in patients of Achlasia Cardia.
- Changing Trends In Carcinoma Gall-Bladder.
- Long Term Follow-Up of Patient of Choledochal Cyst.

Transfusion Medicine

- Screening for Thalassemia in Antenatal women in a Tertiary Care Hospital.
- An assessment of adverse donor reactions during voluntary donation of whole blood.
- The study of clinical and Immunohematological profile in patients of autoimmune hemolytic anaemia.
- A study of effect of Therapeutic plasma exchange on biochemical parameters in a patients at tertiary care hospital.
- A study of red cell antibody profile in patients of covid-19 in a tertiary care center.

Urology

- Outcome of dorsal buccal mucosal graft urethroplasty in female urethral strictures.
- Study to assess super- added calculi over retained ureteral stents.
- Comparison of length and volume of testis as a parameter for assessing semen analysis among infertile patients.
- Study the prevalence of urolithiasis, impact of intervention and factors affecting outcome in patient of CKD.
- A study to assess the role of percent free PSA, PSA density and PSA velocity for prostate cancer detection.
- Study of natural history, clinical presentation, modes of management and role of tacrolimus in stricture urethra with BXO.
- Study of radiation cystitis in Indian population.
- Renal transplant pre and post op evaluation.
- Study of mt DNA mutations in bladder cancer.
- To evaluate Osteopontin as predictor of stone formation by its quantification in the urine of healthy volunteer and stone forming patient.
- In vitro and in vivo functions of cell surface estrogen receptors in prostate cancer,
- Mutations in ca bladder - a retrospective pilot study.
- PSP94 as an adjunct marker for serum PSA.
- Prevalence of LUTS and PVR in ambulatory relatives aged 45 years and above visiting hospital.
- To speculate nomograms of pediatric UFR.

In the Limelight

In the Limelight

Anesthesia

Overnight commissioning of ward 5 as 35 bed COVID – ICU.

ICU 6 seven hills hospital contributed Department of Anaesthesia, KEM Hospital.

Cardiology

- A 7-year-old child suffering from an inherited disorder Familial hypercholesterolemia with coarctation of aorta and coronary artery disease was diagnosed and managed with intervention- Balloon coarctoplasty and angioplasty with stent to LAD. This was one of the many pioneering tasks performed by the department of cardiology.
- State-of-the-art video conferencing system
- Refurbished seminar room
- High flow nasal oxygen delivery device
- Central monitoring system in cardiac ICU
- Advanced anaesthesia for cath lab



Clinical Pharmacology

- Allergy OPD started once a week (Wednesdays) with Dr Sunita Chappola Shukla as Visiting Consultant (Allergologist) from October 2020.
- Dr. Nithya Gogtay ranked among the top two percent Scientist in India by the Harvard University.
- Clinical trial of Covishield vaccine of Serum Institute of India was conducted by the department.

Community Medicine

- On 12th November, observation of World Diabetes Day
- Pledge taken to END stigma related to Tuberculosis on 6th Feb 2020
- Packets of nutritional support distributed to Tuberculosis patients on 24th January



- Health talks to ANC women during ANC aarogya satra activity at Khadavli RHTC



- Supervisory visit to Khadavli RHTC by senior faculty

Dermatology Venereology & Leprosy

- Vitiligo Day 2020- Awareness and counselling program



ENT

- Dr. Nilam Sathe's quote was published in Times of India newspaper on PPE burnt in open in May 2020

Gastroenterology

- Jt. Director In-charge of Regional Organ and Tissue Transplant Organisation (ROTO) - State Organ and Tissue Transplant Organisation (SOTTO) located at KEM hospital for Govt and Govt of Maharashtra.
- On the technical resource group Govt MoHFW for National viral hepatitis control program.
- Formulation of Asia Pacific guidelines for management of Acute on Chronic liver failure.
- Honorary Steering committee member of VALDIG, EASL, Europe - Organ donor awareness lectures.

Microbiology

- Setting up of Covid testing Lab: Times of India – Mumbai Edition 21st March 2020

Medicine

Dr. Nitin Sarate: Guest speaker at National Television Doordarshan in Arogyasampada show on topic –Iron Deficiency Anemia in Pregnancy

Neonatology

- Observer-ship Training Program in Facility Based Newborn Care: January 2020.

Nephrology

- Bedside dialysis for critical care in MICU ward 6, ICU ward 4a, 5.



- Establishment of India's first tubulopathy clinic.

Neurology

- Dr. Sangeeta Ravat had Chaired a session on comprehensive epilepsy surgery online course VI (Prof and HOD) has delivered following lectures in 2020
- Dr. Neeraj Jain Radio talk on Epilepsy myths on epilepsy day.

Neurosurgery

- Dr. Atul Goel Ranked 1st in Indian Neurosurgery as per Stanford publication of top 2% Scientists of world.
- 5 articles in top 100 articles published on the subject of atlantoaxial instability, including 2 in the first 5 articles. Publication World Neurosurgery 2020.

Occupational Therapy

- World OT day celebration in Nov 2020



Orthopaedics

- Department has started UG Orthopaedics Quiz.



Paediatric Anaesthesia

- Dr Raylene Dias receiving KPR Young Anesthesiologist award by ISA Kerala.



Pharmacology

Faculty participated as speaker in the collaborative program initiated by Astra Zeneca for post graduate students across the country

A banner for the PHARMASTEER 2020 ORIENTATION PROGRAM, 28th November 2020, organized by AstraZeneca. The banner features four speakers: Dr. Sandhya Kemat (Professor and Head, Department of Pharmacology and Therapeutics, Seth GS Medical College, KEM Hospital, Mumbai, India), Dr. Padmaja Marathe (Professor Additional, Dept of Pharmacology and Therapeutics, Seth GS Medical College & K.E.M. Hospital, Mumbai, India), Dr. Viraj Rajadhyaksha (Area Medical Director Middle East and Africa AstraZeneca), and Dr. Anil Kukreja (Vice President Medical Affairs and Regulatory, Bangalore, India). The banner also includes the AstraZeneca logo, a decorative lamp, and the text "Inauguration" and "Webinar Managed By riveerroute Digital Events".

Physiology

- 6th National Conference on One Health – Science Updates on Prevention of Diseases of Public Health Importance (Zoonotic diseases) in collaboration with Veterinary College and Millennium India Education Foundation.

Physiotherapy

- Jaimala Shetey had been Panelist on the webinar on 'Exercise as Medicine' organized by PhysioTV and Sancheti college of Physiotherapy. Nov 2020.

Surgery

- Dr. Dalvi was appointed President of Association of Surgeons of India, the national body, for the year 2021.
- Dr Abhay Dalvi has delivered 4 orations in different states of India

Urology

- Dr.Sujata Patwardhan appointed as Director of ROTTO since Oct 2020

Looking Ahead

Looking Ahead

Anatomy

- Modification and Promotion of virtual teaching and learning and assessment
- Air-conditioning and up-gradation of Dissection Hall and Microanatomy Laboratory
- Collaboration with clinical departments to make virtual skills learning modules
- Procurement of virtual dissection table and/or dissection software to facilitate teaching learning process

Anesthesia

- OT Complex of Two Floors in the New Building
- Replacements of old equipments.
- 10 bedded AICU
- 10 bedded HDU
- State of art super-specialty operation theatres.
- Peri-operative management of liver transplant surgeries.

Biochemistry and Clinical Nutrition

- Collateral implementation of LIMS/HIMS for improvement of turnaround time and easy accessibility of patient data;
- To procure high throughput analysers for enhancing patient services
- Implementation of CBME along with AETCOM;
- Devising newer approaches for SDL, Introduction of ECE to facilitate better correlation of basic sciences with clinical subjects; To sustain vertical & horizontal integrated teaching
- Starting of MD Biochemistry course in Dept of Biochemistry, Seth G S Medical college, Mumbai.
- Conducting research and to collaborate with national and international agencies to diversify and upgrade research activities

Cardiac Anesthesia

- Improvement in academics and infrastructure of the department for better health care management and simultaneous education of young minds
- Equipment addition for better patient care: TEE machine, High end anesthesia workstation, Thromboelastography for blood management in the perioperative period.
- Involvement and establishment of Heart Failure program including ECMO, VAD, Heart Lung Transplant

Cardiology

- A 24/7 program for emergency care of all heart attack patients:
The incidence of heart attacks is on the rise in patients of all ages and economic backgrounds. Time is of the essence and emergency care, in the form of either thrombolysis (clot-buster drugs) or angioplasty, can be life saving. Emergency angioplasty or pharmacoinvasive therapy (thrombolysis followed by angioplasty) is the international standard of care for heart attack. It is our aim that this state-of-the-art interventional therapy be available 24/7 within the golden period to all citizens of Mumbai, irrespective of their affordability.
- Transcatheter valve replacement clinic:
KEM Hospital is the largest referral center for valvular heart disease (VHD) in the state of Maharashtra. We offer a wide range of interventional and surgical procedures for these patients. Transcatheter valve replacement is the latest advance in interventional cardiology and offers a minimally invasive alternative to surgery to thousands of high surgical risk patients of all age groups. These include post-operative young patients of congenital heart disease as well as the elderly with degenerative valve disease. Again, we have the technical expertise and manpower to perform these sophisticated procedures. However, the hardware costs continue to remain out of reach for a majority of our patients. A dedicated MCGM sponsored program will transform KEM Hospital into a regional centre of excellence. This can help further bring down costs and offer this advanced modality to all deserving patients.

- Advanced Heart Failure and Arrhythmia Clinic:
Proposing to start three dimensional electro-anatomical mapping and ablation of arrhythmias which is the new standard of care for the interventional treatment of complex cardiac rhythm disorders.

Chest Medicine and Environmental Pollution Research Center

- Establishment of Diploma in Allergy & Immunology.
- To develop breath analysis as non-invasive diagnostic modality.
- National environmental Lung Health Institute transdisciplinary translational approach to lung health.
- Establishment of genetic Lab (molecular diagnostic)
- Interventional pulmonology suite

CVTS

- Establish minimally invasive cardiac surgery program
- Hybrid procedures (open with endovascular) like Transcatheter aortic and mitral valve replacement, aortic surgeries etc. after setting up of hybrid operation theatre
- Cardiac transplant and assist device surgery after setting up a modular operation theatre
- Heart failure clinic
- ECLS (extracorporeal life support) with availability of ECMO machine (Extracorporeal membrane oxygenator)
- Video Assisted Thoracoscopy surgical services

Clinical Pharmacology

- To develop, standardize and validate methods for determination of plasma / serum levels for the following drugs in human samples for providing patient services – tacrolimus and mycophenolate mofetil and vancomycin in collaboration with Gastroenterology department
- To start genotyping for TPMT and NUDT15 for optimizing therapy with Azathioprine
- To develop an “Advanced Pharmacodynamic Centre” capable of carrying out pharmacodynamic research and activities

Dermatology, Venerology and Leprosy

- Better examination facilities for patients, celebration of national and international dermatological days, posters and pamphlets in OPD educating about common dermatological conditions and their prevention
- Campus and infrastructure- Strengthening services in dermatosurgery with facility of a minor operation theatre for performing small day care surgeries.
- Planning to install UVA1 chamber in the department.
- Planning more innovative procedures in dermatology like iPRF therapy and lasers in cosmetology.

Dentistry

- Plan to improve dental care in patients with haemophilia and other bleeding disorders.
- Dental care in medically compromised patients.
- Oral hygiene awareness in students of municipal schools in and around Parel.
- Oral hygiene awareness in pregnant patients.
- Habit counselling in patients addicted to tobacco, paan and mawa chewing.
- Department is in the process of procuring OPG Machine (ORTHOPANTOMOGRAM) and the papers are with accounts department.
- Department plans to procure RVG (RADIOVIDEOGRAPHY) in near future.

Endocrinology

- Establish Foot Care Clinic.
- Diabetes services to be enhanced to curtail number of patients visits.
- Diabetes prevention programme.
- Establish clinic for “Disorders of sexual development”.
- Establish clinic for Neuro Endocrinology.
- Thyroid Sonography.

- Establish patient support group.
- Establish clinic for Obesity.
- Establish clinic for Endocrine Oncology.
- Establish molecular endocrinology laboratory.
- Establish Endocrine Oncology referral centre.
- Establish regional referral Centre for genetic diagnosis in endocrine disorders.
- Establish genotyping in patients with congenital adrenal hyperplasia.
- Establish newborn screening programmers in congenital hypothyroidism and congenital adrenal hyperplasia.
- Further research in pharmacogenetics in various endocrine disorders like Diabetes Mellitus Osteoporosis etc.
- Increasing number of national and international publications.
- Start a diabetes Educators programme for nursing staff/ Medical social worker.
- Fellowships in Pediatric and Adolescent Endocrinology and Reproductive Endocrinology.

Forensic Medicine

- Mortuary Modernization: To enforce standards of operational requirements for professionalization of management of deceased with services including forensic radiology, forensic pathology, clinical toxicology and poison information centre, humanitarian forensic anthropology and odontology.
- Non-Invasive Autopsy: Virtual Autopsy will employ imaging methods such as CT, MRI, 3D surface scanning to integrate body documentation with 3d scene or tool scans. This will allow preservation of body & findings digitally and observer independent documentation of evidence with standardized data acquisition procedure.

Gastroenterology

- Hepatology: Starting liver ICU and liver transplant program.
- Endoscopy: Starting enteroscopy, cholangioscopy and third space endoscopy services.
- Pediatric Gastroenterology: Starting pediatric gastroenterology program with pediatric gastroenterology OPD, wards, training of residents in pediatric gastroenterology.
- Hepatology fellowship for post DM/ DNB gastroenterology candidates.
- Fellowships in Pediatric gastroenterology, endoscopy and motility disorders
- Hepatology: Formulation of guidelines for Budd-Chiari syndrome, hepatocellular carcinoma Luminal
- Research in Gastroenterology: Gaps in patient care in IBD, Covid 19 GI symptoms and outcomes, Health care utilization during Covid 19.

General Surgery

- Upgrading OT lights in 2 Operation theatres
- One more HD Laparoscopy set will be acquired which will enhance our capacity to offer minimal access surgery.
- Breast services acquiring new instruments for newer modalities of treatment like vacuum assisted biopsy machine, Brachytherapy centre, Gamma Camera etc.

Hematology

- To increase the bone marrow transplants.
- To have a dedicated Bone Marrow Transplant ward.
- To improve diagnostic facilities in department.
- To do data collection and presentation and publication

Microbiology

- Rapid identification of microorganisms (10 minutes) - MALDI-ToF
- PoC RT-PCR for COVID-19 (TAT 15 minutes) – Abbott ID Now
- Expanding the capacity of molecular testing
- Completion of the laboratory infrastructure for molecular laboratory and BSL 3 laboratory

Neonatology

- Up gradation of Human Milk Bank.

Nephrology

- To establish dialysis unit in ward 10 for COVID positive patients.
- To expand CAPD programme specifically catering to patients with HIV/AIDS
- To establish a dedicated Paediatric Nephrology clinic
- To introduce certificate course in acute dialysis for dialysis nurses and technicians
- To expand the deceased donor renal transplantation programme
- To expand swap transplant programme
- To computerize the records of the department of nephrology

Neurology

- Planning to start for Vagal Nerve Stimulation for Epilepsy Patients.
- Planned for Stroke Ward.
- Plan to start Deep Brain Stimulation for Parkinson's patients.

Neurosurgery

- Plan to develop state of art recovery room for neurosurgical patients.

Nuclear Medicine

- Starting PET/CT based investigations using Ga labeled radiopharmaceuticals and Lu-177 based therapies for neuroendocrine tumours
- Starting MD in Nuclear Medicine and MSc in Nuclear Medicine
- Radiation synovectomy for hemophilic patients and PET/CT based myocardial perfusion and viability studies.

Obstetrics and Gynecology

- Establishing Assisted Reproductive Techniques (ART) facilities.
- High Dependency unit (HDU) in labour ward.
- Endoscopic surgery OT is planned to be commissioned on a regular basis.
- Recovery room with monitoring facilities for Obstetric OT and Gynecology OT.

Occupational Therapy

- The department has a vision of establishing a state of art department of Occupational Therapy reflecting the latest trends and technological care imparted by the professionals, improvised over the last 70 years. We also wish to set up a unique rehabilitation care center for the physically and mentally handicapped with facility of disability evaluation, driving evaluation and visual rehabilitation.
- We wish to incorporate an orthotic and prosthetic department at the Occupational Training School & Center of Seth GS Medical College and KEM Hospital. We want to expand on already piloted project of early intervention of high risk infants through telemedicine in rural parts of Maharashtra. Additionally, we are encouraging ultra early intervention of high risk babies through Neonatal Therapy through National Medical College Network.
- We wish to develop E-learning programs for distant learning and education. We also wish to start an integrated Masters Program and Short Certificate Courses at the University Level.
- The objectives of research have always been a part of the student programs. We look forward to collecting data for standardizing scales on the Indian population in different fields of Occupational Therapy for the purpose of assessment & intervention.
- Renovation of the department portraying the specialty areas developed in the past years, incorporating the facility of internet and intranet at Occupational Therapy Department. We will soon having high tech driver simulation and visual rehabilitation unit in the year 2021.

Ophthalmology

- Cornea Speciality Clinic with Corneal Topography with aberrometry, Cross Linking Facility and LASIK for refractive surgeries
- Glaucoma- Automated Fields (Octopus)
- ERG and VEP

- ROP screening with Retcam
- Weekly community screening OPD- Glaucoma and Diabetic Retinopathy
- Paediatric vision screening using portable photorefractor
- Cataract, Cornea and Retina surgical simulator for ophthalmology students
- Ophthalmic museum

Orthopedics

- Planning to procure the following equipments:
 1. Navigation system for spine and arthroplasty surgery.
 2. Intra operative O- arm.
 3. 3 advance arthroscopy system.
 4. Robotic set up in theatre complex.
- 5 year plan for department of Orthopaedics KEM Hospital.
 1. Modular operation theatre (8 theatre with HDU on the same floor complex – 4th floor)
 2. Expansion of Department area (6th floor) in view of MCI guidelines.
 3. Speciality OPD services in Orthopaedics OPD complex. (In arthroplasty, shoulder, Knee, paediatric orthopaedics, Spine, Joint preservation surgeries)
 4. Sports Medicine Center.
 1. Establishment of paraplegic rehabilitation center
 2. Establishment of dedicated intensive care unit with bed capacity of 8 for orthopaedics.
 3. Upgradation of operative rooms with navigation, neuromonitoring, power instruments and cell saver.
 4. To start MUHS recognized fellowships in the subspecialty of Spine, Arthroplasty and Arthroscopy.
 5. Apart from annual PG training course which was 1st started three years back department is planning to start 2 days orthopaedics course for undergraduates.
 6. In 2018 department of Orthopaedics KEM Hospital started 1st orthopaedics foundation course for MS Orthopaedics new registered candidates. It is a lead step in the country taken up by department of Orthopaedics Seth G. S. Medical College.
 7. Organizing KEM Trauma life support course.
 8. Department is going to celebrate Orthopaedic department day in the month of February consisting of paper presentation acknowledgement of publications & books, Instructional course lecture, workshops Socio - academic events & community outreach events.

Pediatric Anesthesia

- Request for faculty rooms and seminar room has been made.
- Proposal for new equipment (LMA's, airway equipment, MRI compatible laryngoscopes) has been sent.
- Replacement of old equipment.

Pediatric Surgery

- Plan to start comprehensive Pediatric Endourology Setup.
- Dedicated Pediatric urology clinic
- Start robotic surgery

Pediatrics

- Initiation of new Pediatric Gastroenterology OPD.
- Increase in teaching units from 3 to 4.
- Initiation of Fellowship Programs in Learning Disabilities.
- Establishment of Core Committee to monitor the on-going research projects in the Pediatric Department.
- Renovation and restructuring of Pediatric Research laboratory (PRL) with more emphasis on research in rare inborn errors of metabolism.

Pharmacology and Therapeutics

- Various research projects are being planned under the ICMR-RUMC task force project.

Physiology

- We intend to develop an efficient Exercise Physiology Laboratory
- To acquire & upgrade existing equipment's for the purpose of research
- We intend to search Sports talent in MCGM school children on the basis of physical skill assessment
- Assessment of Physical fitness in normal citizens
- Assessment of Taste and Smell in patients

Physiotherapy

- To procure multi station gym, treadmill, portable PFT, maximum inspiratory pressure measure, portable oxygen concentrator, Balance master and EMG biofeedback
- Modernization and digitalization of lecture rooms

Plastic Surgery

- Upgrade burn services to have a burn ward for male patients
- To start project for burn prevention along with other groups across the world (grant from UK once approved).

Psychiatry

- Project – Drug Treatment Centre (DTC) Scheme, Treatment of Substance Use Disorders in India by MOHFW
- Deaddiction Centre of Department of psychiatry is a Regional Resource and Coordination Centre for the DTC Scheme of Ministry of Health and Family Welfare. In addition to the DTCs started since March 2015 new DTCs will be established in the coming year. Induction Training for the newly recruited staff will also be conducted.
- Psychosocial Support Cell Helpline will be continued to further expand the reach of psychosocial support services to people affected with COVID 19, their families and the Health care workers.

