



Seth GS Medical College & King Edward Memorial Hospital
Municipal Corporation of Greater Mumbai

ANNUAL REPORT
2015

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From the Dean's desk

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 90 years, 19 lakh patients and 60,000 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 2015 was marked by several achievements. New equipment and services were made possible through funds from the municipal corporation, government agencies and munificent donations of individuals and trustees. To name a few, the Cardiology department commissioned a state of the art cardiac catheterization system and an advanced ECHO system. The Community Medicine department launched a prevention and control of malnutrition program while the Clinical Pharmacology department secured top honors by their significant contributions to the adverse drugs reactions database of the country. The CVTS department excelled by performing several complex minimally surgeries. The Forensic Medicine department has a one stop crisis centre for survivors of sexual assault while the Gastroenterology department successfully started a 6 bedded liver intensive care unit for the management of patients with liver failure. The department of microbiology became the first department to in the municipal corporation to get NABL accreditation for all tests. The neonatology department initiated nitric oxide therapy for the management of primary pulmonary hypertension in neonates and total body cooling for perinatal asphyxia. The nephrology department established an Interventional nephrology unit and the nuclear medicine department set up a radionuclide ward for patients suffering from carcinoma of the thyroid. The Obstetrics and Gynecology department set up management guidelines for obstetrics to be followed across municipal hospitals as also the department of Orthopedics for complex spinal surgeries and arthroplasties. Several departments either upgraded their equipment or purchased new equipment. Over 85 CMEs were also organized during the year and the staff published over 300 papers. Free wifi through a donation is also available in selected areas of the campus.

A glorious paradox of an educational institute is that while the alumni grow old, the Alma Mater grows, forever young. As the institute celebrates its 90th year, 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, however, 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. In the words of Bob Dole, “When it's all over, it's not who you were. It's whether you made a difference”.

Avinash Supe

Dean- Seth GS Medical College and KEM Hospital

January 2016

Editor's note

At the dawn of 2016, we are ready to embark upon another journey and look forward to yet another foundation day. 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 changes, minor and major that have taken place in the last 12 months.

The experience of putting this document together has been both humbling and enlightening. A huge thank you is due to Dr Avinash Supe, Dean for his continued faith in me, his patience, vision and tenacity of purpose. This has helped shaped the document. Gratitude is also due to heads and staff members for sending information on time. The team that helped me put the report together deserves sincere thanks- Dr Gita Natraj and Dr Lopa Mehta. My thanks are also due to my head of the department Dr Urmila Thatte for her inputs throughout the making of the report. I owe a debt of gratitude to the students of my department- Brinal and Poorwa for their untiring efforts at follow up and help with editing and formatting. Lastly, thanks are also due to Geeta and Milind at Manisha printers for layout, formatting, and inputs in the cover design and working long long hours to ensure that the report is ready on time.

While the compilation has been done over a month 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 come through and we look ahead to 2016 with new hope and zest.



Nithya Gogtay
Editor – Annual report 2015

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Seth GS Medical College & KEM Hospital

Seth GS Medical College & KEM Hospital

Vital Statistics

Scheduled beds	2250
Total number of admissions	84425
Average daily admission	231
OPD attendance [New patients]	647200
OPD attendance [Follow up patients]	1199152
Average daily attendance [old patients]	3984
Average daily OPD attendance [Old and New]	6134
Total surgeries	61421
- Major surgeries	28413
- Minor surgeries	33008
- Scopies	9015
Total deaths	6248
Death rate	7.4%
Casualty attendance	211840
Medico-legal cases	32721
In-patients days	586010
Bed occupancy	89%
Average duration of in-patient stay [days]	6.94
Total deliveries	6780

Human Resources

Nursing staff

• Matron	001
• Sr Assistant Matron	002
• Jr Assistant Matron	002
• Principal	001
• Sister	090
• Public Health Nurse	001
• Sister Tutor	026
• Ward assistant	023
• Theater Assistant	012
• Theater Suptd	002
• House keeper	001
• Staff Nurses	720
• Student nurses	100 each in 1 st , 2 nd , 3 rd and 4 th year

Undergraduate Medical Students

• Ist MBBS	178
• IInd MBBS	184
• III year - first part	187
• Final year MBBS	187

Admissions

• MD/MS	184
• Diploma	054
• DM	025
• Mch	013
• M O Th	010
• M P Th	020
• MSc	011
• MSc – by research	007

Filled posts - Clinical Departments

• Professor	054
• Associate Professor	071
• Assistant Professor	100

Filled posts – pre and para clinical departments

• Professor	024
• Associate Professor	056
• Assistant Professor	075
• Associate Profs [Adhoc]	027

Budget

(₹ in Thousands - रुपये हजारत)

Function name	2014 – 15	2015 – 16
Medical education	96296	118976
Others	-	-
Supervision charges recovered	3553	1672
Total	99849	120648
Fund centre name		
G.S medical college	96296	118976
Supervision charges	3553	1672
Total	99849	120648
Fees and user charges		
Development charges for medical college	2120	8000
Penalties recovered from contractors	-	30
Fines	900	700
Charges levied and fines imposed under RTI	1	1
Tuition fees	28000	35000
Admission fees	1500	1500
Term fees	27 000	35000
Library fees	1500	1650
Hostel fees	2000	2200
Hospital practice fees	6000	6500
Locker fees	300	300
Certificate charges	3500	4000
Bond money recovery fees	20, 000	20, 000
Miscellaneous fees	1100	1100
Others	-	-
Total	93921	115981
Sales and Hire charges		
Sale of tender form	-	-
Sale of forms	650	700
Total	650	700
Other income		
Fine	1000	1000
Rent recovery	110	220
Strike recovery	5	5
Electricity charges recovery	40	50
Contribution of salary received for staff on deputation	5	5
Contribution of pension for staff on deputation	5	5
Contribution of leave encashment received for staff on deputation	5	5
Contribution of provident fund received for staff on deputation	5	5
Other recoveries	550	1000
Supervision charges recovered	3553	1672
Others	-	-
Total	5278	3967
Others	-	-
Grand total G.S Medical college	99849	120648

Medical Education	803299	847277
Depreciation	-	-
Others	-	-
Grand total	803299	847277
G.S.M College	803299	847277
Depreciation	-	-
Grand total	803299	847277
Establishment expenses		
Basic pay (supervisory and subordinate)	183883	177254
Ex-gratia (supervisory and subordinate)	1102	1642
Salary arrears (supervisory and subordinate)	18663	-
Grade pay (supervisory and subordinate)	41869	40943
Basic pay (Labour, technical and others)	4658	16295
Ex-gratia (Labour, technical and others)	380	1687
Grade pay (Labour, technical and others)	978	3752
Dearness allowance (supervisory and subordinate)	300974	320153
Houserent allowance (supervisory and subordinate)	62297	60809
Conveyance allowance (supervisory and subordinate)	-	-
Leave travel assistance (supervisory and subordinate)	1401	1689
Municipal medical allowance (supervisory and subordinate)	202	397
Protected dearness allowance (supervisory and subordinate)	163	-
Transport allowance (supervisory and subordinate)	8817	8594
Non private practice (supervisory and subordinate)	48518	43531
Special protected dearness (supervisory and subordinate)	-	-
Family planning allowance (supervisory and subordinate)	214	232
Children education allowance (supervisory and subordinate)	1008	1478
Other allowance (supervisory and subordinate)	42279	38571
Dearness allowance (Labour, technical and others)	6199	25058
Houserent allowance (Labour, technical and others)	1534	6014
Leave travel assistance (Labour, technical and others)	112	328
Municipal medical allowance (Labour, technical and others)	110	367

Protected dearness allowance (Labour, technical and others)	51	-
Transport allowance (Labour, technical and others)	349	1128
Family planning allowance (Labour, technical and others)	115	232
Children education allowance (Labour, technical and others)	540	1383
Other allowance (Labour, technical and others)	104	211
Contribution for meeting, interest, subsidy at 4% towards housing loan	69	98
Leave encashment	6255	19841
Stipend of interns	12215	14400
Others	-	-
Total establishment expenses	745059	786087
Administrative expenses		
Property taxes/municipal taxes	15000	6000
Office electricity expenses	15700	20000
Official telephone expenses	425	425
Mobile phone expenses	40	40
Postage expenses	100	100
Stationary	30	30
Consumables	75	75
Photocopying expenses	40	40
Scanning and digitization of records	2000	2000
Conveyance expenses	50	200
Affiliation fees for various organizations/associations	8000	12500
Ceremony/ event expenses	50	50
Miscellaneous administrative expenses	255	255
Others	-	-
Total	41765	41715
Operation maintenance expenses		
Accessories	1000	1000
Chemicals and fertilizers	1300	1300
Clothing and linen	15	15
Diet and food	507	507
Drugs and medicines	6000	4000
Material	1000	1000
Other store	-	-
Spares and tools	1000	1000
— —	1000	5000
Consumption of stores/ spares – hospitals/health	100	100
General civil repairs – staff quarters	4500	5500
Total	16475	19475
Depreciation	-	-
Grand total	803299	847277

Achievements and Highlights

Achievements and Highlights

Anatomy

- Fifth Intercollegiate quiz conducted which was won by our students.
- State level workshop on "Competency-based Curriculum in Living Anatomy" conducted. Eighty six faculty members from all over the state participated.
- A Google page "sites.google.com/site/gsmcanatomy/ home" created to provide presentation of the lectures and opportunity to students to interact with faculty

Anesthesia

- One year fellowship course for Regional Anaesthesia and Anaesthesia for Gastroenterology services introduced
- Update in Anaesthesia for Urologic Surgery, Clinical meet on Cardiac Anaesthesia, CME on "Difficult Airway", and conferences on Gestational diabetes and Anaesthesia considerations for prostate surgery organized.

Biochemistry and Clinical Nutrition

- Two new biochemistry analysers with a throughput of 680 tests installed.
- 11th Good Clinical Laboratory Practices Certificate Course conducted
- Shidori was organized for First and Second MBBS Students.
- CME on Risk Management in Medical Laboratories

Cardiology

- Inauguration of the state-of-the-art Siemens Artis Z cardiac catheterisation system and the Boston Scientific Rotational Atherectomy console in October 2015.
- An advanced GE- Vivid T8 echocardiography system was donated via a corporate social responsibility initiative of ThyssenKrupp India. This system has a capacity for speckle tracking, strain imaging and contrast echocardiography.
- Over 100 Dobutamine Stress Echocardiograms performed
- Successful organisation of the CARDKEM Alumni meet
- A workshop on complex interventions conducted [balloon-assisted device closure of large ASD, RSOV device closure and PCI of chronic total occlusions, left main coronary lesions and complex bifurcation lesions] by various doyens in the field.

Chest Medicine

- Organization of "Medical Sciences including Physiology Section" by team of doctors and Scientific Officer from Dept. of Chest Medicine & EPRC. Hon.Prime Minister Shri Narendra Modi inaugurated the Congress held at Nano Science Centre & Alkesh Dinesh Modi Auditorium Mumbai University.
- An essay competition was organized by inviting Essays from ISC members. Three prizes were given by EPRC during Valedictory function of the Congress.

Clinical Pharmacology

- Conducted a MUHS approved certificate course in Clinical Research for UG students.
- Received first rank in the country in Adverse Drug Reporting (Conducted under the aegis of the Pharmacovigilance Programme of the Govt of India).
- Organized a CME on 'Principles of Medical Writing' in collaboration with the editorial team of the Journal of Post Graduate Medicine.

Community Medicine

- A Project on “Prevention & Control of Malnutrition” was launched in Khadavli PHC area of Thane District in collaboration with TATA Motors Ltd
- “Health Promotion & Risk screening Camp” conducted for Auto Rickshaw/ taxi Drivers at selected Petrol pumps. This activity was supported by Mahanagar gas Private Ltd.
- An android based application on “Mother and Child Health” was developed and promoted by the Department in collaboration with Tata Consultancy services
- Lectures on malaria, Dengue , Ebola Disease Control conducted for all doctors in collaboration with Maharashtra University of Health Sciences, Nashik
- One Ph.D student under guidance of Dr. R. R. Shinde, Professor and Head, submitted her dissertation to SNDT University.
- A state level joint conference of IAPSM / IPHA organised in Seth G.S. medical College in February 2015
- Organ Donation Posters - Emotional Appeal and Educational Posters in Marathi and Hindi on Organ Donation posters were created by patient Education Centre of Community Medicine KEM Hospital and adopted by MCGM and ZTCC Mumbai.

CVTS

- One of the few centres in India performing minimally invasive cardiac surgeries
- Complex aortic and congenital heart surgeries performed
- Procured Heart Lung Machine, Intra aortic ballon pump, blood gas analysis machine and monitors through Tata trust
- Creation of photogallery of eminent surgeons and videolibrary of surgical procedures

Dermatology

- Dr. Uday Khopkar was appointed as a Scientific Chairperson for Asian Dermatology Congress 2015
- Dr. Uday Khopkar initiated a new journal in the field of Drugs in Dermatology.
- Dr. Vidya Kharkar was appointed as Reviewer for Journal of Cutaneous and Aesthetic Surgery & Journal of Sexually transmitted infections
- Dr. Vidya Kharkar became a Committee member of Lupus India Forum Ensemble

Dentistry

- Conducted a program on ‘Dentistry & Beyond’
- Started actively managing the dental treatment of patients’ afflicted with Haemophilia.
- A program on Domestic Violence was organized by SNEHA.
- Abbott Laboratories conducted Dental Excellence Programs in the department on composites for Class 3 & 4 cavities and oral Lesions.
- Haemophilia Day was celebrated on 17th April and *Swatch Bharat Abhiyaan Drive* was organized

Endocrinology

- Conference organized was organized on ‘Endocrine Update – Adrenal Disorders : Expanding Horizons’ on 12th -13th September 2015 at The Oberoi, Nariman Point, Mumbai-400021
- A total of 8 CMEs were organized through the year on various topics like Pancreas Transplant, Pheochromocytoma, Cushing’s Syndrome, Thyroid nodule, Adrenal and gonadal disorders

ENT

- Dr. J.P.Dabholkar was appointed as the President of Foundation for Head and Neck Oncology for period of 2013-2015
- Dr Hetal Marfatia appointed as in charge of MENTCON 2015 [Scientific Committee]

- Dr. Nilam Sathe selected as Treasurer of Maharashtra State conference MENTCON 2015

Forensic Medicine

- One Stop Crises Centre and Centre of Excellence started for the Survivors of Sexual assault at K. E. M. Hospital in Ward 4A
- Continuation of "Forensic Odontology" work.
- Referral centre for sensitive, complicated, medicolegal and sexual assault cases.

Gastroenterology

- Construction of a liver ICU; a 6 bedded unit catering to patients with liver failure
- IBD clinic for patients with ulcerative colitis and Crohn's disease
- Installation of Endoscopic ultrasound in April 2015
- Availability of high definition endoscopy with image enhancement (NBI and i Scan) for detection of vular pattern abnormalities during endoscopy
- Impedence pH metry to detect non acid gastro esophageal reflux in patients with refractory GER

Hematology

- Chemotherapy services for haematological malignancies
- Comprehensive Hemophilia Care Center with an OPD every Thursday

Medicine

- Communication Skills Workshop for Post graduate students
- Foundation Course for newly admitted Post graduate students of Medicine
- MUHS approved Research Methodology Workshop for PG students and Faculty members
- Workshop on 'Hypertension- Detection & Management' was organized for Interns and first year Postgraduate students of Community Medicine

Microbiology

- Became the first department in MCGM to get NABL accreditation for all tests.
- Coordination of accreditation requirements for NABH Safe I for hospital infection control.
- Continues to provide Xpert MTB RIF Assay for rapid detection of TB and MDRTB for patients satisfying programmatic criteria.

Neonatology

- Renovation of NICU under MCGM CSR project by Mazgaon Dock Ltd. State of art NICU of 42 beds.
- Initiation of Total Body Cooling therapy for neonates with Perinatal Asphyxia.
- Initiation of Nitric Oxide Therapy for treatment of Primary Pulmonary Hypertension in neonates.
- Cerebral Function Monitoring in neonates with convulsions, asphyxia & neonatal encephalopathy.
- Initiation of delivery room CPAP for neonates with Respiratory Distress Syndrome
- Department recognized as the regional "Regional Collaborative Centre for Facility Based Newborn Care" under National Reproductive and Child Health Program of Ministry of Health & Family Welfare, Government of India supported by Norway India Partnership Initiative (NIPI) & UNICEF
- Organization of 4 Observership training programs (14 days each) for pediatricians & nurses from Odisha & Rajasthan under National Reproductive and Child Health Program of Ministry of Health & Family Welfare, Government of India
- Organization of 10th annual workshop on Neonatal Ventilation and 2nd annual nursing CME

Nephrology

- Establishment of "Dr.V.N.Acharya Division of "Interventional Nephrology." Unit The unit has started delivering services like percutaneous placement of CAPD catheters, placement of cuffed tunneled haemodialysis catheters and kidney biopsies.
- Successful performance of "Swap Kidney transplant" i.e. paired kidney exchange. This is the first incidence of such transplant at public hospital.

Neurology

- Dr.S.H Ravat attended a conference on 16th and 18th October at Andaman and gave a talk on "Autoimmune Epilepsy need".
- Dr.S.H Ravat attended IANCON conference on 2nd Oct at Agra and gave a talk on "Women and Epilepsy".

Neurosurgery

- Provision of dissection facilities mimicking actual operation theatre for performing complex neurosurgery procedures

Nuclear Medicine

- Setting up of a radionuclide therapy ward for the cancer thyroid and other cancer neuro- endocrine patients. This is the first of its kind in the MCGM regulated hospitals.

Nursing

- Full day training given on patient with HIV. This was organised by Holy Spirit Hospital in collaboration with the trained Nurses Association.
- B.C.G.Training was provided to the Staff Nurses by Community Medicine department.
- Stoma care provided to patients by specialised nurses of the hospital at Tata Memorial Hospital, Parel, Mumbai.
- A two day training session on HIV was organised for all Nurses by MDAC.
- Cadaver handling training was provided to 60 Nurses.
- Organ transplant training was given to 400 Nurses.
- Sensitization of all Nurses was carried out for the Prevention and treatment in tuberculosis and Prevention and control of Sexual Harassment at work place.

Obstetrics and Gynecology

- Management Guidelines for Obstetric Patients were developed and adopted for use at all tertiary level MCGM hospitals.
- Developed Checklists for Management of all Patient care areas in MCGM Hospitals.
- Dr S V Parulekar developed ACE classification for Congenital malformations of the Female Genital Tract.
- Completed two years of Journal of Post Graduate Gynecology & Obstetrics (JPGO) publication (open access, indexed online, free journal). Total of 129 publications including 155 articles and 12 editorials in one year.
- Completed two years of structured comprehensive postgraduate education, covering 52 topics per year in two years, and mock examinations in third year, so as to cover entire curriculum, in each unit independently.

Occupational therapy

- A poster exhibition for awareness in college building was organized on various types of Occupational therapies like Neurological conditions, in Hand Therapy, in Mental Health, Healthy Aging and evaluation process in Occupational therapy and others.

- Sensitization program for therapists and students was conducted by Mobility India on "Wheelchair assessment and prescription" in September, 2015.
- Transition seminar for interns of Occupational therapy was conducted by RCM.
- Workshop on "Surya Namaskar" conducted by Dr. Bapat in collaboration with Mumbai Branch of AIOTA (August, 2015).
- Lecture conducted by Mrs. Purnima Karia on "Cognition and driver's rehabilitation Management" on 7th December, 2015 in collaboration with Mumbai Branch of AIOTA.

Ophthalmology

- An alumnus meeting of 140 Ophthalmologists organized
- Procurement of AMO phacoemulsification machine, indirect ophthalmoscope and autorefractometer.

Orthopedics

- Specialized protocols for patient management in subspecialty of spinal surgery, arthroplasty and arthroscopy implemented.
- Cadaveric Workshop in Arthroscopy and spine, Bombay Orthopaedic Society Pelvi-acetabular Course, Monthly Clinical Meetings and Bombay Orthopaedic Society Shoulder Course were organized.

Pathology

- Up gradation & Automation of the Emergency Medical Laboratory Services in Pathology, Surgical Pathology & Cytology, Cardiovascular Pathology, Hematology & Clinical Pathology, Neuropathology & Out Patient Department of laboratory for better services and timely delivery of reports.

Pediatric Surgery

- Cadaveric Liver Dissection and Vascular anastomosis Hands-on training

Pediatrics

- CMEs on "Cracking the Code of Genetics" & "Pediatric Epilepsy: Solving an Enigma" organized

Pharmacology and Therapeutics

- Organized 8th National level workshop for postgraduates of Pharmacology "PHARMATECH 2015- Frontiers in Pharmacology"
- Conducted one day programme for Silver Jubilee Celebration of Ayurveda Research Centre, in collaboration with MUHS and a panel discussion on "Developing Collaborative Culture" for postgraduates of both, Pharmacology and Ayurveda.
- Team of II MBBS students of Seth GSMC & KEMH, August 2014 batch won Runner up trophy in the "Pharmacology Intercollegiate Quiz",
- The faculty members conducted several workshops on Research Methodology & Biostatistics

Physiology

- Students participated & secured 10th position among participants in the 13th Inter Medical School Physiology Quiz held in the month of August 2015 at the University of Malaya, Kuala Lumpur, Malaysia
- 1st Year MBBS students had secured the First position in the Best & Taylor Inter- collegiate Quiz" competition organized by T. N. Medical College.
- Sankalp Arora received 1st prize & Shalin Shah received 2nd prize in Elsevier Basic Sciences Olympiad held at AIIMS, New Delhi.
- Conducted CME "Manned spaced flight: Physiologist's delight" as a part of the 90th year celebration.

Physiotherapy

- Motor Control Retraining for patients with Stability Dysfunctions started for patients with Brachial plexus injury, hand injuries, Neuromuscular diseases, obese women with musculoskeletal dysfunction
- Fitness Training organized for Geriatrics, Osteoporotic Women
- Functional Rehabilitation for patients with Hip, knee Replacement arthroplasty and Premature babies on ventilator
- Pre and Post operative care to minimize pulmonary complications.
- Primary prevention and Rehabilitation of Cardiac Pulmonary conditions
- Syncope tilt table training.
- Adverse Neuro-dynamics in Musculoskeletal Condition
- Ozone therapy in patients with amputations and Wounds
- Stroke Rehabilitation
- Psychiatric disorders treatment programs
- Ph.D Programme started in physiotherapy with affiliation to MUHS Nashik.

Plastic Surgery

- Organized "Camp Karma" the 2nd Burn survivor camp for children of our country
- Partnership with 'ReSurge International', to benefit post burn contracture patients – all treatment provided free – including surgery, pressure garments and splints.

Psychiatry

- Methadone maintenance clinic in collaboration with United Nations Office of Drugs and Crime
- Organized Mental health week
- Schizophrenia caregivers support program
- Mental health awareness and deaddiction programs
- Dr SR Parkar was appointed "expert psychiatrist" by the Govt of Maharashtra to monitor state funded hospitals that deliver mental care

Radiology

- Largest digital teaching library in the country

Surgery (General Surgery)

- National conference of Indian Association of Endocrine Surgeons was organized by the Department of Surgery under guidance of Dr. Abhay Dalvi in September 2015.
- Commissioning of a new EMS under the initiative of Dr Shilpa Rao

Surgical Gastroenterology

- MUHS Fellowship in Hepatobiliary surgery and Liver Transplant Surgery with intake of 1 candidate annually was conducted successfully
- Maharashtra Govt. Sponsored One year fellowship for Rural Surgeons in GI Surgery.

Transfusion medicine

- Dr. Jayashree Sharma passed the NABH Assessor course and has been empanelled as Assessor for NABH.
- Dr. Jayashree Sharma appointed as Chairperson for Quality Review Panel, Govt of India.
- The Department has been awarded Accreditation by NABH-National Accreditation Board for Hospitals and Health Care providers, Quality council of India

Urology

- Complex laproscopic procedures offered to patients.
- Advanced laparoscopic programme started along with advanced oncology and reconstructive surgery

- Regular laparoscopic donor nephrectomy is performed which is considered to be the most difficult and complex urological laparoscopic operation. This is the only centre in Maharashtra conducting the procedure.
- Procurement of the laparoscopy trainer to train postgraduate students in basic Laproscopic procedures before they perform them on patients.
- Procurement of 'Revolix Laser Machine' dual Thallium and Holmium laser for comprehensive management of prostate, bladder cancer & stone surgery. We also have 360° flexible uretero renolescope and flexible nephroscope.
- Performed 34 case of THULEP with Thallium laser and 44 cases of RIRS (retrograde intra renal surgery) for calyceal stones. This is a new service – 1st in Maharashtra offered to BMC patients at no added cost.
- Penile Implants done for patients with erectile dysfunction with failure of conservative therapy, the department offers penile prosthesis at low cost.
- A record number of 44 pediatric PCNL/URS were performed.
- Hand Transplant" Program was organized on the occasion of World Organ Donation day

Awards & Honors

Awards and Honors

Anatomy

- Sankalp Arora and Shalin Shah first year MBBS students were the winners of Elsevier Basic Sciences Olympiad 2014-15

Anesthesia

- Dr. Vaishali Chaskar got 1st Prize in Professional Diploma in Clinical Research Course in October, 2015.
- Dr. Vaishali Chaskar bagged 2nd Prize in Poster Presentation for study entitled "Comparison of three methods for depth of Central Venous Catheter Placement in Children" – at national conference of Indian Association of Paediatric Anaesthesiologist on February, 2015.
- Dr. Swapna Chilaveru bagged 2nd prize at IAPA conference for study entitled 'Comparison of IJV insertion depth by three different methods'.
- Dr. Priyanka Karnik was awarded the 2nd prize for a study entitled 'Massive Pleural Effusion Following Central Line Insertion: Tips to Remember' on World Anaesthesia Day.
- Dr. Raylene Dias was awarded 2nd prize for a study entitled 'Dexmedetomidine for anaesthesia management of pheochromocytoma in a child with VHL type 2'.