Surgical Gastroenterology

- To strengthen our Liver Transplant and Bariatric/ Metabolic Surgery Program.
- To start Telemedicine Clinics with links with other GI surgery Departments in India.
- To collaborate with AIIMS, and ICMR in the upcoming research projects.
- To start Robotic Surgery
- Plan to provide more facilities for the patient and patients relatives.

Transfusion Medicine

- Full automation in ELISA testing
- Full automation in Component Separation and Extraction.
- Computerization in Blood Bank
- To increase voluntary blood collection to 50,000 annually.
- Continuation of NABH Accreditation.
- To implement Haemovigilance programme of India constituted by National Institute of Biologicals, Ministry of Health & Family Welfare, Govt. of India and upload all the Donor Adverse Reactions and Transfusion Reactions in the website

Urology

- Sanction purchase of cutting-edge Robotic system to boost Minimal Invasive Surgery programme in Dept of Urology, KEMH.
- RIRS Workshop, March-2021
- Laser Prostate surgery, May-2021
- Demonstration of Xi Robotic platform

Institutional Contribution towards COVID-19 Pandemic

Institutional Contribution towards COVID-19 Pandemic

Critical Care Committee for COVID

Head: Dr. Hemant Deshmukh

Members: Dr. M Y Nadkar, Dr. Charan Lanjewar, Dr. Tushar Bandgar, Dr. Tukaram Jamale, Dr. Indrani Chincholi, Dr. Amita Athawale, Dr. Smrati Tiwari, Dr. Kavita Joshi, Dr. Vishal Gupta

Anatomy

- Faculty members and Resident doctors were involved in COVID duties like ward duty, logistics, HR, COVID war room
- Infrastructural support for COVID-19 Work as listed below: for storage of PPE kit, for training programmes of staff members during COVID
- Publication: Iyer P, Telang A. Impact of Online Teaching and Assessment on Teachers and Students of Medicine and Allied Health Science Courses during COVID-19 Pandemic. Inarch 2020: Bulletin of GMU BIOETHICS UNIT

Anaesthesia

- Participated on national and international Webinars related to COVID as below:
- 'Managing Mental Health of Covid Warrior' – Dr. Harish Shetty, Dr. Samudara Sawant. 27th July, 2020.
- Organised and moderated webinar on "Managing Mental Health of Frontline Covid Warriors" by ISA Mumbai branch.
- Intensive Care and Covid. By RSACP Mumbai branch..Panel discussion by Dr. Indrani Hemantkumar
- "Resuscitation in COVID-19 patients- current guidelines and practices" by Dr. Sanjeevani Zadkar
- "Anesthesia in Covid recovered patients-challenges" organized by Dr. Indrani Hemantkumar
- Our Staff also was part of the teaching and training faculty for residents/paramedics/nurses for COVID management.
- Publication: 'Reinventing Anaesthesia in Times of Covid-19' Dr. G. R. Gangakhedkar, Dr. Indrani Chincholi. Journal of Anaesthesiology Clinical Pharmacology, Vol. 36, Issue 5, 2020.
- Our Department is also involved in a ICMR- SII sponsored clinical trial on COVID-19 vaccine – COVISHIELD as collaborator with Department of Clinical Pharmacology



Biochemistry and Clinical Nutrition

- Android application (KEMH Covid-19 Patient LineList.apk) for online data management of Covid-19 patients during COVID-19 pandemic.
- CoVIEW – KEMH Covid-19 Data Monitor', a web-based portal for Online Data Management of Covid-19 patients during Covid-19 pandemic.
- Developed KEMH Covid-19 Swab Reports, KEMH Covid-19 Patient Occupancy Data and KEMH Covid-19 Important Drugs Database. These android apps have empowered with secured hassle-free management of patient line-list, swab-reports line-list and archiving, Hospital Bed Occupancy Data as well as Database related to Important Drugs related to Covid-19 Management.
- Certificate of Appreciation from BD company for working as COIVID WARRIOR during covid-19 pandemic to all the staff members
- Department staff provided their services in the form of logistics services for smooth functioning and management of various COVID wards and to support clinical staff of KEM Hospital to better serve patients during covid-19 pandemic.
- Departmental staff received various packed food items, steamers and PPE kits from various charitable organizations during covid-19 pandemic.
- Teaching during covid-19 pandemic
 - o During COVID-19 pandemic when physical classes were not possible, virtual classroom (Google classroom) was created.
 - o Lectures on various topics were recorded (Audio-visual MP-4 video) and uploaded in Google classroom and Telegram student group.
 - o Online training of selected students was taken for preparation of Annual Biochemistry Quiz Competition using Zoom meeting and WhatsApp group applications.
 - o Audio-visual sessions on various Practical topics were recorded and uploaded in Google classroom and Telegram student group.
- Publications:
 1. Anita Chalak, Rachana Sabharwal, Megha Bangar et al. Impact of COVID-19 on biochemical parameters: A narrative review. JK Sciences 2020 (in press).
 2. Megha Banger, Supriya Khillare, Anita Chalak, Shalini Maksane* Study of organ function test parameters and their predictive value in COVID-19 Patients: A Retrospective Study. IJBSM 2020 (IN PRESS).
 3. Shalini Maksane, Megha Banger, Supriya Khillare, Anita Chalak. Biochemical markers in patients with mild and severe COVID-19 infection. JK Sciences 2020 (in press).

Cardiology

- Our department is proud to have made significant academic, policy and on-field contributions for management of the pandemic and COVID cardiac & non cardiac patients.
- Dr. P G Kerkar, Professor and Head of Department authored guideline document for STEMI and heart failure management for the Cardiological Society of India. This document paved way for management of these conditions for cardiologists and physicians throughout India.
- Dr. Charan Lanjewar, Professor and Head of Unit, is an integral part of KEM COVID 19 Critical Care Committee. He has helped strategise management of both COVID and non-COVID cardiac patients.
- Dr. Hetan Shah, Dr.Girish Sabnis & Dr.Dhiraj Kumar worked hard for the management of the COVID patients in KEM hospital and also in the Covid dedicated Seven Hills hospital.
- Dr Dhiraj Kumar helped compose the MCGM-Seven Hills Hospital COVID management protocol.
- The department also mobilised grants of two Fisher & Paykel High Flow Nasal Oxygen Cannula systems from Rotary Club of Mumbain Western and 3000 disposable bedsheets from the Sanyog Trust to aid the KEM COVID response.
- Publications:
 - Cardiological society of India position statement on COVID-19 and heart failure. Harikrishnan S, Mohanan PP, Chopra VK, Ambuj R, Sanjay G, Bansal M, Chakraborty RN, Chandra S, Chattarjee SS, Chopra HK, Mathew C, Deb PK, Goyal A, Goswami KC, Gupta R, Guha S, Gupta V, Hasija PK, Wardhan H, Jabir A, Jayagopal PB, Kahali D, Katyal VK, Kerkar PG, Khanna NN, Majumder B, Mandal M, Meena CB, Naik N, Narain VK, Pathak LA, Ray S, Roy D, Routray SN, Sarma D, Shanmugasundaram S, Singh BP, Tyagi SK, Venugopal K, Wander GS, Yadav R, Das MK. Indian Heart J. 2020 Mar-Apr;72(2):75-81. doi: 10.1016/j.ihj.2020.04.012. Epub 2020 May 13.

- Cardiological Society of India: Document on acute MI care during COVID-19. Kerkar PG, Naik N, Alexander T, Bahl VK, Chakraborty RN, Chatterjee SS, Chopra HK, Dani SI, Deb PK, Goswami KC, Guha S, Gupta R, Gupta V, Hasija PK, Jayagopal PB, Justin Paul G, Kahali D, Katyal VK, Khanna NN, Mandal M, Mishra SS, Mohanan PP, Mullasari A, Mehta S, Pancholia AK, Ray S, Roy D, Shanmugasundarm S, Sharma S, Singh BP, Tewari S, Tyagi SK, Venugopal KN, Wander GS, Yadav R, Das MK. Indian Heart J. 2020 Mar-Apr;72(2):70-74. doi: 10.1016/j.ihj.2020.04.009. Epub 2020 May 6
- Cardiological society of India document on safety measure during echo evaluation of cardiovascular disease in the time of COVID-19. Gupta R, Das MK, Mohanan PP, Deb PK, Parashar SK, Chopra HK, Shrivastava S, Guha S, Goswami KC, Yadav R, Alagesan R, Amuthan V, Bansal M, Chakraborty RN, Chakraborti N, Chandra S, Chatterjee A, Chatterjee D, Chatterjee SS, Dutta AL, De A, Garg A, Garg VK, Goyal A, Goyal NK, Govind SC, Gupta VK, Hasija PK, Jabir A, Jain P, Jain V, Jayagopal PB, Kasliwal RR, Katyal VK, Kerkar PG, Khan AK, Khanna NN, Mandal M, Majumder B, Mishra SS, Meena CB, Naik N, Narain VS, Pancholia AK, Pathak LA, Ponde CK, Raghu K, Ray S, Roy D, Sarma D, Shanmugasundaram S, Singh BP, Tyagi S, Vijayaraghavan G, Wander GS, Wardhan H, Nanda NC. Indian Heart J. 2020 May-Jun;72(3):145-150. doi: 10.1016/j.ihj.2020.05.016. Epub 2020 May 26
- Pattern of acute MI admissions in India during COVID-19 era: A Cardiological Society of India study - Rationale and design. Ramakrishnan S, Jabir A, Jayagopal PB, Mohanan PP, Nair VK, Das MK, Mandal M, Roy D, Reddy SS, Malviya A, Singh BP, Bharti BB, Majumder B, Karunadas CP, Meena CB, Girish MP, Ezhilan J, Tummala K, Katyal VK, Subramanyam K, Goyal KK, Kenchappa K, Gupta MD, Hanumanthappa NB, Bardoloi N, Modi N, Bhattacharyya PJ, Gadkari P, Patil RR, Murty RS, Baruah R, Krishnappa S, Kumar S, Routray S, Tewari S, Gupta SB, Maduramuthu S, Yerram S, Kumar S, Jadhav U, Manjunath CN, Prabhakaran D, Kerker P, Yadav R, Guha S, Deb PK, Zachariah G. Indian Heart J. 2020 November-December;72(6):541-6. doi: 10.1016/j.ihj.2020.09.004. Epub 2020 Sep 7. PMID: PMC7476577.

Chest Medicine and Environmental Pollution Research Center

- The Department of Pulmonary Medicine and EPRC was involved in catering to both the categories of patients.
- The faculty and residents were involved in providing COVID-19 care to patients at our institute as well as at Kasturba Hospital and Seven Hills Hospital.
- Conducted a retrospective study, 'the presence of platypnea- orthodeoxia in patients of COVID-19 who had hypoxia and this simple- to- use clinical sign helped us tremendously in triaging hypoxic patients.' (CTRI/2020/08/027104)
- Dr. Amita Athavale (Prof. & Head) worked as a Member, State level coordination committee -COVID 19.
- Educational activities:
- Dr. Sonal Karpe (Asst. Prof.), delivered a lecture on Clinical Features and management of COVID-19
- COVID training initiative by MCGM- training on Oxygen therapy was undertaken by Dr Amita Athavale (Prof. & Head) and Dr. Dhiraj Jain (Asst. Prof.) in April 2020
- In NATCON 2020, Dr. Amita Athavale delivered a lecture on COVID-19 management- West Zone experience on 19th December 2020
- In NATCON 2020, Dr. Mahesh Jansari (Asst. Prof.) on Immunity following COVID 19 infection.
- Publication: Athavale A, Khatri V, Athavale T, Deshmukh H, Nataraj G, Bahot R. Review of Clinical Trials in COVID-19: Trying to Solve the Clinicians' Conundrum. Ann Natl Acad Med Sci. 2020 Jul 23;56.

CVTS

- 2 Emergency thoracic exploration for RTA and 2 Limb salvage surgery (Ruptured AVF takedown) were done without RT PCR due to acuteness of presentation
- 5 Emergency Vascular surgery (2 AVF takedown, 2 embolectomy, 1 internal iliac artery ligation for bleeding post caesarean section) were done for Covid +ve patients

Clinical Pharmacology

- Resident doctors of the department of Clinical Pharmacology were actively involved in the COVID ward duties
- Research:

Sponsored studies:

1. A Phase 2/3 Observer-Blind, Randomized, Controlled Study to Determine the Safety and Immunogenicity of COVI SHIELD (Covid-19 Vaccine) in Healthy Indian Adults

2. A Randomized, Controlled, Open Label, Multicentre, Two Arm, Two Dosage, Phase II Study Assessing the Efficacy and Safety of Intravenous Administration of Adult Human Bone Marrow Derived, Cultured, Pooled, Allogeneic Mesenchymal Stromal Cells in Patients with Acute Respiratory Distress Syndrome Caused by Pneumonia due to COVID-19
 3. Multi-Centric, Open label, Two Arm Randomized, Pivotal Phase 2 Trial to Study the Efficacy and Safety of Itolizumab in COVID-19 Complications
 4. Population pharmacokinetics of hydroxychloroquine sulphate in healthcare workers given for prophylaxis against Corona Virus Disease 2019 (COVID-19) pandemic in India
- Academic studies:
 1. An audit of all the consent declines in randomized consent trials during COVID-19 pandemic at a tertiary care centre in India.
 2. Association of BCG vaccine strains and COVID-19 morbidity and mortality globally.
 3. An audit of studies registered for COVID-19 infection with the Clinical Trials Registry of India.
 - Publication: Ranganathan P, Nair D, Gogtay NJ. Addressing challenges due to the COVID-19 pandemic – A site and investigator perspective. *Perspect Clin Res* 2020;11:111-4.

Community Medicine

- This year interns have participated actively in all the COVID management activities within institute and outside. These include airport screening for incoming passengers, CCF OPD, contact tracing, covid wards in KEM , Covid war rooms in liaison with Public Health Department , CCCs , Covid screening and registration at seven hills hospital.
- Response to COVID-19 Pandemic-2020
 - o Screening of passengers at international Airport: 53250 Passengers
 - o 11629 - under IDSP
 - o 2018 stamped for Home Quarantine (from 16 -21 march)
 - o 127 sent to Seven Hills Quarantine facility 6.03.2020 to 21.03.2020
 - o Disaster Cell, MCGM (1916 helpline) 07.03.2020 to 15.06.2020: Outbound calls to travelers screened at airport for follow up; answer general and medical COVID related queries of public; triaging of patients according to criteria into mild, moderate, severe and considering admission in CCC1/2, DCHC, DCH; arrangement of ambulance services for Covid positive patients and deaths due to Covid. Received 2200 to 2700 calls per day
 - o CCF OPD : 21.03.2020 and is ongoing: Runs in collaboration and support from RMOs from 7 other departments. 24X7 OPD works in three shifts: 8am-2pm, 2pm-8pm and 8pm-8am. Testing for COVID-19 done. Suspects are identified and appropriate management given (symptomatic treatment/referral to SARI ward).
- Mohalla Clinics: In collaboration with Public Health Department- 5th April 2020 to 2nd July 2020
- Screening and swab collection of people residing in containment area presenting with symptoms of COVID-19. 3-4 areas covered per day. Average of 60-70 people screened in each area.
- Deputation of resident doctors to work in wards at Kasturba Hospital, to Seven hills hospital - Quarantine facility Seven hills hospital - Isolation facility, CCCs- 13th March 2020 and is ongoing.
- **Awareness initiatives**
- Joint CME on COVID-19 infection with departments of Medicine, Chest Medicine and Microbiology on 4th February 2020.
- Interviews on National Television and Radio.
- Awareness posters in campus-Patient Education Cell
- Awareness sessions in UHTC for Hospital workers and Community.
- Awareness session at GST Bhavan at CST.
- Awareness session Khalsa College, Mumbai.
- Training of healthcare workers on covid-19: 04.04.2020 to 18.04.2020. A total of 1102 HCWs trained (266 Student nurses, 99 Staff nurses, 122 Interns, 350 Residents, 24 Final MBBS students, 240 Class IV employees)
- **Surveillance** : Routine surveillance in IDSP (Integrated Disease Surveillance Programme) – Daily reporting of cases and deaths, CCF OPD 24 hours report.
- SARI surveillance – Daily Reporting from 23.03.2020 and is ongoing.
- HCQ Prophylaxis distribution -26 March onwards, 5490 beneficiaries
- 70,473 tablets dispensed
- **Contact Tracing**
- First case in KEMH was positive on - 8th April 2020. Team established on 9th April 2020.

- Identification of High risk and Low risk contacts of each positive Health Care Worker (HCW) done. Arrangement for quarantine facility and transport for doctors. Preparation of list for swab collection. Total of 715 HCWs have become positive as on 22.12.2020
- Total of 2027 HCWs are Quarantined till date (Cumulative as on 22.12.2020)
- Screening OPD - TK office: 7th April 2020 to 7th May 2020. Screening for employees above age of 55 years, those with co-morbidities and those residing at containment areas was done. Around 70 workers screened per shift.
- Migrant screening OPD- 4th May 2020 to 7th May 2020
- Thermal screening and issuing of medical certificates to migrants for travel. 809 certificates issued.
- Special counselling helpline 7259 (9.30am - 2pm) set up with the help of Department of Physiotherapy and Occupational therapy for answering queries of the health care workers of KEM Hospital- 12th May 2020 – till date. Average of 4-5 calls per day.
- Research: Study to Evaluate the Effectiveness of BCG vaccine in Reducing Morbidity and Mortality in Elderly individual in COVID-19 Hotspots in India- Dr. Rujuta Hadaye is the P.I
- Educational activities:
 1. Physiotherapy COVID- 19 flip chart for use as health education material, for students and learning material for patients.
 2. Physiotherapy COVID-19 pamphlets were made in Marathi and Hindi for distribution to patients attending physiotherapy OPD sessions. The material was sent for Arogya Patrika Maharashtra Government through the dean sir.
 3. Virtual on line presentation session on “COVID 19” for Jail inmates/clients released from Dongri Childrens Home, in collaboration with NGO -PRAYAS on 21 st July 2020.

Dentistry

- Dr. Prasad Bhange presented webinar on post COVID 19 practice.
- All dental residents served as CORONA WARRIORS doing duties in COVID WARDS multiple times in the management of COVID-19 patients along with medical residents.

Dermatology, Venerology and Leprosy

- Regular lectures taken over ZOOM and organized webinars on varies topics for PG students amidst of COVID19 pandemic social distancing norms.

Endocrinology

- Department is a part of COVID Critical care Committee.
- Department was in-charge of a unit at Seven Hills Hospital for care of COVID patients
- Publication: Type 2 diabetic Asian Indians and COVID-19: Lessons learnt so far from the ongoing pandemic. Shivane VK, Lila AR, Bandgar TR.J Postgrad Med. 2020 Oct-Dec;66(4):179-181. doi: 10.4103/jpgm.JPGM_602_20. PMID: 33037170

ENT

- Department has participated actively in Covid duties including Government established Covid centers like Seven Hills Hospital, Kasturba Hospital, NESCO and KEM hospital, while managing outpatient, indoor and emergency services as well.
- Raised Donation for Covid positive patients in the form of bed sheets, diapers and toiletry kits.
- Donations for Health care workers in the form of Vitamins ,high protein snacks, dried fruits, scrubs,PPE, Face shields, steam inhaler, electrical kettle, water dispenser, tea, coffee, spiced tea, horlicks, ORS, butter milk.
- Dr. Nilam U. Sathe was invited speaker by Parleshwar Pratishthan, Mumbai & delivered online informative lecture on covid which was attended by around 1800 viewers on 31st may 2020
- Education: Online Talk on Restarting ENT practice in Covid times
- Patient care: Dr. Nilam Sathe had done endoscopic risky surgery on 7years old child in covid pandemic peak in May 2020 & the news was flashed in various TV channels like Tv 9, ABP Maza Hindi & Marathi, SAAM TV & many news papers like Free press journal, Tarun Bhaarat, Pudhari, Mumbai Sakaal.

Forensic Medicine

- Covid-19 Pandemic: Smooth & efficient Dead Body Management during COVID-19 pandemic period with no incidence of mis-identification or any major issues.
- Successfully implementation of guidelines of ICMR for dead body disposal during pandemic.

Gastroenterology

- Telemedicine services during covid 19 pandemic to help patients to continue follow up and therapy for GI and liver disease.
- COVID services: -
- 8 Residents were posted into Covid 19 wards, ICUs with 2weeks rotation each from April 2020 till September 2020.
- 5 Faculty members were posted in Covid ICU and Wards as Lecturers from May 2020 till September 2020.
- 4 Residents were posted from March 2020 till May 2020 TO Seven Hills Hospital Mumbai.
- Research: EC/OA-133/2020: COVID-19 pandemic and inflammatory bowel disease from patients prospective a survey from western India
- Publications:
- Sarin SK, Choudhury A, Lau GK, Zheng MH, Ji D, Abd Elsalam S, Hwang J, Qi x, Cua IH, Suh JI, Park J6, Putchareon 0, Kaewdech A, Piratvisuth T, Treeprasertsuk 5, Park 5, Wejnaruemarn S, Payawal DA, Baatarkhuu 0, Ahn SH, Yeo CD, Alonzo UR, Chinbayar T, Loho IM, Yokosuka O, Jafri W, Tan S, Soo LI, Tanwandee T, Gani R, Anand L, Esmail ES, Khalaf M, Alam S, Lin CY, Chuang WL, Soin AS, Garg HK, Kalista K, Batsukh B, Purnomo HD, Dara VP, Rathi P, AI Mahtab M, Shukla A et.al; APASL COVID Task Force, APASL COVID Liver Injury Spectrum Study (APCOLIS Study-NCT 04345640).Pre-existing liver disease is associated with poor outcome in patients with SARS Cov2 infection; The APCOLIS Study (APASL CoVID-19 Liver Injury Spectrum Study). *Hepato Int.* 2020 Sep;14(5):690-700. doi:10.1007/s12072-020-10072-8. Epub 2020 Jul 4. PMID: 32623632; PMCID: PMC7334898.
- Wu Y, Li H, Guo X, Yoshida EM, Mendez-Sanchez N, Levi Sandri GB, Teschke R, Romeiro F6, Shukla A, Qi X Incidence, risk factors, and prognosis of abnormal liver 6. biochemical tests in Covid-19 patients: a systematic review and meta-analysis. *Hepato Int.* 2020 Sep;14(5):621-637. doi: 10.1007/s12072-020-10074-6. Epub 2020 Jul 24. PMID: 32710250; PMCID:PMC7380163.
- Shukla A, Mohanka R. COVID 19 and the Liver. *J Assoc Physicians India.* 2020 Nov;68(11):11-12. PMID: 33187029.

In the limelight:

- Nominated as model treatment center for National Viral Hepatitis Control Programme (the only functional center in the state of Maharashtra during Covid pandemic)
- Formulated the standard operating procedure for carrying out the transplants during the covid pandemic for the DHS, Govt of Maharashtra

General Surgery

- Faculty and Post graduate students helped in establishing care and management for COVID19 patients.
- The department provided uninterrupted patient care during the Covid -19 pandemic. Surgical emergencies were managed through out. Surgical ICU was properly maintained with protocols in place to prevent covid exposures in SICU.The Department provided resources in terms of manpower, space and equipment for managing the Pandemic
- Dr.Jignesh Gandhi unit has special focus on abdominal wall reconstruction.
- During the covid times our breast OPD patients were followed on phone, out patients services remained open and in patient services restarted by August 2020 (Chemo and Surgery).
- A Covid 19 Helpline had been started to co-ordinate and follow 50 patients
- Publication: J.A.Gandhi. Surgical Mask-the Saviour: from its Invention to the COVID-19 Era. *Indian J Surg.* 2020 Jun.
- Donations & Grants:
 - o @ 2000 PPE from Lions Club Sion, ASI and other organisations for managing patients during the pandemic
 - o Face shields for protection from RSS, Vidyanagari branch -225
 - o Personal Protective kits for Covid – from SBI
 - o Crocs footwear for foot protection
 - o Received donation for 100 PPE Kits from Ms Anjali Damania in april 2020.
 - o Received 100 N95 masks from Department of Urology in APRIL 2020.
 - o Received donation of 40 PPE suits, 100 face shields and 140 n95 masks from Ms Vritika Mehta.

- o Received 1000 N95 masks and 2000 3 ply masks from vital global foundation in April 2020
- o Donated 1030 FFP1 face masks and 2000 three play masks from Dr. Shilpa rao on April 2020 to KEM Hospital healthcare workers.
- o Rs 10 lakh worth donation (PPE plus N95 masks plus and other supplies) for COVID 19 to department and KEM hospital by S.L Khajanchi family and friends

Hematology

COVID related services: Residents and Assistant professor of department of Hematology worked in COVID wards and Patients of acute leukemia with COVID were investigated and managed.

Medicine

- Faculty from Medicine Department were posted as Unit Heads in Seven Hills COVID Hospital, and NESCO COVID ICU BY Rotation
- Dr. M. Y. Nadkar , Professor
 - o Overall incharge of all Covid facilities in KEMH as administrative and logistic , HR head
 - o Chairperson of Critical Care Committee for serious Covid patients.
- Dr. Santosh Salagre
 - o Covid Isolation Facility Creation In charge
 - o Project in-charge of converting ward 4 into First Covid ICU of 35 beds through CSR activity by Tata Projects which was completed within record 10 days' time and made functional since 22nd April 2020.
 - o In charge of commissioning all 14 Covid Indoor facilities with 400 Covid beds (89 ICU Beds plus 311 non ICU oxygenated beds) and Dialysis facilities for Covid positive cases under the directions and guidance from Hon. IAS officer Manisha Patankar Mhaiskar madam from April to August 2020 by converting various medical / surgical wards in a heritage building into state of the art Covid facilities meeting international standards and following national guidelines of Gov. of India and task force of Maharashtra.
 - o Standard Operating Procedures (SOP's) were prepared for each COVID Ward/ ICUS to guide the residents with regards to functioning of the wards, clinical management etc.
 - o Dr. Santosh Salagre, along with Dr. Nilakshi Sabnis, Asst. Professor were in charge of Oxygenated Bed Augmentation of Emergency Medical Services during ongoing pandemic.
 - o Dr. Santosh Salagre as Project in-charge of converting ward 6 into state-of-the-art Covid ICU through CSR activity by Capgemini which was commissioned on 8th August 2020.
 - o Covid Logistics In charge of Clinical Facilities
 - o In charge of logistics facilities of Clinical Wards and ICUs throughout the pandemic period for all the 14 facilities of the institution.
 - o Covid pandemic training sessions : for resident doctors of institution on 22nd July 2020 and for nursing team members and class IV employees posted in Covid facilities.
 - o Dr. Santosh Salagre was team member of Human Resource Management team for Resident Doctors, Nursing Staff, class IV employees in the Covid facilities
- Covid 19 related seminars/meetings –
 - o Dr Santosh Salagre
 1. Represented GSMC & KEMH in a zoom meeting of Covid 19 State Task Force in presence of Hon. Chief Minister on 10th July 2020 and appraised the team members about the ground situation and challenges faced in fighting the pandemic.
 2. Was interviewed by the editorial team of The Larynx, official publication of Seth GSMC on 10th November 2020 related to 'Opportunities and challenges during Covid 19 pandemic work'
 3. Was invited as guest speaker for the international seminar series on Bioethics and Covid 19 pandemic organized jointly by GSMC MUHS UNESCO Bioethics Unit and department of Bioethics, UNESCO Chair in Bioethics, Haifa on 23rd November 2020, he spoke on Health Profession Education during Covid 19 pandemic- opportunities and challenges
- Expert visiting faculty for development of Covid ICU in suburban region.
Dr. Santosh Salagre was deputed as an expert visiting faculty at HBT trauma centre to develop two Covid ICUs in May 2020.

- Physiotherapy services for Covid patients –
Dr. Santosh Salagre initiated the physiotherapy indoor facilities for the Covid ICU patients of ward 4 and ward 21 since June 2020 in collaboration with Department of Physiotherapy faculty Dr Maria Jianandani and later this facility was further extended
- Mobilizing essential items through donations for Covid Facilities
Dr Santosh Salagre mobilized various essential items required in Covid indoor care management through donations from citizens and NGOs including thousands of PPE Kits, dead body bags, Water dispensers, nutritious food items for the Covid team members etc.
- Dr. Smrati Tiwari

Noteworthy work during Covid Pandemic

- o Establishment of first Covid Isolation Facility Creation : Ward 4A and SARI ward
- o Formulated treatment guidelines sheets as per national and local guidelines for uniformity of patient management.
- o Member of critical clinical committee discussing atypical and difficult clinical cases of Covid
- o Training : for residents of different departments for PPE donning Doffing.
- o Nodal In-charge of local COVID death audit in KEM
- o SOP formulation for different wards of COVID

Month	Female	Male	Grand Total
Mar 2020	12	12	24
Apr 2020	192	311	503
May 2020	637	1171	1808
Jun 2020	583	932	1515
Jul 2020	611	908	1519
Aug 2020	483	847	1331
Sep 2020	436	786	1222
Oct 2020	456	707	1163
Nov 2020	289	481	770
Dec 2020	208	280	488
Jan 2021	26	18	44
Grand Total	3933	6453	10387

- Total admissions in MICU: 616 till Dec.2020 including COVID and Non COVID
Dr. Santosh Salagre :Created Public awareness during pandemic through Doordarshan /Short films , was invited by Doordarshan Sahyadri channel for the live interview on Hospital Management in preparation for Covid 19 pandemic on 29th May 2020 and led the teams to create short films in Marathi, Hindi and English on the Covid facilities at institution created by Faye D'Souza (20th May 2020), Doordarshan (13th June 2020) and Delta System (24th September 2020).
Dr Smrati Tiwari :
 - Speaker on radio mirchi for awareness of public on covid pandemic
 - BBC world, BBC Marathi and BBC English coverage on role of KEM hospital and management of Covid in Covid ICU and sharing personal experience on same Dr. Kaustubh Salagre awarded by Spandan Pratishtan as Front line Covid warriors for dedicated work in Covid 19 pandemic.
 - Various NGO's , GS alumni , other persons donated various items like water dispensers, disposable bed sheets and other equipments needed for the Covid patient care complete renovation of ward 4 as Covid ICU including all medical equipments like ventilators, HFNC Machines etc. from TATA Projects as a CSR Project
Complete renovation of ward 6 as Covid ICU including all medical equipments like ventilators, HFNC Machines etc. from CAP Gemini as a CSR Project.
 - Dr. Santosh Salagre- Member – MCGM Task Force for Covid 19 facility creation and bed augmentation led by IAS officer Manisha Patankar Mhaiskar & Member – Death audit committee for Covid 19
 - Death Audit meetings in F South Office related to Covid.- Dr. Anjali Rajadhyaksha
 - Dr. Smarti Tiwari: Death Audit committee of covid nodal officer & Member of Critical Care Committee for COVID-19
 - Dr. Vishal Gupta- Member of Critical Care Committee for COVID-19.

Publications

1. API Guidelines on Immunizations during COVID 19 Pandemic. J Assoc Physicians India. 2020 Jun;68(6):58-60. PMID: 32610881.

- Guidance for Health Care Providers on Management of Cardiovascular Complications in Patients Suspected or Confirmed with COVID 19 Virus Infection. J Assoc Physicians India. 2020 May;68(5):46-49.
- Mariya Jianadani, Dr Santosh Salagre. Preliminary observations and experience of physiotherapy practice in acute care setup of Covid 19: a retrospective observational study. JAPI, October 2020, Vol.68. 18-21
- Case Report- Sheral T Kachpile, Pramila K Lohakare, Mariya P Jiandani, Santosh Salagre. Physiotherapy Interventions in COVID-19 Patient with Multiple Comorbidities: A Case Report: Int J Health Sci Res. 2020; 10(10):96-101
- Kumar S, De Souza R, Nadkar M, Guleria R, Trikha A, Joshi SR, Loganathan S, Vaidyanathan S, Marwah A, Athalye SN. A two-arm, randomized, controlled, multi-centric, open-label Phase 2 study to evaluate the efficacy and safety of Itolizumab in moderate to severe ARDS patients due to COVID-19. 2020. medRxiv preprint doi: <https://doi.org/10.1101/2020.12.01.20239574>

Microbiology

- RTPCR molecular testing laboratory, the first such medical college laboratory in Mumbai, has been established and testing services are being provided round the clock from 19th March, 2020. 77909 samples have been tested. The laboratory was established through grants received from ICMR and MCGM and is approved by ICMR (DHR/ICMR/VRDL – medical college level). The laboratory accepts samples from multiple hospitals across Mumbai. Kits and consumables are being supplied by from ICMR / State DMER or procured from MCGM.
- Xpert® Xpress SARS-CoV-2 assay has been made available for those patients / specimens requiring urgent results.
- Establishing, coordinating and maintaining of porta cabin for safe specimen collection.
- Rapid antigen test was rolled out from 4th July 2020 and is made available round the clock. 15257 samples have been tested.
- COVID IgG antibody test by ELISA has also been initiated for both patients as well as for HCWs.
- Resident doctors actively participated in community screening for SARS CoV- 2 in containment areas and airports. Samples were collected for RAT / PCR. RAT tests were performed onsite and results released then and there.
- Faculty also participated in activities related to COVID 19 in isolation centers outside KEM as per need.
- Faculty also participated in assessment of other RTPCR testing laboratories.
- Technicians from other upcoming molecular laboratories from both public and private sector were trained in RT-PCR.
- MCGM technicians were trained in RAT testing.
- The RTPCR laboratory has been successfully participating in periodic external quality assessment program as identified by ICMR.
- The department has been identified as a validation centre for RAT assays by ICMR.
- Guidelines were prepared for HIC related activities especially rational use and distribution of PPE including N95. A video on donning and doffing of PPE was also prepared and shared.
- Guidelines were also prepared for specimen collection and transport for RT-PCR.
- Faculty has participated as speakers in various CME programs related to COVID-19.
- The department is actively participating as a testing centre in vaccine trials and in various other research projects for COVID-19.

Covid Testing	
• RT-PCR	77909
• RAT	15257
• Covid antibody	831
Total	93997

Publications:

- Mascarenhas D, Goyal M, Mundhra N, Haribalakrishna A, Nanavati R, Nataraj G. COVID-19 Infection in Newborn Infants. The Indian Journal of Pediatrics. 2020 Nov 27:1-.
- Nataraj G, Ingole N. Laboratory Diagnosis of COVID 19 - Perspectives. J Assoc Physicians India. 2020 Jul;68(7):11-12. PMID: 32602674.
- A Athavale, V Khatri, T Athavale, H Deshmukh, G Nataraj, R Bahot Review of Clinical Trials in COVID-19: Trying to Solve the Clinicians' Conundrum Ann Natl Acad Med Sci (India) 3, 119-125

Neonatology

- Established COVID NICU and COVID isolation section during COVID 19 pandemic.
- Established COVID isolation PNC ward along with Department of Obstetrics.
- Dr. Ruchi Nanavati: Member of expert committee appointed by the Government of Maharashtra. for formulating guidelines on the management of Neonatal COVID 19
- Awareness regarding prevention of COVID 19 in neonates for parents and relatives of babies admitted in NICU.
- A quality improvement initiative to increase the donation of milk to the human milk bank post COVID 19 Pandemic.
- Received donations from Swasth Foundation- for COVID 19 pandemic protection of HCWs such as N95 masks, PPE kits, face shields, neonatal intubation box
- Publication: Dwayne Mascarenhas, Medha Goyal, Nitu Mundhra, Anitha Haribalakrishna, Ruchi Nanavati, Gita Nataraj. COVID-19 Infection in Newborn Infants. Indian J Pediatr Nov 2020

Nephrology

- Establishment of COVID 19 - positive and suspect dialysis units. 1401 dialysis sessions for COVID-19 positive patients and 1064 sessions for COVID-19 suspects patients were carried out in the department till date.
- Establishment of bedside dialysis units in COVID wards- 4, 4a, 5, 6 and EMS ICU.
- Establishment and management of renal high dependency unit in ward 9 catering to COVID-19 positive patients with kidney disease (AKI, CKD and post-transplant recipients). From 29th May 2020 to 24th October 2020, approx. 160 patients were managed in this duration.
- Establishment of post COVID kidney care OPD for patients with kidney disease recovering form COVID-19.
- Total 246 COVID-19 patients who required hemodialysis were managed by the department till date.
- Publications:
 1. Bajpai D, Shah S. COVID-19 pandemic and pregnancy in kidney disease. Advances in Chronic Kidney Disease. 2020 Aug 7.
 2. Bajpai D et al. Haemodialysis Unit Preparedness Checklist developed to deliver safe dialysis during and after COVID-19 pandemic. April 2020 <https://www.georgeinstitute.org/media-releases/haemodialysis-unit-preparedness-checklist-developed-to-deliver-safe-dialysis-during>
- Awards: Dr Satarupa Deb received 2nd prize in Dr. Pravena Shah poster competition at ISNWZ 2020 for paper titled "Repeat COVID RT-PCR positivity in dialysis patients"

Neurology

- Continuous active involvement in covid duties at KEM Hospital & Seven Hills by Neurology residence, senior residence & assistant professors.
- Dr. Neeraj Jain Additional Professor actively involved as 2nd floor incharge managing class 3 and 4 workers.
- Uninterrupted OPD services were given right from beginning of pandemic at usual OPD timing & emergency services for non covid illness was continued.
- Emergency acute stroke thrombolysis & further management was continued through out the pandemic period.
- Emergency EEG & electrophysiological services were started from August 2020.

Obstetrics and Gynecology

- COVID services provided
 - a) Covid testing of all obstetric indoor patients.
 - b) Covid testing of outdoor gynecology patients requiring admission/surgery.
 - c) Delivering covid positive mothers in designated section of the labour room.
 - d) Operating on covid positive mothers (Cesarean sections/ other obstetric emergency procedures) in designated separate operation theatre.
 - e) Separate designated ward for covid positive patients.
 - f) Designated separate ward for suspected covid patients until confirmation of reports.
- Projects in collaboration with Indian Council of Medical Research.

Dr. Niranjana Mayadeo- COVID-19 infection among pregnant women and their neonates

Occupation Therapy

- Patient care:
 1. Tele-Rehabilitation services started during Covid-19 pandemic to cater service to OPD patients for rehabilitation.
 2. Occupational Therapy Faculty:-SaurabhPhadke , PradnyaBhovad and SomnathSonwalkar rendered their services as Internal Facilitator in EMS Covid Centre, KEM Hospital.
 3. All staff contributed for Covid logistics duty, Covid help line duty in co-ordination with PSM department & triage coordination duty in rotation.
- Publication: Preetee Gokhale, ParagSawant, “COVID 19 and Role of Occupational Therapy”, Ecronicon- open access - Neurology,Volume 12, Issue 11,2020,pg 122-125
- Awards:
 1. Saurabh Phadke: Worked as Internal Facilitator in EMS Covid Centre, KEM Hospital. Organizing committee member for OTICON 2020
 2. Pradnya Bhovad: Worked as Internal Facilitator in EMS Covid Centre, KEM Hospital. Scientific Committee member for OTICON 2020 - a 3 day National Conference held on Jan.16 to Jan.18,2020.
 3. Somnath Sonwalkar: Worked as Internal Facilitator in EMS Covid Centre, KEM Hospital.

Ophthalmology

All Faculty and residents involved in pandemic and treating COVID 19 patients
Online lecture for UG students- Covid-19 & Eye banking

Orthopedics

Post graduate students and faculty were posted for various Covid duties.

Pathology

New services started- CRP, IL6 and D-dimer for COVID-19 patients
Post graduate students and faculty contributed in various Covid related duties.

Pediatric Surgery

- Participated in management and control of pandemic.
- Resident and Faculty member regularly provided Care in COVID ICUs and wards

Pediatrics

- Dr. Mukesh Agrawal: Organization, management, supervisory and administrative role for one of the dedicated adult Covid wards (Ward 8) during Covid pandemic
- Dr. Sunil Karande: Covid duty: Was Ward 8 (COVID-19) In-Charge for Administrative Purposes for 4 weeks in June-July 2020
- Dr. Mamta Muranjan: Covid duty: Administrative in-charge for newly commissioned 45 bed covid ward in KEM Hospital, responsibility included supervision of health care personnel in the ward, allotment of duties for RMOs, ensuring adequate infrastructure, procuring equipment & consumables (including drugs, PPE kits), record keeping and supervision of patient data uploading, clinical decisions for patient management.
- Dr. Milind S. Tullu: Administrative in-charge of Ward 8 (COVID-19 ward) in April-May 2020 (for 4 weeks).
- Dr. Swati Gupta: Covid duties: Worked in various Covid wards in KEM Hospital as the in-charge and on-call faculty
- Dr. Shrikant Jamdade: Covid duties: Worked in various adult COVID wards in KEM hospital, in addition to attending COVID positive pediatric patients during COVID-19 pandemic. Worked in Adult COVID ICU in Seven Hills hospital as one of the team leaders during COVID-19 pandemic.
- Training
 1. Dr. Milind S. Tullu: Attended Lecture on “COVID Vaccines” (by Dr. Arun Wadhwa) & Panel Discussion on “Controversies in Immunization Practices” by National Experts (Weekly MB Connect) – Organized by Indian Academy of Pediatrics, Mumbai on 27th September 2020. [1 MMC Credit Point Awarded]. (Webinar)
 2. Dr. Milind S. Tullu: Attended Lecture on “PPI: Too Much of a Good Thing” (by Dr. Sadanand Shetty) - Organized by J.B. Chemicals & Pharmaceuticals Ltd. on 27th September 2020. (Webinar)
- Publications:

1. Agrawal M, Mondkar S, Save S, Tullu MS. COVID-19 Infection in Children – Current understanding, Guidelines and Experience. MCGM book on Covid-19 pandemic; The MCGM experience.2020 (in press)
2. Tullu MS, Mondkar S, Save S, Agrawal M. Multisystem Inflammatory Syndrome in Children (MIS-C)/ PMIS (Pediatric Multisystem Inflammatory Syndrome) / PIMS (Pediatric Inflammatory Multisystem Syndrome). MCGM book on Covid-19 pandemic; The MCGM experience.2020 (in press).