Cardiology

- Dr. Devendra Patil stood 3rd in DM cardiology Examination held in the year 2015 by the Maharashtra University of Health Sciences, Nashik.

CVTS

- Dr. Vishal Pingle stood first (Gold Medal) in the Mch exams in the University (MUHS)

Chest Medicine

- 2nd Prize for Poster presentation, "Pulmonary Proteinosis-a case series of 7 patients treated by Serial Lobar Lavage", Hariharan Iyer, Amita Athavale, Jairaj Nair, Lakshmi Menon, Smita Divate, Pradeep Vaideeswar, Sagar Raiya & Prakash Salve at the Update in Pulmonary Pathology held at Nair Hospital, 21st January 2015
- Dr. Hariharan Iyer bagged the 1st prize in Postgraduate Quiz at Broncocon 2015 at Udaipur on 3rd, 4th & 5th April, 2015
- NAPCON Zonal Quiz-Team consisting of Dr. Anurag, Dr. Aditi Punwani & Dr. Pramod Garg from Dept. of Chest Medicine won the 2nd prize at the NAPCON Zonal quiz 2015

Clinical Pharmacology

- Best Poster award for the paper entitled 'Evidence-based Medicine: Are we still up to the standard? An audit of compliance with the CONSORT Statement (2010)' of two high impact factor journals' at the WAME 2015 conference held in New Delhi on 03 October 2015 [Partha Gada and Akshay Susvirkar, UG students]
- 1st prize at the staff society meeting for oral presentation 'Association of genetic polymorphisms of CYP2C9 and VKORC1 with bleeding due to Warfarin: An Audit' [Dr Siddharth Deshpande, Assistant Professor]
- 1st Prize for a paper entitled 'A comparative study of two informed consent processes- Audio Visual (AV) consenting versus written informed consent in a single study' at the third FERCI conference held at Lucknow on December 2015. [UG student Mansi Chaturvedi]
- 2nd prize for a paper entitled 'A study comparing trial registry entries with published papers from a high impact factor journal-the Journal of American Medical Association (JAMA)' at the third FERCI conference held at Lucknow on December 2015 [Dr Poorwa Wandalkar]

- Dr R.D Kulkarni award for best poster at the 8th annual South Asian Chapter of the American College of Clinical Pharmacology for a paper entitled 'Evaluation of level of agreement of selected laboratory parameters in healthy participants Vis-a Vis reference laboratory ranges' presented on 24th April 2015. For Miss Brinal Figer

Community Medicine

- Dr. R.R. Shinde was entrusted the post of Ad-hoc I/c Dean of Seth G.S. Medical College & KEM Hospital for specified periods.

Dermatology

- Dr. M.S.N.Nitya secured 1st place in award paper in ISPD 2015
- Dr. Dhvaniil Shah secured 1st place in e-Poster presentation in ISPD 2015
- Dr. Ratan Ajgaonkar secured 1st place in e-Poster presentation in Dermazone West 2015 held in Udaipur
Dr. Ratan Ajgaonkar won 1st prize in free paper presentation in Curian 2015
Dr. Tullika Yadav stood 1st and Dr.Yogesh Kalyanpad stood 3rd in MD Dermatology exam 2015 held by MUHS ,Nashik.

Dentistry

- Dr. Nanda Pai was appointed as the treasurer of Maharashtra State Chapter- Association of Oral & Maxillofacial Surgeons of India.
- Dr. Nanda Pai was invited as a Faculty at the 7th International Workshop – Obstructive Sleep Apnoea held at MGM Hospital, Kamothe, Panvel on 17th& 18th November 2015.

Endocrinology

- Dr. Manjunath Goroshi received 1st prize in poster "Clinical profile of sporadic and familial PHPT: Is there any difference?" and 1st prize in quiz on "Metabolic bone disease"

ENT

- Dr. Nilam Sathe was selected as Treasurer of Maharashtra State conference MENTCON 2015

Medicine

- Best paper award for a project entitled 'Clinical & Laboratory profile of Elderly Hypertensive Patients' at 24thAnnual Conference of Hypertension Society of India (HSICON) on 22nd August 2015 at Indore, paper presented by Dr Gaurav Surana (PG Student)
- Best poster award for the innovative project entitled 'Foundation Course for Postgraduate Students of Internal Medicine 'at 7th National Conference of Health Profession Education(NCHPE) 2015 at Maulana Azad Medical College, New Delhi on 19th to 21st November 2015

Microbiology

- Dr. Rajarshi Gupta stood first and Dr. Rashi Mehta stood second at the MUHS MD (Microbiology) examination May 2015.
- Dr. Sujata Lall was awarded the first prize and Dr. Shreeraj Talwadekar was awarded the second prize at the Oral Paper presentation competition at The Maharashtra Chapter Conference of IAMM October 2015
- Dr. Sukanya Verma –1st prize in Teaching Pathologists Conference Quiz, April 2015
- Dr. Ujwala Kawane -1st prize in Teaching Pathologists Conference Quiz, March 2015
- Dr. Preeti Deshpande-1st prize in Teaching Pathologists Conference Quiz, March 2015
- Dr. J P Panda – 2nd prize in essay competition on World Zoonosis Day, Bombay Veterinary College

Neonatology

- Gold medal for the research work on “To compare transcutaneous bilirubin with total serum bilirubin in preterm neonates receiving phototherapy” at National conference of Neonatology Chapter of IAP, Maharashtra State Chapter of NNF, & Neonatology Forum Mumbai in November 2015. Authors: Dr. Amruta Pendse, Dr. Bonny Jasoni, Dr. Ruchi Nnavati, Dr. N.S Kabra.

Nephrology

- Dr. Divya Bajpai Presented a on paper: “Infections following renal transplantation chronology, comorbidities & effect on graft function” –Western India experience @ ISOT 2015 in October 2015 Paper was awarded “Best Paper award”.
- Dr. Divya Bajpai Presented a on paper entitled “Biomarkers & Imaging for vascular calcification, malnutrition and inflammation in CKD VD @ WZ-ISON 2015 in October 2015. Paper was awarded “Dr. B.N. Khurshedji award”

Neurosurgery

- Dr Atul Goel delivered the DR lobo oration in LUDHIANA
- The department organized the International Asia Oceania skull -based conference
- The department launched the International Society of Cranio-vertebral junction and spine

Nursing

- Mayor Awards - One Sister Incharge, One Staff Nurse & 2 Student Nurse
- Karunasheel Puraskar - Mrs. Pratiksha Lotankar (Staff Nurse)

Occupational therapy

- Ms. Kajol Poladia (First BOTH) ,Ms. Krishma Karia (Second BOTH), Ms. Hitheksha Shetty (Third BOTH) and Ms. Priya Rai (Fourth BOTH) stood first in the Undergraduate and Postgraduate Examinations of the MUHS (May-June 2015).
- Ms. Rachana Karande Won Second prize for the Poster titled “Healthy Aging” at 52nd Annual National Conference of AIOTA at New Delhi, OTICON 2015 and won Third prize for the Model titled “Innovative Technology” at 52nd Annual National Conference of AIOTA at New Delhi, OTICON 2015. At 51st Annual National Conference of AIOTA, OTICON, 2015 held on 12th to 14th April 2015 at New Delhi, AIIMS.
- Fourth B.OTh students of G. S. Medical College and K. E. M Hospital were awarded First prize for Dance Competition at 52nd Annual National Conference of AIOTA held on 7th to 9th February 2014 at New Delhi, OTICON 2015.
- Fourth B.OTh students of Seth G. S. Medical College and K. E. M Hospital were awarded Second prize for Group Singing Competition at 52nd Annual National Conference of AIOTA held on 12th to 14th April 2015 at New Delhi, OTICON 2015.

Orthopedics

- Life time achievement award to Dr. S.K. Srivastava by “Spinal Cord Society of India
- Bombay Orthopedics society awarded Dr. S. V. Vaidya’s text book “Basics of hip and knee arthroplasty” with “BOS best book award”.
- Dr. S.S. Mohanty awarded with silver jubilee oration in a diamond jubilee conference of Indian orthopaedics association in 2015.
- Dr. Tushar N. Rathod awarded with “Scoliosis Research Society fellowship award” at Hospital for special surgery, New York, United States.
- Dr. Rishi Agarwal awarded with “Dr. Ingahalikar best paper award” in ASSICON 2015.

Pathology

- 1st prize won by Dr. Rakesh Patkar in "Teaching Pathologist and Microbiologist" conference held in T.N.M.C and Nair Hospital in September 2015, in Cardiac Pathology quiz.
- 2nd prize won by Dr. Kuldeep Bhaduria in "Teaching Pathologist and Microbiologist" conference held in T.N.M.C and Nair Hospital in September 2015, in Cardiac Pathology quiz.
- Highest numbers of fellows (12) enrolled in Fellowship programme in various subspecialties of Pathology, since 2010.
- The Dhayagude award for the best thesis in autopsy won by Dr. Snehal Manoorkar for the thesis topic "Autopsy study in MICU deaths"

Pediatrics

- Dr. Mukesh Agrawal was awarded prestigious "Dr. S.S. Dave Oration" at State Conference of Indian Academy of Pediatrics, Chattisgarh State Branch on 31.10.2015 (at Bilaspur). Topic of Oration- "Chronic Lung Diseases in Children: Expect the Unexpected".
- Dr. Milind Tullu's Biography was published in "Top 100 Health Professionals" 2015 (International Biographical Centre, Great Britain).
- Dr. Milind Tullu's Biography was published in "Marquis Who's Who in the World" 2015 & 2016 (Marquis Who's Who, USA).
- Dr. Milind Tullu's Biography published in "2000 Outstanding Intellectuals of the 21st Century 2015 (9th Edition)" (International Biographical Centre, England)

Pediatric Surgery

- Dr Sandesh Parelkar was the convener of the Vesicoureteric Reflux symposium at the Annual Conference of Indian Association of Pediatric Surgeons in Mumbai in Oct 2015 [50 years of formation of the association]

Physiology

- Late Dr. Dharani's Cash prize of Rs. 5000 was awarded to Dr. Yogita Sulaxane for standing 1st in university exam of M.D. Physiology, amongst the students of Seth G.S.M.C.
- Late Dr. Dharani's Scholarship Cash prize of Rs. 1000 was awarded to Armaandeeep Singh Aulakh for standing 1st in Physiology in 1st M.B.B.S. exam conducted by university, amongst the students of G.S.M.C
- Dr. Arunkumar stood 2nd in Maharashtra state in MD Physiology Examination held by MUHS in June 2015.
- Dr. Manjusha Kawale secured 2nd prize for Poster presentation at ASSOPICON 2015 at Bareilly for "Comparison of reaction time between hypertensives of age 40-60 years practicing yoga and not practicing yoga."

Physiotherapy

- Satej Dalvi bagged 1st prize in OT-PT category at Trinity 2015 for paper entitled 'Graded motor imagery in Complex Regional Pain syndrome I & II'- "Functional diagnosis how is it different"
- Riddhi Manjrekar got 3rd Prize in poster presentation at Innovation 2015.
- Satej Dalvi got 1st prize at UG musculoskeletal paper Award at Scientifica 2015 for a study entitled 'Assessment of reaction time and percentage of accuracy for laterality recognition in health adults- A pilot study'
- Nikita Singhanian bagged 2nd prize at UG Musculoskeletal Junior paper Award at Scientifica 2015 for a paper entitled 'Effect of body positions on Q angle measurement'
- Rucha Ryas bagged 3rd prize at UG Junior paper Award at Scientifica 2015 for study entitled "Corelation between core muscle activation and Dynamic Balance in health young adult population –A pilot study"
- Apurva Atkar bagged 3rd Prize in PG Paper presentation at Scientifica 2015
- Miti parikh, Gauri Tike, Hetal Shah got 2nd prize in Basket ball at Aavishkar sports.
- Sidra Shaikh, Sumer Shaikh, Nehakshama & Krishna bagged 1st prize at FARHENHEIT

Plastic Surgery

- Vinita Puri (Prof and Head)
 - Secretary General of Asia Pacific Burn Association
 - Executive Committee member of Association of Plastic Surgeons of India
 - Invited as Visiting Professor to Department of Plastic Surgery, Stanford University
- Raghav Shrotriya (final year resident)
Received the Mc Neil Award in the APSI Junior best paper category
- Anup Sarda (final year resident)
Received the APSICON attending scholarship for 2015

Pharmacology and Therapeutics

- Best Poster Award to Rege NN, Tripathi RK, Dandekar SP for "Faculty Development for interactive teaching in large group" presented as a part of the MCI Advance Course on Medical Education, MCI Nodal Centre Faculty Development, Christian Medical College, Ludhiana on 28th February, 2015.
- Best Oral Paper Award (UPPSALA Best Paper Award) to Biswas M, Rege NN, Karnik ND, Nataraj G, Dhediya RM for "Study of adverse drug reactions in patients receiving antimicrobial agents in medical intensive care unit of a tertiary care teaching hospital" presented at SOPICON 2015, organised by Society of Pharmacovigilance, India, held at Kolkata from 31st October – 2nd November 2015.
- 2nd prize to Vaidya PH, Kamat SK, Shetty YC, Singh KNM for paper "Is coercion involved in medical students participation in research studies?" presented at 3rd FERCI (Forum of Ethics Review Committees in India) conference at SGPGIMS Lucknow 11-12 December 2015.
- Joint 2nd prize at ABR (Asian Bioethics Review) essay competition 2015 to Vaidya PH, Kamat SK, Shetty YC, Singh KNM for "Is coercion involved in the decision making of medical students participating in research? : A cross sectional study".
- Joint 2nd prize at ABR (Asian Bioethics Review) essay competition 2015 to Jalgaonkar SV, Bhide SS, Tripathi RK, Shetty YC, Marathe PA, Katkar JV, Thatte UM for "Assessment of protocol deviations submitted to the Institutional Ethics Committee of a teaching hospital in Mumbai, India".
- 2nd prize for the oral paper to Jalgaonkar SV, Bhide SS, Tripathi RK, Shetty YC, Marathe PA, Katkar JV, Thatte UM for "Assessment of Protocol Deviations submitted to the Institutional Ethics Committee of a teaching hospital in Mumbai, India" presented at 189th Scientific meeting of staff society held on 25th March 2015 at Seth GSMC & KEMH, Mumbai.
- 3rd prize for the poster presentation to Patel T, Tripathi RK, Rege NN, Bagel TR for "Impact of an educational programme to promote research ethics in undergraduate medical students" presented at VII National Conference on Health Professions Education (NCHPE) organized by Maulana Azad Medical College, New Delhi from 19th -21st November, 2015

Psychiatry

- Dr. S. R. Parkar, Prof. & HOD, Dept of Psychiatry, received the 'Navshakti Sanman Puraskar' for 'Best Doctor' by Hon. Chief Minister of Maharashtra Shri Devendra Phadanvis. This award is bestowed on 10 individuals for outstanding work in their field.

Surgery (General Surgery)

- Dr. Sameer Rege presented papers at the National Conference of Hernia Society of India at Hyderabad and won awards for the same.

Surgical Gastroenterology

- Dr. Chetan Kantharia was awarded Honorary FACRSI degree (Fellow of Association of Colorectal Surgeons of India)

- Dr. Chetan Kantharia was appointed as Academic Convener of The Board of Studies of Association of Colorectal Surgeons of India
- Dr. Sharvari Pujari was awarded a Zoventus Fellowship to US for Minimal Invasive Surgery
- Dr. Mirza Kasim Beg and Dr. Sagar Kurunkar were awarded FACRSI degree (Fellow of Colorectal Surgeons of India)

Transfusion medicine

- 2nd Best poster presentation prize in 4th Annual National Conference of Transfusion Medicine - TRANSMEDCON-15 KOLKATA. Topic of presentation:- "Prevalence of Factor VIII inhibitors in Congenital Hemophilia A patients at Tertiary Care Centre". [Neha Hurkat, Jayashree Sharma, Swarupa Bhagwat]

Urology

- Best contributor in urology in the year of 2015- The Duscon achievement award 2015 was conferred at a national conference held in Delhi on 20th November, 2015.

Community Care

Community Care

Anesthesia

- Basic life support training courses for paramedical personnel
- Participation in blood donation camps

Chest Medicine

- Nine health surveys to study effects of air pollution on health in various parts of the city
- Annual respiratory morbidity survey of chlorination in plant workers in different parts of the city
- Social awareness camps and lectures
- Awareness and treatment camp at Chaityabhoomi from 4-6th Dec 2015
- Doordarshan interviews by Dr. Amita Athavale on World TB day

Dentistry

- Public awareness on the side effects of tobacco, gutka and paan
- Training in Municipal schools on oral health
- Counseling on oral health in children
- Teaching and training in brushing techniques
- Conducted a dental camp for construction site worker's children recently at Worli.

Dermatology

- Residents participated in several health care camps – Naigaon, Sewri, Tulsiwadi and several municipal schools among others for diagnosis and management of common health ailments
- In collaboration with PSM department held a seminar on 'Awareness regarding dermatophytic infection for the residents'

Endocrinology

- Weekly visits to diabetes dispensaries at peripheral health centers attached to the institute
- 3 camps were conducted in the nearby vicinity.
- Lecture was given on diabetes awareness at Lalbaugcha Raja Mandal

ENT

- Faculty and residents were involved in various Diagnostic Camps in Mumbai and parts of Maharashtra.
- Dr. J.P.Dabholkar – Invited as faculty for Medical Camp in November 2014 in Valsad, Gujarat
- Dr. Nilam Sathe- Invited as surgeon for Medical ENT camp on 13th- 14th April 2014 at Khed, Dapoli, Ratnagiri
- Dr. Shashikant Mhasal- Invited as faculty in Children's Day Medical Camp Matunga, Mumbai

Forensic Medicine

- 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 given to Police Officers at Ahmednagar, Thane (Rural Police), Chembur Police Head Quarter, Satara.
- Expert Opinion given in the case of sensitive issue complicated medicolegal cases and sexual assault cases.
- Forensic Odontology Lecture given to Police Officers at Ahmednagar, Thane (Rural Police), Chembur Police Head Quarter, North Eastern Police Academy-Guwahati.
- Forensic Odontology lectures conducted for UG and PG student at various dental colleges

Gastroenterology

- Plan to immunize all high risk personnel against Hepatitis B.

Hematology

- Lymphoma Day – Cancer awareness programme
- Hemophilia Care patient awareness programme

Medicine

- Blood donation camps
- Lectures to private general practitioners on Malaria and various monsoon related diseases
- Lectures at IMA Panvel for Physicians on 'Management of Diabetes: Rationality and Never Trends'
- Lectures for dispensary AMO's on Monsoon related illness
- Conducted program in Geriatric OPD on " World Elderly Abuse Awareness Day" on June 15th 2015 and on " International Day of Older Persons" on 1st October 2015 in collaboration with Psychiatry, Physiotherapy and Occupational Therapy , Social Service Departments.
- Organized Hypertension detection camp on World Hypertension day, 17th May 2015 for KEMH Employees and their relatives. Relevant blood tests, physical examination, dietary advice and Physiotherapy advice was given to 225 participants.
- Health Awareness program on Hypertension for residents of Parel area was organized on 17th May 2015 in JMLT, Dr Salagre took awareness session in Marathi for 200 participants.
- Health Awareness program on Hypertension in Hindi for 105 officers and the staff of Signal & Telecom Department of Central Railways- Mumbai Division on 11th July 2015 at Vidyavihar Railway Signal Office
- Camps on monsoon-related illnesses

Microbiology

- Provided Integrating Counseling and Testing services for 1506 direct walk-in clients who wanted to know their HIV status. The service was provided free of cost and Confidentiality was ensured. They were also provided information regarding RTI/STI and TB.

Neonatology

- Weekly meetings with parents of babies admitted in NICU to educate them about Preterm and Low Birth Weight care. Approximate 1200- 1500 parents were educated in 2015.
- The department participated in the celebration of World Prematurity Day organized by Indian Foundation of Preterm Babies, Neonatology Forum Mumbai & Abbot Ltd. on 21/11/2015: Get-together of preterm babies discharged from NICUs of Mumbai & currently under the age of 3 years. The celebration function was attended by parents of 291 preterm babies. Dr. Nanavati & Dr. Kabra delivered talks on preterm care what parents need to know.

Nephrology

- Survey on prevalence of CKD in the city
- Dr. N.K. Hase participated in panel discussion on Sahyadri channel on world Kidney Day "Take care of your Kidneys".

Nursing

- Nurses voluntarily contribute during disaster periods like floods, epidemics, earth quakes and also participated in the community camps.

Obstetrics and Gynecology

- Participation in 25 health camps through the year

Occupational therapy

- Participated in 'Sarva Shikshan Abhiyaan' camp at Shirodkar High School for Municipal School children with disabilities on 9th September 2015.
- Participated in pre -school assessment of Kindergarten children at Bombay International School on 12th December 2015.
- Attended camp for employees of high court, on 31st Oct, 2015, involved in evaluation, prescription of exercises, lifestyle modification and ergonomic tips to employees of High court.
- Involved in organizing workshop on Research methodology, at Occupational Therapy school and training centre, Seth GSMC & KEMH (1-3rd Dec, 2015)
- Participated in 'Sarva Shikshan Abhiyaan' camp at Byculla Municipal School for children with disabilities in October 2015.
- Attended camp for employees of high court, on 31st Oct, 2015, involved in evaluation, prescription of exercises, lifestyle modification and ergonomic tips to employees of High court.
- Involved in organizing workshop on Research methodology, at Occupational Therapy school and training centre, Seth GSMC & KEMH (1-3rd Dec, 2015)

Orthopedics

- Staff members participated in local and regional social services camps

Pathology

- Participation in blood donation camps for monsoon related illnesses.
- Blood collection of HIV patients in the ART program
- Provision of PAP smear screening facility to MCGM maternity hospitals

Paediatric Surgery

- Birth Defect Clinic– Counselling and early intervention of congenital anomalies
- 187 families counselled since Jan 2015

Pediatrics

- Resident Medical Officers and Faculty members attend various OPDs in peripheral hospitals as a part of Peripheral Linkage Program.
- 4-6th December: Resident Medical Officers and Speciality Medical Officers attended the Health Camp at Dadar, Chaityabhoomi.
- Monsoon camps attended by Resident Medical Officers - 41
- Regular health camps attended by Resident Medical Officers - 20

Pharmacology and Therapeutics

- Participation in the health camp organized at Chaityabhumi from 4th- 7thDecember 2015 to provide care and awareness about rational use of Ayurvedic drugs.

Physiology

- Residents participated in Fever OPD
- Conducted Basic Life Support Course for first year MBBS students as well as residents & faculty for handling the emergencies

Physiotherapy

- Social awareness camps and lectures organized

Plastic Surgery

- Partnership with Resurge International wherein every patient under its fold is provided complete free surgery and post operative rehabilitative aids.
- Member, Medical Advisory Board, Impact India foundation (An international initiative against Avoidable disablement; Promoted by UNDP, UNICEF, WHO in association with the Government of India).
- Offered surgical and outpatient services to camp in Upleta, Gujarat.
- Offered outpatient services to camp in Jawhar district, Maharashtra (organized by State government)

Preventive and Social medicine

- Several Sunday camps
- Residents and interns are posted at for Mumbai Arogya Abhiyan- beneficiaries 11289
- World Cancer Day celebration -100 beneficiaries
- International Women's day celebrations – 135 beneficiaries
- World TB day- 80 beneficiaries
- World Health day- 80 ANC mothers trained
- Breast feeding celebrations week- 90 mothers trained
- World Geriatric Day
- National Nutrition Week – 100 beneficiaries

Psychiatry

Mental Health Week celebrations

- An Interschool poster competition was organized on topic 'Vyasan Soda Arogya Joda' More than 20 schools from all over Mumbai. More than 100 entries were received and participated in the competition. An award function was organized at KEMH which was attended by more than 150 students. An awareness lecture was on 'Say No To Drugs' was conducted for those students. Prizes were distributed to the winning students.
- A schizophrenia care givers support program was organized. Various issues and problem solving strategies related to care of schizophrenia patients was held.
- Mental Health Poster exhibition were held in the OPD department, emergency service and specialty clinic including geriatric OPD
- Mental Health Awareness program on 'De-addiction' on 9th Oct, 15 at Parel Railway Workshop
- Awareness talk on 'Substance Use Disorders' at Yan Gruha, Arthur Road, Mumbai on 8th Oct, 2015.
- Pamphlets related to information on Mental Health were also distributed to all the new OPD patients, attending the hospital during Mental Health Week.
- A community awareness program on 'Human Mental Health' was organized at Gender Resource Centre at MCGM
- HITGUJ helpline facilitated Mental Health Week for organizing awareness session for school and college children, teachers and also for Medical and Paramedical staff.
- Talks were given on Mental Health Awareness, signs and positive mental health in school. These included R.M. Bhat School which was attended by 600 students. Similar programs were conducted at Shirodkar School (attended by 810 students). The Social Service League School (8th Oct with 685 students)
- Sensitization on the importance of Mental Health in Children & Adult was undertaken for 55 teachers of Narawane school
- Awareness program were also conducted for school students, focusing on Mental Health Awareness, Signs & Symptoms and positive mental health at MD college (for the students of class 12), G. D. Ambekar college (attended by 80 students)

- A discourse on mental health and its importance was conducted at Central Railway Hospital, Byculla for Doctors and Nursing staff.
- Presentation on 'Mental Health' in VIPASSANA on 31st Aug, 2015
- General Health Camp was conducted for 1500 students

Surgical Gastroenterology

- Dr. Chetan Kantharia was one of the team member of The Out reach Program of International HPB Surgery team to Sri-Lanka to teach and initiate program at distant places.
- Conducts OPD every alternate Wednesday at Govandi Shatabdi Hospital
- 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

- Participation in several blood donation drives and collection of more than 2000 units of blood

Urology

- Organ Donation Awareness Camp at Rotary Club, Vadavli, Ambarnath, on 8th March, 2015 Arranged by Dr. Sujata Patwardhan
- Lecture on "Cadaver Organ Donation & Its Importance" on 27th November, 2015 - World Organ Donation Day
- Programme at Add. Commissioner of Police Office, Byculla & Nagpada, Mumbai - Dr. Sujata Patwardhan, Dr. Vinayak Waghaskar

Donations and Grants

Donations and Grants

Biochemistry and Clinical Nutrition

- A donation of Rs. 30,000/- was received from Johnson & Johnson and Becton Dickinson each for conducting the Good Clinical Laboratory Practices certificate course.