Pediatric Anesthesia

- The Department has been frontline workers in ICU's of KEM Hospital, Seven Hills, COVID war room etc.
- Participated on national and international Webinars related to COVID.
- The Staff was part of the education and training of residents/paramedics/nurses in the Paediatric OT regarding COVID.
- Webinar on “Covid times and Low Flow Anaesthesia in Special Population” conducted on 7th August, 2020.

Pharmacology and Therapeutics

- Residents were posted in Covid wards, contact tracing and throat swab duties at KEM.
- Residents were posted for Covid ward duties at Kasturba hospital.
- In addition they were also posted at DCHC, Byculla ; Seven Hills.
- Lecturers were posted for reporting of Covid reports, Covid logistics and in war room.
- Associate Professors were involved in human resources for management of KEM covid wards, triage and transfer of Covid patients to covid care centres.

Research:

- Sponsored:
 1. Prospective, open label, multicentre, single-arm, post-marketing study for evaluation of safety and efficacy of favipiravir in adult Indian patients with mild to moderate COVID-19 disease.
 2. Prophylaxis for COVID-19 among health care workers in India: A cross sectional study [ICMR-RUD task force project].
 3. ICMR-RUMC COVID-19 Study for the Assessment of Prophylaxis for Health Care Workers [ICMR-RUD task force project].
- Publication:
 1. Salvi R, Patankar P. Emerging pharmacotherapies for COVID-19. *Biomedicine & Pharmacotherapy*. 2020;128:110267.
- Awards:
 1. 2nd prize for poster - Prajapati M, Gajbhiye S, Kamat S.” A review of clinical studies in the area of COVID-19 registered in the clinical trial registry of India”, at FERCICON organised by FERCI and PGIMER, Chandigarh from 27th - 29th November 2020.

Physiology

1. Students are trained for better quality patient care-
 - Dr. Anita Agrawal, Dr. Manish Dhadse, Dr. Samadhan Mitkari, Dr. Laxmikant Borse, Dr. Esha Y Angane, Dr. Aritra Sanyal, Dr. Anjali Kale, Dr. Ramakrishna Kamath, contributed to the logistics team for the COVID wards
 - Dr. Amit Navare: Incharge of MCGM COVID War room -G North
 - Dr. Geeta Jagia: As logistics incharge in MCGM Mulund COVID centre
 - Dr. D. N Shenvi- -Member of COVID Core committee for:
 - a. Food arrangements for HCW
 - b. Accommodation for COVID duty personnel in KEM campus
 - c. Quarantine facilities for residents
 - Member of COVID Core committee for: Dr. Maneesh Kumar Martanday
Accommodation for COVID duty personnel in KEM campus
2. Community Care:

Residents participated in Fever OPD, Community clinics& COVID care centres

Physiotherapy

- The physiotherapy OPD was functioning throughout the lockdown period providing physiotherapy management for non- covid patients in ICU, indoor patients and OPD.
- Covid related-
- Management of Covid patients in acute care and rehabilitation
- Telerehabilitation services started for covid, post covid patients.
- Assisting in administrative duties eg. Helpline, accomodation and supplemental food for covid front line physiotherapists
- Digital patient education booklet for covid 19 patients.
- Publications :
 1. Jaimala Shetey, Guidelines of physiotherapy management in acute care of COVID-19 at dedicated COVID center in Mumbai. pjiap.org on Monday, June 29, 2020, IP: 103.
 2. Jaimala Shetey, Evidence based national consensus: Recommendations for Physiotherapy management in COVID 19 in acute care Indian setup. ijccm2020; <https://www.ijccm.org/doi/IJCCM/pdf/10.5005/jp-journals-10071-23564>
 3. M P Jiandani et al. Evidence-Based National Consensus: Recommendations for Physiotherapy Management in COVID-19 in Acute Care Indian Setup. IJCCM2020 vol 24 issue 10
 4. M P Jiandani, S B Salagre et al. Preliminary Observations & Experiences of Physiotherapy Practice in Acute Care Setup of COVID 19: A Retrospective. Observational Study. JAPI. Vol68202
 5. M P Jiandani. Physiotherapy in covid ward: Where Compassion overcomes fear. IJME. 2020
 6. S kachapile, P Lohare, M P Jiandani, S B Salagre. Physiotherapy interventions in covid 19 with multiple comorbidities; International Journal of health sciences and research; 10(10) oct 2020. Case report.
 7. K Jain, M P Jiandani, P Lohakare. Physiotherapy in Long covid : Case series. IJSR Dec 2020
 8. N Swaminathan, M P Jiandani et al Beyond Covid 19. Evidence based guidelines for physiotherapy rehabilitation post covid: JAPI November 2020
- Ongoing Research:
- Pre-discharge functional testing of patients with covid-19: a retrospective analysis.
- Retrospective analysis of effect of single sitting of physiotherapy on single breath count and breath holding time in covid-19
- Retrospective analysis of oxygen saturation and balance in subjects with covid- 19
- Telerehab experiences while treating patients with adult neurological disorders during the covid-19 pandemic



Plastic Surgery:

Students and faculty were posted for various Covid related duties.

Psychiatry

- COVID-19 caregiver helpline:
The Department of Psychiatry ran the helpline for caregivers of COVID-19 positive patients admitted in the COVID-19 wards of KEM Hospital. The helpline helped in communicating about the patient to the family members of the patients on a daily basis
- Psychosocial Support Cell helpline for COVID-19 patients:
A helpline for the psychosocial support for COVID-19 patients was started with the aim of providing post infection psychosocial support to the patients recovered from COVID-19. Around 20,000 calls were made and the patients were counseled. Healthcare workers were also counseled as a part of this programme.
- Workshops/CMEs/Training conducted by the department:
- Using REBT for counseling during pandemic on 26/10/2020 by Dr. Anuradha Sovani.
- The role of Person centered approach in providing supportive counseling in times of pandem on 28/10/2020 by Dr. Wilbur Gonsalves
- Psychosocial support and care in response to the psychological sequelae of COVID-19 on 5/11/2020 by Dr. Chetana Duggal
- Anger Management for clients and counselors during the pandemic' on 10/11/2020 by Mr. Swapnil Pange
- Using DBT and Mindfulness for counseling during the pandemic on 23/11/2020 Ms. Rupa Chaubal. -
- Effective management of psychological issues due to pandemic on 27/11/2020 by Dr. Mrinalini Purandare,
- Taking Care of Mental Health of Children in Early Childhood Years during COVID, on 28/11/2020 by Mr. Nilesh Shinde,
- Relationship Management and Communication skills for Counselors on 22/12/2020 by Dr. Naresh Tambe,
- Emotional Trauma of the Brain after the COVID Pandemic on 24/12/2020 by Ms. Shraddha Shah
- Managing Anxiety, Burnout and building self care practices as a therapist on 29/12/2020 by Ms. Sonali Gupta,
- Toolkit for community counselor on 30/12/2020 by Dr. Trinjhna Khattar,
- Guest Lectures and Lectures delivered by the Faculty Members:
- Lectures on Stress Management during COVID-19 pandemic in training programs for healthcare workers at KEM Hospital by all faculty members.
- Stress and Anxiety in Pandemic Module for plexus MD 20.12.20 by Dr. Neena Sawant.
- Lecture on Mental health impact of covid-19 on Health care workers on 4.10.2020 as a part of mental health week celebration organized by Amity Institute of Behavioral & Allied Sciences by Dr. Kranti Kadam.
- Lectures on Stress management during COVID-19 pandemic for healthcare workers by all faculty members.
- Publication: Sawant N, Shah A, Mangeshkar S, ThakurdesaiA, Angane A, Mahajan S. Concerns and stress-related problems among medical personnel during COVID-19 lockdown phase in a general hospital in Mumbai. Ann Indian Psychiatry 2020;4:208-14



Psychosocial Support Cell Helpline Counsellors at work

Radiology

- Since COVID 19: Since March 2020 the Covid 19 Pandemic situation is being handled excellently by providing portable X-ray facility to all the Covid wards with team of resident doctors and technician.
- Daily on an average 50 to 60 portable radiographs were being done since March Covid 2020. 2 USG & CT Section also contributed in providing excellent services since March 2020.
- One of our CT Machine has been exclusively dedicated for COVID scans since March 2020. Daily on an average 10 to 15 Covid scans are being done.
- Received BPL USG Machine in ward 6 through donation from Cap Gemini. Received One Fujifilm USG Machine, 2 Konica DR Portable Machines and 6 X-ray View Boxes through CPD for COVID.
- Everyday team of resident doctors are being sent to covid wards for various Ultrasonographic examinations. Residents are being deputed to covid wards for ward duties on rotation basis.

Surgical Gastroenterology

- In the difficult times of COVID-19 pandemic department extended whole hearted support and contributed in all aspects in the management of COVID patients of KEM.
- Residents and faculty of Dept. of Surgical Gastroenterology worked relentlessly in COVID wards.
- In spite of all difficulties, emergency GI SURGERY patient care was provided uninterruptedly throughout this time

Transfusion Medicine

- Lalbagcha Raja also organized Blood Donation Camps in the year 2020 & we were collected 1964 units of blood were collected and Convalescent plasma collected from 255 covid recovered donors.
- Research: A study of red cell antibody profile in patients of covid-19 in a tertiary care center Dr Swarupa Bhagwat, Dr. Jayashree Sharma, Dr. Sheenam Thakkar
- Publication: Convalescent plasma in the management of moderate covid-19 in adults in India: open label phase II multicentric randomized controlled trial (PLACID Trial): Sharma J, Bhagwat S. (as Contributors)

Urology

- During pandemic, funds of nearly Rs. 20 lakhs were raised through KETTO fundraiser from Alumni of Urology department and used for purchasing
- PPE kits (worth Rs 1100000)
- Surgical scrubs (Worth Rs 65000)
- Footwear (worth Rs 300000)
- N95 and cotton masks (Worth Rs 1,80,000)
- Faceshields (Worth Rs 1, 80,000) for doctors of KEM hospital engaged in COVID duties.
- Medical telephonic helpline for patients with the help of IIT Mumbai during COVID pandemic Lockdown.

Committees, Societies, Services and Publications

Committees, Societies, Services and Publications

Academic Committee

The Academic Committee of the institute meets under chairmanship of the head of the institute to discuss the issues arising in the local educational scenario and to take policy decisions for the transaction of the curriculum. The members of this committee are from the different disciplines. The current composition of the Academic Committee is as follows:

- Dr. Hemant Deshmukh, Dean & Chairperson, GSMC & KEMH
- Dr. Milind Nadkar, Academic Dean
- Dr. D.N. Shenvi, Member Secretary

In the Year 2020, total 03 meetings (on 19th March 2020, 16th October 2020 and 22nd December 2020) of the Academic Committee were conducted.

During these meetings, the members deliberated upon the following points & the necessary actions were taken.

- They were for protocol of COVID pandemic
- Academic classes conduction after lockdown
- Reopening of the college for start of the new academic session for 1st year, 2nd year & 3rd year students
- Criteria for issuing Internship Completion Certificate for BOTH students

Department Development Fund

Patient Care

The trust is set up to aid & support growth of scientific research in and development and efficient running of various departments with an ultimate goal to augment of patient care facilities in K. E. M. Hospital with up-to date and modern equipments & instruments and to attend to and take of the patients.

Education

Following educational activities were undertaken by the respective departments through DDF.

- Orthopedics: PG Training course on 6th to 8th March 2020
- Endocrinology: CME on 16th Feb 2020
- Anesthesia: PGCON 2020 on 7th to 8th March 2020

Research

Trust has received donations for research projects of following departments & these are ongoing.

Sr. No.	Department	Project Name	Sponsors Name
1	Gastroenterology	A Prospective, Multi-Centre, Double -blind, Randomized Trial of Saroglitazar 4 mg versus Placebo in patients with Non-Alcoholic Steatohepatitis”.	Cadila Health Care Ltd
2.	Ophthalmology	PSV-FAI-005-“A multi-center, controlled, safety and efficacy study of a fluocinolone acetonide intravitreal (FAI) insert in subjects with chronic non-infectious uveitis affecting the posterior segment of the...	Eye point Pharmaceuticals Inc.
3.	Endocrinology	“Effect and safety of semaglutide once-weekly versus insulin aspart three times daily, both as add on to metformin and optimized insulin glargine (U100) in subjects with type 2 diabetes. Trial ID: NN9535-4386.	Novo Nordisk India Pvt. Ltd
4.	Hematology	Safety of turoctocog alfa for prophylaxis and treatment of bleeding episodes in previously treated patients with moderate or severe Haemophilia A in India. (Protocol ID: NN7008-4304)	Novo Nordisk India Pvt. Ltd
5.	Clinical Pharmacology	Study for” Evaluation of Genetic polymorphism of CYP3A5 in normal healthy participants of Western India-a cross sectional study”.	N/A
6.	Gastroenterology	Phase III, Randomized, Double-blind, Placebo-controlled, multicenter study to evaluate the efficacy and safety of Eytolizumab compared with moderate to severe active Ulcerative Colitis who are naïve to TNF inhibitors.	Genentech
7.	Gastroenterology	“An open extension and safety monitoring study of moderate to severe ulcerative colitis patients previously enrolled in etrolizumab phase II/III studies”.	Genentech

Sr. No.	Department	Project Name	Sponsors Name
8.	Clinical Pharmacology	“Efficacy and safety of Gut Gard in patients with gastro-esophageal reflux disease (GERD) -A Phase III, single Centre, double-blind, parallel group, randomized placebo-controlled trial”.	Natural Remedies Pvt. Ltd
9.	Endocrinology	Study for Range of salivary cortisol and Overnight dexamethas one suppressed serum and salivary cortisol in chronic renal failure patients.	N/A
11.	Endocrinology	Prevalence of primary aldosterone’s in patients with type 2 diabetes mellitus and hypertension.	
12.	Medicine and Clinical Pharmacology	A Multi -Centric, Open label, Two Arm Randomized, Pivotal Phase 2 Trial to study the efficacy and safety of Itolizumab in COVID -19 Complications.	Biocon Biologics India Ltd.
13.	Nephrology (AKD)	Flow-effect of semaglutide versus placebo on the progression of renal impairment in subject with type 2 diabetes and chronic kidney disease.	Novo Nordisk
14.	Medicine	A Phase II, Open Label, Randomized Controlled Trial to Assess the safety and Efficacy of convalescent Plasma in Severe Covid-19.	DMER
15.	Paediatric-Surgery	Rotasil Vaccine Intussusception Surveillance study in Kerla, Karnataka, Maharashtra and Gujarat, India.	Bill and Melinda Gates Foundation

Following prizes were given.

- Dr. Nina Dahejia Prize: Interns of G. S. Medical College
- Dr. L. H. Hiranandani Prize: 3rd M.B.B.S Student (ENT)
- Dr. Geeta Rao Memorial Prize: MS (Surgery)
- Dr. V.H. Muzumdar: Final MBBS students (Ophthalmology), MD Obst & Gynecology.
- Dr. G. S. Ambardekar: MD (Anesthesia) & Diploma in Anesthesia
- Silver Jubilee: Occupational Therapy
- Dr. V.G. Rao: PSM for 1st & 2nd highest the final MBBS Exam.
- Pandurangi Award: Orthopedic –Best Resident.

Work Environment

- Expenses for Foundation day function of Rs.20, 000/-.
- NAAC of Rs.1, 00,000/- through DDF General Fund.
- Gosumec Alumni Association: Contribution to renewal of Remotex software of Rs.32,634/-

Donation and Grants

Year Jan 2019 to December 2020.

Sr. No.	Name	Income Donation/Grants
1.	Patient Care	-
2.	Research	98,78,925.00
3.	Training Programs/workshop	49,250.00
4.	Awards	8,480.00

1. Total Nine meetings held throughout the year.
2. Eleven projects are currently ongoing (details under Research).
3. Provided internet connection to several Departments (e. g. Dean, Dean Residence, PA to Dean, Student Section, Nurses Home, Superior Establishment) AE (M&E).

Department of Medical Education [DOME]

Department of Medical Education has been recognized by MCI as GSMC-KEMH-MCI Nodal Centre to conduct the basic and advance courses in MET. It is also recognized by FAIMER, Philadelphia as a Centre for its Regional Institute (GSMC- FAIMER Regional Institute).

A. Courses conducted at the GSMC-KEMH-MCI Nodal Centre

In- HOUSE Revised Basic Course Workshop for Teaching Faculty Tutors/Contract-Temporary Faculty

The “In- HOUSE Revised Basic Course Workshop for Teaching Faculty Tutors/Contract-Temporary Faculty” was conducted by the GSMC- KEMH-MCI Nodal Centre from 3rd – 5th February 2020. The participants were from Seth GS Medical College & KEM Hospital. The participants were from the medical institutions in Maharashtra. A total of 30 participants registered. The designations were as follows:

- Professor & Head – 1

- Professor (Addl.) – 4
- Associate Professor – 14
- Assistant Professor - 11
- Curriculum Implementation Support Programme (CISP-I)

15th Revised Basic Course

The “Fifteen Revised Basic Course” was conducted by the GSMC- KEMH-MCI Nodal Centre from 4th March – 6th March 2020. The participants were from the medical institutions in Maharashtra. A total of 30 participants registered.

- Professor & Head – 2
- Assistant Professor – 13
- Associate Professor – 15
- Curriculum Implementation Support Programme (CISP-II)

The “Curriculum Implementation Support Programme” for Curriculum Committee members was conducted by the GSMC- KEMH-MCI Nodal Centre from 24th -25th February 2020. A total of 23 faculty were trained. The designations are as follows:

- Professor–1
- Associate Professor - 7
- Associate Professor – 15
- Curriculum Implementation Support Programme (CISP-II) ONLINE

The “Curriculum Implementation Support Programme” for faculty members was conducted by the GSMC- KEMH-MCI Nodal Centre from 13th – 14th August 2020. A total of 39 faculty members of GSMC-KEMH-MCI Nodal centre are trained. The designations are as follows:

- Professor –12
- Professor (Addl.) - 1
- Associate Professor – 20
- Assistant Professor - 6
- 10th NMC (National Medical Commission) Advance Course in Medical Education

The “Tenth NMC Advance Course in Medical Education” was conducted by the GSMC- KEMH-NMC Nodal Centre from 2nd November 2020 to 9th November 2020. The participants were from the medical institutions in Maharashtra and Gujarat. A total of 30 participants had registered for the course. Of these 8 were from Mumbai, 1 from Navi Mumbai, 8 from Pune, 3 from Ahmednagar, 3 from Silvassa, 2 from Aurangabad, 3 from Nashik.

B. Faculty of Seth GS Medical College undergoing MCI Advance Course in MET at GSMC-KEMH MCI Nodal Centre:

1. Dr. Swati Deshpande, Associate Professor (Additional), Department of Community Medicine
2. Dr. Dilip Kadam, Associate Professor, Department of Community Medicine

C. Revised Basic Courses and Curriculum Implementation Support Programs (CISP) conducted at the institutions affiliated to the GSMC KEMH MCI Nodal Centre with Observers from our Institute

Sr. No.	Name of Institute	Duration
1.	B. K. L. Walawalkar Rural Medical College & Hospital, Sawarde, Dist - Ratnagiri	29-30 September 2020
2.	NAMO MEDICAL EDUCATION AND RESEARCH INSTITUTE, Silvassa	23-24 September 2020
3.	Rajiv Gandhi Medical College, Thane	7-8 October 2020
4.	Dr. D.Y. Patil Medical College, Nerul, Navi Mumbai	7-8 October 2020
5.	Bharati Vidyapeeth (Deemed to be University) Medical College and Hospital, Sangli	27-28 October 2020
6.	GMERS Medical College, Valsad	27-28 November 2020
7.	Grant Government Medical College & Sir J J Hospital, Mumbai.	25-26 November 2020
8.	Rajashree Chhatrapati Shahu Maharaj Govt. Medical College, Kolhapur	27-28 November 2020
9.	K. J. Somaiya Medical College, Mumbai	26-27 November 2020
10.	D. Y. Patil Medical College, Kolhapur	24-25 November 2020
11.	Government Medical College, Miraj	26-27 November 2020
12.	MGM Medical College, Kamothe, Navi Mumbai	23-24 November 2020
13.	Prakash Institute of Medical Sciences, Islampur	26-27 November 2020
14.	Terna Medical College, Hospital & Research Center, Navi Mumbai	27-28 November 2020
15.	TN Medical College & BYL Nair Hospital, Mumbai	25-26 November 2020

Sr. No.	Name of Institute	Duration
16.	HBT Medical College, Mumbai	27-28 November 2020
17.	LTM Medical College, Mumbai	21-22 December 2020
18.	Vedantaa Institute of Medical Sciences, Dahanu, Palghar	22-23 December 2020

D. GSMC FAIMER Regional Institute - Under the Department of Medical Education

The 16th GSMC FAIMER Regional Institute which was scheduled to be held from 20th to 29th April 2020 was postponed to 2021 in view of the COVID 19 pandemic. In the interim, fellows and faculty were encouraged to attend online webinars conducted by AHPE (Academy of Health Professions Educators) and MEU India.

Dr. Praveen Iyer, Dr. Munira Hirani, Dr. Rashmi Patil, Dr. Raakhi Tripathi attended 8 (Eight) online monthly DAFFRI (Directors and Faculty of FAIMER Regional Institutes) meetings from April 2020 to November 2020 organized by FAIMER Institute, Philadelphia.

E. Contribution in Medical Council of India as member of Expert groups/ Task force

Dr. Praveen B Iyer - Member of NMC Task Force - Implementation of the competency based UG curriculum for second year MBBS onwards & uploading yearly time table on respective College Website

Publications

- Nirmala N. Rege and Raakhi K. Tripathi. Prescription Communication Using 5-R Framework Springer Nature Singapore Pte Ltd. S. C. Parija, B. V. Adkoli (eds.), Effective Medical Communication, 2020, Chapter 7, pg 77-90
- Iyer P, Telang A. Impact of Online Teaching and Assessment on Teachers and Students of Medicine and Allied Health Science Courses during COVID-19 Pandemic. Inarch 2020
- Iyer Praveen B. Blended Programmatic Assessment - Is it the way forward? Editorial Commentary (Accepted for Publication) in Journal of Postgraduate Medicine

Diamond Jubilee Society Trust

The Seth GS Medical College and KEM Hospital, Diamond Jubilee Society Trust was established in 1989 with the following objectives:

- To undertake scientific, social and statistical research in the field of health, medicine and applied sciences. Benefits arising out of results of the research undertaken by the trust would be extended to the poor and needy sector of the community, especially the slums dwellers and the working class in textile and other industries in Mumbai, catered by our public hospital as well as to the patient population at large.
- To promote medical education and to continually offer opportunities of upgrading knowledge, skills in the context of innovations, research and discovery in all fields of health.
- To provide medical relief and undertake development programmes in health services and upgrading health care facilities to various sectors of the society.

The trust accepts donations to support the medical education and health facilities of Seth GS Medical College and KEM Hospital. Donations to the trust are exempted under section 80G of the Income Tax Act 1961. The FCRA, Govt. of India, Ministry of Home Affairs has given the permission to receive and utilize foreign contribution to Trust. The Trust has also been recognized as SIRO, by Department of Scientific and Industrial Research for years 2019 - 2022.

Managing Trustee: Dr. Hemant Deshmukh, Dean, Seth GS Medical College & KEM Hospital

Secretary: Dr. Rujuta Hadaye, Treasurer: Dr. Aparna Deshpande,

Trustees: Dr. Sujata Patwardhan, Dr. Sandhya Kamat, Dr Vishnu Kanhere, Mr. Kishorekumar Mhatre, Advisor: Dr. RD Bapat, Dr. Lopa Mehta, Dr. Ravi Ramakantan

Patient care

Patient education programs of Patient Education Cell were supported.

Donation received for Department Development:

A Donation of Rs. 5, 92,984/- was donated by ReSurge International towards needy patients of post burn contractures & provide financial help for reconstruction surgery for plastic surgery department.

Medical education

1. Financial support of Rs. 203880/- was extended for 11 research projects undertaken by the postgraduate students & Rs. 3,75,772/- for 8 research projects undertaken by the Faculty members.
2. The students who have excelled in their academic career were awarded prizes and scholarships (n=53) by the trust. Funds for this purpose have been donated by the graduates, postgraduates and teachers of the institute.

3. GOSUMEC Foundation, USA Research/ Innovation Scholarship was awarded to the following undergraduate students for their meritorious research work:
 - a) Dr. Nishtha Khatri -Final year MD student in Pharmacology & Therapeutics Department who had presented a poster titled “Evaluation of drug treatment awareness, prescription patterns and adverse drug reactions in patients with schizophrenia” at the 2019 Annual Meeting of the Canadian Association for Population Therapeutics (CAPT) held at Toronto, Canada on 21st – 22nd October 2019.
 - b) Dr. Abhisehk Mane – Final Year MD student in Pharmacology & Therapeutics Department who presented a poster titled, “ M-06 Evaluation of the effect of Aegle Marmelos in a Murine Model of Trinitrobenzene sulfonic Acid (THBS) Induced Coliti” Dia2019 Global Annual Meeting at san Diego, Califoshia, on 23rd – 27th June, 2019.
 - c) Shirish Rao, Flinta Rodrigues – 2nd year MBBS students who had participated in 17th (IMSPQ) Inter Medical School Physiology quiz (Prof A. Raman Challenge Trophy) at university of Indonesia, Jakarta, Indonesia on 21th - 22nd August 2019.
 - d) Dr. Unnati Saxena - Second year DM Student in clinical Pharmacology who presented oral paper titled, “An audit of questions asked by participants during the informed consent process for interventional studies at tertiary referral center” at 19th Forum for Ethical Review Committees in the Asian & Western Pacific Region (FERCAP) international conference at University Sains Malaysia, Penag, Malaysia on 25th – 27th November, 2019.
 - e) Dr. Jeffrey Pradeep Raj - Second year DM Student in clinical Pharmacology who presented oral paper titled, “An audit of the quality of Institution Ethics Committee queries after original research submissions” at 19th Forum for Ethical Review Committees in the Asian & Western Pacific Region (FERCAP) international conference at University Sains Malaysia, Penag, Malaysia on 25th – 27th November, 2019.
 - f) Dr. Shruti Saha - Second year DM Student in clinical Pharmacology who presented oral paper titled, “An Analysis of articl submissions invitations received via emails” at 19th Forum for Ethical Review Committees in the Asian & Western Pacific Region (FERCAP) international conference at University Sains Malaysia, Penag, Malaysia on 25th – 27th November, 2019.
 - g) Dr. Priyanka Singh – MD student in Microbiology who presented paper titled, “Sensitivity and specificity of loop-Mediated isothermal amplification assay for diagnosis of extra pulmonary tuberculosis: A cross sectional study” in European Respiratory Society International Congress 2019 at Madrid, Spain, on 28th September. 2019.
 - h) Nehar Rajapurkar – 3rd year MBBS student who participant in Siriraj International Medical Microbiology, Parasitology and Immunology Competition 2019 (SIMPIC 2019) as Gold Medal for First Round Performance at Siriraj Hospital, Mahidol University on 15th 18th March, 2019.
 - i) Varun Bansal – 3rd year MBBS tudent who participant in Siriraj International Medical Microbiology, Parasitology and Immunology Competition 2019 (SIMPIC 2019) as Silver Medal for First Round Performance at Siriraj Hospital, Mahidol University on 15th 18th March, 2019.

Donations were accepted for the following activities undertaken for (undergraduate and postgraduate) students:

Donation received for instituting award

- A donation of Rs.3,50,000 was accepted from Dr. Ajay Phadke, Centre Head, SRL, Dr. Avinash Phadke Laboratories towards instituting awards in memory of his late grandfather, Dr. A M Phadke Best Resident Award in Pathology.
- A donation of Rs.5,00,000/- was accepted from Mr. Ashok Jahagirdar, CEO, Come and learn Commuter center towards instituting awards for a student standing first at MD (Gynecology and Obstetrics) in university examination at Seth G.S. Medical College and KEM Hospital, in the name memory of his mother late “Dr. Mrs. Sharad Jahagirdar”.
- A donation of Rs.3,50,000/- was accepted from Dr. Sucheta Dandekar, Ex. Professor & Head, Department of Biochemistry towards instituting awards for a student securing highest marks in the subject of Biochemistry at first year MBBS level in university examination at Seth G.S. Medical College and KEM Hospital, in the name “Dr. Sucheta Prakash Dandekar Award.”
- A donation of Rs. 4,50,000/- and Rs. 70,000/- was accepted from Dr. Urmila Thatte, Professor & Head, Department of Clinical Pharmacology & Alhad Mulkalwar, Final Year MBBS student towards instituting awards for undergraduate student for Medical Research and Innovation, in the name “Dr. Urmila Thatte Award”.
- MUHS approved Fellowship/Certificate courses by various departments
- Undergraduate Certificate Course in Clinical Research conducted by the Department of Clinical Pharmacology under the aegis of MUHS
- ‘Pharma Quiz’ for the undergraduate students conducted by the Department of Pharmacology and Therapeutics
- ‘Shidori’, the co-curricular programme for the undergraduate students
- Cultural events organized by the undergraduate students like Advait (Marathi drama competition)

Donations were accepted for the following Faculty development programmes

1. 14th Revised Basic Course Workshop held on 3rd February 2020 to 5th February 2020 conducted by department of MET Cell
2. 15th Revised Basic Course Workshop for MEU resource faculty members held on 4th March 2020 to 6th March 2020 conducted by department of MET Cell
3. Curriculum Implementation Support program (CISP-II) held on 24th February 2020 to 25th February 2020 conducted by department of MET Cell
4. Curriculum Implementation Support program (CISP-II) held on 13th August 2020 to 14th August 2020 conducted by department of MET Cell (Online)
5. Online 10th Advance Course Workshop in Medical Education (ACME) held on 2nd November 2020 to 9nd November 2020 conducted by department of MET Cell.
6. Annual National Conference of All India Occupational Therapists Association (AIOTA) at Mumbai in January 2020 conducted by department of Occupational Therapy
7. CME on Recent updates in Gynecological Oncology on 11th March 2020
8. 2nd Observership Training of FBNC at RCC, under NUHM held on 10th January 2020 to 24th January 2020 conducted by department of Neonatology
9. 3rd Observership Training of FBNC at RCC, under NUHM held on 11th January 2020 to 24th January 2020 conducted by department of Neonatology
10. 4th Observership Training of FBNC at RCC, under NUHM held on 17th February 2020 to 29th February 2020 conducted by department of Neonatology
11. 5th Observership Training of FBNC at RCC, under NUHM held on 17th February 2020 to 29th February 2020 conducted by department of Neonatology
12. 6th Observership Training of FBNC at RCC, under NUHM held on 2nd March 2020 to 14th March 2020 conducted by department of Neonatology
13. 7th Observership Training of FBNC at RCC, under NUHM held on 2nd March 2020 to 14th March 2020 conducted by department of Neonatology
14. 8th Observership Training of FBNC at RCC, under NUHM held on 2nd March 2020 to 14th March 2020 conducted by department of Neonatology

Discipline specific programmes

- AASNS, NSI & IMS (AANSIM) 2019 workshop conducted by the Department of Anatomy and Baidyanath Neurosurgery Charitable Trust.
- CIGICON2019 Workshop conducted by the Department of Anatomy and ENT.

Publication

1. Annual Report of Seth GS Medical College & KEM Hospital-2020 was published under the aegis of Diamond Jubilee Society Trust.
2. Donations were also accepted for publication of manuals/ abstract books of courses, workshops and conferences conducted by the various departments.

Work environment

Diamond Jubilee Society Trust supports the following activities and their maintenance. It also tries to collect donations for the same.

- a. Website of the institute to propagate the activities of the institute and facilitate communication and interaction with other medical professionals
- b. Annual maintenance of indoor patient monitoring software in Registration OPD and MRO section
- c. Printing of certificates for Foundation Day
- d. Institutional activities and functions (ORACON-2020)
- e. Maintenance of front lawn and garden in the KEM campus.
- f. Support for welfare activities of the institutional members (Women Development Committee)
- g. Support to develop Remotex software of the Institute
- h. Support to develop digitalization of the Institute
- i. Support for KEM EDU software renewal of the institute.

Dr. M.L Kothari Chair of Medical Humanities

A series of programs were held throughout the year

- 5th Foundation Day Oration 23 January 2020 talk by PALAGUMMI SAINATH on Inequality is unhealthy How economic policy exacerbates the crisis in healthcare
- 10th February 2020 session on “ Importance of Vernacular Language” by Mr.Sankrant Sanu followed by a talk by Mr. Devendra Tiwari, on “How to master multiple languages”.
- Ascension - a step above’ 29th August ,2020 session by Dr. Siddharth Warriar on “How Does The Brain Create Art ? - Correlation of ART and NEUROSCIENCE !”
- Ascension - a step above’ 20th September, 2020 session by Dr Abhay Patil on “The Inevitable”
- Ascension - A Step Above’ In Association With Samvad NGO 27th September , 2020 session By Dr. Rucha Shete, Founder Of Samvad NGO on “A Deeper Dive Into Mental Health”
- ASCENSION - A Step Above 2nd October, 2020 - PANEL DISCUSSION on “Enhancing The Teacher - Student Relationship” Panelists: Dr. Avinash Supe, Dr. Vinaya Shah, Dr. Surendra Shivalkar, Dr. Girish Gadekar, Dr. Amey Kamdar, Pranav Survase, Ojas Krishnani, Mitali Shroff & Akash Sethi
- Manusmriti*- An Annual Event Conducted In Loving Memory of *Dr.Manu VI Kothari*
- 16th October, 2020: session by Dr Rajesh Rarikh on “The Joys of Studying Medicine”
- 12 Dec 2020 talk by Dr Shubhangi Parkar on A Workshop on CREATIVE LEARNING
- 23 December 2020 - Release of annual volume of “Reflections” on Medical Humanities. Theme: Interpersonal relationships in healthcare.

Gosumec Alumni Association

Office Bearers:

- President - Dr. Hemant Deshmukh. Vice President - Dr. Sharad Gogate & Dr. Manjula Sarkar
- Hon. Secretaries – Dr. Ram Prabhoo & Dr. Gita Nataraj
- Hon. Jt.Secretaries- Dr. Mohan Khembahvi & Dr. Dnyaneshwar Kurle & Hon. Treasurer- Dr. Aparna Deshpande
- Managing Committee member

Dr. Hetal Marfatia, Dr. Mridula Solanki, Dr. Nithya Gogtay, Dr. Ravindra Deokar, Dr. Nitin Dange, Dr. Shilpa Adarkar, Dr. Lopa Mehta, Dr. Malini Nadkarni, Dr. Nirmala Rege, Dr. Janak Shah, Dr. Pragji Vaja, Dr. Mahesh Abhyankar, Dr. Manjula Sarkar, Dr. Ajay Tilwe, Dr. Vaibhav Dedhia, Dr. Sunil Puntambekar & Dr. Meena Prabhoo

Activities

- 2 Managing Committee meetings were held in the year 2020 on 23/1/20 and 26/10/2020 respectively.
- Presently, the association has 5132 members. The period January 2020 to Dec 2020, saw an addition of 25 life members & 1 patron member.

Donation Received

- Rs. 12,00,000/- Shailaja Asave for Financial Support for Ortho implants
- Rs. 304400/- received from Dr. Sharad Korgaonkar
- Rs. 50000/- received from MCI

Educational Activity: Scholarships given to open merit economically challenged students

- Dr. S Korgaonkar Scholarship was awarded to three students for Rs. 79500/-, Rs. 94700/-, and Rs. 130200/- respectively.
- Dr. KT Gajjar scholarship- Rs. 60000/- each was awarded to four students.
- Dr. KT Gajjar financial assistance for needy students: Rs. 260000/- divided among 26 needy students.
- Indira Foundation’s Motivation for Excellence Scholarships

Full freeship of Rs. 94700/- awarded to Hema Chauhan – I MBBS

Freeship of Rs. 51800/- awarded to Rucha Palkritwar & Alisha A Sayyad- I MBBS

Others scholarships

Two economically needy students were awarded to Rs. 10000/- each from Gosumec Alumni Association corpus fund.

Awards & Honors

- The Dr. R B Redkar Memorial awardees for the year who were felicitated on foundation day (22/1/20) for their commendable work included Mr. Nitin Bari, Mrs. Neha Dabholkar, Mr. Bhavesh Shaligram and Mr. Sujit Suresh Raul (College & Hospital Office Administration).
- Dr. A N Supe Best Published Paper awardees of 2019 (21st Jan 2020)

- Shah S, Deshmukh CT, Tullu MS. Dept. of Pediatrics.
- Suraj Doshi, Saumil Desai, Ruchi Nanavati, Nandkishor Kabra, Dept. of Neonatology.

Social Activities

- GAA spent Rs. 14629/- for purchase of books on Palliative care for department of community medicine through donation received from Dr. Apurva & Parinda Mehta

Social and extracurricular activities

- Renewal of RemoteXs provided services to 1000 users of GSMC & KEMH. The contribution was shared by DDE, Research Society & DJST each giving Rs.32634/-
- Financial assistance to library computer operator & website assistant.

Cultural Activity

- Alumni & staff members dinner was organized with entertainment to celebrate the Foundation Day on 22nd January 2020

Patient care

- Financial Support for Ortho Implants was given to the needy patients of KEM Hospital from Indira Foundation donation for a Total of Rs. 1,50,000/-

Scientific Activity

- Orations done in ORACON 20.

GSMC MUHS UNESCO Bioethics unit

Highlights & Achievements

- Workshop and training for Postgraduate students on Peer mentoring and Bioethical grand rounds
 - Foundation course Competency Based Medical education Bioethical aspects were covered by the GMU bioethics unit.
 - Student Wing activities: Developing leadership and team management in student wing through conduct of various competitions and online activities.
 - International Seminar on “Bioethics and Covid 19 ” in collaboration with UNESCO Bioethics Haifa
1. “PEER MENTORING” workshop FOR POSTGRADUATE STUDENTS was conducted to develop good interpersonal relationship and for personal development of postgraduate students 27th of February 2020 by Dr. Ajita Nayak, Professor & Head, Department of Psychiatry, Dr. Praveen Iyer, Professor (Adl), Department of Anatomy, Seth GSMC & KEMH.
 2. WORLD BIOETHICS DAY 2020 CELEBRATIONS: Theme of World Bioethics Day 2020 ‘Benefit and Harm’.
The GSMC MUHS UNESCO Bioethics Unit celebrated the ‘World Bioethics Day’ on Monday, 19th October 2020 along with a weeklong celebration competitions were held online mode on zoom platforms. The students were involved in planning, organizing and execution of these events developing their leadership and team management skills. This year the pandemic led us in a new normal way of celebrations with a lot of new learning and resilience. Experts from outside and within the institute were invited as judges.
 3. GUEST LECTURES:
 - Guest lecture on “Ethical Issues in cancer therapy and Research” was taken by Dr Sewanti Limaye who is currently working as Consultant - Medical Oncology, Kokilaben Dhirubhai Ambani Hospital and Medical Research Institute and Director Clinical and Translational Research, Oncology.
 - The main event was organized on 19th October 2020 in the afternoon. The key note speaker Dr Vasantha Muthuswamy, renowned Senior Deputy DG & Scientist G (Retd.), Indian Council of Medical Research who is also President, Forum for Ethics Review Committees in India (FERCI), Chair, Ethics Advisory Committee & Central Ethics Committee on Human Research , ICMR ,Member, National Apex Committee for Stem cell research & Therapy (NACSCRT), President, (Former) Senior Deputy Director General, ICMR, New Delhi,
 - Inarch Release: The annual bulletin of the Bioethics Unit ‘Inarch 2020’ was released by the Dean Dr. Hemant Deshmukh. The “Inarch” is annual bulletin of the unit released every year on world bioethics day. The articles are written by students and Bioethics wing members.
 - Prize Distribution: The prize distribution ceremony was held for felicitation of the winners of the bioethics competitions. The judges invited for these competitions from within the institution and outside the institution were also felicitated. Ms. Shruti Tilak was awarded the Best Student Wing Member award.

Patient care & community care

Postgraduate Students:

- The “BIOETHICS GRAND ROUNDS” were conducted on 14th February 2020 for postgraduate students of Medicine and Obstetrics & Gynecology. It was conducted by Dr. Padmaja Samant, Professor Department of Obstetrics & Gynecology at KEMH along with Dr. Mariya Jiandani, Associate Professor, Physiotherapy School & Centre at KEMH. Dr Akash Shukla, Professor, Department of Gastroenterology & Dr Kamakshi Bhate, Professor, Community Medicine, KEMH were the guest faculty for these rounds. Postgraduate students from medicine and Obstetrics & Gynecology department along with the faculty attended this event.

- INTERNATIONAL SEMINAR SERIES OF “BIOETHICS AND COVID 19”

In collaboration with Department of Education , UNESCO (Haifa) on 23rd November 2020 Haifa. Honourable Vice chancellor Maharashtra University Nashik, Inaugurated the webinar. The theme of this seminar was ‘Bioethics and Medical Education’.

Faculty and students of various bioethics units attended the seminar. There were 99 participants from all over the country. Mrs Mariya Jiandani, head of the unit welcomed the dignitaries and participants. Dean Dr Hemant Deshmukh addressed the gathering. He mentioned the challenges brought about by Covid 19 and the vaccine trial. Honourable Vice chancellor of MUHS Nashik inaugurated the international seminar and wished it success. Following the inauguration Mrs Jiandani presented the overview of GMU unit and its activities. Prof Mary Mathew head, Indian program mentioned GSMC as one of the best and most active unit.