Cardiology

- Mr.Rajan A. Ruvala donated Rs.50,000/- for Heart Ailment.
- Dr.Pradhan donated Rs.50,000 for ICCU, Wd 35
- Medtronic donated Medtronic Temporary Pacemaker

CVTS

- A grant of Rs.99,330/- was received from DJST for refrigerator meant for storing blood
- A grant of Rs, 94050/- was received from DJST for patient warming blankets

Chest Medicine

- Mr. Manohar Mudras donated Bilevel CPAP machine to department of Chest Medicine.
- Mrs.Pushpa Dinkar Mehta donated one Nebuliser machine
- Prof.P.D.Chawathe donated Rs.10,000/-to the Department
- Mr.Prasanna Hendre donated one Oxygen Concentrator to the department

Clinical Pharmacology

- Research grant of Rs. 50,000/- received from the Research Society of Seth GS Medical College & KEM Hospital for the project titled, "Assessment of modulation of activity of Paraoxonase-1 (PON-1) by statins in patients requiring statin therapy" in March 2015.
- Research grant of Rs. 50,000/- received from Research Society: for study entitled, "Pharmacokinetics-Pharmacodynamics relationship of vancomycin in children with suspected or proven Gram-positive bacterial infection admitted to Pediatric intensive care unit of tertiary care hospital".
- Research grant of Rs. 50,000/- received from Research society Evaluation of prevalence of mutation in Chloroquine and sulphadoxine- pyrimethamine drug resistance associated with genes in P.vivax malaria isolate in a tertiary care center in Mumbai by nested- polymerase chain reaction techniques (nPCR).
- ICMR grant of Rs. 4,80,000/- received for the project entitled "Association of genetic polymorphisms of Cytochrome P450 2C19, ABCB1, P2Y12, Prakriti and response to clopidogrel in normal healthy participants presented" out of Rs. 14 lakhs sanctioned
- Grant of Rs. 50,000/- received from the Research society for a research project entitled 'Survey of public knowledge and perception of clinical research in Mumbai'
- Grant of Rs. 50,000/- from the Research society for a research project entitled 'Determination of laboratory reference intervals in healthy Indian adults at a tertiary referral centre'
- A research grant of Rs. 2 Lakhs received from DJST for carrying out a research project entitled 'Association of genetic polymorphisms of cytochrome P450 C19,ABCB1,P2Y12 and response to the clopidogrel'

Dentistry

- CDE program 'Dentistry and Beyond' - sponsored by Doshi Marketing, Ralph Marketing and Abbott.
- Received a grant of Rs. 89,000 from DJST for procuring various Dental Equipment.

Gastroenterology

- Donation received from DJST
- Research grant received from Research society

Hematology

- Vasantha Memorial Trust gave donation for Medicines and Food grains.
- Cancer patient Aid Association donated for Food coupons.

Medicine

- An amount of Rs 55,000/- was received from Lupin Ltd for hypertension services.

Microbiology

- NACO donated Rs.70,000/- for HIV related activity
- NACO donated Rs.46,662/- for Accreditation activity
- NVBDCP donated Rs.1,00,000 /-for Dengue and CHK testing
- DJST donated Rs.15,000 /-for PG Dissertation
- DJST donated Rs.1,00,000 /-for Departmental consumables
- Research Society donated Rs.50,000/- for Utility of Vitek-2 for yeast identification and Antifungal susceptibility Test
- Research Society donated Rs. 50,000/-for Transfusion transmitted infections- special reference to HBV,HCV and HIV

Neonatology

- Mazgaon Dock Ltd. donated Rs. 3,72,00,000/- for NICU renovation under MCGM CSR project
- UNICEF donated Rs. 11,75,870/- for Facility Based Newborn Care project
- Mr. J. S. Sanghvi donated Rs. 9,50,000/- for Hearing screening of neonates

Nephrology

- Donation from N.T.P.C. under corporate Social Responsibility (CSR) – Rs. 40,00,000/- (Colour Doppler, C-arm Image intensifier, Dialyzer reprocessing machine, Fowler Beds)

Obstetrics and Gynecology

- Dr. S. V. Parulekar donated 5 Books costing Rs. 10,000/-, to departmental library.
- Dr. S. V. Parulekar donated all issues of Journal of Obstetrics & Gynaecology of India to departmental library.
- Grant of Rs. 47,10,187/- sanctioned from ICMR HRRC (from ICMR); received Rs.31,19,327/- till date
- A grant amounting to Rs. 86,276/- received for Sexual Practices in Pregnancy and Puerperium Project

Occupational therapy

- Isaac Group LLC, New York paid Rs. 35000 for departmental developmental fund.

Orthopaedics

- Diamond Jubilee Society Trust of KEM donated department of Orthopaedics with 2 cautery machines.

Pathology

- Teaching Pathologists Conference group – Mumbai donated Rs. 5000/- for the Department and faculty development and activities.

Paediatric Surgery

- Progressive Ladies Welfare Club donated 17"HD monitor for patient care
- Anonymous donor donated Benson Textbook of Pediatric Surgery, 7th Edition

Pediatrics

- Thyssenkerupp Industrial Solutions (India) Pvt Ltd (TKIS) donated an amount of Rs. 7,80,000/- for 30 infusion pumps donated to Department of Pediatrics for use in PICU and wards. (Co-ordinated by Dr. Mukesh Agrawal & Dr. Milind S. Tullu)
- Thyssenkerupp Industrial Solutions (India) Pvt Ltd (TKIS) donated an amount of Rs. 10,47,510/- for 6 Multiparameter patient monitors donated to PICU. (Co-ordinated by Dr. Mukesh Agrawal & Dr. Milind S. Tullu)
- DJST [1965 batch] donated Rs. 1,99,500/- for the Humidifier with integrated flow generator – AIRVO2
- DJST donated an amount of Rs. 99,705/- for Three Radiant Warmer Stands
- DJST via CCTP Funds donated Rs. 24,990/- for Hand-held Pulse Oxi-meter for PICU.
- Tata Interactive Systems donated Rs.8,00,000/- for Educational grant for running the Learning Disability Clinic (both for patient care & research activity).
- Direct Relief, a an international humanitarian relief organization from Santa Barbara, California, USA donated Rs. 1 Crore for Elaprased Treatment (Enzyme replacement therapy for Hunter syndrome) worth more than One crore rupees received every year through Charitable access for one child.

Pharmacology and Therapeutics

- AYUSH donated Rs. 37,00,000 /- for a research project entitled 'Experimental study for evaluation of plant drugs'
- Dhootpapeshwar Ltd (in installments) donated Rs.2,50,000/- for a research project entitled 'Experimental study for evaluation of Ayurvedic formulation'.
- Charak Ltd donated Rs. 4,00,000 /- to the department
- Scientific sessions conducted donated Rs. 1,00,000/- for the Scientific activity and facility of the department

Physiology

- Dr. J. B. Dharani donated Rs: 4,400 for the Departmental library
- DJST donated Rs.1,05,000 for the purchase of instruments

Physiotherapy

- Two DLP projectors & 1 Laptop received through DJST
- Gymkhana donated water purifier

Preventive and Social medicine

- Donation from TATA Motors of Rs. 8,00,000/- was received for RHTC Khadavli Malnutrition Project
- DJST Grant of Rs. 94,000/- was received for the purchase of Medical Equipment
- DJST Grant of Rs. 5,00,000/- was received for Patient Education Cell

Psychiatry

- An amount of Rs. 1,52,576 /-was arranged in donation for MSWs by two donor agencies namely Lalbaugcha Raja and Euro Foundation

Transfusion medicine

- Received a donation of Rs. 30,706/- from Gosumec Alumni Association for organizing and conducting the Blood Donation Camp.

Urology

- "Ultrasound Machine" was donated by Progressive Womens Welfare Association, Mumbai.

Education

Education

Anatomy

- I MBBS, 180 students, 96.2% [pass percentage]
- MD Anatomy, 6 students, 100% [pass percentage]
- I B.P.Th, 40 students
- I B.OTh, 40 students
- Nursing 80 students
- I BPMT 13 students

Other courses for outside institutes taught by the Department of Anatomy

- Biomedical Engineering for DJ Sanghvi College of Engineering, Watumull Institute, and Vidyalankar Institute of Technology. Nursing students from Holy Spirit Institute, Fortis hospital and GP Memorial hospital are also trained. Trainees range from 15-80/year

Anaesthesia

- MD Intake : 22
- Results : 100%
- DA: Intake : 16
- Results : 100%
- CPR : Advanced Cardiac Life Support (ACLS) : 30 workshops, attended by 300 students.

New courses added and Intake (2 students per course)

The following One year fellowship course are ongoing with approval from MUHS

- Fellowship and DM Courses in Cardiac Anaesthesia
- Fellowship and DM Courses in Neuro Anaesthesia
- Fellowship Course in Pediatric Anaesthesia
- Fellowship Course in Regional Anaesthesia
- Fellowship Course in Anaesthesia for Gastroenterology services.

Biochemistry and Clinical Nutrition

- Summer Training: Undergraduate students from basic sciences all over Mumbai participated in summer training in CCBL

Cardiology

- Two Observers underwent training in the department of Cardiology this year.
 - One candidate as Cath Lab Technician training in the 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.
 - M.D. (Medicine/Allied)- 3 residents posted every two months in Cardiology
 - BPMT – 5 Students per year
 - Illyr BPTH and BOTH students & MPTH students for clinics.
 - S.N.D.T. M.Sc. Nursing students are guided for their thesis work.

Chest Medicine

Courses offered and intake:

MD (Pulmonary Medicine) : 4

- Training workshops on education

- M. Sc. Nursing students from SNDT University and Fortis hospital, Mulund regularly undertake Chest Medicine rotation. Besides delivering lectures on important respiratory diseases, bedside clinics, the faculty also acts as “external guide” for their thesis as well for their exams.
- MBBS, Occupational and Physiotherapy students are regularly posted in Chest Medicine as part of their curriculum and undergo training through lectures and bedside clinics.
- Student placement – 2 from Tata Memorial Hospital (Allied posting for M.D.- Palliative Medicine- new course offered by MUHS, Nashik)

Clinical Pharmacology

- DM Clinical Pharmacology - 01
- MD Pharmacology (Rotation for 2 months) – 11
- Ph.D –Applied Biology (Mumbai University) - 05
- Ph.D Clinical Pharmacology (MUHS) -02
- Msc. Applied Biology -02
- Msc Pharmaceutical Medicine – 04
- One year drug development fellowship under the aegis of MUHS

Community Medicine

- The postgraduate students are posted in key Public Health Institutes for advance training namely, AFMC for entomology training, TMH for Cancer prevention, Public Health Department for health administration.
- RMOs training on RTI.
- RMOs training on disaster management
- RMOs training on organ donation
- MBBS – 180 students
- Diploma in Public Health – 2
- MD PSM – 19, 14 passed this year
- PG course in Pharmaceutical medicine- conducted lectures
- B.O.Th – Lectures conducted
- BSc Nursing – Lectures conducted

CVTS

- The residents rotate through other disciplines like Cardiology, Chest medicine, Vascular Interventional Radiology and Surgical Oncology at Tata Memorial Hospital.
- The department also offers undergraduate course of three years for BPMT perfusion therapy from MUHS Nashik
- Formation of Vascular work station for hands on training a residents
3 rd Year MCh - 02
2nd Year MCh - 05
1 st Year MCh - 04

Dermatology

- 1 year MUHS fellow ship course in diagnostic dermatology
- M.D dermatology (2 seats)

Endocrinology

- DM endocrinology
- Ph.D (applied biology)

ENT

- MS ENT

Forensic Medicine

- M.D (Forensic medicine)

Gastroenterology

- D.M in Gastroenterology

Hematology

- D.M Hematology

Medicine

- M.D Medicine course
- 1 Year fellow ship in critical care medicine

Microbiology

- The department carried out undergraduate training for MBBS, B.Sc. (PT), BPMT, B.Sc.(OT) and B.Sc.(nursing) students. Post graduate training was provided to MD (Microbiology), M.Sc. (Microbiology) by research, PGDMLT and Ph.D. students.
- Two undergraduate II MBBS student representatives were selected to participate in the intercollegiate zonal quiz at the chapter conference of IAMM.
- MD Microbiology – 06 students this year

Neonatology

- DM – intake 1
- MUHS Neonatology Fellowship – 2
- IAP Fellowship -2
- NNF Fellowship -2

Nephrology

- DM Nephrology 2 per year, 100% results
- MSc – Applied Biology – 1 registered, thesis submitted
- PhD – Applied Biology, 2 registered, 1 thesis submitted

Neurology

- Epilepsy fellowship – 1 student
- B.PMT Course- 5 students for training in neurophysiology
- D.M Neurology

Neurosurgery

- Mch Neurosurgery

Nursing

- 1st year students – 99
- 2nd year students – 91
- 3rd year students – 94
- Interns – 94
- Total – 378

Obstetrics and Gynecology

Courses offered

- MBBS – 180
- DGO- 12
- MS- 24

International observers and elective trainees – 6 [From Belgium and United Kingdom]

Indian trainees - 2

Occupational therapy

Courses offered, intake for the current year and results:

- B.O.Th: 40 students
- M.O.Th: 10 students in the following specialties:
- Occupational Therapy in Neurosciences.
- Occupational Therapy in Developmental Disabilities.
- Occupational Therapy in Musculoskeletal Sciences.
- Ph. D: No students admitted in the academic year 2015-16 till date.
- Externship: 6 months duration for students from colleges affiliated to MUHS
- Observership: 1 month duration in the fields of interest

Orthopedics

- MS Orthopedics (MUHS & MCI recognized) with intake of 11 post graduate candidates

Ophthalmology

- MS Ophthalmology

Pathology

- M.D. (Pathology) – 14 students per year
- MBBS – 180 students per year
- D.M.L.T - 10 students per year
- B.P.M.T Course – 22 students
- Fellowship in Cytopathology, Renal Pathology, GI Pathology, Cardiovascular Pathology, Pediatric Pathology and Neuropathology

Pediatric Surgery

- Fellowship course in Pediatric Minimal Access- 02 students joined this year

Pediatrics

- MD Pediatrics: 16 seats (includes KEM Hospital and B.J. Wadia Hospital)
- DCH: 12 seats (includes KEM Hospital and B.J. Wadia Hospital)
- Fellowships: Fellowship in Pediatric Intensive Care (2 seats); Fellowship in Clinical Genetics (2 seats) and Certificate Course in Pediatric Respiratory Disorders (2 seats).
- MSc in Applied Biology
- MOCP (Medical Officer Certificate Course) Training Program with 4 trainees in a year. Under this program, medical officers from various district/ civil hospitals are trained in Pediatrics on an ongoing basis (in batches for 6 months each).

Pharmacology and Therapeutics

- MD Pharmacology – annual intake of 10 students. 5 PG students completed the course successfully in the first attempt
- PhD Pharmacology
- PhD in Applied Biology
- MSc Applied Biology
- III MBBS- 180 Students per year
- Sy BOTH- 40 Students per year
- SyBPTH- 40 Students per year
- B.PMT students

Physiology

- MD Physiology – intake 9 students
- I MBBS- 180 students
- III MBBS – Integrated lectures – 180 students
- FY BOTH/FY BPTH – 40 + 40
- III year OT
- Bachelor of paramedical technology 1 and 2 year - 25

Physiotherapy

- Bachelors in Physiotherapy – Four years + Six months of Internship (Intake capacity – 40)
- Masters in Physiotherapy – Three years (Intake capacity –20)
- Speciality -
 - PT in Musculoskeletal Science
 - PT in Neurosciences
 - PT in Cardiovascular & pulmonary Sciences
- Ph.D - (Intake capacity -6)

Plastic Surgery

- Start collaboration with other institutes (like Wadia, Tata Hospital) to let our students rotate there for exposure to different subspecialties like paediatric Plastic Surgery and Oncosurgery.

Psychiatry

International Observers/Trainees

- 6 observers in psychology

Courses Offered and Intake This Year

- MD (Psychiatry) – 5
- DPM (Psychiatry) – 1

New Courses/Activities

- A total of 3 training programs were conducted for doctors and nurses by Regional Technical Training Centre, Department of Psychiatry, under the aegis of Global Funds Project HIFAJAT (Round 9).

The details are as follows:

- Refresher training program from 7th to 9th April, 2015, attended by 11 participants

- OST Induction training program from 13th to 18th April, 2015, attended by 22 participants
- Induction training program from 6th to 10th July, 2015, attended by 9 participants

Radiology

- 1 year MUHS fellowship courses in Interventional Radiology, Neuroradiology USG and Colour Doppler and Vascular & Interventional Radiology.
- M.D Radiology
- DMRD course

Surgery (General Surgery)

- M. S General Surgery

Surgical Gastroenterology

- Dr. Adithya Nargund successfully passed DNB GI Surgery exams

Observers and Trainees:

- Dr. B. Arun on One year MUHS Fellowship in HPB Surgery
- Dr. Tushar Aeron on One Year Fellowship in HPB Surgery

Courses Offered:

- One Year Fellowship in Minimal Access Surgery with intake of two students every year
- One Year Fellowship in HPB Surgery with intake of one student every year
- Quarterly Basic Laparoscopic Instructional Course for Surgeons from Periphery.

New Courses added:

- MUHS Fellowship in HPB and Liver Transplant Surgery with intake of 1 candidate annually.
- Maharashtra Govt Sponsored One Fellowship for Rural Surgeons in GI Surgery.

Transfusion medicine

- MD in Transfusion Medicine

Urology

- M Ch Urology
- DNB Urology

Patient Care

Patient Care

Anatomy

- Quality education and training imparted to First MBBS and MD Anatomy for better patient care

Anesthesia

- 43 OTs in 15 OT complexes. Anesthesia services were given to about 63,000 surgical patients and the department catered to 25,000 Anesthesia OPD patients for pre-operative evaluation.
- Special post-operative pain relief services and an anesthesia intensive care unit.
- Anesthesia services were given for workshops conducted in the following specialties: pediatric surgery OT, Urology OT and Plastic Surgery OT.

Biochemistry and Clinical Nutrition

Central Clinical Biochemistry Laboratory (CCBL):

Patients' samples analyzed on:

- Two new Olympus AU 680 Fully Automatic Biochemistry Analyzers
- Two Olympus AU 400 Fully Automatic Biochemistry Analyzers
- ONE ErbaMannhein EM 200 Fully Automatic Biochemistry Analyzer along with
- Thermofisher Scientific Spectronic 20D Spectrophotometer.

The biochemical parameters which analyzed on routine basis:

- Blood Sugar (Fasting, Post Prandial & Random)
- Serum Creatinine
- Blood Urea Nitrogen
- Serum Total Protein
- Serum Albumin
- Serum Alkaline Phosphatase
- Serum Aspartate Transaminase
- Serum Alanine Transaminase
- Serum Uric acid
- Serum Bilirubin (Direct & Indirect)
- Serum Electrolytes (Na+, K+ & Cl-)
- Serum Calcium
- Serum Phosphorous
- Urine Sugar
- Urine Proteins

Tests done in CCBL

Month	Tests	No. of Investigations		Monthly Total		Total No. of Investigations
		Male	Female	Male	Female	
January 2015	BSL F	2167	1570	22683	18890	41573
	BSL PP	6502	4709			
	LFT	7123	6234			
	RFT	6890	6378			
February 2015	BSL F	1968	1425	21373	18039	39412
	BSL PP	5904	4275			
	LFT	6867	6173			
	RFT	6634	6166			

March 2015	BSL F	2950	2136	25443	21008	46451
	BSL PP	8849	6408			
	LFT	7233	6261			
	RFT	6412	6203			
April	BSL F	3189	2309	28465	22257	50722
	BSL PP	9567	6928			
	LFT	7901	6450			
	RFT	7808	6570			
May	BSL F	3285	2378	30442	23509	53951
	BSL PP	9854	7135			
	LFT	8887	6308			
	RFT	8417	7687			
June	BSL F	3344	2421	29968	23949	53917
	BSL PP	10031	7264			
	LFT	8942	6430			
	RFT	7652	7834			
July	BSL F	3445	2494	30527	24518	55045
	BSL PP	10334	7483			
	LFT	8894	7152			
	RFT	7855	7388			
August	BSL F	3551	2571	31095	25388	56483
	BSL PP	10653	7714			
	LFT	8947	7479			
	RFT	7944	7624			
September	BSL F	3607	2612	31406	25926	57332
	BSL PP	10822	7837			
	LFT	9167	7344			
	RFT	7809	8133			
October	BSL F	3487	2525	31080	25077	56157
	BSL PP	10460	7575			
	LFT	9146	7644			
	RFT	7987	7333			
November	BSL F	3503	2537	30843	24939	55782
	BSL PP	10509	7610			
	LFT	8976	7507			
	RFT	7855	7286			

Emergency Medical Services Laboratory (EMS Lab):

Patients' samples analyzed for biochemical parameters on:

- ONE Randox Rx Daytona Fully Automatic Biochemistry Analyzer
- ONE ErbaMannheim EM 200 Fully Automatic Biochemistry Analyzer
- ONE Transasia ERBA Easylyte Electrolyte Analyzer
- ONE Roche Electrolyte Analyzer
- Thermofisher Scientific Spectronic 20D Spectrophotometer.

The biochemical parameters which analyzed daily:

- Blood Sugar (Fasting, Post Prandial & Random)
- Serum Creatinine
- Blood Urea Nitrogen
- Serum Electrolytes (Na+, K+ &Cl-)

- Serum Bilirubin (Direct & Indirect)
- Serum Aspartate Transaminase (AST)
- Serum Alanine Transaminase (ALT)
- Urine Sugar

Serum AST and ALT have been recently introduced in the EMS profile.

Workload of EMS Lab

Month	Tests	No. of Investigations		Monthly Total		Total No. of Investigations
		Male	Female	Male	Female	
January	BSL	5389	5076	10346	9668	20014
	LFT	595	436			
	RFT	4362	4156			
February	BSL	5296	4878	9734	9348	19082
	LFT	489	402			
	RFT	3949	4068			
March	BSL	5439	4946	12676	11035	23711
	LFT	749	692			
	RFT	6488	5397			
April	BSL	5120	4566	12523	10753	23276
	LFT	883	759			
	RFT	6520	5428			
May	BSL	5648	5088	13075	10969	24044
	LFT	904	814			
	RFT	6523	5067			
June	BSL	5809	5578	13507	12315	25822
	LFT	1043	988			
	RFT	6655	5749			
July	BSL	5748	5422	12822	12257	25079
	LFT	1139	1022			
	RFT	5935	5813			
August	BSL	5382	5514	12443	12373	24816
	LFT	1265	1168			
	RFT	5796	5691			
September	BSL	5512	5570	12705	12469	25174
	LFT	1244	1193			
	RFT	5949	5706			
October	BSL	5812	5670	12951	12746	25697
	LFT	1306	1172			
	RFT	5833	5904			
November	BSL	5689	5324	12655	12136	24791
	LFT	1288	1068			
	RFT	5678	5744			

Cardiology

Cath Lab procedures- [Philipps]

Sr.No.	Types of Procedures	No. of Procedures
1	Coronary Angiography	343
2	BMV	90
3	BPV	02
4	BAV	05
5	ASD Device Closure	17
6	VSD Device closure	16
7	PDA Device Closure	21
8	PCI with stent	164
9	Electrophysiology Study and Radio Frequency Ablation	48
10	PPI Implantation	15
11	Diagnostic Catheterization	22
12	AICD	02
13	Coarctoplasty	08
14	LA Appendage Device Closure	0
15	BMV + BAV	0
16	Vertical Vein Closure	0
17	HOCM	0
18	BAV	5
19	BMV+BTV	1
20	BAS	3
21	MAPCA	1
	Total No. of procedures	758

Siemens Cath Lab

Sr.No.	Types of Procedures	No. of Procedures
1	Coronary Angiography	365
2	EPRFA	6
3	PPI	38
4	Explant	1
5	PPI –Battery Replacement	3
	Total	413

New Siemens Cath Lab

Sr.No	Types of Procedures	No. of Procedures
1	Coronary Angiography	171
2	EPRFA	8
3	PPI	4
4	BMV	15

5	ASD-DC	2
6	VSD-DC	1
7	PDA-DC	3
8	PCI	35
9	Diagnostic Cath	7
10	AICD	1
	TOTAL	247

Total procedure (Both Cath Labs) = 1418

Quantum of work

- Total No. of patients admitted in ICCU : 1264
- Total No. of patient admitted in Wd. 32 : 1893
- Total no. of patients done : CST : 2105
- Total no. of patients done : 2D ECHO/CD : 7098
- ECG: EMS – 81973 CVTC – 14620
- CVTC OPD : New : 10077 Old : 19421

Chest Medicine

- Admissions- 1017; 342 required intensive care. Total numbers of new patients were 7359; while total numbers of follow-up patients were 16524.

FV Loop	3729
DLCO	244
RV/TLC	108
PEFR	8
OSCILLOMETRY	31
MEP/MIP	16
Exhaled Breath Condensate	24
Exercise testing	1

- ABG: 73297, Allergen tests – 259
- 675 Ward admissions
- 342 IRCU admissions
- Mortality rate 3.73%

Bronchoscopy	130
Pleural tap	130
Sleep studies	18
Lymph node FNAC	117
Pleural biopsy	1
CT Guided Biopsy	18
Bronchial washing	92
Diagnostic BAL	21
Therapeutic Lavage	10
Glue for Broncho pleural fistula	03
Brushings	10
TBNA	03
CT guided biopsy	18

- DOTS Plus services for MDR TB patients [1057 patients]
- 177 XDR patients enrolled
- 203 patients treated under the Rajiv Gandhi Yojana scheme
- New Cytology needles acquired for diagnosis of mediastinallesions
- Skin prick test for allergen testing was added

Clinical Pharmacology

Therapeutic Drug Monitoring OPD:

- Total patients seen: 2807, Follow up patients: 1805, New Patients: 1002
- Blood level estimations were done for phenytoin, phenobarbitone, carbamazepine, carbamazepine epoxide, valproic acid and lamotrigine.

Malaria OPD:

- Total Number of Slides screened: 8415, Total Positive: 407, Total Number positive for *P.Vivax*: 401
- Total Number positive for *P.falciparum*: 06, Total Number positive for mixed infections: 03

CVTS

- Total Admissions - 731
- Total Surgeries - Open 471, Closed - 125, Emergency - 58

Community Medicine

Month	Male	Female	Total
December 14	4253	2763	7016
January 15	3402	2861	6263
February 15	4721	3411	8132
March15	3721	2511	6232
April15	3454	2618	6072
May 15	3212	2292	5504
June 15	3401	2405	5806
July 15	4113	3863	7976
August 15	4642	3762	8404
September 15	5236	3412	8648
October 15	5015	3139	8154
November 15	2622	2071	4693
Total	47792	35108	82900

In the same premises, screening of BMC employees is also carried out for infectious diseases and chronic diseases. A total of 3670 employees (male – 1380 female – 1290) were examined in 2015.

a) Morbidity :

Sr. No		Male	Female	Total
1	Muscleskeletal	6714	3506	10220
2	Fever	9913	7812	17725
3	Headache	3821	3220	7041
4	ARI	7016	2223	9239
5	Chest pain	2626	2233	4859
6	AGE	2012	1437	3449
7	UTI	1916	1912	3828
8	Cough with Expect	1206	806	2012
9	PS for MP	312	132	444
10	Ref for Bl. Sugar	2480	2036	4516
11	Skin	822	1831	2653
12	STI/RTI	561	243	804
13	ICTC referral	311	143	454
Total		39710	27534	67244

b) Immunisation OPD :

The national program for UIP is being implemented in our institute with following beneficiaries.

Vaccine beneficiaries

Vaccine	Male	Female	Total
BCG	4543	4263	8806
OPV 0	5069	4102	9171
DPT 1, DPT2, DPT 3/ OPV1, OPV2, OPV3	7864	8098	15962
HBV 1 , HBV 2, HBV 3	3932	4049	7981
Measles	77	82	159
MMR	64	61	125
DPT / OPV B1	1034	699	1733
DT / OPV B2	370	286	656

In addition, 6 rounds of National Pulse Polio immunisation on Sundays followed by a week of IPPI activities within the campus were conducted in the year of 2015.

c) *Naigaon Geriatric OPD :*

Month	New	Old	Male	Female	Total
December 14	10	25	35	85	155
January 15	5	15	58	143	221
February 15	5	5	33	78	121
March 15	1	5	30	96	132
April 15	1	2	36	86	125
May 15	4	6	25	56	91
June 15	3	8	30	93	134
July 15	2	7	36	104	149
August 15	2	1	34	90	127
September 15	6	27	38	52	123
October 15	11	60	29	55	155
November 15	12	90	33	69	204

d) *Naigaon under five clinic* : No. of New registration: 131 No. of old beneficiaries: 198

e) *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. Epidemiological investigation in the field for these cases is carried out. The disease trend and high risk areas are identified and informed to Epidemiological cell (Kasturba hospital Mumbai) for required action. The death cases are thoroughly investigated. Health checks up camps are carried out in the vicinity of the outbreak areas by the PSM residents.
- The total cases (disease under surveillance) admitted in KEM Hospital this year were 5319.

II. *Services at Naigaon Health Centre:*

Naigaon community is one of field practice areas of the department of PSM. The various activities conducted in the Naigaon community are as follows:

- General OPD (Geriatric Clinic) on every Wednesday & Friday.
In the year 2015 till date, 1478 patients were examined in the General OPD at Naigaon.
- Under Five Clinic at Naigaon Maternity home on every Tuesday & Friday.
In the year 2015 till date, 433 beneficiaries attended this clinic.

III. *Services at Malvani Urban Health Centre:*

The old centre located at Malvani is proposed to be demolished and new multi-storied health centre will be constructed. The preventive, promotive services are now shifted to Maulana Azad Maternity Hospital at Malvani. Lions Club, Mumbai has initiated a collaborative project in Malvani for Geriatric health care.

General OPD :

	Children		Adult	Total
	0-5 Yrs	6- 12 Yrs		
Male	6861	4800	12560	24221
Female	6219	5103	22205	33527
TOTAL	13080	9903	34765	57748

Special OPD :

OPD		No.of patients
Dental		0
Psychiatry	New	84
	Follow up visits	793
	Total	877
Ophthalmology	Cataract surgery	0
	Optometry	0
	Total	0
Injections given		3128
Skin		4346

Chronic OPD :

Disease	Male	Female	Total
Hypertension	490	1661	2151
Diabetes	119	521	640
Bronchial asthma	14	33	47
HT with DM	286	874	1160
IHD	9	52	61
HTN with Asthma	0	13	13
Epilepsy	0	0	0
Others	0	0	0
Total	918	3154	4072

Revised National TB Control Program

CAT I								CAT II								TOTAL		Total patients	
NSP		NSN		NEP		TOTAL		R		F		TAD		Other		Total			
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
80	76	39	38	41	73	160	187	35	19	3	2	8	2	35	32	81	55	241	242

Transfer In: Males- 9; Females- 5; TG- 2; NSN-TG-

MDR patients on Cat IV & V: Males: 38; Females: 30; TG: 0

	M	F	Total
No. of children started on INH prophylaxis started in RNTCP OPD	106	116	222
No. of children given MT	0	0	0
No. of children found MT positive	0	0	0
No. of MT positive symptomatic children started on AKT	0	0	0

IDSP

Disease	Patients Screened		Patient found Positive	Positive pts started on Treatment at MUHC
	Adults	Children		
Tuberculosis suspects	1359	92	265	351
Malaria suspects	2023	1656	P. vivax	11
			P. falciparum	2
			Mixed	0
			Total	13
Suspected AGE	574	914	0	1315
Hepatitis/Dengue/Others	686	631	-	362
Suspected Measles	0	0	0	0
AFP	0	0	0	0

Universal Immunization Programme

VACCINATION	MALE		FEMALE		TOTAL
	< 1yr	> 1 yr	< 1yr	> 1 yr	
OPV 0	69	0	52	0	121
BCG	179	0	93	0	272
DPT1 + OPV 1	219	0	202	0	421
DPT2 + OPV 2	253	0	136	0	389
DPT3 + OPV 3	127	0	103	0	230
HBV-0	59	0	39	0	98
HBV1	219	0	161	0	380
HBV2	253	0	151	0	404
HBV3	127	0	121	0	248
MEASLES	212	0	108	0	320
BOOSTER1(DPT)	0	109	5	93	207
MMR	0	108	0	95	203
BOOSTER2(DT)	0	31	0	25	56
Inj.TT	0	18	0	16	34
Total	1717	266	1171	229	3383

Investigation	No. of patients
Hb. – routine	0
Blood group	0
ESR	89
FBS/PLBS	232
RBS	-
Sputum for AFB Positive	340
Sputum for AFB Negative	2167
Urine pregnancy test	10

- New facility : Semi auto-analyzer started for blood sugar estimation for Chronic OPD patients from 13/11/2014.

Medical Social Worker -

OPD	Patients counseled
GOPD	760
POPD	1894
COPD	4431
WBC	340

- No. of community visits: 54
- No. of child to child programme: Nil
- Monthly meetings of patients on DOTS: 459 (No. of pts attending)

Sr.No	Test	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Total
1	FBS	839	740	771	807	456	812	903	980	975	975	786	9044
	PLBS	783	653	701	688	352	715	805	805	816	740	515	7573
2	HbA1c	20	75	282	325	310	538	485	477	693	626	732	4563
3	T3	1073	1130	1054	1155	926	1218	1327	1468	1220	1480	1230	13281
4	T4	1183	1207	1155	1185	1060	1224	1541	1500	1275	1550	1430	14310
5	TSH	2084	2071	1910	2100	1892	2226	2530	2445	2305	2568	2130	24261
6	AMA	189	160	116	161	134	176	186	104	165	133	132	1656
7	FSH	193	182	156	166	121	167	216	116	172	126	147	1762
8	LH	216	198	165	164	166	165	288	106	180	118	162	1928
9	PRL	134	138	160	177	138	172	165	71	190	135	117	1597
10	Testo	179	147	163	164	110	174	179	48	133	114	67	1478
11	Cortisol	182	197	164	185	155	175	191	82	176	180	77	1764
12	PTH	166	190	165	112	112	168	143	120	235	149	225	1785
13	ACTH	36	26	35	67	48	14	50	55	42	75	100	548
14	IGF1	44	52	47	60	49	30	60	46	42	46	59	535
15	HGH	46	71	42	64	59	38	58	49	65	43	58	593
16	FT3	0	0	0	0	0	0	17	65	78	122	77	359
17	FT4	0	0	0	0	0	0	25	49	83	135	87	379
	Total	7367	7237	7086	7580	6088	8012	9169	8586	8845	9315	8131	87416

- ❖ Referral: 261
- ❖ ANC patients at MMH: 184 (Health education)
- ❖ PNC clinic at MMH: 36 (Breast feeding education)
- ❖ Teaching at KEM
 - UG teaching at KEM
 - Family allotment activity
 - Family study for UG students at Naigaon community
- ❖ Donation : Note books for chronic OPD patients and medicines.

Services at Rural Health Training Centre:

As per MCI guidelines, the department of Preventive & Social Medicine has developed the 'Rural Health Training Centre' (R.H.T.C.) at Pise- Panjrapur Water Treatment Plant, Sakwar, Vasai Taluka, and Khadavli, Thane district. Various curative, preventive, promotive and rehabilitative services were provided to the population of nearby villages of the R.H.T.C.s through 2015.

Dentistry

- Procured equipment like apex locator, endomotor, front load autoclave (table top sterilizer)
Total OPD Patients : 10,877

Procedures done:

Root Canals: 240

Extractions: 1117

FPD's: 173

Trauma Cases: 42

OPAs (Dental Xrays): 1751

Surgeries: 63

New facilities provided.

- Use of electro cautery in surgical procedures.
- Implant placement, prosthetics for implants and full mouth rehabilitation.

Dermatology

- Multiplatform harmony laser machine, which has revolutionized the treatment of following untreatable diseases was acquired: - Stable vitiligo, Hirsutism, acne scars and psoriasis. Procedures carried out included- Facial rejuvenation, phototrichogram for androgenic alopecia, dermaroller for atrophic scars, dermatoscopy for various pigmentary disorders guides therapy, Peels for acne, skin rejuvenation and pigmentation, follicular hair transplantation in androgenetic alopecia and vitiligo.

Endocrinology

1. Indoor admission: 676
2. Outdoor patient:

	New Pts	Old Pts	Total
Diabetes	4520	18080	22600
Thyroid	5147	9098	14245
P&G No.	1374	3241	4615
Total :	11041	30419	41460

- Pituitary meet: 1st Wednesday of every month.
- Challenging cases discussed with Neurosurgeons, Endocrinologist, Radiation Oncologist, Radiologist, and Neuropathologist for patient care improvement.
- Thyroid meet / Histopathology meeting: 2nd Wednesday of every month

ENT

- Total inpatients admission – 1995
- Total major surgical procedure – 1100
- Total minor surgical procedure – 695
- Total Emergency surgical procedure – 200
- Total New out patients – 36000

Forensic Medicine

- Estimation of age of 84 persons including sportsperson and 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 -163

Gastroenterology

The gastroenterology O.P.D is conducted four times in a week on Monday, Wednesday, Friday & Saturday Special care liver patients seen

O.P.D. Patients	13313
New patients	4954
Follow up patients	8359
Indoor Patients	
Admissions	1030
Referred patients (Indoor)	
Procedures	
Diagnostic	
Upper GI Scopy	2732
Colonoscopy	715
E.R.C.P.	714
Proctoscopy	880
Liver Biopsy	306
Therapeutic Procedures	
Esophageal Variceal Sclerotherapy	194
Esophageal Variceal Band / Loop Ligation	650
Endoscopic clipping for bleeding lesions/ polyps	35
Esophageal Dilatation	240
Esophageal Prosthesis Placement	8

Gastric varices injection with glue	20
Bleeding Ulcer Injection	200
POEM	1
Argon Plasma Coagulation	15
Endoscopic biliary sphincterotomy and drainage	480
Endoscopic pancreatic sphincterotomy and drainage	60
Pancreatic cyst drainage	20
Polypectomy	50
Foreign Body removal	70
Percutaneous endoscopic gastrostomy	8
Rectal Stricture Dilatation	5

Special Procedures

- Endoscopies in children are done under general anaesthesia :70

Special investigations

- Esophageal manometry was done in 160 patients
- Anorectal manometry-187, pH metry-27
- Special services for patients: 24 hr emergency services, especially for patients with GI bleeds, pancreatitis, cholangitis and liver disease complications

Hematology

- Both routine and emergency admissions, Chemotherapy as an OPD and in patient service
- Day care services for - Thalassemia for blood transfusions, Bone marrow failure syndromes for blood & platelet transfusion, Hemophilia's and other coagulation disorders for factor treatment and physical therapy, Platelet disorders for transfusions, Leukemias and lymphomas for chemotherapy, [oral, intravenous and intrathecal].
- Total inpatient admissions- 804
- Total deaths- 34
- Day care patients –3163
- The Hematology Laboratory carries out various tests such as hemogram, Bone Marrow aspiration, Biopsies, Hemolytic Workup, Haemostatic Work up and Iron studies.

Medicine

IPD patients (Unit wise)

Dr.ARP Unit	2700
Dr.MYN Unit	2658
Dr.NDK Unit	4169
Dr.NNR Unit	4105
Dr. AGR Unit	4394
Dr.RNS Unit	3948
Dr.SBS Unit	3965

Number of Patients seen

Total OPD Patients	HIV Patients	Rheumatic patients	Hypertension patients	Headache	Geriatric patients	Hypertension services speciality clinic
26458	1680	2984	1060	1200	1003	4500

- 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 managed obstetric & Gynecological patients presenting with medical emergencies as also post vascular & neuroradiology interventions. MICU managed critically ill residents and interns of KEM Hospital who had dengue fever and acute febrile illnesses.
- Management of first line failure on HIV therapy patients, Management of pts with CMV retinitis
- Total 28 ventilators – to provided non - invasive 7 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 for 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 given by following - CAVH, CVVHDF on CRRT machine available in MICU.
- 2D ECHO done by portable, USG + Echo machine on MICU patients: 332.
- Bronchoscopy: Therapeutic, Diagnostic bronchoscope and fiberoptic bronchoscope; total 37
- Percutaneous tracheostomy: total 5

New facilities developed/offered

- Interactive MICU daily rounds with faculty from micro-biology department including Assist Prof. Senior resident to help analyze infection patterns, identify culprit organisms and their resistance pattern.
- Interactive rounds with faculty of physiotherapy department especially for proper Chest PT, Respiratory muscle, strengthening exercises.
- 16 Multipara Monitors 1 USG & 2D ECHO Machine for Critically ill patients.
- 1 new ECG machine and 2 Defibrillator procured for patient care.

Microbiology

The annual workload for the different service divisions of the department was as follows:

Division	Total samples processe
Bacteriology specimens processed / ABS	55,000 / 33000 ABS
Virology & Immunology (HIV,HBV,HCV,CD4,RPR)	90,000
sMycobacteriology	30,000
Mycology	3,300
Serology	50,000
Parasitology – Stool	6,718
Parasitology – Malaria antigen detection (RDT)	2,442
GeneXpert MTB/RIF Assay	2,590
Emergency Laboratory	50,000

- Anaerobic work station has been procured to improve anaerobic culture. A biosafety cabinet class II was installed for safer processing of specimens. Automated identification system (Vitek 2) was used to confirm the identity of bacteria that are difficult to identify with manual phenotypic methods.

Neonatology

Neonatal Intensive Care Unit: 42 bedded

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

- Inborn Unit: Babies born in K.E.M. Hospital who are not infected kept in this area.
- Inborn - Outborn Unit: Babies born in K.E.M. hospital who are at risk of developing infection or babies transferred from other municipal or private hospitals managed here.
- Transitional Care Unit: This section renders intermediate care to the neonates. The babies who do not require close and continuous monitoring looked after here.
- Ventilation Unit: The babies requiring advanced ventilatory care 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 and neurosensory assessment & early intervention therapy is instituted whenever required.

Quantum of patient care

Total number of babies born	Total number of LBW babies	Total number of NICU admissions	Total number of KMC recipients
6240	1696	1528	646

New Services:

- Delivery room CPAP for neonates with Respiratory Distress Syndrome
- Initiation of Total Body Cooling therapy for neonates with Perinatal Asphyxia
- Initiation of Nitric Oxide Therapy for treatment of Primary Pulmonary Hypertension in neonates
- Cerebral Function Monitoring in neonates with convulsions, asphyxia & neonatal encephalopathy

New facilities provided:

- Triage room in NICU
- Renovated resting area for mothers of NICU babies
- Up gradation of Nursery / Newborn Stabilization Unit in PNC ward
- Up gradation of Neonatal Resuscitation Area in labor ward

Nephrology

- Only center to perform 24x7/365 days emergency haemodialysis, provides services to HIV/HbsAg/HCV positive patients. Total number of dialysis performed in last year- 9213

- 20 Live donor Kidney transplant and 03 Deceased donor kidney transplant. Total number of kidney transplants crossed the figure of 600.

Total No. of OPD patients		Indoor Patients	Referred Patients	Kidney biopsies	Acute Peritoneal dialysis	C.A.P.D	Haemodialysis Performed	Kidney Transplants
Old	New	1357	11159	170	40	22	9213	23
12247	2443							

Tests done in A.K.D. Lab

Complete Blood Count	20753
Urine Routine & Microscopic	18280
24 hrs.urinary protein	9175
Urine Creatinine	456
Urine Culture	3831
Sensitivity Extended	1200
Misc. Culture	25
Sensitivity Routine	8
Sensitivity	8
Blood Culture	335
Sensitivity routine	45
Sensitivity extended	45
Australia Antigen (Elisa)	
HbsAg	833
HCV	833
Urine Osmolality	840
Serum Osmolality	627
Urine PH	125
Stool routine	60

Neurology

- Epilepsy new patients 60/week, follow up patients 200/week
- Neurology patients 45/week, follow up patients 90/week

Neurosurgery

- OPD patients = 6800
- Major surgeries 1600

Obstetrics and Gynecology

- Total No. of deliveries - 6780

Occupational therapy

Specialized OPD Interventions:

- Obesity clinic
- Cardiac Risk Modulation clinic
- Pain Management clinic
- Rheumatoid Arthritis clinic
- Neonatal High Risk OPD
- Back School clinic
- Musculoskeletal management for Haemophilia

- Hypertension clinic
- Neuro Rehabilitation and movement disorder clinic
- De-addiction: Intervention and Fitness
- Breast Clinic
- Psychiatry: Intervention and Work Fitness
- Child Guidance Clinic – New Patients OPD
- Kangaroo Mother Care
- Pediatric Neuro Developmental -New Patients OPD
- Sensory Integration Therapy
- Burns, Plastic Surgery and Specialized Hand Clinic
- Synovitis Management Clinic
- Early Intervention for High risk infants

Workload

Workload	Outpatient Dept	In Patient Care	Intensive Care
Patients	7380	13565	1486
Visits (Treatment Sessions)	85698	146720	4984

Ophthalmology

- Total OPD patients - 45,000
- Total No of surgeries - 4,000
- OCT facilities for cornea, retina and optic nerve
- Automated visual field and glaucoma testing

Orthopaedics

Services Offered

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

Operating Rooms :

Three theatre complexes:

- Routine Orthopaedic Operation Theatre: Two theatre rooms (both with laminar flow) Renovated and renamed as Joint replacement Routine Orthopaedic Centre Operation Theatre (JROCOT)
- Joint Replacement & Spine Surgery Theatre: Total renovated State of the art is exclusively for Joint Replacement & spine surgery theatre. Renamed as Spine & Routine Operation Theatre (SROT)
- Orthopaedic Trauma Services Theatre: (OTST) Two operating rooms located in the Emergency Medicine Services Complex.

Services :

- Daily OPD
- 24 hr emergency services

Pathology

CVTC Laboratory 315

PM specimens

Total PM specimen received (PM+ML)	Total PM Blocks Made (PM+ML)	Total PM slides stained (PM+ML)
255	2782	3407

Surgical specimens

Surgical specimen received	Surgical block made	Surgical slides stained
380	600	1700

Cytology specimens

Cytology specimen received	Cytology slides stained	Special stain +Sr. cut+ Deep Cut + MS+NS+ other sp. Stain
760	2700	1437

Overall data for the year

Total slide stain	Total specimen received((PM+ML+Surgical +Cytology)	Total slide stained (PM+ML+Surgical +Cytology +NS+DL. special stain +Sr. cut)	Total block made (PM+ML+Surgical +NS+MS)
9244	1395	9244	3382

CVTC Laboratory 316

Routine Urine Examination	Routine body Fluid Examination	Serum Choleste rol	Serum Triglyceri des	HDL	LDL	VLDL	Serum Anylase	CPK	CPK- MB	LDH
3170	156	24065	24065	6892	6892	4160	850	1444	1444	2495

CVTC Immunology Lab 316

CRP	C3	C4	RA factor	ACLA – IgG	ACLA IgM	Immuno globulin E	Cryoglobins	Bronchalveolar lavage cytology
7826	2307	2185	1295	66	66	141	14	35

Cytology

- FNAC non guided - 2650
- FNAC USG guided - 1830
(Total FNAC performed -4480)
- No. of slides generated from FNAC - 24500
- PAP stain carried out on- 11850
- Giemsa stain carried out on - 12650
- No. of fluid samples for cytology - 450
- PAP stain carried out on - 450
- Giemsa stain carried out on - 450
- No. of PM slides for Giemsa- 200
- Total No. of ICC done for cyto slides - 25
- Cell blocks prepared- 21
- PAP stain slides for MCGM Maternity Hospital - 185

O.C. Laboratory

Hemograms	Biochemistry	Hb	PCV	ESR	WBC total	WBC differential	MP	BT/CT
11850	5466	11850	2585	11850	11850	11850	190	06

EMS laboratory

Hemograms	Smears for malarial parasites	Arterial Blood Gas	CSF	PT/INR
11,3185	81,852	33244	505	26431

Surgical Pathology

- No. of specimen - 8900
- No. of blocks- 45510
- No. of slides prepared - 1644209
- No. of special stain - 8618
- No. of frozen section - 234
- No. of frozen bits cut- 675
- No. of kidney biopsies - 275
- No. of kidney blocks - 810
- No. of Bone marrow blocks - 145
- No. Spl Stains - 9270
- No. of Liver Biopsy - 225
- No. of Block prepared - 905
- No. of slides and Spl stains - 1529
- No. of Blocks- 290
- No. of slides – 1503

Clinical Pathology and Hematology

- Hemograms - 2, 95,766
- Malarial parasites - 6888
- Optimal / QDX (Malarial antigen test) - 4845
- Platelet count -64,052
- Special investigations (RBC, sickling, LE cell, Retic count, buffy coat, Microfilaria) - 7,986
- Special stains for leukemia- 300
- Bone marrow biopsies, Bone marrow Aspirate & Imprint- 451
- Urine examination - 96,210
- Fluid samples for microscopy - 5,500

Neuropathology

Clinical Pathology samples		Biochemistry samples		Histopathology samples				
Haemato grams	CSFs examined	Asctic/ Pleural	Proteins urea Porphyria	Tissues received	Blocks prepared	Slides prepared	Tissues for Cryo squash	CSF cyto/Crypt ooccus
837	1233	2694	1233	993	2545	7635	43/273	535

Autopsy

- No. of brains received -87
- No. of blocks prepared - 2665
- No. of slides prepared -2487

Clinical & Hematological Services

Outpatient Department Laboratory

- Blood collections - 2, 25,001
- Hemograms - 84,062
- Coagulation profile (BT/CT) - 2608
- Routine urine examination - 26,630
- Malarial Parasites - 816
- Platelet count - 2702

Total No. Autopsies Performed: 1250 + 240 (MLO +PM) = 1490

Pediatric Surgery

- Total admissions – 1567
- Total no of Surgeries – 893
- Major surgeries – 374
- Minimal access surgeries – 202
- Minor surgeries – 317

Pediatrics

Patient Services	2015
General Pediatric OPD	27897
Indoor Admissions	5166
EMS Attendance	29302
PICU Admissions	561
Under Five Clinic	5283
Pediatric Rheumatology Clinic	160
Pediatric Nephrology Clinic	442
Pediatric Chest Clinic	632 (107)
Genetic Clinic	737 (348)
School Clinic	742
Thalassemia day care centre admissions	1766
Pediatric Epilepsy Clinic	1702 (221)
Learning Disabilities Clinic	669 (544*)

Note: Figures in parenthesis indicate new patients; *Certified/ Evaluated

Pharmacology and Therapeutics

- OPD services: Ayurveda Research Centre of Department of Pharmacology and Therapeutics runs an OPD on Friday afternoon. Last year 2165 patients were registered Indoor, admissions in the Ayurveda Ward were done whenever detailed assessment and therapeutic procedures were required. Total number of indoor admissions in 2015 was 766.
- Panchkarma and other therapeutics procedures were performed on patients who were admitted on Day Care basis.
- Monitoring for Quality of Ayurvedic Formulations: 39 Ayurvedic formulations were analyzed for synthetic steroids and of these 22 were found to contain synthetic steroids.