Dr. Nayana Ingole Head Steering Committee moderated the seminar

The talks delivered were as

- Professor Russel Dsouza- Covid 19: Ethical issues with Human challenge trials
- Professor Vedprakash Mishra: Bioethics in medical curriculum
- Professor Trevor Gibbs: Why faculty development is important in medical Education?
- Professor Salagre: Health Professional education: Opportunities and challenges

Education

- Undergraduate Students & Interns: GSMC MUHS UNESCO Bioethics unit conducts training for undergraduate students across various disciplines in accordance with the syllabus designed by MUHS and UNESCO chair, Haifa.
- Following topics were covered for other disciplines:

Sr. No.	Date	Topics Covered
February 28, 2020	160 Second MBBS and 15 Second year Occupational Therapy and 29 Physiotherapy Students of 2018 Batch attended this session	Research Ethics & Empathy
March 2, 2020	155 Interns attended this session	Doctor patient relationship and Communication Skills and Professionalism
October 12, 2020	18 Interns attended this session	Principles of Bioethics, Respect for Autonomy, Privacy and Confidentiality, Informed Consent, Benefit and Harm, Doctor patient relationship, Communication Skills and Professionalism

Students' Wing Activities:

The unit has a strong student wing that carries out various activities. The theme of World Bioethics Day 2020 is ‘Benefit and Harm’. The poster making and photography competitions were based on the same theme. Due to the current situation of COVID 19, all competitions were held online/offline mode on virtual platforms. Students were involved in planning, organizing and execution of these events. Experts from outside and within the institute are invited as judges.

- Poster making Competition 2020: Poster making competition was held on the theme ‘Benefit and Harm’. All the participants were instructed to submit soft copy of their poster on mail.
- Photography Competition 2020:
- JIGYASA ‘Ethical Reflections on the COVID 19 Pandemic’ 2020: This was an attempt to tender young minds in nurturing and understanding research. They were given four articles related to various ethical challenges during the pandemic for critically appraising. The participants presented a summary of the article, its strong points and weak points. They were asked to imagine they were writing an original bioethics paper and what was the single most ethical challenge they would focus on. This was followed by question answer session from the judges. Total 12 registrations were received from the undergraduate students of Seth GSMC & KEMH.

- IDEON 'Ideas Combating the Pandemic' 2020: Few Hypothetical situations were given to the participants and Individual participants were expected to make a short PPT explaining the solution for 5 minutes, followed by question answer round for 6 min.
- STORY TELLING Competition 2020: This was based on this year's theme 'Benefit and Harm'.
- Research & Publications
- The Annual bulletin of the unit, "INARCH" based on the theme "Benefit and Harm" will be released during the World Bioethics Day celebration on 19th October 2020. Dr Padmaja Samant is the editor of this bulletin.
- INARCH articles:
 - o Dr Thosar, Dr Jiandani. The New Normal Story of Human Resilience
 - o S/T Chavan. Benefit and Harm in the Context of Nursing as a Profession
 - o S/T Arya Deshmukh. COVID 19 and Nursing Resource Management: Balancing Benefit and Harm
 - o Dr Praveen Iyer, Dr Anjali Telang. Impact of Online Teaching and Assessment on Teachers and Students of Medicine and Allied Health Sciences Courses During COVID 19 Pandemic
 - o Dr K Bhate, Dr P Samant. Impact of the Pandemic on Gender Discrimination: A Health Systems Perspective
 - o Dr Shetty et al. Ethical Issues in Clinical Research During COVID 19 Pandemic
 - o Dr Padmaja Samant. Laws, Medicine and Sexual Health: Weighing Benefit and Harm
 - o Ms Shruti Tilak. INARCH My Experience Thus Far
- 'Communication Skills for the Leaders in Health Professions Education' chapter by Dr Santosh Salagre in a book 'Effective Medical Communications'.
- 'Physiotherapy in the Covid Ward: Where Compassion Overcomes Fear' a narrative by Mariya Prakash Jiandani was published in Indian Journal of Medical Ethics, in August 2020

Workshops, Conferences & Paper Presentations-

- Dr. Santosh Salagre was a invited faculty for
 1. 'Bioethics Faculty Development Workshop' at MUHS Nashik in February 2020
 2. '3T Training of Faculty in Bioethics' at Karpagya Vinayaga Institute of Medical Sciences, Chennai in February 2020
 3. 'BIOETHICON 2019' International Conference on Bioethics in Health Sciences at SRM University Chennai. He also conducted a Preconference Workshop on 'Professionalism and Bioethics' for undergraduate students
- Oral presentation by Nidhi Ranka at Scientifica, Pune of research titled 'Perception of Knowledge, Attitude and Practices in Bioethics in Physiotherapy'. Nidhi Ranka, Omkar Thakur, Mariya Jiandani
- Oral presentation by Dr Devi Bavishi at an International Conference of Bioethics- World Congress of Bioethics Philadelphia, USA University of Pennsylvania of research titled 'Assessment of Ethics and Professionalism among Medical Undergraduate Students in a Tertiary Care Teaching Hospital: A Questionnaire Based Cross-sectional Survey'. Marathe PA, Bavishi D, Pooja SG, Kokate DK, Mulkawar A, Rege NN

Awards & Honors

Ms Nidhi Ranka won first prize in undergraduate category at Scientifica, Pune for oral presentation on research titled 'Perception of Knowledge, Attitude and Practices in Bioethics in Physiotherapy'.

Dr Mariya Jiandani participated as Indian representative in 'International Global Conference on Ethical Issues faced by Physiotherapists during COVID 19 Pandemic'

Looking Ahead

- Empowering Faculty in teaching Bioethics and clinical ethics
- Training of Postgraduates in Bioethics and Clinical Ethics

Institutional Animal Ethics Committee

- The Institutional Animal Ethics Committee (IAEC) of the Seth GS Medical College and KEM Hospital functions according to the guidelines laid down by the Committee for the Purpose of Control and Supervision of Experiments on Animals (CPCSEA) and is registered with the CPCSEA for the purpose of 'Breeding and Research on animals' (Registration no.:60/PO/ReBi/S/99/CPCSEA).
- The internal members are appointed from institutional faculty members while four CPCSEA members are nominated on the IAEC by CPCSEA.

Sr. No.	Name of IAEC Member	Position on IAEC	Department
Institutional Members			
1.	Dr. Sandhya Kamat	Chairperson	Pharmacology & Therapeutics

Sr. No.	Name of IAEC Member	Position on IAEC	Department
2.	Dr. Priyanka Prasad	Scientist from different biological discipline	Microbiology
3.	Dr. Shruti Bhide	Member Secretary	Pharmacology & Therapeutics
4	Dr. Yogesh Wankhede	Veterinary officer in charge of animal facility	Pharmacology & Therapeutics
Non-institutional Members			
1.	Dr. Rahul Thorat	CPCSEA Nominee	Scientific Officer D, ACTREC, Navi Mumbai
2.	Dr. Vinita Kulkarni	Link Nominee	Veterinary Docor, Mahim Pet Clinic, Mumbai
3.	Dr. Sangram Chavan	Scientist from outside the institute	Department of Pharmacology and Toxicology, Bombay Veterinary College, Mumbai
4.	Mr. Sunish Kunju	Socially aware Member	Plants and animal welfare society Mumbai

Meetings held in 2020: One on 29th December 2020

New projects submitted in 2020: 8

Ongoing projects: 12

Projects completed in 2020: 9

Institutional Ethics Committee (IEC-1, IEC-II & IEC-III)

Registration / Accreditation / Recognition	IEC-I	IEC-II	IEC-III
Established on	6 th January, 1987	14 th November, 2008	12 th October, 2019
Reigstration / Accreditation / Recognition	IEC-I	IEC-II	IEC-III
Govt of India, DGHS, CDSCO DCGI & Licensing Authority: Drugs Controller General (India)	Re-Registration No. ECR/229/ Inst./MH/2013/RR-19 Valid from 22.04.2019 to 21.04.2024	Re-Registration No. ECR/417/ Inst./MH/2013/RR-19 Valid from 06.08.2019 to 05.08.2024	-
Govt of India, Ministry of Health & Family Welfare, Dept of Health Research (DHR)	Provisionally approved on 12th Oct 2020 File no. – EC/NEW/ INST/2019/202	Provisionally approved on 12th Oct 2020 File no. – EC/NEW/ INST/2019/200	Provisionally approved on 12 th Oct 2020 File no. – EC/NEW/ INST/2019/203
SIDCER & FERCAP: Strategic Initiative for Developing Capacity in Ethical Review (SIDCER), Forum for Ethical committees in Asia and the Western Pacific Region (FERCAP) for its compliance with international and local standards in ethical review.	Awarded on Nov 20, 2016	Awarded on Nov 20, 2016	-
NABH: National Accreditation Board for Hospitals & Healthcare Providers (Constituent Board of Quality Council of India).	Valid from May 19, 2018 thru May 18, 2021 Certificate No. EC-CT- 2018-0027	-	-

Current SOPs Version 6.1, Dated 29th June 2020 effective from 1st August 2020

Both IEC-I and II presently function according to the requirements laid down in DCI, New Drugs and clinical trials rules, 2019 (NDCTR), and is guided by the ICH GCP guidelines for Good Clinical Practice, ethical principles set forth in the Declaration of Helsinki and the Ethical Guidelines for Biomedical Research on Human Subjects laid down by the Indian Council of Medical Research.

1) Total meetings of IECs held in the year 2020

IEC- I		IEC- II		IEC- III		SAE Subcommittee		Total meetings		TOTAL
1/1/2020 to 21/03/2020	During pandemic	1/1/2020 to 21/03/2020	During pandemic	1/1/2020 to 21/03/2020	During pandemic	1/1/2020 to 21/03/2020	During pandemic	1/1/2020 to 21/03/2020	During pandemic	
2	12	3	7	2	5	7	23	14	48	61

2) Total initial projects reviewed by IECs

	IEC- I		IEC- II		IEC- III		Total		TOTAL
	1/1/2020 to 21/03/2020	During pandemic	1/1/2020 to 21/03/2020	During pandemic	1/1/2020 to 21/03/2020	During pandemic	1/1/2020 to 21/03/2020	During pandemic	
Pharma	2	16	-	-	-	-	2	16	16
GOVT	-	8	3	10	-	-	3	18	21

	IEC- I		IEC- II		IEC- III		Total		TOTAL
	1/1/2020 to 21/03/2020	During pandemic	1/1/2020 to 21/03/2020	During pandemic	1/1/2020 to 21/03/2020	During pandemic	1/1/2020 to 21/03/2020	During pandemic	
Other Academic (OA)	-	5	32	42	26	71	58	118	176
Thesis	2	1	31	42	38	30	71	73	144
TOTAL	4	30	66	94	64	101	134	225	359

3) Active projects as on 30th Dec 2020

		Total	TOTAL
IEC-I	PHARMA	26	33
	GOVT	5	
	OA	1	
	Thesis	1	
IEC-II	GOVT	24	513
	OA	158	
	Thesis	331	
IEC-III	PHARMA	-	456
	GOVT	9	
	OA	148	
	Thesis	299	
TOTAL		1002	1002

4) Projects are in process (queries sent to investigators)

		Total	TOTAL
IEC-I	PHARMA	15	25
	GOVT	2	
	OA	5	
	Thesis	3	
IEC-II	GOVT	5	110
	OA	61	
	Thesis	44	
IEC-III	GOVT	1	118
	OA	66	
	Thesis	51	
TOTAL		253	253

Serious Adverse Events reported and reviewed in the year 2020:

	Particulars	PHARMA	GOVT	
1	Total no. of SAE at our site:	Initial report	14	8
		Follow up report	19	4
		causality	-	-
2	Total no. of death	-	2	
3	Responses (query) from EC regarding our site SAEs Noted letters sent	Query letters sent	34	8
			42	6
4	Total no. of Adverse Events (AE) reported	15	-	
5	Total no. of SUSAR/CIOMS reported:	6923	-	

1. Composition:

Member list of IEC-I as on 18th December 2020

Sr. No.	Name	Designation/Role of member Ethics Committee
1	Dr. Mrs. Padmavathy Menon	Chairperson
2	Dr. Mrs. Yashashri Shetty	Member Secretary (Basic Medical Scientist)

Sr. No.	Name	Designation/Role of member Ethics Committee
3	Dr. Mrs. Urmila Thatte	Member (Basic Medical Scientist)
4	Mrs. Dr. Charulata Londhe	Member (Clinician)
5	Ms. Veena Johari	Member Legal Expert
6	Ms. Meera Shah	Member Social Scientist
7	Dr. Mrs. Sai Kulkarni	Member (Lay person)
8	Dr. Bhaskar Krishnamurthy	Member (Basic medical scientist)
9	Dr. Sandeep Bavdekar	Member (Clinician)
10	Dr. Mrs. Sanjeevani Zadkar	Member (Clinician)
11	Dr. Kaizad Damania.	Member (Clinician)
12	Dr. Milind Tullu	Member (Clinician)

Member list of IEC-II as on 18th December 2020

Sr. No.	Name	Designation/Role of member Ethics Committee
1	Dr. Subodh Sirur	Chairperson
2	Dr. Alka Subramaniam	Co-Chairperson (Clinician)
3	Mrs. Palsule Shilpshree	Member Secretary
4	Dr. Sharmila Jalgaonkar	Joint- Member Secretary (Basic medical scientist)
5	Dr. Swapna Kanade	Member (Clinician)
6	Dr. Smrati Bajpai	Member (Clinician)
7	Dr. Pradnya Talawdekar	Member (Legal Expert)
8	Dr. Nilesh Thakre	Member (Social scientist)
9	Dr. Sai Kulkarni	Member (Lay person)
10	Dr. Sona Dave	Member (scientific expert) (Clinician)
11	Dr. Priyanka Honavar	Member (Clinician)
12	Dr. Sandeep Sonone	Member (Clinician)

Member list of IEC-III as on 18th December 2020

Sr. No.	Name	Designation/Role of member Ethics Committee
1	Dr. Leena V Gangolli	Chairperson (External)
2	Dr. Sushma Save	Co-Chairperson (External)
3	Dr. Amey Rojekar	Member Secretary
4	Dr. Snehalata Gajbhiye	Joint- Member Secretary (Basic medical scientist)
5	Dr. Kavita Joshi	Member (Clinician)
6	Dr. Melita Vaz	Member (External Social Scientist)
7	Dr. Sai Kulkarni	Member (Lay person) External
8	Mrs. Jaimala Shetye	(Member)
9	Dr. Kranti Kadam	Member (Clinician)
10	Dr. Suchin Dhamnaskar	Member (Clinician)
11	Dr. Vijaya M. Babre	Member(Clinician)
12	Dr. Prerana Shah	Member (Clinician)
13	Dr. Yuvaraj B. Chavan	Member(Clinician)

2. IEC office bearers:

	Name	Designation	Name of the IEC	Contact details
1	Ms. Janhavi Katkar (nayanvkatkar@gmail.com)	General Manager	IEC	Tel: 24122188, 24107515, Ext. no. 7515 Email: iec-1@kem.edu iec-2@kem.edu iec-3@kem.edu
2	Ms. Manali Naik	Deputy Manager	IEC-I	
3	Ms. Shweta Surve	Deputy Manager	IEC-I	
4	Ms. PrajaktaAuti	Deputy Manager	IEC-III, SAE Subcommittee	
5	Ms. Manasi Lad	Sr. Executive Assistant	IEC-II	
6	Ms. Rasika Nikharange	Executive Assistant	IEC-II	
7	Ms. Sneha Bhogle	Executive Assistant	IEC-III	
8	Mr. Pranay Toraskar	Executive Assistant	IEC-II	
9	Mr. Mangesh Khochade	Office Assistant	IEC	

6) Activities of the IEC

Training programs organized

NDCTR and Site Monitoring workshop on 31st October 2020 online via Google Meet. All Three IEC's members attended the workshop.

Institutional Committee for Stem Cell Research [IC-SCR]:Established: 2008

Registered under National Apex Committee for Stem Cell Research and Therapy (NAC-SCRT), Department of Health Research Ministry of Health and Family Welfare Government of India

Registration number: NAC-SCRT/55/20200209 Validity: 11.09.2020 to 10.09.2023

Date of constitution of IC-SCR- 9th July 2020

Sr. No.	Name	IC-SCR Designation
1	Dr Vasantha Muthuswamy	Chairperson and Ethics Expert*
2	Dr Medha Rajadhyaskha	Vice-Chairperson*
3	Ms Tanu Mehta	Legal Expert*
4	Dr Mrunal Marathe	Social Scientist*
5	Dr Jyoti Kode	Stem Cell Expert*
6	Dr Deepa Bhartiya	Stem Cell Expert*
7	Dr Yashashri Shetty	Member Secretary and Ethics Expert*
8	Mrs Manisha Naik Dalal	Layperson*
9	Dr Deepak Modi	Immunologist
10	Dr Kishori Apte	Toxicologist
11	Dr Taruna Madan	Immunologist
12	Dr Rashmi Dalvi	Paediatrician /Clinician
13	Dr Pushkar Shikharkane	Internal Medicine/Clinician

- Initial ICSCR was constituted in 2008 and was functional till on 2012. Now it is reconstituted and functional from 9th July 2020
- Current SOPs dated 12th June 2020 are available on our website www.kem.edu
- Department Institutional Committee for Stem Cell Research [IC-SCR]
- One online meeting on Cisco Webex app, held on 7th August 2020. One government sponsored project and one academic project were submitted to the IC-SCR for initial review during the year. The GOVT sponsored project is approved and ongoing and the academic project is in process.
- Dr Yashashri Shetty: Member Secretary, IC-SCR
- Mrs. Janhavi Katkar, Administrative Manager

Hospital Infection Control Committee*Members of KEMHICC*

- Dean (G & K), DD I, DD II
- Prof. and Head - Anesthesia, Chest Medicine, CVTS, ENT, General Surgery, Medicine, Microbiology, Neonatology, Nephrology, Neurosurgery, Ophthalmology, Pediatric Surgery, Plastic Surgery, Urology
- Professors – Community Medicine, Paediatrics, Pathology, Pharmacology

- Associate Professors – OBGY, Orthopedics, Microbiology
- Assistant Professor – Cardiology, Microbiology
- Matron, Assistant Matron, Infection Control Nurse, Superintendent of Pharmacy, A.E (M & E), A.E (Civil), Security Officer, ORM

Activities

- Three meetings were held during the year in the months of February, March and November.
- With the declaration of Covid – 19 as a public health emergency early in 2020, with the first cases being reported in India by end January, with a spike in the number of cases by March-April, and the realization of human to human transmission mainly through droplets and contact and of airborne transmission subsequently especially in areas generating aerosols, infection control and prevention had to be stepped up like never before. The role of KEMHIC therefore became more significant.
- KEMHICC was pro-active in identifying and implementing measures for IPC such as
- Preparation and circulation of different policies related to COVID e.g. Infection Prevention and Control(IPC) policy, ambulance cleaning policy, Extended use of N-95 mask, Biomedical waste segregation policy for COVID related areas.
- KEMHICC successfully implemented the rational use of personal protective equipment (PPE) and extended use of N-95 masks during the COVID pandemic. (KEM is the only hospital where infection control team was involved in rational distribution)
- Conducted training in infection prevention and control and Biomedical waste Management related to COVID for health care workers in KEM hospital.
- Maintaining high standard of quality of PPE and N95 at all times with HoD, Microbiology, LTMGH by preparing specifications of PPE including N-95, regular quality check of PPE for each lot every day not only for KEM but for all hospitals of MCGM.
- Representing to higher authorities with HoD, Microbiology, LTMGH, the need of NIOSH approved N-95 mask.
- Identifying and assisting in making a separate storage area for COVID waste.
- Innovative design of UV disinfection for COVID requisition forms
- Assisted in introduction and rational distribution of other infection prevention and control related material such as antimicrobial door mat at doffing areas of COVID wards, shoe cover machine in COVID lab, sensor based hand sanitizer machines and foot operated hand sanitizer stands in all COVID wards/Lab/ICUs.
- Coordination and maintenance of porta cabin for safe specimen collection.
- Prepared a video on donning and doffing procedure of PPE and circulated the same to all the HCWs.
- KEMHICC wished to thank those donors who provided PPE during these difficult times.