- 12 samples were received for detection of heavy metals.
- Advice was provided to the Octroi department of MCGM regarding plant drug containing formulations with justification.
- To support Hospital Infection Control Committee and antibiotic policy of the institution, Dr PadmajaMarathe conducted audit of antibiotic utilization for indoor patients in Departments of Medicine, Surgery, Gynaecology & Obstetrics and Orthopaedics.

Physiology

- Students are trained for better quality patient care

Physiotherapy

- Intensive care –Medical, Surgical, Respiratory Pediatric, Orthopedic and Neurology
- Trauma and Pain care
- Musculoskeletal Degenerative conditions
- Motor Control retraining for Musculoskeletal dysfunctions
- Rehabilitation with strength and endurance training
- Postural control and balance training with therapeutic exercise on Swiss Ball
- Manual Therapy for musculoskeletal conditions
- Hand Rehabilitation
- Joint Protection for Rheumatoid disorder
- Obesity and Fitness promotion
- Women's Health
- Sports Physical Therapy
- Cardio-Pulmonary Rehabilitation
- Adult Neuro Rehabilitation
- Pediatric Neuro Rehabilitation
- Tilt table training for Syncope
- Amputee Rehabilitation
- P.T. following Gastric surgery & urogenital surgery
- P.T. for incontinence

	Patients (in numbers)
Outdoor patients at Physiotherapy OPD	3,00,000 - 1,30,000
Indoor patients at Cardiovascular & Thoracic Centre, Orthopaedic Wards, Medical, Surgical Intensive Care units and Wards of K.E.M. Hospital	1,85,000
Daily average of P.T., OPD attendance	600
Daily average of PT Indoor attendance	750

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, breast clinic, comprehensive hand clinic

Psychiatry

- Methadone Maintenance Clinic –for Opioid Dependent patients is conducted at deaddictioncentre. The clinic is aimed at providing substitution therapy for patients battling intravenous drug used. This is in collaboration with United Nation Office of Drug and Crime (UNODC).
- 31st May 2015 :World No Tobacco Day
Awareness programme for indoor patients and poster exhibition.
- 26th June 2015: World Deaddiction Day
Poster Exhibition was organized at Deaddiction Centre. Posters displaying harms of substance use were put up. Patients coming to Orthopedic OPD, Physiotherapy, Occupational Therapy and Deaddictioncentre benefited from the same.

Radiology

- 1,80,000 patients for diagnostic and interventional procedures

Surgery (General Surgery)

- Round the clock emergency services to all surgical emergencies. About 2000 emergency and equal number of elective surgeries performed by the department.

Surgical Gastroenterology

- OPD (new patients) - 1144
- OPD (old patients) - 2449
- Total admissions - 855
- Total surgeries - 575

Transfusion medicine

- Blood grouping, cross matching done
- Single donor platelets

Blood units annually	Random donor platelets	Blood donation camps	Blood units collected annually	Therapeutic plasmapheresis
2 Lakhs	9500 units	220	36000	14

Urology

- The department caters to an average of 7000 out patients per year. Total indoor admissions per year are about 1100. About 2000 major and minor operations are carried out per year.

Investigative and treatment Facilities offered

- Ultrasonography
- Urodynamic study machine
- Urodynamic Studies (Uroflowmetry)
- Doppler ultrasound
- Radiological investigations like Retrograde Ureterogram and Retrograde Pyelogram.
- Uro-endoscopy
- Phalldynamic Studies (Impotence Studies)
- RGP/PCN
- Clinical trials
- State of the art Dornier Lithotripter used to treat 350 patients annually
- Live and cadaveric renal transplants
- Use of the new PCCL single step access sheath

- Laproscopic procedures
- Students are trained using the laproscopic trainer
- Donor nephrectomies
- Penile implants
- All inpatient records are computerized

Workload of the Department

Year	Outpatients						Inpatients	Referrals		
	Gen.Urology		Stone Clinic		Infertility			Emergency Calls		
	New	Old	New	Old	New	Old		Indoor	Intra op.	
	3330	5079	3646	3559	329	267	16210	1374	1529	37

Diagnostic Workload

- Uroflowmetry – 913
- Trust Guided biopsies – 68
- UDS- 386

Operative Workload

	2015 (till Nov. 2015)
Open work 60to 70% in operative work	432
Transplant (LRDT + Cadaver)	28
Endo-urology	
VIU	79
TURP	132
Endomeatotomy	--
Litholapaxy	81
URS	206
PCN	134
PCNL	171
PCCL	12
U plasty	1
TURBT	93
Laparoscopy	96

Publications

Publications

Anatomy

- Bhuiyan PS, Rege NN, Supe AN Edited The Art of Teaching Medical Students, 2015, 3rd Edition, Elsevier Publications
- P.S. Bhuiyan and Lakshmi Rajgopal : A Systems Approach to Medical Education in The Art of Teaching Medical Students, 2015, 3rd Edition, Elsevier Publications
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- Pritha Bhuiyan and K. Shyamkishore: Multiple Choice Questions: Formulation and Types in The Art of Teaching Medical Students, 2015, 3rd Edition, Elsevier Publications
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Research

Research

Anatomy

Completed research projects

- Competency-based Curriculum to Teach Anatomy of Cranial Nerves to I MBBS Students
- Competency-based Curriculum Module in Living Anatomy and Faculty Perception
- A Morphometric Study of the Dry Human Femora
- A Morphometric Study of the Dry Human Humeri
- A Morphological Study of Level of Bifurcation of Common Carotid Artery and Branches of External Carotid Artery in Adult Human Cadavers

Ongoing student- research projects

- A Morphometric Study of Dry Human Sacra
- A Morphometric Study of Dry Human Tibia

Anaesthesia

- Accuracy of skin temperature over carotid artery in estimation of core temperature in infants and young children during general anaesthesia.
- Randomised prospective study of comparison of U.S.G. Guided subcostal transversus abdominis plane block technique (STA BLOCK) vs. conventional port site infiltration technique used in laparoscopic cholecystectomy for post-operative analgesia
- A Prospective randomized controlled study to compare the ease of tracheal intubation using the Macintosh Laryngoscope and the air traq in patients undergoing surgeries with cervical spine immobilization".
- To compare the efficacy of prophylactic preloading of colloid Vs. combination of crystalloid & ephedrine given during spinal anaesthesia for maintaining hemodynamic parameter in geriatric patients undergoing orthopaedic surgery.
- A Prospective study to compare efficacy of Caudal vs. Interlaminar steroids in chronic low back pain.
- Perfusion Index during endotracheal intubation and extubation: a prospective, observational study.
- Prospective comparative study of Ondansetron against Tramadol Pretreatment to reduce pain on injection of Propofol.
- Comparative study between isobaric levobupivacaine spinal anaesthesia and hyperbaric bupivacaine spinal anaesthesia in lower extremity surgeries.
- A Comparison of the efficacy of Fentanyl Vs. clonidine for attenuation of press or response to endotracheal intubation.
- A Prospective Study to correlate distance between skin epidural space with age, height and weight of paediatric patients.
- Pre treatment with intravenous Granisetron to alleviate pain on Propofol injection: A double blind randomized controlled study using normal saline as control
- A comparative study between clinical efficacies of Levobupivacaine Plain and levobupivacaine with fentanyl for Urological surgeries under Subarachnoid block.
- A Prospective, randomized study comparing the ease of endotracheal intubation with FlexiTip McCoy versus Macintosh direct Laryngoscope Blade in patients undergoing cervical spine surgery with cervical spine immobilization.
- A Randomized prospective study to compare Truflex articulating stylet versus conventional rigid malleable stylet as an intubating guide with the Macintosh laryngoscopy during elective tracheal intubation: A phase IV interventional study.
- A prospective randomized observational phase IV study to compare recovery from anaesthesia using intra-venous dexmedetomidine and desflurane or sevoflurane in cases of spinal surgeries.

- Study the effect of ondansetron on shivering under spinal anaesthesia in gynaecological surgeries.
- A Prospective analytical observational study to evaluate the variability of skin epidural depth at various lumbar spinal levels using ultrasound.
- A Prospective randomized comparison between Microcuff endotracheal tube versus uncuffed endotracheal tube in terms of efficacy, morbidity and Sevoflurane consumption rate for paediatric laparoscopic surgeries.
- Preloading and relative efficacy of Ringer's Lactate and Hydroxyethyl starch 6% as preloading solution prior to spinal anaesthesia in lower abdominal surgeries.
- Randomized controlled prospective comparison study between ultrasound guided transverses abdominus plane block vs. conventional ilioinguinal / iliohypogastric nerve blocks for post-operative analgesia in open inguinal hernia repair.
- Randomized double blinded prospective study comparing the effects of intraoperative I.V. Clonidine vs. Dexmedetomidine infusion on haemodynamic stability, anaesthetics requirement and recovery from anaesthesia in patients undergoing spine surgery under general anaesthesia.
- Intraoperative awareness under general anaesthesia with blood loss equal to or more than 20% of blood volume.
- 1A study of comparison of efficacy and cost effectiveness of 2% glutaraldehyde and 0.55% ortho-phthalaldehyde for disinfection of laryngoscope blades.
- Critical incidents in paediatric anaesthesia-a prospective analysis over one year.
- Comparison of Miller and Oxiport miller blades for laryngoscopy in infants.
- Comparison of continuous epidural infusion v/s port site infiltration and systemic opioids in VATS decortications.
- A randomized prospective controlled trial comparing different sizes Airtraq optical laryngoscope in paediatric patients.
- Accuracy of ECG guided placement of CVC catheters in children.
- Audit of day care surgeries in paediatric surgical unit.
- Audit of use of supraglottic airway devices in paediatric OT.
- Comparison of recovery characteristics and agent consumption- "Sevoflurane v/s Desflurane anaesthesia in short paediatric surgical procedures, a randomised controlled study.

Biochemistry and Clinical Nutrition

- Biochemical parameters in HIV-TB coinfection
- Characterization and assessment of anti-cancer activity of Indian honey
- Predictive values of biochemical markers in cardiovascular disorders and renal diseases
- Role of cardiac and inflammatory markers and their inter-relationships in cardiac disorders
- Validation of a point-of-care testing device and biochemical-hematological evaluations in renal diseases
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Cardiology

- Study with an Endothelin Receptor Antagonist in Pulmonary arterial Hypertension to improve clinical outcome. A multicentre, double-blind, randomized, placebo-controlled, parallel group, event-driven, Phase III study to assess the effects of ACT 064992 on morbidity and mortality in patients with symptomatic pulmonary arterial hypertension." (EC/PHARMA-17/2008).
- A prospective, open label, multi-centric, observational registry for heart failure patients across India (EC/ PHARMA-12/2011)
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- Study Protocol TDE-PH-311: An open label extension study of UT – 15C in subjects with pulmonary arterial hypertension- A long term follow up to protocol TDE-PH-310 EC/PHARMA-26/2012)
- “A multicenter study to evaluate safety and tolerability in patients with chronic heart failure and reduced ejection fraction from PARADIGM-HF receiving open label LCZ696”
- A Multinational, Randomised, Double-Blind, Placebo-Controlled Trial to Evaluate the Effect of Ticagrelor 90 mg twice daily on the Incidence of Cardiovascular Death, Myocardial Infarction or Stroke in Patients with Type 2 Diabetes Mellitus

Chest Medicine

Ongoing Projects

- Allergen Testing in Asthma patients
- Pattern of Drug Resistance among Extra Pulmonary Tuberculosis
- Study of CD4 cell count in HIV negative patients with Tuberculosis
- Retrospective study of lung functions in Chlorination plant workers
- Analysis of pH of Exhaled Breath Condensate and co-relate pH of Exhaled Breath Condensate to severity of COPD
- Nocturnal Pulse Oxymetry in post-Tuberculous sequelae patients in exacerbation
- To correlate in IRCU severity of Bronchial Asthma to pH of Exhaled Breath Condensate
- Prevalence of MDR TB in newly diagnosed sputum positive cases
- Study of FOT in Bronchial Asthma patients
- To study the changes in serial lung functions in ILD patients
- To assess the prevalence of Asthma COPD overlap syndrome in a tertiary care Out Patient Department
- To study the role of pH in Exhaled Breath Condensate in patients of ILD
- To study the Bone Mineral density and fracture risk in patients of COPD with DEXASCAN

Completed Projects

- Study of Lung Functions in patients of Chronic Liver Disease.
- Study of Lung Function in cured Pulmonary Tuberculosis and treated Extrapulmonary (pleural) Tuberculosis patients.
- Comparison of Pleural Fluid Culture yield in bedside inoculation and Standard Laboratory culture.

Clinical Pharmacology

Academic studies

- Evaluation of compliance of clinical trial sites and clinical trial investigators with the Quality Council of India guidelines for site and investigator accreditation
- A comparative study to assess the quality and data completeness in Industry sponsored versus Investigator Initiated Trial
- An audit of Laboratory Parameters to assess nature and extent of screen failures and to determine the reference ranges for Indian participants presenting at a clinical trial site.
- Determination of laboratory reference intervals in healthy Indian adults at an academic centre
- Survey of Public knowledge and awareness of clinical research in Mumbai
- A comparative study of two informed consent processes- Audio Visual (AV) consenting versus written informed consent in a study with rabies monoclonal antibody.

- An audit of consent refusals in clinical research
- Evaluation of Compliance of published randomized controlled trials with CONSORT statement 2010.
- A Case-Control study to assess the prevalence and association of different Paraoxonase 1 (PON-1) polymorphisms and its activity with Coronary Artery Disease (CAD)
- Assessment of modulation of activity of Paraoxonase-1 (PON-1) by statins in patients requiring statin therapy
- An observational, prospective drug utilization study of antibacterial agents with special focus on vancomycin, colistin, meropenem, imipenem and piperacillin-tazobactam in patients admitted to the pediatric intensive care unit of tertiary care hospital.
- Pharmacokinetics-Pharmacodynamics relationship of vancomycin in patients with suspected or proven Gram-positive bacterial infection admitted to medicine intensive care unit of tertiary care hospital
- Pharmacokinetics-Pharmacodynamics relationship of vancomycin in children with suspected proven Gram-positive bacterial infection admitted to Pediatric intensive care unit of tertiary care hospital
- Pharmacoeconomic study for cost effectiveness of genotyping in patients on warfarin therapy with respect to prevention of bleeding episodes.
- Evaluation of prevalence of mutation in Chloroquine and sulphadoxine- pyrimethamine drug resistance associated with genes in *P.vivax* malaria isolate in a tertiary care center in Mumbai by nested- polymerase chain reaction techniques (nPCR).
- Evaluation of the activity of xanthine oxidase activity in normal, healthy adult Indian population by phenotyping
- Evaluation of the activity of xanthine oxidase activity in normal, healthy adult Indian population by phenotyping
- A study comparing published protocols and /or trial registry entries with published papers from two high impact factor journals

Government Sponsored

- Association of genetic polymorphisms of cytochrome P450 C19, ABCB1 , P2Y12 and response to the clopidogrel
- Geographic variation in the clinical manifestations, treatment and outcome of *P. vivax* malaria in three Indian States
- CSIR Sponsored Project entitled 'Advanced Drug Delivery Systems'
- Evaluation of host immune responses and parasite proteome in patients with severe/complicated malaria
- PCR validation of microscopy results and genomic analyses of host inflammatory genes associated with severe and non-severe malaria
- Modeling malaria prevalence in Mumbai

Sponsored

- A Phase III, Multicenter, open label , Randomized Study of Bovine Rotavirus Pentavalent Vaccine (BRV-PV) to Evaluate Lot-to-Lot Consistency and to Investigate Potential Interference with Routine UIP Vaccinations in Healthy Infants in India
- Immunogenicity and Safety of a Single Dose or Two Doses Given 28 Days Apart of a Quadrivalent Influenza Vaccine Administered via the Intramuscular Route in Subjects Aged 6 Months or Older in India
- A Phase III, Open label, randomized, multi-center, parallel group trial to assess the efficacy and safety of the fixed dose combination of Arterolane Maleate 37.5mg and Piperaquine Phosphate (PQP) 187.5mg dispersible tablets in comparison with chloroquine phosphate in pediatric patients with acute uncomplicated *Plasmodium vivax* malaria
- A Phase IV, Non Comparative, Open label, Multi-centric Trial to Evaluate the Safety and Efficacy of SYNRIAM® in the Treatment of Acute Uncomplicated *Plasmodium vivax* Malaria

Community Medicine

- A cross sectional review of issues and challenges in immunization services of under-five children amongst brick-kiln settlement
- A cross sectional epidemiological study of assessment of health needs and awareness regarding reproductive health in adolescent girls in rural area.
- An Epidemiological study of health needs assessment and health seeking behaviour amongst geriatric population of and urban slum in a metro city
- A cross sectional epidemiological study of morbidity profile and assessment of health needs among workers of municipal water treatment plant
- An epidemiological study of morbidity profile and health seeking behaviour amongst brick workers in rural field area of tertiary care hospital
- A cross sectional epidemiological study of morbidity pattern and factors influencing mental health status with special focus on depression in geriatric population in field practice area of urban health centre.
- A cross sectional study to determine occupational determinants influencing health status & morbidity profile of traffic police in a metropolitan city
- An epidemiological study to evaluate determinants influencing health status amongst married working women in the administrative department of a medical college and a tertiary care hospital attached to it
- An epidemiological mapping of growth and development in children below 3 years of age in a rural area
- A cross sectional study to evaluate the epidemiological determinants influencing health status of meat handlers in the field practice area of an urban health centre in a metropolitan city
- Organ donation: to gain practical insights to provoke commitment for organ donation amongst college students from arts, science, commerce stream
- A cross sectional epidemiological study of morbidity profile and assessment of treatment seeking behaviour among women with reproductive tract infection/sexually transmitted infection attending STI clinic of an urban health centre
- Assessment of group based comprehensive diabetes management program to improve glycemic control, quality of life and self care behaviour in patients with type 2 diabetes mellitus in a primary care setting of a metropolitan city: A randomized controlled trial.
- An epidemiological study of morbidity profile of nurses working in a tertiary level hospital with special reference to hypothyroidism and effectiveness of zulewski score as a screening method for hypothyroidism
- Epidemiological study to assess determinants influencing decision of medical termination of pregnancy and contraceptive acceptance among women undergoing medical termination of pregnancy in maternity homes, metropolitan city
- A cross sectional Epidemiological study of work stress with reference to related determinants among resident doctors of a metropolitan tertiary care hospital
- A longitudinal epidemiological study to compare allopathic and Ayurvedic treatment modalities amongst known cases of essential hypertension
- A study to assess correlation between maternal weight gain and foetal outcome among primigravidae registered in antenatal clinics
- A cross-sectional study to assess the scope of ergonomic interventions for healthcare workers in primary health centres in Thane district of Maharashtra
- An epidemiological study to assess and compare the health status and morbidity profile of matriarch women and non-matriarch women in urban field practice area of teaching medical institution
- An interventional study to assess the effectiveness of a health care service package which includes deworming, iron supplements and parental education on status of anaemia among primary school children
- Epidemiology of physical domestic violence against school-going children and its association with their academic performance and behaviour patterns at school

- A study to assess epidemiological determinants and health-seeking behaviour among children enrolled in learning disability centre at a tertiary care hospital
- A cross-sectional study to assess the determinants of hypertension in a rural community
- A cross-sectional study to assess consumer behaviour towards health insurance in a metropolitan city
- A cross-sectional for assessment of factors related to acute respiratory infection in pre-school children in an urban slum
- A study to assess epidemiological determinants influencing living conditions, behavioural pattern and health status of street children
- A cross-sectional study of health-seeking behaviour and treatment adherence among adolescents living with HIV/AIDS attending ART centres in a metro city
- Epidemiological study of compliance regarding universal safety precaution among trained staff nurses with special reference to needle stick and sharp injury, in a tertiary care hospital
- A study to assess epidemiology of obesity and associated morbidity in women of reproductive age group in field practice area of tertiary care hospital
- A study to determine factors influencing compliance of sputum positive pulmonary patients on DOTS therapy with reference to sputum conversion rate
- A cross-sectional study to assess epidemiology of sickle cell disease in tribal population
- Assessment of felt needs regarding reproductive health and effect of family life education on the knowledge about reproductive health among adolescent girls in schools located in urban area
- An epidemiological study of cataract among geriatric population in rural area
- Referral pattern at sub district hospital, Shahpur and its determinants.
- Study of epidemiology of measles among admitted patients in a tertiary care hospital with history of measles vaccination.

Dentistry

- Dental Management of Haemophilia patients.
- Oral Care for Paediatric patients undergoing prophylactic factor therapy.
- Awareness of Dental Implants as a treatment option based on multiple patient perceived factors in the city of Mumba

Dermatology

- Study on Cutaneous Epithelioid Angiomatous nodules
- Study on Griscelii syndrome type 2
- Study on Familial Comedones
- Study on Multiple myeloma and accelerated skin ageing
- Study on neuropathic pain in leprosy
- Study on Ectodermal dysplasia
- Study on Dermoscopy of chronic plaque psoriasis
- Study on Dermoscopy of chronic plaque psoriasis
- Study on Childhood lupus Erythematosus

Endocrinology

- Genotype-Phenotype Correlation in Indian Patients with Pheochromocytoma/ Paraganglioma.
- Genotype, Phenotype and Radiological Correlation of Idiopathic Hypogonadotrophic Hypogonadism
- Phenotype and Genotype correlation of growth hormone deficiency
- Comparison between a low dose maintenance treatment with antithyroid drugs vs standard protocol in patients with graves' disease

- To study the Cardiac Valvulopathy due to cabergoline treatment in patients with Prolactinoma. Retrospective analysis of macroprolactinoma
- Phenotype & Genotype of Gigantism secondary to Growth hormone producing pituitary Adenoma
- Retrospective audit of management of patients with Acromegaly.
- Retrospective analysis of Adrenal insufficiency
- Retrospective analysis of patients with disorders of sexual development
- Genotype Phenotype Correlation of 46XYDSD
- To study phenotypic characteristics and follow up outcome of genetically confirmed cases of neonatal diabetes.
- Comparison of familial vs sporadic PHPT
- Head to head comparison of MIBI & 4DCT in Parathyroid adenoma localization
- Triple phase CECT in adrenal mass imaging
- Central precocious puberty : an audit
- Familial clustering of AITD
- Hypokalemic paralysis in sjogren's syndrome
- MEN 1 single centre experience
- Recurrence in Cushing Disease
- NGS in hypogonadotrophic hypogonadism
- Prospective analysis of imaging in adrenal masses
- Bilateral adrenal masses

Pharmaceutical industry funded projects

- A Multicenter, International, Randomized, Double-blind, Placebo-controlled, Parallel-group Study to Assess the Efficacy and Safety of AMG 785 Treatment in Postmenopausal Women with Osteoporosis. EC/PHARMA-11/2012
- Liraglutide Effect and Action in Diabetes: Evaluation of cardiovascular outcome Results. A long term, multi-centre, international, randomized double-blind, placebo- controlled trial to determine liraglutide effects on cardiovascular events EC/24/10
- A randomized, double- blind, multicenter, phase III study to evaluate the efficacy and safety of pasireotide LAR in patients with Cushing's disease – Clinical Trial Protocol – CSOM230G2304 EC/Pharma/27/2013

Collaborative studies

- ICMR National Project: To formulate Registry of people with Diabetes with Young Age at the Onset in Western India (ICMR)
- Study of PON1 gene variants and its association with cardiovascular disease (CVD) risk factors in women with PCOS (NIRRH)
- Efficacy of Stereotactic conformal radiotherapy (SCRT) compared to conventional radiotherapy in minimizing late sequelae in children and young adults with brain tumors (SCRT Trial) TATA Memorial hospital and Research Centre
- Changing Diabetes in Children (CDIC): "Type 1 diabetes in economically underprivileged children in India." — EC/Govt/08/11 NNEF

Forensic Medicine

- Analysis of fatal burn cases with respect to epidemiology, pattern & histopathological changes in various organs."
- Post Mortem Diagnosis in sudden cardiac & Neurovascular Death Victims; A study of Macroscopic & Microscopic findings.

- Accuracy of Roots in counting tooth cementum annulations for age assessment & limitations encountered while studying Cementum annulations

Gastroenterology

- Anorectal manometric parameters of healthy adult volunteers.
- Intestinal permeability in Portal Hypertension compared with that in normal subjects
- Hepatic venous outflow tract obstruction (HVOTO) and pregnancy outcome in Indian woman at a tertiary care centre of India – a case control study
- Reinvestigation of functional dysphagia with Non Esophageal Motility Disorder and normal manometry
- A comparative study to assess the cardiac function in patients with Budd chiari syndrome and cirrhosis of other causes.
- Diversity of HCV sequence due to differential transmission mode in variable liver pathological conditions
- Glycosylation of the serum haptoglobin B-A potential biomarker for hepatocellular carcinoma due to hepatitis B virus
- A Prospective study to assess the nutritional status of patients with liver cirrhosis caused due to alcoholism at KEM Hospital (Govt. Hospital)
- A study of assess nutritional status of confirmed ulcerative colitis patients at KEM Hospital (Govt. Hospital)
- Study of upper esophageal sphincter manometry in different degrees of neck extension
- Prevalance of non-celiac gluten sensitivity in functional dyspepsia patients and their response to a gluten-free diet
- Renal profile in patients of budd chiari syndrome and comparison with patients of cirrhosis long term outcomes of patients with portal biliopathy with significant biliary obstruction with non-surgical management
- Predictive factors and clinical implication of deep mucosal healing in inflammatory bowel disease.
- Study of small intestinal bacterial overgrowth and intestinal permeability in ncph (non-cirrhotic portal hypertension)
- Education of primary care physicians at district level hospitals about management of gastrointestinal diseases through telemedicine.
- A Randomized, Double-Blind Evaluation of the Antiviral Efficacy, Safety, and Tolerability of Tenofovir Disoproxil Fumarate versus Placebo in Pediatric Patients with Chronic Hepatitis B Infection
- A Phase 3b, Multi-center, Randomized, Open-Label, Study to Evaluate the Safety and Efficacy of Sofosbuvir Plus Ribavirin in Treatment-Naïve Adults with Chronic Genotype 1 or 3 Hepatitis C Virus Infection
- 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.
- A Randomized, Double Blind, Multicentric, Placebo Controlled, Parallel Group Clinical Trial to Evaluate the Efficacy and Safety of Prucalopride in Patients with Chronic Idiopathic Constipation

Hematology

Collaborative projects

- Clinical and laboratory profile of PNH
- Cytogenetic and molecular study of Myelodysplastic syndrome in Indian Population
- Telomerase activity and telomere gene mutations in aplastic anemia.

Ongoing Projects

- Intraarticular atriium Injection in Hemophilia patients with chronic synovitis patients.
- Role of low dose prophylaxis therapy in paediatric haemophlic patients. Randomized, open label, multicentre phase III b study evaluating the Efficacy and safety of ruxolitinib versus best available therapy in patients with polycythemia vera who are hydroxyurea resistant or intolerant.
- Development of a registry to assess the demography, cytogenetic profile and treatment outcomes of patients with Multiple Myeloma-Multiple Myeloma Registry Program.

Medicine

Completed

- Study of hypertensive subjects with diabetes as co-morbidity

Ongoing

- Metabolic syndrome in hypertensive subjects
- ABPM in detection of Hypertension.
- ABPM in stroke

Microbiology

- Prospective Study for the Diagnosis and prevalence of Pediatric Autoimmune Neuropsychiatric Disorder Associated with Streptococci (PANDAS) in Mumbai Population.
 - Microbiological profile of diarrhea in children in less than 2 years of age.
 - Prevalence of Tuberculosis in diabetes mellitus patients Prevalence of intestinal parasites in HIV seropositive patients attending an ICTC
 - Prevalence of intestinal parasitic infections among alcoholics with special reference to Strongyloides stercoralis
 - Prevalence of Cryptococcaemia in HIV seropositive patients
 - Seroprevalence of toxoplasma gondii in HIV seropositive patients
 - Nasal carriage of MRSA in non patients population subsets in tertiary teaching hospital
- Several projects are being undertaken in collaboration with ICMR, NIRRH, NACO, MDACS, NARI Pune.

Neonatology

- To evaluate the clinical effects of early (10 seconds) v/s delayed (60 seconds) umbilical cord clamping in preterm infants (<32 weeks): A Randomized Controlled Trial
- Comparison of Feeding Regimens in Preterm Neonates with Abnormal Antenatal Doppler : A Randomized Controlled Trial
- Comparison of neonatal pain agitation & sedation scale with PIPP in preterm neonates with assisted ventilation
- Effect of Expressed Breast Milk vs swaddling vs oral sucrose administration on Pain associated with suctioning in Very Low Birth Weight Infants: A Randomized Controlled Trial
- Study of 30% Vs 60% oxygen in resuscitation of preterm neonates: A Randomized Controlled Trial
- To compare transcutaneous bilirubin with total serum bilirubin in preterm neonates receiving phototherapy
- Use of labour room CPAP in preterm infants – An Indian experience
- Screening of Congenital Heart Disease by pulse oximetry
- Evaluation of CD11b, CD64, CD88, CD282 as early diagnostic markers in detection of neonatal sepsis.
- Transcutaneous bilirubin estimation in extremely low birth weight neonates
- Drug utilization study in NICU of a tertiary care hospital.

- Innate Immune receptors gene polymorphisms and their role as genetic determinants of infection in neonatal sepsis

Collaborative projects

- Facility Based Newborn Care in collaboration with National Reproductive and Child Health Program of Ministry of Health & Family Welfare, Government of India supported by Norway India Partnership Initiative (NIPI) & UNICEF
- Evaluation of CD11b, CD64, CD88, CD 282 as early diagnostic markers in detection of neonatal sepsis in collaboration with National Institute of Immunohematology, ICMR, Mumbai.
- Ophthalmic evaluation of normal babies and High Risk NICU graduates in collaboration with KB Haji Bachooali Charitable Ophthalmic and ENT hospital, Mumbai.
- Genetic studies in HIV exposed, infected and uninfected infants in collaboration with Department of Infectious Diseases Biology, National Institute for Research in Reproductive Health (ICMR), Mumbai.

Nephrology

- CKD prevalence in Mumbai funded by ICMR.
- Clinical profile, antibiotic susceptibility and treatment outcome in Urinary Tract Infection due to (ESBL)Extended spectrum Beta Lactamase producing bacteria. Mrs. Geetanjali Thakur.
- Darbepoetin clinical Trial CDP/02/07 A randomized, open label , multicenter study to evaluate the efficacy and safety of Darbepoetin as compared to Erythropoietin in patients with anemia of chronic kidney disease (CKD)
- Pattern of glomerular diseases at a tertiary care Centre.
- Nutrient intake and nutritional evaluation in various stages of CKD.
- AKI in cancer patients.
- Clinical profile and outcome in Membranous nephropathy.

Obstetrics and Gynecology

- Critical evaluation of PALM- COEIN classification of abnormal uterine bleeding
- Evaluation of Uterine incisions for Myomectomy.
- To evaluate the expression of hemoglobin in human primary vaginal cells and to delineate its role in immune responses *in vitro*.
- Evaluation of viscera sliding test for predicting anterior abdominal wall adhesions in patients with previous abdominal surgeries or conditions that cause intraperitoneal adhesions
- Critical evaluation of existing classifications with a new system of classification of congenital malformations of the female genital tract.
- Role of Intraoperative Myomectomy to facilitate hysterectomy
- Comparison of paperless partogram with WHO partogram.
- Doppler of aortic isthmus and its utility in management of intrauterine growth restricted fetuses
- Comparative study of caesarean sections in spontaneous and induced labour prior to completed weeks.
- Observational study on the prolapse outcome of induction of labour in a patient with prior one caesarean section.
- Ultrasonographic measurement of uterine lower segment scar thickness in case of previous one Caesarean section and obstetrics outcome.
- Knowledge attitude and practice of contraception among reproductive age women attending Gynaecology OPD
- Knowledge attitude and practice about exclusive breast feeding in women attending ANC OPD
- Obstetric and neonatal outcomes of pregnancies complicated with thrombocytopenia
- Comparison of stapler vs. suture materials in transverse abdominal skin incision closure

- A prospective study of the influence of parity on amniotic fluid index and Doppler indices and perinatal outcome.
- Serum lipid profile in early second trimester as a predictor of pre eclampsia
- Study of fetal 2D ehco in diabetic mothers.
- A study on Teenage Pregnancy & its outcome.
- Evaluation of Progesterone Vaginal Ring (PVR) as a new contraceptive option in India'
- Sexual Practices in Pregnancy and Puerperium
- Comparison of maternal and fetal outcome in pregnancy diagnosed as gdm elhar by oggt or dipsi.
- Analysis of cases of report uterus a retro prospective observational study.
- Fetomaternal outcome in postdated pregnancy elective induction v/s spontaneous on set of
- Comparative study of chromic catgut 1-0 for vs fact obsor gatle polyglactin 910 for episiotomy repair.
- Comparative study of fetomaternal outcome in intracervical versus posterior fornix instillation of dinoprostone gel during primary induction of labour- a prospective study.
- Development of Multistain probiotic Lactobacillus formulation effective against reproductive tract infections.
- Do uterine fibroids alter the Endometrial Recepticity
- A prediction model of preeclampsia using a combination of biomarkers.
- Evaluation of various factors affecting the mode of delivery in patients with previous one lower segment cesarean section and study of fetal maternal and fetal outcome.
- A comparison of two different techniques of subcutaneous tissue closure in abdominal surgery
- An observational study to determine accuracy of various methods used to assign gestational age and correlate with outcome.
- Maternal outcome of caesarean section with or without evenleation of uterus
- Effect of duration of pre - operative admission on surgical site infection in major abdominal surgeries an observational study.
- Study of prevalence and causes of infertility in patients attending infertility clinic in a tertiary care center.

Collaborative projects

- Immunological markers for Endometriosis, in collaboration with National Institute for Research in Reproductive Health (NIRRH)
- "Pathways to oncogenesis in the pathophysiology of endometriosis" in collaboration with National Institute for Research in Reproductive Health (NIRRH)
- A prediction model of preeclampsia using a combination of biomarkers, in collaboration with National Institute for Immuno Haematology (NIH)
- A Phase III, Multicenter, Single dose, Randomized, Single-Blind, Non-Inferiority, Parallel-Group, Comparative, Study to Evaluate Efficacy and Safety of Fenticonazole vaginal capsule compared to Clotrimazole vaginal tablet in the treatment of Subjects with Vaginal Candidiasis, multicentric industry sponsored
- A prospective, randomised, open label, phase III clinical trial to compare the efficacy and safety of monoclonal anti Rho (D) immunoglobulin with polyclonal anti Rho (D) immunoglobulin in prevention of haemolytic disease of newborn, multicentric industry sponsored
- A Randomized, single blind, multi-center, parallel-arm, pilot scale study to ascertain the efficacy of coated Copper T in reducing bleeding side effects as Compared with Copper T 380 A for a maximum of 1 year, multicentric industry sponsored.
- A Randomized, single blind, multi-center, parallel-arm, pilot scale study to ascertain the efficacy of coated Copper T in reducing bleeding side effects as Compared with Copper T 380 A for a maximum of 1 year
- Fresh insights into Cesarean births after vaginal delivery

Other academic projects

- Millennium Development Goals: An assessment of awareness and perceptions of attainability by doctors in tertiary care centre in urban India.
- Intravenous paracetamol v/s intravenous diclofenac in post operative pain relief prospective, open international and comparative study.
- Observational study of current practices of cervical ripening and induction of labour in intrauterine fetal demise
- Prospective study of congenital malformations and their outcome at tertiary health care centre.
- Maternal vitamin D3 levels & maternal pregnancy outcomes.
- A study on Teenage Pregnancy & its outcome.
- Evaluation of Progesterone Vaginal Ring (PVR) as a new contraceptive option in India
- Sexual Practices in Pregnancy and Puerperium
- Development of Multistain probiotic Lactobacillus formulation effective against reproductive tract infections.
- Do uterine fibroids alter the Endometrial Receptivity
- A prediction model of preeclampsia using a combination of biomarkers.
- Association of adverse pregnancy outcomes with domestic and intimate partner violence.
- Evaluation of feto-maternal outcome in HIV reactive patients.
- Febrile illness in third trimester pregnancy,
- Maternal and neonatal outcome, and observational study
- Audit of maternal near-misses in patients coming to KEMH (obgy department) one the period of 1.1/2 years.
- Role of transcervical amniofusion in intrapartum management of meconium stained amniotic fluid and neonatal outcome
- Type of surgery of in stress urinary incontinence and its follow up
- Association of host immunogenetic factors with Human papillomavirus (HPV) infection in development of cervical cancer in Indian women
- Maternal and fetal outcome in elective various emergency cesarean section
- Audit of blood transfusion in obstetrics.

Occupational therapy

- Impact of Positive Behavioral Support on challenging behaviors of children with developmental disability and family routine
- Impact of Cognitive Stimulation and Cognitive Training on activities of daily living functions in patients with mild to moderate dementia.
- Study of effectiveness of kinesiotaping as an adjunct to occupational therapy to prevent shoulder subluxation in acute post stroke patients and to improve functional performance of upper extremity.
- Effectiveness of dual task training on executive functions and memory in patients with traumatic brain injury.
- To study the effectiveness of Purposeful activities versus Cawthorne-Cooksey exercises in patients with Benign Paroxysmal Positional Vertigo(BPPV):Randomized control trial
- To study the effectiveness of Tai chi exercises as an adjunct to Occupational Therapy: A Randomized control I Trial.
- To study the influence of Occupational factors on the occurrence of work related musculoskeletal disorders in employees of Tertiary hospitals in Mumbai.
- To study the effectiveness of Cue based feeding versus scheduled feeding in premature infants.

- To study the effect of Aerobic exercises and cognitive training on cognitive functions and Quality of Life on elderly with or at risk of CVA.
- To study the effects of resistive exercises on balance, mobility and activities of daily living in patients with Multiple Sclerosis.

Ophthalmology

Global Trials :

- A Phase III, Multi-National, Multi-Centre, Randomized, Masked, 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.
- A Phase III, Multi-National, Multi-Centre, 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.
- A Multicenter, randomized, double masked, 3 parallel arms, placebo controlled study to assess the efficacy and safety of NOVA22007 1mg/ml (Cyclosporine) eye drops, emulsion administered in paediatric patients with active severe vernal keratoconjunctivitis with severe keratitis.
- EX1639 P001 Clinical Evaluation of Systane Gel Drops with Corneal staining among Indian patients with Dry eye. Alcon Company USA
- RAINBOW Study (RFB002H2301): A randomized, controlled study evaluating the efficacy and safety of Ranibizumab compared with laser therapy for the treatment of infants born prematurely with retinopathy of prematurity. (Novartis Company) Switzerland (awaiting ethics committee clearance)

Indian Trials :

- APL/CT/13/02 A Clinical study to evaluate Efficacy, Safety and Tolerability of 2% Rebamipide ophthalmic suspension Vs 0.1% Sodium Hyaluronate Ophthalmic solution for treatment of patients with Dry Eye.
- A Clinical Study to evaluate the Efficacy, Safety & Tolerability of Brinzolamide 10 mg in Combination with Timolol Maleate 5 mg Ophthalmic Suspension Vs. Dorzolamide 20 mg plus Timolol Maleate 5 mg Eye Drops for the Treatment of Patients with Open-Angle Glaucoma or Ocular Hypertension. (Ajanta Pharma Company)

Orthopaedics

- Prospective CT & x-ray based morphometric analysis of lateral mass of the subaxial cervical spine in Indian population.
- Prospective CT & x-ray based morphometric analysis of lateral mass of the subaxial cervical spine in Indian population' : Assicon 2015
- Longterm clinicroadiological outcome of cost effective composite reconstruction in dorsal spine tuberculosis: WIROC 2015
- Assessment of various patellar parameters for an ideal patellar resurfacing in total knee arthroplasty
- Clinical and radiological follow up of all poly total knee arthroplasty patients.
- Comparative study of functional outcome of Trochanteric femoral nail v/s Dynamic hip screw in intertrochanteric femur fracture.
- Function outcome of multiple joint replacement in a single patient.
- A Study of outcome in management of stable intertrochanteric femur fracture by minimally invasive dynamic hip screw.
- Accuracy and efficacy of dorsal pedicular screws based on a pedicle based jig by making single point of entry (Pilot study)
- Prospective analysis of uncemented Bipolar in IT
- A study of functional outcome of single row repair v/s double row repair in full thickness rotator cuff tear.

- Prospective roentgenographic and computerized tomographic morphometric analysis of spinal canal diameter of cervical spine in tertiary care centre

Pathology

- Comparative Evaluation of Malaria Rapid Diagnostic Test Kits
- To evaluate an unknown kit in comparison with the standard known kits and with the gold standard peripheral smear
- Project on therapy in patients with polycythemia with clinical hematology Investigational laboratory

Paediatric Surgery

- Role of propranolol in pediatric hemangioma
- Advanced laparoscopy in Disorders of sexual differentiation.
- Study of solid tumors in children
- Study of constipation in children

Pediatrics

- A Phase 3, Randomized, Multi-Center, Multi-National, Double-Blind Study to Evaluate the Efficacy, Safety and Pharmacokinetics of Once Daily Versus Twice Daily Dosing of Genz-112638 in Patients With Gaucher Disease Type 1 Who Have Demonstrated Clinical Stability on a Twice Daily Dose of Genz-112638 (EDGE)
- A phase III, open label, randomized, multicenter, parallel group trial to assess the efficacy and safety of the fixed dose combination of arterolane maleate 37.5 mg and piperazine phosphate (PQP) 187.5 mg dispersible tablets in comparison with chloroquine phosphate in pediatric patients with acute uncomplicated Plasmodium vivax malaria. Study number: R2013005.
- An open label, prospective, comparative, multicenter, 2 weeks study to assess the device handling, human factors, ease of use, errors, and participant perception on the use of synchrobreath- a breath actuate inhaler versus pressurized metered dose inhaler in healthy volunteers and in patients with Asthma or COPD.
- Blood & blood products transfusion audit: Current practices and lacunae in blood and blood product transfusions among hospitalized children
- Clinical and laboratory predictors of outcome and need for mechanical ventilation in children with GuillianBarre syndrome.
- Tuberculin skin test positivity in children in a tertiary care hospital.
- Comparative analysis of epidemiological, clinical and bacteriological parameters of nosocomial and community acquired infection as diagnosed by culture.
- A study of acute kidney injury in a tertiary care Pediatric Intensive care unit using the PRIFLE score.
- Awareness about thalassemia and feasibility of cascade screening in families of thalassemia major patients.
- Comparison of Pediatric Risk of Mortality (PRISM) III, Pediatric Index of Mortality (PIM) II and Pediatric Index of Mortality (PIM) III Scores in Predicting Mortality in Pediatric Intensive Care Unit.
- Efficacy of Inhaled Salbutamol Therapy via Nebuliser versus Metered Dose Inhaler & Spacer in Children with Acute Asthmatic Attack
- Clinical, Epidemiological, Biochemical Profile and Outcome of Dengue & Dengue-like illness in Children
- Economic Burden of Specific Learning Disabilities- An Observational Study
- Study of Risk Factors and Clinical Outcome of Cerebrovascular Stroke in Children
- Knowledge, Attitude and Practices Among Pediatric, Neonatology and Obstetrics Residents About the Breast Feeding Practices
- An Observational Study of Causes, Management and Outcome of Thrombocytopenia in a Pediatric Intensive Care Unit
- Efficacy, safety of antiretroviral therapy and determinants for it's compliance in Pediatric age group

- Clinico-epidemiological profile of children with bacteriologically positive versus bacteriologically negative tuberculosis
- Study of infant and young child feeding practices and the impact of select maternal characteristics on them
- A study on hypocalcemia in children upto 5 years of age in a tertiary care hospital
- A study on prevalence and risk factors of iron deficiency anemia in age of 1 month – 3 years of age
- Clinicopathological analysis of pneumonias in the pediatric age group
- Clinical-etiological profile of chronic liver disease in children
- Economic burden in beta thalassemia major at public hospital- A cross sectional study
- An observational analytical (cohort) study of morbidity and mortality in patients undergoing mechanical ventilation in a tertiary care pediatric intensive care unit
- Awareness about disease among parents of children with nephrotic syndrome
- A prospective antibacterial utilization study in the Pediatric Intensive Care Unit of tertiary referral center.
- Pharmacokinetics-Pharmacodynamics relationship of vancomycin in children with suspected or proven gram-positive bacterial infection admitted to Pediatric intensive care unit of tertiary care hospital.
- One year study project for MUHS accredited Fellowship in Clinical Genetics. Topic: A cross sectional study of the levels of anxiety in parents of children on their first visit to the Genetic Clinic of a tertiary hospital in Mumbai

Pharmacology and Therapeutics

Academic

- To evaluate and compare the efficacy of alcoholic and aqueous extract of *Lagenariasiceraria* in high fat diet model in Wistar rats.
- To assess the perception of dermatologists and Ayurvedic physicians as well as patients of psoriasis regarding treatment outcome with Ayurvedic therapy.
- A prospective study to assess the impact of prescribed pharmacotherapy on quality life of patients with psoriasis taking treatment in Dermatology OPD of the tertiary care hospital.
- A cross sectional study about perioperative management of blood pressure & practice of anaesthesia in hypertensive patients undergoing noncardiac surgery.
- To evaluate the anti-allergic and immunosuppressive potential of *Boerhaavia diffusa* (*B. diffusa*) in experimental animals.
- A cross-sectional study on patient's perception of effectiveness of various therapies for alcohol addiction.
- Study of prescriptions and adverse events in patients receiving pro-kinetic agents in the out-patient departments of a tertiary care teaching hospital.
- An observational study to evaluate prescription pattern of analgesics during perioperative period.
- Prescription audit of anti-fungal treatment of dermatophytoses in the Dermatology Out Patient Department of a tertiary care hospital.
- Factors influencing medication adherence in hypertension and diabetes: A qualitative examination in India.
- Evaluation of the effect of Indian Medicinal Plants on a murine model of dextran sulphate sodium (DSS) induced acute colitis.
- To evaluate the protective effect of *Phyllanthus emblica* in NSAID induced enteropathy: An experimental study in rats.
- Evaluation of performance and perception of postgraduate pharmacology students towards skills of critical appraisal of published research papers.
- Evaluation of nephroprotective effect of *Bryonia laciniosa* in diabetic nephropathy in rats.
- Evaluation of effects of Indian medicinal plants alone & in combination with each other & antibiotics on coagulase negative staphylococci & staphylococcus aureus in biofilm state: An in vitro study.

- A cross sectional study on influence of incompatible diet (*Viruddha-aahar*) and suppression of urges on coronary heart disease or hypertension or both.
- Characterization of biofilm forming micro-organisms from clinical specimens and its evaluation by Ayurvedic formulations on biofilm production.
- Evaluation of the efficacy of unprocessed, partially and fully processed *Curcuma longa* in monoiodosodium acetate induced osteoarthritic model of mice
- Assessment of physico-chemical properties of the *bhasma* and evaluation of their effects on animal model of Parkinson's disease.
- Evaluation of effect of minocycline on alcohol induced extinction and reinstatement phenomenon in mice.
- Role of serotonin in memory reconsolidation determined using contextual fear-conditioning paradigm

Sponsored

- Evaluation of Role of *Withania somnifera* and *Celastrus paniculatus* in animal models of alcohol addiction. Project sponsored by Ministry of AYUSH, Government of India.
- "Capacity building of young investigators in Clinical Research" Approved and sanctioned for financial aid by Indian Council of Medical Research, Government of India. Not initiated as funding is awaited.
- Evaluation of effect of M2 tone on ovulation and implantation in fertile female Wistar rats.