Internal Complaints committee for Prevention of Sexual Harassment

No.	Name	M/F	Post	Designation
1	Dr. Padmaja Samant	F	Chairperson	Gynecology
2	Dr. Rajneesh Pande	M	Member	Anatomy
3	Dr. Nayana Ingole	F	member	Microbiology
4	Bhavesh Sahligram	M	Member	Clerical staff
5	Vijay Jawlekar	M	Member	MSW
6	Mrs. Deepali Jadiyah	F	Member	Nursing
7	Mrs. Darshana Kadam	F	Member	Nursing
8	Mrs. Dorin Marija	F	Member	Nursing
9	Swatija Paranjape	F	Member	NGO member

Meetings conducted: 4 times in the year

- Besides processing complaints; the committee conducted sensitization of
 - o 1st year MBBS students
 - o Obstetrics and gynecology department

Institutional Committee for Stem Cell Research (ICSCR)

Registered under

National Apex Committee for Stem Cell Research and Therapy (NAC-SCRT),

Department of Health Research Ministry of Health and Family Welfare Government of India

Registration number: NAC-SCRT/55/20200209 Validity: 11.09.2020 to 10.09.2023

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7	Dr Yashashri Shetty	Member Secretary and Ethics Expert *
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Journal of Postgraduate Medicine (JPGM)

- Journal of Postgraduate Medicine (JPGM) (Print ISSN 0022-3859, E-ISSN 0972-2823), is a quarterly peer-reviewed international biomedical journal published under the auspices of the Staff Society of Seth GS Medical College and KEM Hospital, India. The journal is published by Wolters Kluwer India Private Limited. JPGM promotes published papers by electronically supplying the records to the National Library of Medicine at the time of online publication, making it sure that the citations are retrievable from MEDLINE as early as possible. Similarly, the citations in MEDLINE are cross linked from the official site of MEDLINE to the journal's site, thus the readership of published articles is increased many folds. The journal is registered with the following abstracting partners: Baidu Scholar, CNKI (China National Knowledge Infrastructure), EBSCO Publishing's Electronic Databases, Ex Libris – Primo Central, Google Scholar, Hinari, Infotrieve, National Science Library, ProQuest, TdNet, and Wanfang Data.
- The journal is indexed with, or included in, the following: DOAJ, EMBASE/ Excerpta Medica, Emerging Sources Citation Index, Indian Science Abstracts, IndMed, MEDLINE/Index Medicus, PubMed Central, Scimago Journal Ranking, SCOPUS, Science Citation Index Expanded, and Web of Science. Currently the journal is in its 66th year of being published. Impact Factor® as reported in the 2019 Journal Citation Reports® (Clarivate Analytics, 2020) is 1.167; and its 5 year impact factor is 1.014. The journal's full text is available online at www.jpgmonline.com and www.bioline.org.br/jp.
- The journal's website (www.jpgmonline.com) gets over 2,500 visitors every day. The journal allows free access (Open Access) to its contents and permits authors to self-archive final accepted version of the articles on any OAI-compliant institutional / subject-based repository. The earlier Editorial team consisting of Dr. Sunil Karande (Editor); Dr. Shirish Joshi and Dr. Manjula Sarkar (Associate Editors) and Dr. Mariya Jiandani, Dr. Sweta Salgaonkar and Dr. Shilpa Sankhe (Assistant Editors) completed its 4-year term on 30th June 2020.
- A new Editorial team consisting of Dr. Sunil Karande (Editor); Dr. Mariya Jiandani and Dr. Sweta Salgaonkar (Associate Editors); and Dr. Snehalata Gajbhiye, Dr. Sharmila Jalgaonkar and Dr. Urwashi Parmar (Assistant Editors) started their term from 1st July 2020.
- The journal received 1,391 manuscripts (of which 634 were original articles) for publication during the year 2020; and the acceptance rate was 4%. In spite of the COVID-19 pandemic, an overwhelming majority of the journal's esteemed Reviewers submitted their reviews on time; and all 4 issues have also been published on time.
- The JPGM iPad / android app has resulted in the journal's increased visibility and readership resulting in a healthy royalty income. Both the accounts (main and conference) of the journal for the financial year 2019 - 2020 have been audited and submitted to the Staff Society.

ORACON – ORATIONS held at the institute

21st January, 2020- MLT

- Dr. U.K. Sheth Oration :delivered by Dr. Aleksandr Bedenkov on “Medical Leadership of the Future : The Industry’s Perspective” Chairperson: Dr. Urmila Thatte, Dr. Sudhir Pawar
- Dr. Sindhu R Pandit Oration : delivered by Dr. Ravi Ramakantan on “ I ? – An Exploration into the Nature of the Self” Chairperson: Dr. Lopa Mehta, Dr. Hemant Deshmukh

23rd January, 2020- MLT

- Dr. Janak Shah Oration: Speaker- Prof. Dr. Ashok K Gupta, Topic- “Sixty years of my journey in Ophthalmology” Chairpersons: Dr. Sunil Pandya, Dr. Sheela Kerkar
- Dr. Ram Prabhoo Oration: Speaker- Prof. Dr. S.R. Mukhi, Topic- “My disclosures- The things I wanted to disclose but couldn’t” Chairpersons: Dr. Hemant Deshmukh, Dr. S K Srivastav

Poor Box Charity Fund

PBCF was instituted by a standing Committee resolution in 1926. Donations are collected in this fund from various donors and from various sources such as Prime Minister’s National Relief Fund, Chief Minister’s Relief Fund, Mayor’s Fund, Siddhi Vinayak Trust, Mahalakshmi Trust, Saibaba Sansthan, Shirdi Etc. The money is used for poor and deserving patients after necessary sanctions are obtained.

Research Society

The office bearers and executive committee member of Research Society for the period from 2019- 2024 is as follows:

- President: Dr. Hemant Deshmukh Dean Seth GSMC & KEMH
- Hon. Vice President: Dr. N. Sawant,
- Hon. General Secretaries: Dr. B. Mhatre & Dr. H. Nandgaonkar & Hon. Treasurer: Dr. K. Joshi
- Executive Committee members: Dr. S.H. Ravat, Dr. S. Bhide, Dr. S. Kanade, Dr. R. Pandey, Dr. A. Agrawal, Dr. S. Rane & Dr. S. Umbarkar
- Activities:
- Research grant for 8 research projects twice a year upto Rs. 75000/- undertaken by the faculty and are the members of the Research Society.
- All research proposals are sent to the evaluators (KEMH & other colleges) for evaluation twice in a year.
- Institutional activities and functions – Organizing “ORACON” every year - August & December and contributing to the expenses of all the “ORACON” held.
- Financial support to the following Institutional activities:
 - a. Educational/ CME program – student’s conference “Confluence”
 - b. Departmental CME
 - c. Website of remotex software
 - d. Printing of annual report of institute

Research grants (set 1 - 2020) for 7 projects were given upto Rs. 75000/-.

- Donations of Rs. 98,08,850/- received for research project from Cardiology, Neurology, Clinical Pharmacology, Hematology & Plastic surgery. Ongoing projects: 15 & New research projects: 5
- Life Membership fees received Rs.3,000/-
- Executive committee meetings held = 8 and AGBM = 1
- Rs. 32634/- for Remotex software to Gosumec Alumni Association
- Rs. 2000/- monthly to website assistant

Research grants (Set 1 - 2020) upto Rs. 75000/- were sanctioned for following research proposals.

- Dr. Tukaram Jamale [Nephrology] Topic: A study of clinical features, laboratory parameters and genotype- phenotype correlation in patients of Distal Renal Tubular Acidosis
- Dr. Jayashri Kale [OT] Topic: To study the relationship between muscle tone and voluntary control and their relationship to upper extremity function after a cerebrovascular accident- A correlational study
- Dr. Sandhya Kamat [Pharmacology] Topic: Evaluation of the protective effects of Aegle marmelos and Phyllanthus emblica in an animal model of intestinal mucosal barrier dysfunction
- Dr. S Gajbhiye [Pharmacology] Topic: Evaluation of effect of Dextromethorphan on post traumatic stress disorder model in C57BL/6 Mice.
- Dr. Rujuta Hadaye [Community Medicine] Topic: A cross sectional study to assess the occupational health hazards

among fisherwomen in a metropolitan city.

- Dr. Hemant Nandgaonkar [OT] Topic: Efficacy of parent-child interaction guidance in children with regulatory disorders of sensory processing between the age group of 7 months to 3 years.
 - Dr. Nithya Gogtay [Clinical Pharmacology] Evaluation of Genotyping and Therapeutic Drug Monitoring vs. only Therapeutic Drug Monitoring as a strategy for risk minimization in epileptic patients on carbamazepine therapy: A Randomized Controlled Trial.
- Research Society spent Rs. 3.5 lakhs towards Research grant during this period.

Regional Resource Centre (RRC)

Seth G. S. Medical College & KEM Hospital, Mumbai was selected as a Regional Resource Centre for Western Region under National Medical College Network (NMCN) project in 2015. In the first phase of NMCN scheme, 5 Govt. Medical Colleges from the states of Maharashtra, Gujarat and Goa which already have connectivity provided by National Knowledge Network (NKN) have been identified for NMCN activities. This linkage is for Tele education, TeleCME, Tele specialist consultations, Tele follow-up, sharing of surgical & interventional skills and access to Digital Library.

Aims & Objectives

Tele-education - Sharing of Knowledge, Continuous Medical Education for Medical and Para Medical staff, sharing of surgical & interventional skills, etc.

Tele-consultation - Expert consultation to patients in inaccessible/Tribal and urban areas and where doctors are not available for any reason. (under development)

E-Learning and Digital Library -Access to e-Books, e-Journals and e-Resources, creating Digital Library infrastructure facilitating medical researchers and knowledge seekers to have continuing education programme (e-CME) in respect of basic and recent developments in the health / medical fields.

Telemedicine Program Management Unit (NMCN)

Dr. Hemant Deshmukh -Dean and Chairperson

Dr. Gita Nataraj - Nodal Officer, RRC & Member Secretary, I/C Digital Library

Dr. Pritha Bhuiyan -Member Dr. Nayana Ingole – Member

Dr. Rajneesh Pandey- Member

Human Resources for NMCN: -

Telemedicine Infrastructure & Network Administrator - Mr. Tushar Kotwal Content Developer - Mr. Badal D Patil

NHM Support Facility Manager - Mr. Sandeep Mehendale Content Developer (e-classroom) – Mr. Vivek Yadav

AV Technician (e-classroom) – Mr. Babubhai Chawda

Various activities carried out under NMCN: -

- 301 Tele-education sessions have been conducted during the year.
- Tele-Education International webinars were conducted/attended by Departments of Endocrinology, Microbiology and Neonatology, Bioethics Unit.
- Live audio-visual demonstration of Dissections from dissection hall to digital medical lecture theatre/eClassroom in Dept. of Anatomy which has benefited 250 UG Students.
- Radiology Master Class by Dr. Ravi Ramakantan, Dept. of Radiology as expert faculty has been initiated for PG students.
- Embryology lecture series and Neuroanatomy lectures by Dept of Anatomy.
- Webinar Anaesthesiology Series by Department of Anaesthesia, Seth GSMC and KEMH, Mumbai, 764 participants register on NMCN portal.
- Live streaming sessions via YouTube have been conducted for clinical programs by Depts. of Anatomy, General Surgery, Medical Education Unit and Occupational therapy.

NMCN activities taken under COVID 19 at RRC, Seth G. S. Medical College & KEM Hospital, Mumbai. Various activities carried out under NMCN during Covid-19 pandemic situation included ongoing e-learning sessions/tele-health services, preparation of educational videos/content and recording the lectures COVID-19 related educational content materials: -

Following tele-education/ e-learning educational content activities were conducted during COVID 19 pandemic:

- Organised live streaming CME on Novel CORONA Virus 2019 to attend/view the participants from remotely (4 Feb 2020 views - 331+).
- Live streaming of MCI Advanced Course in Medical Education (ACME)(7 Feb 2020 views - 187+).

- PG CME GENSURG 2020 using live streaming on NMCN & YouTube to attend/view for the PG Students/participants, (16 -20 March 2020 views - 2277+)
- Recorded video & content created on COVID 19 – Donning and Doffing Demonstration by Dept of Microbiology, HICC, KEMH. (views - 1032+)
- Prepared and recorded the video lecture/content development activity on COVID for Dept. of Community Medicine, Dept. of Microbiology, Dept. of General Medicine, Dept. of Chest Medicine, Dept. of Forensic Medicine, Dept. of Psychiatry, Dept. of Anaesthesia.
- Regional Specialized Web-Based Training Programme on COVID-19 capacity building of urban stakeholders was held by Regional Centre for Urban & Environmental Studies (RCUES) of All India Institute of Local Self Government (AIILSG), Mumbai. Experts included faculty from Dept. of Preventive & Social Medicine (PSM), Dept. of Microbiology 29-30 June, 10 September & 11 November 2020)
- Organised webinar, lectures and tutorials cum lectures and practicals for MBBS students during COVID 19 via Google Meet (kem.edu)/Zoom/Microsoft Team VC platform. For 250/180-UG,PG Students/participants attended. Till date, 123 sessions have been conducted by Depts. of Anatomy, Pathology, OBGY, Preventive & Social Medicine (PSM), Cardiology, General Surgery, Microbiology, Radiology, Anaesthesiology and Occupational Therapy.
- Used the platform for conducting MBBS, MD, MS, Mch, DM Virtual Practical Exam (MCI) via Google Meet(kem.edu) Depts involved - Pathology, OBGY, Orthopedics, Community Medicine, CVTS, Cardiology, General Surgery, Radiology, Ophthalmology. Paediatrics' Anaesthesia, Plastic Surgery (Plastic & Reconstructive Surgery), Anaesthesiology, Paediatric Surgery, Otorhinolaryngology (ENT), Endocrinology, Psychiatry, Clinical Haematology, Physiology
- COVID-19 Educational Videos – 70+ available
- Content Development activities - 79 videos created/edited. Knowledge videos Repository available on NMCN web portal (www.nmcn.in)
- Organised training on COVID-19 for Medical College, Doctors and Nursing & Paramedical, Health care Workers in eClassroom.
- Digital Medical Library - Books, e-Resources, Print + Online Medical Journal subscriptions have been made available for students, which is accessible to college campus on intranet via internet.
- eClassroom/ Digital Medical lecture theatre (Theatre 3) has been utilised to conduct live lectures, CMEs/Workshops, academic clinical program, RMO orientation program, etc. for live streaming and remote lecture sharing/interactive with other 50 medical colleges across India. RRC, eClassroom/Digital Medical Lecture Theatre - 124 session and 5 GMCs (Maharashtra, Goa, Gujarat) of Western Region NMCN till date 1644 session has been conducted/attended.

Student Grievance Committee

- Dr. Hemant Deshmukh, Dean & Chairperson, GSMC & KEMH
- Dr. Milind Nadkar, Academic Dean
- Dr. Amita Joshi, Member Secretary
- Dr. Aparna Deshpande, Member
- Dr. Vishal Gupta, Member

Main objectives of the committee are:-

- To formulate the policy to investigate and review complaints or grievances of UG / PG students and faculties.
- To create awareness of availability of members for students and faculties to report grievances.
- To investigate the cause of grievances.
- To ensure effectual solution depending upon the gravity of the complaint received.

Scholarship Fund

The committee comprises of

- Dr Amita Joshi (secretary)
- Dr Niranjan Mayadeo
- Dr Anjali Rajadhyaksh
- Dr Lopa Mehta (advisor)

This was set up to support the staff members to be engaged in academic activities like going to a centre of excellence in India or abroad for further study which will benefit the department and the institution. There is a corpus of approximately Rs 25L. The interest generated is utilised for this purpose.

- a. The staff member should have completed 5 years of service, before being eligible to avail the scholarship.
- b. He / she should not be engaged in private practice.
- c. There should be letter from the respective head of department that the activity supported will be beneficial to the department in future.
- d. He / she should not have availed the scholarship in the previous 5 years.
- e. Maximum of Rs 30,000/- refundable + Rs 30,000/- non-refundable amount is sanctioned after obtaining supporting bills / tickets and other documents showing the expenses involved.
- f. Refundable amount is charged @ 5% simple interest per year and LIC policy or similar financial document is held by the office as guarantee till the refundable amount with interest is returned.
- g. Periodic reminders are sent for recovery of the refundable amount.

Poor Boys' Fund

This was set up to support undergraduate students (medical & paramedical) who are less privileged to buy books etc. There is a corpus of approximately Rs. 5 L. The interest generated is disbursed equally to all eligible applicants. The committee comprises of Dr Amita Joshi (secretary), Dr Niranjan Maydev, Dr Anjali Rajadhyaksh, Dr Lopa Mehta (advisor).

- a. In September applications are invited from the students. They must also attach proof of family income from Tahsildar or similar office
- b. UG students are interviewed by the committee.
- c. Interest amount is equally disbursed amongst the eligible students. (upto maximum of Rs 12,000/- per student / per year can be given).

Staff Society

STAFF SOCIETY of SETH G.S.MEDICAL COLLEGE & KEM HOSPITAL, is registered under Bombay Public Trust Act 1950 on 10.03.1993.

It is a non profit organization with aims and objectives as under:

- A) Dissemination of research activities and advancement of medical education to practising doctors, staff, students and general public in order to improve delivery of health care to the patients
- B) To promote sense of fraternity among the members by arranging Social function.

For attainment of the above aim and objectives the association may:

1. Hold periodical meetings to discuss the scientific and clinical matters from the institution and promote healthy exchange of ideas.
2. Publish scientific material including Journal of Post –Graduate Medicine
3. Discuss problems pertaining to Medical Ethics and Medical Education.
4. Co-operate with other Medical Societies, associations of KEM Hospital.
5. Raise funds through contribution, donations, advertisements, functions or any other way from members donors /others, as decided by the Executive Committee.
6. To coordinate all the orations of Seth GSMC & KEMH with respective departments and organization.

Do all things as are incidental or conducive to the attainments of the above objectives or any other.

Executive Committee members and office bearers of Staff Society:

- Dr. Hemant Deshmukh- President.
- Dr. Santosh Salagre-Hon. Secretary
- Dr. Padmaja Samant - Hon. Jt. Secretary
- Dr. Sujata Lavangare -Treasurer
- Dr. Sunil Karande - Editor JPGM
- Executive Committee Members: The procedure for formation of new executive committee for the period 2019- 2021 is ongoing, hence there were no monthly meetings from Aug 2019 to December 2019. As per Dean sir's instruction the current committee continues to work till further orders.
- During period from January 2020 - Dec 2020, Monthly Scientific meeting & EC meeting organized were as follows:
 1. *218th Meeting* : 22nd January 2020: Felicitation of Dr. S P Dandekar- Ex HOD Biochemistry, Dr. M S Sarkar- Ex HOD Cadiac Anesthesia, Dr. S J Bhatia- Ex HOD Gastroenterology, Dr. N Dave- Prof pediatric surgery- Anesthesia on their superannuation from MCGM service
 2. *Annual dinner on Foundation Day*: Tuesday, 22nd January 2020: Contributory Annual Dinner was organized by the

Staff Society with entrainment programme followed by games and dinner in college lawn. All the participants of annual dinner were presented a folder memento.

- New JPGM committee was formed for the period from 1st July 2020 to 1st July 2024 as below:
Dr. Sunil Karande (Editor)
Dr. Mariya P Jiandani (Associate Editor)
Dr. Sweta Salagoankar (Associate Editor)
Dr. Urwashi I Parmar (Assistant Editor)
Dr. Sharmila V Jalgaonkar (Assistant Editor)
Dr. Snehalata Gajbhiye (Assistant Editor)
- From February 2020, there were no activities conducted because of pandemic & restriction.

Telemedicine

- The Maharashtra Telemedicine Project was initiated as a collaborative project of Indian Space Research Organization (ISRO), Govt. of Maharashtra (GoM) and Municipal Corporation of Greater Mumbai. The project is one of the major initiatives under the National Health Mission (NHM). The KEM Hospital Telemedicine Center has been connected with Telemedicine Centers at Aheri, Alibaug, Chandrapur, Karad, Kamathe, Nandurbar, Navapur, Ratnagiri, Sindhudurg, Sawantwadi, Satara, Shahapur and Thane through a satellite link & Broadband connection. The KEM Telemedicine Center is working as a Specialty Center and its doctors are providing expert advice (all specialties and super-specialties) to patients and doctors from these peripheral centers.

The working of the KEM Telemedicine Center is supervised by the KEM Telemedicine Committee:

- Chairperson: Dr. Hemant Deshmukh (Dean, KEM Hospital)
 - Member/s: Dr. Milind Tullu, Additional Professor, Pediatrics Department.
 - The day-to-day working of the Center is carried out by Mr. Sandeep Mehendale, the Facility Manager.
- In the period January 2020-November 2020 a total of 4337 patients have derived benefit of expert advice from specialists of KEM Hospital

Through this Telemedicine Center, KEM Hospital and Municipal Corporation of Greater Mumbai are providing their contribution for promotion of health of Maharashtra's rural populace. Many departments also use the KEM Telemedicine Centre facilities for scientific lectures, academic communications and training programs.