Completed Projects

Academic

- Hepatoprotective potential of lycopene in drug induced hepatotoxicity: An experimental study.
- Comparative evaluation of anti-platelet effect of lycopene with aspirin and the effect of their combination on platelet aggregation: an *in vitro* study
- Effect of flumazenil on memory retrieval determined by trial-to-criteria inhibitory avoidance method in mice.
- Prospective study for developing school based model for mainstreaming the rational use of medicine.
- Confirmation of HPTLC results of steroidal adulteration in Ayurvedic drug sample biologically.
- Study of adverse effects to antimicrobial drugs and resistance pattern of micro-organisms in patients receiving antimicrobial agents in MICU of a tertiary care teaching hospital.
- Experimental study to evaluate the effect of *Ashwagandharishta* on memory determined using scopolamine induced amnesia.
- A prospective randomised placebo controlled comparative study to evaluate the efficacy of standardised aqueous extract of *Withaniasomnifera* and *Tinosporacordifolia* on physical performance and cardiovascular performance in response to exercise in healthy adults.
- A comparative study of hepatoprotective effect of curcumin with N-Acetyl cysteine and their simultaneous administration in acetaminophen induced hepatotoxicity.
- A study of effect of Indian Medicinal Plants on fertility and maintenance of pregnancy in fertile rats and their uterotrophic effect on bilateral ovariectomised immature rats.
- To evaluate learning styles and approaches towards pharmacology learning among II MBBS medical students
- Drug utilization study in neonatal intensive care unit of a tertiary care hospital.
- Introduction of an educational program to promote research ethics in undergraduate medical students.
- To assess clinical need of alternative treatment by medical practitioners and patients in a tertiary care hospital: a cross sectional study.
- Is coercion involved in the decision making of medical students regarding participation in research? A cross sectional questionnaire study

- To evaluate the perception of 2nd year medical undergraduate students on pharmacology museum as teaching & learning tool
- An experimental study to evaluate effect of pulsed radiofrequency and oral Ayurvedic preparation of *Dashmoolarishta* on joint pathology and pain behaviour in animal model of osteoarthritis.
- To evaluate clinical pattern, economic burden, causality and histopathological pattern of cutaneous adverse drug reactions in Dermatology Department of tertiary care hospital
- Evaluation of prescription pattern and awareness of drug treatment in patients of Parkinson's disease.
- A prospective, cross sectional, controlled survey to study dietary behavior of patients suffering from skin diseases- A pilot study.
- Online videos as a supplement to traditional teaching in pharmacology practicals. Evaluation of anti-epileptic effect of S-Adenosyl methionine and its role in memory impairment in pentylentetrazole induced kindling model in rats.
- To evaluate the perception of postgraduate pharmacology students towards rotational duties in experimental pharmacology & clinical research.
- Evaluation of effects of Indian medicinal plants alone & in combination with each other & antibiotics on coagulase negative staphylococci & staphylococcus aureus in biofilm state: An in vitro study
- Evaluation of effects of Indian medicinal plants on tumour growth and angiogenesis in a murine mammary cancer model.
- Ethical issues in biomedical research: Analysis of research projects submitted to the ethics Committee of a tertiary care hospital in Mumbai.
- Perceptions and Experiences of Community members on Institutional Review Boards

Sponsored

- A prospective, randomised, active controlled, 2-arm, parallel group, assessor blind study to evaluate efficacy and safety of Myostaal forte, a polyherbal formulation in the treatment of osteoarthritis of the knee joint.

Physiology

- A study of cardiac autonomic response in prehypertensives Dr Mangala Bhongade
- A study of evaluation of effect of sleep deprivation on human audio-visual reaction time, postural control & eyehand co-ordination. – Dr Jeetendra Yogi
- To evaluate taste sensitivity to phenylthiocarbamide (PTC) in smokers & non-smokers.
- Comparative study of mechanical lung function measurements in normal healthy individuals and COPD patients using spirometry, FOT & MIP-MEP technique.
- Comparative study of cardiovascular autonomic reactivity in medical students of age group 18-30 years with hypertensive and normotensive parents

Ongoing Research

- Comparative study of neurocognitive functions in Deaf & normal hearing subjects of age 8 to 18 years.
- Comparison of neuromotor skills in smokers & non-smokers between the ages of 25-60 years to study the effect of smoking.
- Comparative study of effect of air pollution on pulmonary function test in taxi drivers and train drivers.
- A comparative study of haemoglobin concentration in vegetarian & nonvegetarian Indian population of aged 18 to 40 years.
- Co-relation of VO₂ max and body composition in obese and nonobese young Indian population.
- Comparative study of mechanical lung function tests in COPD patients.

Physiotherapy

- Study of outcome measures to assess functions in elderly
- Effect of massage and exercises on problems in sleep quality in children with CP Psychometric testing of clinical tool for quantitative gait analysis (CTQGA); for the academic year 2014 onwards at MUHS, Nashik.
- Association of Body Mass Index & Bone Mineral Density with performance based measures of balance and mobility in Indian women.
- Comparison between effect of equal intensity training with Suryanamaskar or physical education activity or combination of both on physical fitness in adolescent urban school children – A randomized control trial
- Effectiveness of school based intervention on physical fitness in obese children
- "Assessment of reaction time and percentage of accuracy for laterality recognition in health adults- A pilot study "Satej Dalvi 1st prize-UG musculoskeletal paper Award at Scientifica 2015
- "Effect of body positions on Q angle measurement" Nikita Singhania-2nd prize-UG Musculoskeletal Junior paper Award at Scientifica 2015
- "Co relation between core muscle activation and Dynamic Balance in health young adult population –A pilot study" Rucha Ryas-3rd prize-UG Junior paper Award at Scientifica 2015
- Assessment of carrying angle, sensory threshold and ulnar neurodynamics in healthy young individuals- Bhakti Salgaonkar
- Correlation between improved rectus femoris length and Gluteus maximus strength, Ketaki Jatar
- Association between rectus femoris extensibility and gluteus maximus strength.
- To study the correlation between length of soleus muscle with power and agility in soccer players
- Hand functions; study of variants between dominant and non dominant hand in healthy adult individuals

Psychiatry

- A study of knowledge, attitudes, perceptions in caregivers of patients of schizophrenia
- Care Giver burden & quality of life in caregivers of schizophrenic patients.
- Prospective study of self esteem, body image, anxiety, depression and quality of life in patients diagnosed with hirsutism undergoing laser hair reduction.
- Study of depression in mothers of children in ADHD & its associations.
- Psychiatric co-morbidities, cognitive impairment & Disability in SLE patients
- Absentism in BMC employee.
- Study of knowledge of psychiatry in interns.
- Prevalence of Depression in renal transplant patients.
- Study of factors associated with adherence to treatment of schizophrenia.
- Clinical profile of children presenting with school refusal: A retrospective analysis.
- A study of Depression, Anxiety, Body image concerns and eating habits in patients of PCOS.
- A study of care giver burden and perceived social support in relatives of patients with Depression.
- A study of quality of life, psychiatric morbidity and coping skills in care givers of Thalassemia patients
- Ethnographic Study of Breast Cancer in Indian Women
- Cross sectional survey of Psychopathology, quality of life and perceived stress in GERD
- Study of Post Partum Depression – Risk factors and infant mother bonding in Indian Mothers

Surgical Gastroenterology

- Evaluation of symptoms pre operatively and post operatively in patients with chronic pancreatitis undergoing surgery
- QOL of UC patients following Surgery
- Study of functional and Morphological changes in cases of Biliary Stricture

- Esophagocoloplasty for Non Dilatable oesophageal corrosive strictures – evaluation of outcomes Study Of Functional And Morphological Changes In Liver In operated Cases Of obstructive Jaundice
- Factors Predicting Malignancy in Chronic Pancreatitis with Head Mass.

Transfusion medicine

- Molecular genotyping of clinically significant (Rh, Duffy, Kell & Kidd) blood group antigen in donors & Multi-transfused patients.

Others

- A Study of profile of neonates undergoing platelet transfusion at the NICU in a tertiary care hospital.
- A study on Evaluation of Transfusion Related Complications in Haemophilia A patients at a Tertiary Care Centre
- Study of hematological and biochemical parameters in mother and her neonate in cases of non identical ABO blood groups in tertiary care hospital.

Urology

Completed

- An open label, randomized, parallel group and prospective, multicentre clinical trial of IN-ALRN-001 in comparison with tamsulosin hydrochloride in adult male patients with lower urinary tract symptoms associated with BPH.

Ongoing

- Study of erectile dysfunction following end to end urethroplasty in PFUDD patients.
- Corelation between lower urinary tract symptoms and development of inguinal hernia
- Can erectile dysfunction serve as surrogate marker or increased cardiovascular risk in India males.
- Urodynamic profile in patients undergoing TURP predicting outcomes.

In the pipeline

- Metabolic evaluation of patients with renal stones.
- Demographic profile of patients with clinical/sub clinical varicocele in normal fertile & infertile population attending OPD.
- Demographic profile & clinical course of patients with proven ESBL Urinary tract infection.
- Randomized, Double-Blind, Multicenter, Placebo-Controlled, Proof-of-Concept Trial to Assess the Efficacy and Safety of 4-Weeks Treatment with AUS-131 (S-Equol) on Benign Prostatic Hyperplasia.
- Development of new module for practical examination for superspeciality students of urology
- Urinary metabolic evaluations in normal children to formulate normogram for urinary metabolic values.
- Predicting the functional outcome of pyeloplasty in adults.
- Role of TURP in the current era of medical therapy in BPH

In the Limelight

In the Limelight

Cardiology

- Collaboration with American College of Cardiology for the PIQIP Study (Pinnacle India Quality Improvement Program).

Chest Medicine

- Letter of appreciation from Dr.Uday Khandeparkar for good service to patients

CVTS

- Appreciation published in Maharashtra Times for performing a complex surgery

ENT

- Dr. J. P Dabholkar became Chief Editor of International journal of Head and Neck physician & surgeon
- Article published in DNA on 17-03-2015 on Rusted wire impacted in cheek, unusual foreign body and challenging surgery by Dr.Nilam Sathe.
- Interview of OPD DOCTORS on MI MARATHI
- Interview of Dr.Nilam Sathe as ENT expert on 'Aawaj Kunacha' politicians and the voice change during elections
- Interview as ENT expert on 'swine flu' of Dr.Nilam Sathe on 04/03/2015.
- Participation of Dr.Nilam Sathe in a Debate- Happy to bleed on MI MARATHI (24-10-2015)

Neonatology

- Report on Kangaroo Mother Care in NICU in newspaper, "Nagarik Varta" in August – September 2015.

Nephrology

- First Paired Kidney Transplant at the institute

Pediatrics

- Dr. Mukesh Agrawal quoted on various Pediatric medical topics in newspapers (Times of India, Hindustan Times & Mumbai Mirror).
- Dr. Milind Tullu: Appeared in a short clip on TV channel DD Sahyadri on occasion of Hemophilia Day on 18.04.2015.
- Details of Pediatric ICU and other specialty departmental Services mentioned in article in Maharashtra Times (on 13.02.2015).

Pharmacology and Therapeutics

- Dr Padmaja Marathe served as Organising Secretary of preconference workshop on 'Medical and Scientific Writing' on 23rd April 2015 in the South Asian Chapter of American College of Clinical Pharmacology, 8th Annual Conference on Translational Clinical Pharmacology Research in Drug Development 23rd - 25th April 2015 (Thursday to Saturday), Mumbai (India) at Nehru Centre, Mumbai,
- Dr Padmaja Marathe was appointed as Head of Steering Committee of GSMC- MUHS UNESCO Bioethics Unit established in August 2015 for bioethics training and teaching to medical faculty and students Appointment as master trainer for 3T plus E National training programme for Bioethics Education of Indian medical teachers conducted by UNESCO Chair in Bioethics, Haifa, Australia.
- Dr Yashashri Shetty participated as International lead surveyor with Cristina Torres (Coordinator) and Ranjith Kumarasinghe for Training and Orientation along with re- survey for FERCAP- SIDCER recognition of Faculty of Medicine, Sri Jayawardenepura, Srilanka from March 1st -4th , 2015.

- Dr Nirmala Rege was appointed as Nodal Officer for Multi-disciplinary Unit of Seth GS Medical College supported by Department of Health Research, Govt of India.

Transfusion medicine

- Dept. of Transfusion Medicine has been selected as the Apex Training Centre for Western and Central Zone (Maharashtra, Gujrat, M.P. Goa, Rajasthan) for training all the Blood Bank officers, Technicians and Nurses by NACO, Ministry of Health & Family Welfare

Urology

- Dr. Sujata Patwardhan, Professor & Head appointed as Chairman to prepare syllabus of Fellowship Courses in Reconstructive Urology by Maharashtra University of Health Sciences (MUHS), Nashik
- Dr. Sujata Patwardhan, Professor & Head, Urology appointed as Council Member at Mumbai Urological Society and West Zone Urology Society of India.
- Dr. Sujata Patwardhan appointed as Advisor in State Advisor Committee, Mumbai (DHS).
- Member of committee for ROTTO (Regional Organ And Tissue Transplantation Organisation) & SOTTO (State Organ And Tissue Transplantation Organisation) at DGHS, Delhi.



केईएम मध्ये नववर्षात नव्या आरोग्यसुविधा



Indian docs have skills to perform face transplants, says US expert



KEM, Sion and Nair will seek nod for hand transplants



47 DESPAIR, DEFIANCE SPECIAL REPORT FROM PARIS

THE WEEK

CONGRESS WAS FORCED TO A TIGHTENING BELT FOR THE SPENDING OUTLAWRY 42

THE WEEK-NINETEEN SURVEY

BEST HOSPITALS 2015

WHAT YOU CAN EXPECT IN THE AGE OF INNOVATION

PLUS: 50 HOSPITALS AND CARE PROVIDERS

CONSUMER AND BUSINESS TRENDS

Best **Specialty** HOSPITALS

RANK	HOSPITAL	LOCATION
1	APMC	Mumbai
2	Dr. B. K. Shah	Mumbai
3	Dr. J. B. Shah	Mumbai
4	Dr. K. B. Shah	Mumbai
5	Dr. L. B. Shah	Mumbai
6	Dr. M. B. Shah	Mumbai
7	Dr. N. B. Shah	Mumbai
8	Dr. O. B. Shah	Mumbai
9	Dr. P. B. Shah	Mumbai
10	Dr. Q. B. Shah	Mumbai

Best **MEDICAL COLLEGES**

RANK	COLLEGE	LOCATION
1	Dr. B. K. Shah	Mumbai
2	Dr. J. B. Shah	Mumbai
3	Dr. K. B. Shah	Mumbai
4	Dr. L. B. Shah	Mumbai
5	Dr. M. B. Shah	Mumbai
6	Dr. N. B. Shah	Mumbai
7	Dr. O. B. Shah	Mumbai
8	Dr. P. B. Shah	Mumbai
9	Dr. Q. B. Shah	Mumbai
10	Dr. R. B. Shah	Mumbai

In an environment of security, measures and health education would be responsible. It is going to be a healthy disease.

We are not able to fund any research projects or give support for engaging projects.

Best HOSPITALS

RANK	HOSPITAL	LOCATION
1	APMC	Mumbai
2	Dr. B. K. Shah	Mumbai
3	Dr. J. B. Shah	Mumbai
4	Dr. K. B. Shah	Mumbai
5	Dr. L. B. Shah	Mumbai
6	Dr. M. B. Shah	Mumbai
7	Dr. N. B. Shah	Mumbai
8	Dr. O. B. Shah	Mumbai
9	Dr. P. B. Shah	Mumbai
10	Dr. Q. B. Shah	Mumbai

KEM is first public hosp in state to carry out kidney transplant swap

A FRESH LEASE OF LIFE

2 Ahmednagar Families Are Benefactors

Many more in Ahmednagar are suffering from kidney failure. The swap was a success and the patients are now healthy. The swap was a success and the patients are now healthy. The swap was a success and the patients are now healthy.



ताम्रिक पत्रा

के.ई.एम. मधील कांगारु मातेसम काळजी केंद्र

नवजात बाळकांसाठी उत्तम अर्ज उरताना

शिशुपार

Looking Ahead

Looking Ahead

Anatomy

- Air-conditioning of Dissection Hall, Microanatomy Laboratory, Anatomy Lecture Theatre with Laminar Airflow Systems
- Installation of surveillance cameras and CCTV monitoring of lecture theatres, laboratories and departmental corridor (for security)
- Preparation of e-learning modules for microanatomy and gross anatomy for First MBBS students

Anaesthesia

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

Biochemistry and Clinical Nutrition

- To introduce local area network for accessibility of reports .
- To align emergency and central clinical biochemistry laboratories.
- To introduce early clinical exposure to facilitate self- study, adult learning and enhance communication skills, to sustain vertical & horizontal integrated teaching.
- To procure equipment for conducting research and to collaborate with national & international agencies and upgrade research activities.
- To maintain cleanliness in the campus

Cardiology

- A state of the art Cath lab, advanced live 3D Echo & Color Doppler machine, Anesthesia Workstation and Multipara monitors are expected to be installed, taking the diagnostic and therapeutic armamentarium to new heights.
- Primary angioplasty programme to flourish due to new Cath Lab.
- New Cardiac Stress Test (CST) machine and 24 hr Ambulatory ECG monitoring machine is also expected in the department. This will further decrease patient load on existing machines.
- Fellowship program for post DM /DNB candidates in Paediatric Cardiology, adult interventional cardiology and electrophysiology is proposed.

Chest Medicine

- Establishment of DM (Pulmonary Medicine)and Diploma in Allergy & Immunology in 2016.

Clinical Pharmacology

- Real Time PCR machine to be installed in the department to aid in the genetic analysis of patient data.

CVTS

- Expansion and upgradation of existing facilities
- Expansion of minimally invasive cardiac surgery Programme
- Valve repair procedure

Community Medicine

- Wi-Fi connectivity to the department

- Rural health training centers of the department to be connected through Telemedicine of KEM Hospital.
- Expansion of departmental website.

Dentistry

TLD Badges

Patient care

- Plan to conduct more community outreach programs and dental camps for construction's site workers.
- Special dental care for patients afflicted with cardiac anomalies, congenital cardiac diseases and kidney diseases.

Research

- Haemophilia
- Implants
- Congenital cardiac cases.

Campus & Infrastructure

- Expansion of the department
- 5 new dental chairs and units
- RVG Machine

Dermatology

- Consolidating patient care services with state of the art equipment Purchase of computerized UV chambers and new laser hand piece
- Introduction of fellowships in trichology and pediatric dermatology

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"
- Neuro Endocrinology clinic
- Thyroid Sonography
- Establish patient support group
- Obesity Clinic
- Endocrine Oncology Clinic
- 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 programmes 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
- Start fellowships in Pediatric and Adolescent Endocrinology Reproductive Endocrinology

ENT

- Improving the infrastructure for patient care

Forensic Medicine

- One Point Crises Centre & Centre of Excellence for the Survivors of Sexual assault at K. E. M. Hospital Mumbai

Gastroenterology

- Establishment of a Liver ICU in coordination with Department of GI surgery for better management of patients with acute liver failure and post liver resection surgeries.
- Training for research and GCP for all residents.

Hematology

- To start separate day care centre
- To start allogenic stem cell transplant

Microbiology

- Strengthening of Mycobacteriology laboratory for doing culture and Drug susceptibility testing

Neonatology

- Initiation of Newborn Screening
- Establishment of Emergency Neonatal Care services
- Initiation of Community based Kangaroo Mother Care.
- Upgradation of Human Milk Bank

Nephrology

- Nephrology Department plan to expand deceased donor programme.
- CAPD programme
- C.K.D. Clinic.
- Dialysis Clinic.
- Computerization of all records.
- Establishment of Dialysis clinic and Lupus Nephritis Clinic.

Nursing

- Short term certificate course for Nurses in Paediatric Nursing, Infection Control and ICCU Training to be started.
- Ongoing workshop on Communication Skills and Interpersonal Relationships, Stress Management.

Obstetrics and Gynecology

- Renovation and upgradation of OTs

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 65 years.
- To set up a unique rehabilitation care center for the physically and mentally handicapped with facility of disability evaluation.
- Orthotic and prosthetic department at the Occupational Training School & Center of Seth G. S. Medical College and K. E. M Hospital: paper work in progress.
- Expansion plan for the better patient care submitted.
- To develop E-learning programs for distant learning and education.
- To start integrated Masters Program and Short Certificate Courses at the University Level.

- To collect 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.

Ophthalmology

- Green laser for the management of glaucoma and retinal diseases
- Purchase of specialized equipment for glaucoma evaluation
- Setting up a keratoplasty centre

Orthopedics

- Establishment of paraplegic rehabilitation center
- Establishment of dedicated intensive care unit with 8 bedded capacity devoted to orthopedics.
- Upgradation of operative rooms with navigation, neuromonitoring, power equipment and cell saver.

Pathology

- Initiate immunofluorescence microscopy for renal biopsies.
- Expand range of tests for lipid and enzyme biochemistry with automated systems
- Establish panel of tests for lupus anticoagulants.
- Continue up-gradation of hematology services with five part differential blood cell counters.
- Initiation of immunocytochemistry on FNAC slides and cell blocks
- Establish routine immunohistochemistry for tumor markers.
- Establish routine IHC for ER,PR of breast tumors
- Continue up gradation of Surgical Pathology and Hematology with automated equipment and new techniques
- Continue upgradation of hematology services with additional automated analysers.
- Enhancing cytological techniques with cytocentrifugation, cell block preparation etc.
- Continue to enhance surgical pathology services with automated equipment.
- Automation of urine examination using urine analyser
- Continuing upgradation of hematology automation

Pediatric Surgery

- Plan to start comprehensive Pediatric Endourology
- Modular OT set up to be established
- Pediatric urology clinic

Pediatrics

- Initiation of new Pediatric Gastroenterology OPD.
- Expansion of the Pediatric Wards bed strength from 90 to 120 teaching beds and increase teaching units from 3 to 4.
- Upgrading bed strength of Pediatric ICU to 20 beds (from present 9 beds).
- Initiation of Fellowship Programs in Pediatric Neurology & 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

- Establishing techniques for ensuring quality of Ayurvedic drugs

- MCQ booklet for undergraduate students
- Development of Centre for Pharmacodynamic studies to strengthen research and learning experiences to postgraduates
- Establishing Training Centre for Clinical Research
- Upgradation of existing research facilities in the Department of Pharmacology and Therapeutics
- Upgradation of animal house facilities

Physiology

- We intend to develop an efficient Exercise Physiology laboratory
- To acquire & upgrade existing equipments for the purpose of research.

Plastic Surgery

- Starting fellowship in Hand surgery and microsurgery
- Start collaboration with other institutes (like Wadia, Tata Hospital) to let our students rotate there for exposure to different subspecialties like paediatric Plastic Surgery and Oncosurgery.

Psychiatry

- Improving and strengthening HITGUJ helpline .

Surgical Gastroenterology

Patient care

- To strengthen our Liver Transplant and Bariatric/ Metabolic Surgery Program.

Education:

- To start Telemedicine Clinics with links with other GI surgery Departments in India.

Research:

- To collaborate with AIIMS, and ICMR in the upcoming research projects.
- To start Robotic Surgery

Transfusion medicine

- Full automation in ELISA testing
- Full automation in Component 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.
- To conduct Blood Bank Training Programme for West, Central Zones as per Apex Training Centre.

Urology

- Setting up of patient data archiving system (operative and clinical).
- As a centre for training in urology recognized for fellowship by SIU.
- Publication of book on instrumentation.
- "Urinary Diversion" Workshop to be organized
- Indo-US collaboration for organ transplant.
- MUHS recognized courses for Urology OT Technician and Transplant Anesthesia
- Set up paperless systems

Committees, Societies, Services and Publications

Animal Ethics Committee

The Animal Ethics Committee (AEC) was established in 1997. The committee functions according to the guidelines laid down by the Committee for the Purpose of Control and Supervision of Experiments on Animals (CPCSEA). The Seth GS Medical College and KEM hospital is registered with the CPCSEA since 1999 for the purpose of "Breeding and Research on animals".

The Animal house was inspected by the CPCSEA members in May 2015 and inspection reports of 3 years viz 2013, 2014 and-2015 were sent to the CPCSEA for renewal of registration. Following this, we received renewal upto 2017. The new registration no. is **60/PO/ReBi/S/99/CPCSEA**.

The AEC was informed that it needed to be reconstituted as per Rule 13 of Breeding of and Experiments on Animals (Control and Supervision) Rules 1998. The names and biodata of the Institutional members nominated by the Dean of the Institute were sent to the CPCSEA and the revised list of Committee members was received on 31.12.2015 as follows:

Sr. No	Name of Members	Position on AEC	Occupation & Designation	Gender
1.	Dr. Sucheta P Dandekar	Chairperson cum Scientist from different biological discipline	Professor. & Head, Biochemistry, Seth GSMC & KEMH.	F
2.	Dr. Sandhya K Kamat	Member-Secretary cum Biological Scientist	Professor, Pharmacology & Therapeutics, Seth GSMC & KEMH.	F
3.	Dr. Madhav J Sathe	Scientist from different biological discipline	Additional Professor, Microbiology, Seth GSMC & KEMH.	M
4.	Dr. Nirmala N Rege	Scientist in charge of Animal house facility	Professor and Head, Pharmacology & Therapeutics, Seth GSMC & KEMH.	F
5.	Dr. S. L Kulkarni	Veterinarian	Sr. veterinary Officer, Seth GSMC & KEMH	M
6.	Dr. Geeta Vanage	Main Nominee, CPCSEA	Scientist E, National Institute for research in Reproductive health (NIRRH), Parel, Mumbai	F
7.	Mr. Arjun D Shinde	Link Nominee, CPCSEA	Scientist , Advance Centre for treatment research and Education in Cancer (ACTREC), Navi Mumbai	M
8.	Dr. Madhumanjiri M. Gatne	Scientist from Outside the Institute, nominated by CPCSEA	Professor and Head, Department of Pharmacology & Toxicology, Bombay Veterinary College, Parel, Mumbai	F
9.	Mr. Atulkumar V Shah	Socially aware member nominated by CPCSEA	Non-Scientific Socially Aware Member	M

Ongoing projects : Fifteen progress reports of all ongoing projects were reviewed and submitted to the CPCSEA.

Department Development Fund

Patient Care

- The trust is set up to aid and 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 and instruments for better patient care.