- The details of the quantum of consultations provided at the KEM Telemedicine Center is given in Table 1 below :

Sr No	District	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Total
1	Akluj	5	9				2	1					17
2	Amravati	6	1	1			1		8	5	6		28
3	Aundh	68	41	17		2	19		29	7	14	16	213
4	Alibaug								3			9	12
5	Chopada		1						1			19	21
6	Gadchiroli	6											6
7	Gondia	38	27	35							6	18	124
8	Islampur	35	34	24	4	11	15			5	5		133
9	Kalvan	32	39	20			18	23	15	29	13	21	210
10	Kamthe	79	64	44	18	9	10				2	39	265
11	Karad	21	40	32	15	4	3		3	9	3	6	136
12	Malegaon						1	5				1	7
13	Nandurbar	69	19	11		1			2	1			103
14	Navapur	89	70	63	27	35	25	42	27	35	31	34	478
15	Nashik	30											30
16	Osmanabad	49	33	14			32	16			11	13	168
17	Parbhani		9	1									10
18	Pusad		8										8
19	Ratnagiri	178	177	147	71	38	39	1			1	63	715
20	Satara		8		12		24						44

21	Sawantwadi	93	72	41	15	22	14	10	4	3		11	285
22	Shahapur	82	43	53	18	21	31	10	15	36	40	42	391
23	Shegaon	2		1						2	24	20	49
24	Sindhudurg	109	146	124	104	96	48	1	2	61	29	1	721
25	Thane	26	21	9									56
26	Umarga	9		3		2	1				1	2	18
27	Udgir	11											11
28	Wardha	7											7
29	Warora	23	30	17									70
30	Washim			1									1
	Total	1067	892	658	284	241	283	109	109	193	186	315	4337

Women's Development Committee [WDC]

- The Women Development Committee (WDC) was established in this hospital in November 2006 and comprises of representatives from various cadres of teaching, non-teaching, nursing, clerical and labour staff and medical students. The WDC looks after the welfare of women. The new committee was appointed with effect from October 2018 and following are the new office bearers:

Sr. No.	Name	Position
1	Dr. Hemant Deshmukh	Dean, GSMC & KEMH President
2	Dr. Mridula Solanki	Chairperson
3	Dr. Urmila Thatte	Committee Member
4	Dr. Ameet Fadia	Committee Member
5	Dr. Rupali Borkar	Committee Member
6	Dr. Swapna Kanade	Committee Member
7	Dr. Prasad Bhangre	Committee Member
8	Dr. Deepika Nandanwar	Committee Member
9	Mrs. Shruti Gamare	Committee Member
10	Mr. Vijay Jawlekar	Committee Member
11	Mrs. Neha Dabholkar	Committee Member
12	Mr. Tanay Dixit	Committee Member
13	Mrs. Anjali Kharkar	Committee Member
14	Mr. Vaibhav Juvekar	Committee Member
15	Mr. Harshad Kawle	Committee Member
16	Mr. Sanjay Khare	Committee Member

It has conducted following activities this year

- 30th January 2020: Haldi Kumkum programme & Games conducted on the occasion of Makar Sankranti with a talk on the "ONE STOP CENTRE" at KEM Hospital by APD. Ms. Sangeeta Punekar in the JMLT. The program was a grand success with around 65 participants.

Support Services

Support Services

Diet Department

Dietitian

CVTC

- Patient's nutritional assessment, diet planning and counselling are done on daily basis for both indoor and outdoor patients of Chest medicine and CVTC departments
- Daily ICU rounds - LICU (ward 31), IRCU (ward 32) and ICCU (ward 35)
- Oral diet or enteral or parenteral nutrition is advised based on assessment
- Diet planning and counselling for new cases of inborn errors of metabolism referred from ward or Pediatric Research Laboratory (PRL) along with regular follow ups of old cases
- Total numbers of patients seen annually are approximately 20000-25000
- Besides patient service, give guest lecture to post graduate students

Diet Dept.

- Nutritional Assessment, Diet planning and counselling of both indoor and outdoor patients referred from medical, surgical, pediatric, orthopedic and other specialty units. References from ICUs viz. SICU, IPCU, etc. are also done.
- Patients with wide spectrum of diseases like Hypertension, Diabetes, Gastrointestinal, Cardiovascular, Renal, Burns, Cancer, PEM, Inborn error, etc. are assessed and accordingly Oral diet, Enteral Nutrition or Parenteral Nutrition is advised
- Total numbers of patients seen annually are approximately 25000-30000 Besides above-mentioned clinical aspect, kitchen dept. is also been managed-
- Quality checking of perishable food items (vegetables, fruits, grocery, etc) on daily basis
- Quality checking of non-perishable food items (viz. dried pulses and dals, spices, etc.) at each delivery as well as intermittently
- Supervising food preparation, distribution and food tasting on daily basis
- Ensuring maintenance and hygiene of kitchen, kitchen equipment and kitchen staff
- Miscellaneous works viz. attending to various problems encountered in kitchen on daily basis
- Attending Diet Sub Committee meetings and other activities
- Conducting session on nutrition and food service management for Nursing and Medical professional

AKD Dietitian

Daily rounds in AKD wards namely:

- Dialysis unit- rounds are taken twice a day during working hours (morning and evening)
- Ward 34A- comprises of pre and post-transplant patients. They are being assessed, prescribed diet plan accordingly and counselled. Practice regular dietary modifications as per fresh reports and patient's clinical condition.
- Ward 34- comprises of acute and chronic renal patients. They are being assessed, prescribed diet plan accordingly and counselled. Practice regular dietary modifications as per fresh reports and patient's clinical condition.
- Ward 12 and 4- patients under AKD unit are monitored regularly.
- Attend referral calls- assess patients and advice diet. Patients are thereafter, instructed to follow up regularly throughout hospital stay and post discharge on OPD basis.
- Advise diet to OPD patients held thrice a week.
- Average no. of patients seen per day: 30-35.

Endocrine Dietitian

- Attending both inpatients and outpatients of Endocrine department- Nutritional assessment, diet planning, counselling, etc.
- Attending patients admitted in MICU
- Oral diet or enteral or parenteral nutrition is advised based on assessment.
- Attending patients referred from School clinic.
- Average no. of patients seen per day: 30-35.

Besides above-mentioned roles following duties are also performed by all dietitians

- Training of post-graduate dietetics interns from various institutions across India that includes both college and Registered Dietitian internship.
- Conducting nutrition education program for maternity homes, mid meal planning/ Poshak aahar for BMC schools and other rural schools and hostels under Maharashtra state.

Library

Highlights & Achievements

- Seth G.S. Medical College, Library Subscribed 143 journals, and purchased 66 books. The online access to all journals was made available on Intranet.
- Subscribed medical database, 'Clinical key' from Elsevier Co. All the journals from Elsevier Co. including 'clinics on all subjects' will be available online & 656 e-journals and 1135 e-books are available online through this Database on Intranet.
- Online access to 147 e-books and 146 e-journals available on "Ovid MD" medical database.
- More than 10000 e-books and more than 3000 e-journals and Dissertation & Thesis (1637- current) are available. "Times of India" (1838-2007) are also available on "Proquest" medical database. Links are available to all on Intranet.
- 114 books are available in Thieme MedOne Education.
- Subscribed following 7 databases online access to all Databases is available on Intranet.
 - o Clinical key
 - o Proquest Health & Medical Complete
 - o Ovid MD
 - o Acland Anatomy
 - o Up-to-date
 - o Thieme MedOne Education
 - o BMJ-Case Report
- Arranged orientation programme for first year undergraduate students on 2nd and 28th Aug.2019.
- Started wifi facility for Postgraduate students.
- Holdings
- Library journals' holdings are available on the KEM Website on Internet. Updated Library books' available on Webslim on Intranet. Links are given to all online resources of the Library on Intranet webpage, under the broad heading, 'Library-Resources'.

Donation and Grants

- Received grant from Central Govt. Rs.25,00,000/- for Books and journals.
- We have received the membership of National Medical Library's ERMED consortia. This has enabled to access 239 online journals.
- Free Trial access was given to following e-resources.
 - o BMJ resources – Oct. 2019
 - o b) J-Gate - Oct. 2019
 - o Access Medicine - Nov. 2019

Looking Ahead

- To subscribe more databases and planning to subscribe more e-resources, so that Doctors will get relevant latest information immediately on Intranet. We have arranged following user training programmes for Institutional members.
 - o Clinical key - 14/01/19
 - o BMJ Case Reports - 25/03/19
 - o NML - 09/7/19
 - o Ovid - 23/07/19
 - o Clinical key - 18/12/19
- It is proposed to provide more internet ports/switch boards and computers for internet access for students and faculty members.

Equipment

- Proposal put up for Compactors/ Steel trolley type racks i.e. compactors for keeping bound volumes. It saves the space in the Library and more space is available for reading.
- Proposal put up for purchase of tables and steel chairs and for students.
- Proposal put up for renovation of ground floor library.

Library Committee

The Library Committee is an advisory committee and following members are present in it.

- Dr. H. Deshmukh - The Dean
- Dr. Gita Natraj - Prof.I/c,Library
- Dr. S. V.Parulekar – Member
- Dr. Bhuiyan – Member
- Dr. Amita Mehta – Member
- Dr. C. T.Deshmukh – Member
- Dr. Nithya Gogtay – Member
- G. S. of Student - Member
- Mrs. M.S.Khochikar – Secretary
- The Library Committee meets periodically to take policy decisions. It helps the Chief Medical Librarian for deciding the purchase of Medical Journals, Books, Medical databases & other Library material.
- Library Committee members help the library to introduce new technologies such as Intranet, which help readers to get better services. They try to get donations/grants for Library.
- Overall the Library Committee looks after the welfare of Library.

Medical Stores

The General store plays vital role in the day to day functioning of this hospital in procurement, storage and distribution of X-ray films, Surgical dressing materials, Rubber Goods, Laboratory articles, Instruments, Surgical sutures materials, Syringes & needles etc. Schedule & non-schedule items both are procured by general store related to the store. Stationary department provides stationary materials to whole hospital which comes under General store. There are 12 staff members in this store which consist of 1 Head Clerk, 7 Clerks and 4 Hamal at present.

Pharmacy

Highlights and Achievements

- World Pharmacist day was celebrated on 25th September in KEM hospital. The pharmacy department organized group competition, to celebrate the day. Motivational lectures were delivered to hospital pharmacists on patient counselling.
- Pharmacy department has initiated overall medicine monitoring along with Clinical Pharmacology department's ADR and medicine monitoring team.

The pharmacy department conducts annual training for D. Pharm, B. Pharm and M. pharm interns from different Pharmacy colleges across the state in collaboration with Department of Clinical Pharmacology, KEM Hospital, Mumbai.

Staff

- Mr. Prakash. G. Mahale - Suptd. of Pharmacy
- Mr. Sucheta J. Potdar- Dy. Suptd. of Pharmacy
- Mr. Sheetal V.Chandan – Pharmacist
- Laboratory Technicians
- Laboratory Assistants
- Laboratory Attendants

Dispensary

- Most of the medicines are dispensed through 4 units to the OPD patients and various preparations as per KEM formulary are given to indoor patients from dispensary.

Staff working at dispensary

- Head Pharmacist, Mr. Vinod Gamare
- Senior Pharmacists and other Junior Pharmacists

Social Service

Highlights & Achievements

- M/s All Cargo through CSR funds are supporting patients suffering from CA Breast for medicines
- G.T. Seth Trust providing finance for medicines to all department patients in emergency
- Aadi Jin Yuvak Charitable Trust help for medicines and equipments

Patient care

- Counselling, donations & rehabilitation of patients. Total no. of patients counselled by Community Development Officer CDO's- 31,888
- In collaboration with NGO Nareindas Morabai Budhrani Trust counselling services by trained CDO's and Psychologists. Financial support for Haematology & Chemotherapy patients and Breast OPD cancer patients

Community care

- Awareness programme with Anti-Drug Abuse and HIV - AIDS with BMC employees with spouses at various places
- Awareness programmes with Anti Narcotic Cell
- Awareness programmes on Domestic Violence
- Dementia Awareness at 'F' South
- Bone density testing for 107 patients at Savli Premises

Education (Including student activities)

- Guidance and field work orientation provided to post graduate students of different social work colleges
- Training programmes for counsellors I CDO's posted in the Blood Banks.
- Field work placement of post graduate students of different social work colleges

Donation & Grants

- Total patient specific donations collected by COD's for patients' surgeries and medications: 8,77,57,913/-
- Stools and chairs provided for patients and relatives in the wards.
- Tables and chairs provided for doctors in the OPD's
- Water filters in the wards I OPD
- Donation for wheel chairs, walker, Trolleys, Waterbeds, Refrigerators in the OPD's
- Distribution of fruits, dry fruits, mattresses, bed sheets, blankets, bags, cloths, toys and entertainment articles, notebooks, etc. for the patient
- Distribution of Aid beds, Diapers, Suction Machine, Central Line, BP Monitor for the patient.
- Distribution of lunch, breakfast and evening tea with snacks to patient relatives.
- Distribution of lunch for Thalassemia patients
- Elisa Microplate Reader arranged in the Blood Bank
- Fully Automated Coagulometer Machine for patients provided in Haematology Department
- Multipara Monitor for Anaesthesia Department
- Micro Motor Drill Machine with accessories provided in ENT Department
- Capsule endoscopy machine provided in Gastroenterology Department
- Microwave tissue Ablation Machine provided in Surgery Department

Looking Ahead

- Identify and tap new donors for the benefit of patients and patient care
- In-house training programme and lectures for CDO's
- Rehabilitation for the patients with the help of donors in KEM Hospital campus.
- Separate building for patient's relatives for stays in the campus

Committees

CDO's are actively involved in following committees

- Ethics Committee
- Domestic Violence Committee
- Sexual harassment at work place committee
- Women Development Committee

Contact Information

Contact Information

Department name	Designation	Mobile no.	Intercom	Landline no.	E-mail Address
Administration					
Hemant Deshmukh	Dean		7700	24107862	---
Milind Nadkar	Academic Dean		7020	24107862	
Nirmala Barse	Deputy Dean I		7438	---	---
Chetna Kantharia	Deputy Dean II		7797	---	---
Manoj Telkatvar	Asst. Dean		7053	---	---
Shamal Patole	N/L Incharge		7019	24107019	---
Seema Mhatre	A/O Store		7415		
Rajesh Kurhade	A/O G		7032	24107434	---
Jalandhar Chakor	A/O K		7808		
Namrata Dolas	Personal Asst. to Dean		7020	---	namrata1dolas@gmail.com
Support Services					
Engineering (Civil)					
SandipKumar A Wagh	AE Civil	8104943427	7454	---	---
Sagar Kore	SE Civil	9773711073	---	---	---
Amol Jadhav	SE Civil	9136199555	---	---	---
Prasad R Gosavi	Sub Engineer	9987175076	7454	---	---
Nikhil N Nalawade	Jr. Engineer	9594519381			
Engineering (Mechanical & Electrical)					
Jayant Shirsat	Asst. Engineer	9029277375	7030	24107459	ae01me@mcgm.gov.in
Vinay Shedge		9619276979			
Neha Sankhe	Asst. Engineer	9029212943	7768	24107799	ae02me@mcgm.gov.in
Kiran Nalawade		7387504184			
Ketan Gawande		8879991627			
Rajesh Badwaik	Junior Engineer	9665335753	7456	---	---
Furniture & Linen					
Dilip Pratap	Head Clerk	---	7403	24107403	---
Nursing					
Pratima Naik	Matron		7013	24107013	---
Sushila Kori	Sr. Asst. Matron				
Lata Kamble	Sr. Asst. Matron	---	7013	---	---
Sindhu Mane	Sr. Asst. Matron				
Alka Patil	Jr. Asst. Matron	---	7013	---	---
Akshara Shelke	Jr. Asst. Matron	---	7013	---	---
Social Service					
Kishor Jadhav	HOD SSD I/C	8097470944	7075	---	---
Sadhana Bhatkhande	CDO	---	7421	---	---
Shambho Dalvi	CDO	---	7311	---	---
Vijay Jawalekar	CDO	---	7055	---	---
Ravindra Ingole	CDO	---	7484	---	---
Rajesh Kamble	CDO	---	7421	---	---
Subhash Salve	CDO	9869001865	7430	---	---
Prakash Sawant	CDO	---	7489	---	---
Vasant Sutar	CDO	9969656651	7079	---	---
Deepak Shingane	CDO	9322638955	7140	---	---
Rupali Gujar	CDO	---	7489	24107055	---

Department name	Designation	Mobile no.	Intercom	Landline no.	E-mail Address
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Dadaso Sonwalkar	CDO	---	7820	---	---
Chandrashekhar Koli	CDO	9869647294	7430	---	---
Uma Jadhav	CDO	---	7271	---	---
Alpita Khade	Clerk cum Typist	---	7271		
EPLC		---	7096	24107096	---
Sarala Lade	CDO	---	7578	---	---
Vijay Rathod	CDO	---		---	---
Diet					
Dilip Pratap	Head Clerk	---	7403	---	---
Safala Mahadik	Sr. Dietician	9769304734	7865	---	safalmahadik@yahoo.com
Shruti Shettigar	Dietician	---	---	---	---
Bhakti Tulaskar	Dietician(AKD)	9819792618	---	---	---
Neha Amol Pansare	Dietician	7208099188			
Deepa Nachankar	Dietician(Endo)	---	---	---	---
Linen					
Devidas Koli	Head Clerk		7403	---	---
Laundry					
Dilip Pratap	Head Clerk		7403	---	---
Virsingh Kamble	Assistant	---	7323	---	---
Kisan Gawit	Assistant	---	---	---	---
Library					
Maduri Khochikar	Chief Medical Librarian	9322155296	7499	24107499	infolibrary@kem.edu
Shreya Sapre	Junior Librarian	9224086431	7499	24107499	---
Pharmacy					
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Committees, Societies, Services and Publications					
Institutional Animal Ethics Committee					
Shruti Bhide	Secretary	---	7444	---	shrutibhide72@gmail.com
Gosumec Alumini					
Gita Nataraj	Secretary	---	7406	24129099	nostalgia@kem.edu
Institutional Ethics Committee (IEC)					
Institutional Review Board- 1					
Yashashri Shetty	Member Secretary				iec-1@kem.edu
Institutional Review Board- 2					
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Institutional Review Board- 3					
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Institutional Stem Cell Committee					
Yashashri Shetty	Member Secretary		7444		
Janhavi Jatkar	Administrative staff		7515		
Journal of Postgraduate Medicine					
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Mariya Jiandani	Associate Editor				
Shweta Salgaonkar	Associate Editor				
Sharmila Jalgaonkar	Assistant Editor				
Snehlata Gajbiye	Assistant Editor				
Urwashi Parmar	Assistant Editor				

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Research Society					
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Amita Joshi	Vice President	---	7406	---	staffsociety@kem.edu
Jaimala Shetye	Hon. Secretary				
Surekha Prabhu	Treasurer				
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The year that was.....



Covid scare in child turns out to be peanut stuck in airway

Vinamrata.Borwankar @timesgroup.com



Dhairya Patil with his mother

The peanut had swollen up in the child's airway and caused an infection. "A peanut swells up when stuck in the airway and releases oils. This had caused an infection. The child had tested negative for Covid-19, but we ran a second test. Once the results were negative, we did a bronchoscopy to remove the peanut," said ENT surgeon Dr. Na Patil.

Mumbai: Nearly eight days after two-year-old Dhairya Patil started showing classic Covid-19 symptoms such as fever, cough and breathlessness, doctors at KEM Hospital's ENT department on Wednesday removed a peanut lodged in the toddler's airway easing his discomfort and bringing respite to his harried parents who had travelled by private ambulance from Dhule on Sunday.

"We didn't know he had inhaled a peanut. About a week ago, he developed a fever and cough."

7-year-old gets stent for rare heart disease

Had 10 Times The Normal Level Of Bad Cholesterol

AN INHERITED DEFECT, SAY DOCS

What is Familial hypercholesterolemia? In Familial hypercholesterolemia, an inherited defect in how the body regulates LDL (bad) cholesterol. As a result, LDL levels in the blood remain very high, above 200 milligrams per deciliter (mg/dL).

करोनाबाधितांसाठी फिजिओथेरापी फायदेशीर



वि वि धा

KEM Hospital makes history with India's first paediatric kidney swap

Malathi Iyer | TNN | Updated: Oct 17, 2020, 05:11 IST



MUMBAI: In the midst of the Covid-19 pandemic, the BMC-run KEM Hospital has become the first public hospital in the country to carry out a paediatric renal swap transplant.

HOSPITAL PLANS SWAP TRANSPLANT REGISTRY

Two 15-year-old boys with renal failure got kidneys from the other's parent at the civic-run KEM Hospital, Parel, in March

The hospital now plans to start a swap transplant registry for the benefit of the paediatric age group

If children who are renal patients undergo transplant before six years of age, their growth will not be affected, says Dr Sujata...



करोनाबाधितांसाठी फिजिओथेरापी

करोनाबाधितांसाठी फिजिओथेरापी हा एक अत्यंत महत्वाचा उपचार आहे. यामुळे रुग्णांच्या शरीरातील विषाणूंचा नाश होतो आणि शरीराला बळकट करून देतो.

THE FREE PRESS JOURNAL

GOOGLE EXPLORES 5% STAKE IN STRUGGLING VIDARONE IDEA: FT Pg 11
POOJA HEGRDE'S INSTAGRAM ACCOUNT HACKED Pg 10

Concerned citizens or...
Free-Press-Mumbai-Ed...

ENTs perform endoscopic surgery on 8-year-old boy to remove coin

MUMBAI: A two-rupee coin lodged in the food pipe of an eight-year-old boy was removed via endoscopic surgery by the ENT doctors of King Edward Memorial (KEM) Hospital at Parel. Doctor Neelam Sathe had...

City gets 2nd Covid lab in record

Mumbai: The city got its second laboratory in a record two weeks as patients queuing up to test for coronavirus started increasing. Located at Parel's KEM Hospital, the laboratory started with 25 samples on Thursday. Now plans have been set in motion to scale it up and add equipment. Before KEM, the PCR laboratory at Kasturba Hospital was the only one carrying out tests in the city.



The laboratory set up at KEM hospital

ded to be taken... Since the machine processed six technicians under the teachers. nel and a eta Nata Dea re p set-up funds can p the e said about what to ex-