Education

- Anesthesia: CME on "Update in Anesthesia for Urologic Surgery" on 23th August 2015.
- Bio- Chemistry: 11th Good Clinical Practice course on 26th to 28th August and 16th December 2015
- Pediatric-Medicine: Workshop on "Case –based workshop on Genetic & Metabolic Diseases" on 16th October 2015.
- Dermatology: CME on "Current Issues In Leprosy" on 4th December 2015.
- Gastroenterology: CME on "Functional bowel diseases on 10th October 2015.
- Dentistry: CDE on "Dentistry & Beyond on 15th October 2015.
- Pediatric-Medicine: CME on "Pediatric Epilepsy" on 9th October 2015.
- Clinical Pharmacology: Workshop on "Thesis Research & Protocol Writing" for DNB students on 11th & 12th September 2015.

Research

- The trust has received donations for research projects of following departments & these are ongoing.
- Protocol A7501012-1018: "A randomized, placebo-controlled, double-Blind trial of asenapine in the prevention of relapse after long-term Treatment of Schizophrenia". Department of Psychiatry, funded by Pfizer Ltd
- WHO project, Department of Clinical Pharmacology, with funding from WHO Regional Office
- "Randomized, open label, multicenter phase IIIb study evaluation the efficacy and safety of ruxolitinib versus best available therapy in patients with polycythemia vera who sre hydroxyurea resistant or intolerant (Response 2), Department of Hematology
- HEOR Project "Desk Review for WHO on Clinical Trials", Department of Clinical Pharmacology

Awards & Honors

The 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 to the best resident in Orthopedics.

Donations received and Grants given

- Rs 50,000 for creation of the JPGM app, Rs 20,000 for foundation day celebrations, Rs 275,421 was received for patient care, Rs 650000 for research, Rs 1280000 for training programs and Rs 8480 was given for awards.

Work

- Ten meetings were held in the year, 4 projects are ongoing and several departments and offices were funded through DDF for internet connections

Diamond Jubilee Society Trust

Introduction

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

- A) 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.
- B) 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.
- C) 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 2013 - 2016.

Managing Trustee: Dr. AN Supe, Dean, Seth GS Medical College & KEM Hospital *Secretary:* Dr. Madhav Sathe, *Treasurer:* Dr. Niteen Karnik, *Trustees:* Dr. NN Rege, Dr. Sujata Patwardhan, Dr Vishnu Kanhere, Mr. Kishorekumar Mhatre, *Advisors:* Dr. RD Bapat, Dr. Lopa Mehta

Activities of the trust

Diamond Jubilee Society Trust was able to collect Rs.3,13,23,086/- of donations in the year (January 2015 December 2015) inclusive of Foreign donations of Rs.16,31,396/- and Government Research Grant of Rs.57,64,652/- The donations are being used for the purpose stated by the donors. In addition, the trust does following activities:

Patient care

- Donations worth Rs.34,07,885/- from DJST General Fund account as well as additional amount of Rs. 4,77,300/- from Dr. MV Kirtane re-union 1965 batch (Patient care) were used to purchase essential equipments, accessories and consumables for various departments, laboratories and intensive care units of the institutes as per their requirements.
- Patient education programmes of Patient Education Cell were supported.

Support was extended to the EMS to purchase equipments:

- For EMS – Rs. 20,00,000 [for Solar deep freeze, Portable pneumatic ventilator, Plus oximeters, Gauze cutting machine, NIBP cuffs, Multi channel ECG machine, Air bed, Hand sanitizer 500 ml with stand, fridge 335 ltr, water purifier,mixer, gas stove 2 burners, Heater water geysers, and furniture work]

Donations received

Donation received from CSR cell for

- Donation of Rs. 40,14,000/- from NTPC Ltd. towards the purchase of equipment for Nephrology department.

Patient care

- Donation of Rs. 9,50,000/- from Pratham investments towards the purchase of equipment for Neonatology department.

- Donation of Rs. 60,000/- from Phirojsha Godrej Foundation towards Museum renovation expenses.
- Donation of Rs. 5,89,179/- was contributed from 1965 batch of Dr. MV Kirtane towards patient care (Rs. 4,80,179/-) /Medical Education(Rs. 1,10,000/-) /Medical Research (Rs. 8,000/-). Out of that Rs. 4,77,300/- is utilized so far for Patient care .

Department Development

- Donation of 2 Echo Cardiograph machine from ThyssenKrupp Industrial Solutions (India) Pvt. Ltd. for Department of Cardiology
- Donation of 30 infusion pumps from ThyssenKrupp Industrial Solutions (India) Pvt. Ltd. for Department of Pediatrics
- Donation of 6 Multiparameter monitors from ThyssenKrupp Industrial Solutions (India) Pvt. Ltd. for Department of Pediatrics
- Donation of 1.25 crores from Department of Health Research, Ministry of Health & Family welfare, Govt. of India towards Establishment of Multidisciplinary Research Unit (MRU) in Seth GS Medical College & KEM Hospital.

Medical education

- Financial support of Rs. 65,000/- was extended for 6 research projects undertaken by the postgraduate students & Rs.5,52,000/- for 6 research projects undertaken by the Jr. faculty members.
- The students who have excelled in their academic career were awarded prizes and scholarships (n=32) by the trust. Funds for this purpose have been donated by the graduates, postgraduates and teachers of the institute.
- GOSUMEC Foundation, USA Research / Innovation Scholarship was awarded to the following undergraduate students for their meritorious research work :
- Team of 2nd MBBS Students- Amogh Pathak, Manan Arora, Sankalp Arora, Shalin Shah –, who participated in 12th International Medical School Physiological Quiz (IMSPQ), held at University of Malaya, Kuala Lumpur from 19th – 22nd August 2014 .
- Dr Anup Thorat - 3rd year resident from Department of Pharmacology & Therapeutics for his research work on “ Effect of Glycyrrhiza glabra and Boerhaavia diffusa on tumour growth and angiogenesis in a syngenic allograft mammary tumour model in mice” presented at the 2014 Annual conference of Indian Pharmacological Society at Gauhati Medical College , Guwahati held in December 2014.
- Award money given for events like paper presentation and poster presentation, quizzes and student’s debates in Confluence 2015 from GOSUMEC Foundation, USA Research / Innovation Scholarship
- Financial Support extended to 16 economically challenged students

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

Donations received for the following

- Donation received from Dr Sunita Shridhar Shanbhag, Ex- Professor, PSM, Seth GSMC & KEMH, of Rs.1,35,000 /- for instituting awards in memory of her parents, Mr. Prabhakar Vishwanath Rege & Mrs. Rekha Prabhakar Rege for a student standing first at University examination in MD Community Medicine from GSMC and KEMH.
- 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
- ‘PHARMATECH-2015’ a National level workshop for the postgraduate students of Pharmacology organized by the Department of Pharmacology and Therapeutics.
- ‘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 play competition in December)

Donations were accepted for the following Faculty development programmes

- 11th 'GSMC FAIMER Regional Institute' by the ME Unit
- Basic Courses in Medical Education Technology (n=3) conducted by the GSMC – KEMH- MCI Nodal Centre
- 1st MCI Advance course in Faculty development, the GSMC – KEMH- MCI Nodal Centre
- Lecture series in 'Research Methodology for the Clinicians & Resident Doctors' conducted by the Department of Neonatology
- Neonatal ventilation workshop for the Clinicians & Resident Doctors" conducted by the Department of Neonatology
- CME – Contraception Updates" conducted by Department of Obstetrics & Gynecology
- CME – Updates on Urinary Incontinence conducted by Department of Obstetrics & Gynecology
- Research Methodology workshop for the resident doctors training as per MUHS rules conducted by Department of Obstetrics & Gynecology
- CME on "Rational use of Blood components" conducted by Department of Transfusion Medicine
- 19th ACRSI fellowship training course in Colo-proctology conducted by Department of Surgical Gastroenterology
- 10th IHPBA Certificate course conducted by Department of Surgical Gastroenterology
- Workshops conducted by the individual Departments:
 - a. 'Teachers' Training Programme on Learning Disability' conducted by Learning Disability Clinic of the Department of Pediatrics
 - b. Head & Neck oncology workshop conducted by the Department of ENT
 - c. Alumni Meet conducted by the Department of ENT
 - d. "Hands on Endoscopy workshop" conducted by the Department of Gastroenterology
 - e. CME "World Hepatitis Day and World Digestive Health Day" conducted by the Department of Gastroenterology
- Support for utilizing cadaver facilities of the department of Anatomy during
 - a. 'Arthroscopy Shoulder workshop conducted by Bombay Orthopedic Society
 - b. 'BOS Pelviacetabular Cadaveric Course' conducted by the Department of Orthopedics under the auspices of Bombay Orthopedic Society
 - c. Cadaveric flap dissection course conducted by Tata Memorial Centre
 - d. Cadaveric workshop on oral cancers conducted by Department of Anatomy under the auspices of Tata Memorial center

Medical Research

- The Trust has received donations (Rs. 1,89,58,811/-) for research projects undertaken by various departments. In addition, it received funds from Government organizations towards research projects (Rs. 57,64,652/-).

Publications

- Annual Report of Seth GS Medical College & KEM Hospital-2013 was published under the aegis of Diamond Jubilee Society Trust.
- Donations were also accepted for publication of manuals/ abstract books of courses, workshops and conferences conducted by the various departments.

Work

- Diamond Jubilee Society Trust supports the following activities and their maintenance. It also tries to collect donations for the same.
- Website of the institute to propagate the activities of the institute and facilitate communication and interaction with other medical professionals
- Annual maintenance of indoor patient monitoring software in Registration OPD and MRO section
- Donation of one computer with printer and Antivirus to GNC section
- Donation of 3 LCD Projector to Theatre No 2, 4 & 5
- Support to make wooden rack in front of MLT foyer
- Financial support for digitalization of UG & PG student's records
- Financial support for Organ transplant programme
- Financial support during MCI Inspection expenses
- Financial support for travel to attend review committee meeting
- Financial support for Bio ethics introductory workshop
- Financial support for development of the apps of Journal of Postgraduate Medicine (JPGM)
- Pest Control done for GS Medical College, Library building & Museum
- Financial support for Cadaver Programme
- Printing of certificates for Foundation Day
- Institutional activities and functions (ORACON-2015)
- Maintenance of front lawn and garden in the KEM campus.
- Printing of posters for Hospital Infection Control Committee
- Support for welfare activities of the institutional members (Women Development Committee)
- Financial support extended towards renovation of Museum was given by the trust.

GSMC MUHS UNESCO Bioethics Unit

The 'GSMC-MUHS UNESCO Bioethics Unit' was formed in the month of August 2015. The solemnisation of the Unit under the MCGM Nodal Bioethics Unit and affiliation with UNESCO, Chair in Bioethics Haifa Australia happened on 9th November 2015.

The main purpose of the Bioethics Unit is to integrate the MUHS approved UNESCO Bioethics curriculum in the undergraduate and postgraduate students education and to train the faculty in effective implementation of the same.

The MCGM nodal unit was established at an event held in Topiwala National Medical College auditorium. Mr Sanjay Deshmukh, Hon. Addl. Municipal Commissioner and Dr Suhasini Nagda, Director (ME& MH) were handed over the UNESCO Charter and writ for the establishment of the MCGM MUHS UNESCO Nodal Centre for Medical and Dental institutions by Professor Russell D'Souza Head, Asia Pacific Bioethics Program of UNESCO Chair in Bioethics, Haifa. The inauguration event was attended by Dr. Arun Jamkar Hon Vice Chancellor MUHS, Dr. Shekhar Rajderkar, Pro Vice Chancellor MUHS, Dr Susan Vize Regional UNESCO Advisor, Bangkok. Deans of MCGM run Medical colleges: Dr Avinash Supe, Dr Ramesh Bharmal, Dr Suleman Merchant and Dr. Ramesh Chaturvedi graced the programme with their presence.

Dr Avinash Supe, Dean Seth G S Medical College received the writ for GSMC MUHS UNESCO Bioethics Unit.

Following are the members of GSMC-MUHS UNESCO Bioethics Unit -

Dr. Avinash Supe	Chairman
Dr. Santosh Salagre	Head of Unit
Dr. Padmaja Marathe	Head of Steering Committee
Dr. Nayana Ingole	Secretary

Steering Committee Members -

Dr. Padmaja Mavani , Dr. Pradeep Vaideeswar, Dr. Geeta Phatarphekar , Dr. Yuvaraj Chavan , Dr. Mariya Jiandani, Dr. Swarupa Bhagwat, Dr. Sharad Patel, Dr. Karuna Nadkarni, Dr. Anjali Telang, Dr. Sachin Patil, Dr. Monty Khajanchi, Mrs. Pradnya Nachankar

Dr. Santosh Salagre, Dr, Padmaja Marathe and Dr. Anjali Telang have received formal training on bioethics at MUHS in the form of the 3T (Train-Teach-Transfer) training workshop organised in May 2015. Dr Salagre & Dr Marathe additionally received ETTC (Ethics Teachers Training Course) in November 2015 at MUHS.

Since the inception of Unit in August 2015, the Unit organized 3 programmes.

1. *An Introductory workshop on Bioethics* for newly admitted first year MBBS and Physiotherapy students was organized by the unit members on 2nd October 2015. The workshop was attended by 220 students. In this workshop, we had expert bioethicists Dr. Sunil Pandya and Dr. Amar Jesani as speakers who spoke on evolution and principles of bioethics. This was followed by demonstration of movie clips of 10 minutes from regional language movies. Bioethical aspects and doctor – patient relationships were discussed in the interactive manner. The steering committee members facilitated the discussion. The programme was received very well by students.

2. *An essay competition on Bioethics* for MBBS, Occupational Therapy, Physiotherapy and Nursing students was organized on 14th October 2015. Two hundred and twenty one students wrote essays on the pre - announced topics. Winners of the competition will be declared in the foundation day programme and they will be made part of the student's wing of GSMC bioethics unit.

3. *'Bioethics Grand Rounds'* for postgraduate students and Staff members of Anaesthesia and Surgery Departments was held on 5th December 2015 in OBGY Lecture hall. Cases with Bioethical dilemmas in Surgery and Anaesthesia practice were presented. The event was conducted by Dr. Padmaja Samant (OBGY) and Dr. Monty Khajanchi (Surgery). Mrs Neha Madhiwala, external faculty moderated the discussion. The event was attended by 30 postgraduate students and staff members. There was intense discussion on each case. Dr. Sunil Pandya, Consultant Neurosurgeon, Jaslok Hospital and Ex- Head of Neurosurgery, KEM Hospital gave conclusive remarks on each case.

Future Plans - The proposed activities include sensitisation workshop for first and second year nursing Students which is planned on 14th December 2015. A skit/ drama based on bioethics principles which will be written and enacted by the members of student's wing in March- April 2015. There is a proposed plane to conduct a "Writing, Reading and Listening Workshop" to enhance these skills in students to make them more empathetic towards patients .

Gosumec Alumni Association

Office bearers

- Hon. President: Dean Dr. AN Supe, Hon. Vice President: Dr. Sharad Gogate, Hon. Secretaries: Dr. Gita Nataraj, Dr. Ram Prabhoo, Hon. Jt. Secretary: Dr. Manjula Sarkar, Dr. Janak Shah, Hon. Treasurer: Dr. N.N. Rege,

Managing Committee members

- Dr. Lopa Mehta, Dr. PD Mungekar, Dr. M Natarajan, Dr. Sandhya Kamat, Dr. Aparna Deshpande, Dr. Ajay Tilwe, Dr. Vaibhav Dedhia, Dr. Sunil Puntambekar, Dr. Mohan Kembhavi, Dr. Taral Nagda, Dr. Ashish Phadnis.

New Managing Committee [2015-17]

- President – Dean Dr. A N Supe, Vice President - Dr. Sharad Gogate & Dr. Manjula Sarkar, Hon. Secretaries – Dr. Ram Prabhoo & Dr. Gita Nataraj, Hon. Jt. Secretaries- Dr. Janak Shah and Hon. Treasurer - Dr. NN Rege

Managing Committee members

- Dr. M Natarajan, Dr. SK Kamat, Dr. AA Deshpande, Dr. DG Kurlle Dr. Vyanktesh, Dr. Lopa Mehta, Dr. Sunil Puntambekar, Dr. Ajay Tilwe, Dr. Vaibhav Dedhia, Dr. Mohan Kembhavi, Dr. Taral Nagda, Dr. Ashish Phadnis, Dr.Toru Gupta
- Presently, the association has 4702 members. The period January 2015 to Dec 2015, saw an addition of 87 life members & 1 Patron member.

Donations Received

- Rs. 60000/- was given by Dr. Torulata Brijlal Gupta for organising Dr. Brijlal Gupta Memorial scholarship for needy UG student
- Rs. 481200/- was given by Dr. Sandra & Avi Nash for awarding Merit-based Scholarships for needy Medical students at G.S. Medical College
- Rs. 450000/- was given by Dr. Sandra & Avi Nash for Financial Support for Implants for needy patients of KEM Hospital
- Donation Received for Archive & Needy students
 - Dr. Kailash Pawar – Rs.1,00,000/-
 - Hansa Parikh – Rs.16000/- in memory of Late Dr. Jayant Parikh
 - Mr. Kapil R Kalekar – Rs. 7000/-
 - Dr. Suhas Purushottam Namjoshi – Rs. 50000/- for Radiology and alumni activity

Educational Activity

Student scholarships

- Indira Foundation Scholarship – Full freeship
 - Rs. 76305/- each given to 2 students , Nisha Pattewar & Priyanka Patil – I yr MBBS
- Rs. 93000/- each given to 2 students , Hiba G Narvel & Nidhisha S Bajaj – II yr. MBBS
- Indira Foundation Scholarship – Half freeship
 - Rs. 38153/- each given to 2 students , Pawan Daga & Ashutosh Goyal – I yr MBBS
 - Rs. 46500/- each given to 2 students , Gauri S Singh & Anu Roop Rajani - II yr. MBBS
- Dr. Brijlal Gupta Scholarship
 - Rs. 30000/- given to Sujay Jaju - I yr. MBBS
 - Rs. 30000/- given to Anu Roop Rajani - II yr. MBBS

- Gosumec Alumni Association corpus for 20 poor boys awarded. Annual Scholarship of Rs. 10000/-each each was awarded from Gosumec Alumni Association corpus fund viz. Dr. Kero Fund, Mrs. Dalal Fund & 1987 Batch Fund. Total Rs. 260000/- spent towards scholarship during the year. Books amounting to Rs 68446/- were donated to library from Gosumec Alumni Association corpus fund - 1987 Batch fund.
- Awards & Honors: The Dr R B Redkar Memorial awardees for the year who were felicitated on foundation day (22/1/15) included Dr. Pravin Bangar (Administrative Medical Officer), Mr. Dattatray Jadhav (Hospital Office Administrator) and Mr. Santosh Nagaonkar (College Office Administrator).

Social and extra curricular Activities

- GAA donated Rs 15,000.00 towards printing & publication of GOSUMAG 2014, the UG magazine
- GAA sponsored Rs. 11827/- for Community based health camp with PSM department.
- GAA organized Blood Donation Camp with Blood Bank and spent Rs. 61503/- for two camps expenses.
- Cultural Activity: On Foundation Day, 24th January 2015, a contributory Annual Lunch was organized with entertainment followed by Games in College lawn by Staff Society.
- Donation of Rs. 50,000.00 given to JPGM Conference for JPGM app.
- GAA has given contribution of Rs.160000/- to Miscot for scanning of UG PG records for digitalization.

Patient care:

- Rs. 50000/- each given to following needy patients of K.E.M Hospital for Financial Support for Implants from total donation of Rs. 450000/- received from Indira Foundation.
- Donations received for instituting an endowment chair in medical humanity in the name of Dr. Manu VL Kothari -

<i>Name of the Donor</i>	<i>Amount</i>
Nightingale Charitable Trust	2000000
Mandke Foundation (Ambani)	1100000
Dr. Jyoti Manu Kothari	1000000
Harish Kothari & family	1000000
Mahindra & Mahindra Finance Service Ltd	200000
Jayashree Sunil Joshi	100001
Kumudini Devi Khaitan Samvedna Trust	100000
Dr. Sunil N Mody	100000
Dr. Sujata Baveja	100000
Excel Industries Ltd	100000
Excel Crop Care Ltd	100000
Pirojsha Godrej Foundation	100000
Umesh Shah	50000
Gulserene N Dastur	30000
Dr. Manoj D Singrakhia	25000
Dr. Avinash Deshmukh	25000
M. Ramesh & Co.	25000
Dr. Bindu T Desai	25000
Dr. Ritabelle Fernandes	25000
Mr. Krishan Premnarayan	21000
Dr. M Natarajan	10001
Dr. Nina R Bheda	10001
Dr. Shrenik V Shah	10000
Mr. Abhijit Mukherjee	10000

Mr. Jadunath Mukherjee	10000
Mr. Bakul Mehta	10000
Dr. Sucheta Dandekar	5001
Miss Megha H Malvankar	5001
Dr. Russy Batliwalla	5000
Dr. Piyush Shah	5000
Mr. Lalit S Shah	1000
Total Corpus	6307005

Manusmriti Graffiti Competition prizes and program

- First prize given to Prateek Kapse & Second prize given to Tiyaasha Mandal
- "Manusmriti" program was held on 16th October 2015 on the first death anniversary of Dr. Manu VL Kothari. Panel discussion was held on "Art & Science of Medical Practice. The panelists were the staff members who were students of Dr. Manu VL Kothari. It was chaired by Dr. Sunil Pandya. A book written by Dr. Manu Kothari (co-author – Dr. Lopa Mehta) was released by Dr. Sunil Pandya. The program was sponsored by Gosumec Alumni of 1988 batch through donation given to DJST.

Scientific Activity:

- The Dr. Sindhu R Pandit Memorial Oration for the year 2015 was delivered by Dr. Anil Karapurkar (Neurosurgeon) titled "Advances in Treatment of Acute Ischaemic Stroke" on Foundation Day.

INSTITUTIONAL ETHICS COMMITTEE (IEC)I& II

Established: 1987

Current SOPs Version 4, 1st September 2013

Received the SIDCER re-recognition award for compliance to international standards in November 2012

Both committees presently function according to the requirements laid down in Schedule Y and are 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.

Activities of the **IEC-I**

A total of 47 meetings (10 full board meetings, 1 SOP training meeting, and 36 SAE Subcommittee meetings) were held in the year 2015. A total of 10 pharmaceutical sponsored projects, 4 government sponsored projects, 58 other academic projects and 101 thesis / dissertations were submitted to the IEC-I for initial review during the year.

None of the Pharmaceutical projects were approved at first submission as there were scientific and ethical lacunae in the submitted protocols. The comments by the IEC-I members, pertaining to modifications in the protocol were sent to investigators. The answers to IEC-I comments were then reviewed and the project was granted approval. Following is the status of the projects submitted to the IEC-I in the year 2015

Year 2015	Projects reviewed	Under Process	Approved
Pharmaceutical sponsored projects	10	9	1
GOVT sponsored projects	4	2	2
Thesis	101	19	82
Other Academic	58	29	29
Total Reviewed Projects	173	59	114

In regards to sponsored studies:

		Year 2014		
		PHARMA	GOVT	
I	Total no. of projects reviewed by IEC-I	10	4	
II	Total ongoing projects	1	2	
III	Type of study	Phase III	7	-
		Phase III B	1	-
		Phase IV	1	-
		Bioequivalence	1	-
		NA	-	4

	Departments	PHARMA	GOVT	Thesis	Other Academic
1.	Anaesthesia	1	-	13	6
2.	Anatomy	-	-	-	1
3.	Biochemistry	1	-	1	-
4.	Cardiology	1	-	-	3
5.	Clinical Pharmacology	2	1	-	4
6.	Chest Medicine	-	1	-	1
7.	Dermatology	-	-	1	-
8.	Endocrinology	-	-	-	1
9.	ENT	-	-	3	-
10.	Forensic Medicine	-	-	-	1
11.	Gastroenterology	-	-	-	5
12.	General Surgery	-	-	5	1
13.	Hematology	-	-	-	1
14.	Medicine	1	-	10	7
15.	Microbiology	-	-	1	2
16.	Neurology	-	-	-	1
17.	Neuro surgery	-	-	-	-
18.	Neonatology	-	-	-	-
19.	Nephrology	-	-	-	2
20.	Nuclear medicine	-	-	-	-
21.	Obstetrics and Gynaecology	-	1	17	-
22.	Orthopaedics	-	-	4	1
23.	Ophthalmology	3	-	-	1
24.	OT	-	-	3	-
25.	Pathology	-	-	2	1
26.	Paediatrics	1	-	7	1
27.	Paediatrics surgery	-	-	-	1
28.	Plastic Surgery	-	-	-	1
29.	Psychiatry	-	-	5	3
30.	PSM	-	-	12	7
31.	Pharmacology & Therapeutics	-	1	1	3
32.	Physiology	-	-	2	-
33.	PT	-	-	7	-
34.	Radiology	-	-	4	-
35.	Surgical Gastroenterology	-	-	-	1
36.	Transfusion Medicine	-	-	-	-
37.	Urology	-	-	-	2
	TOTAL Reviewed	10	4	98	58

Serious Adverse Events :

Total 36 SAE meeting held in year 2015						
	Particulars		PHARMA	GOVT	OA	Thesis
1	Total no. of SAE at our site:	Initial report	13	-	-	-
		Follow up report	30	-	-	-
		causality	2	-	-	-
2	Total no. of death		1	-	-	-
3	Our site late reporting (after 24 hours)		1	-	-	-
4	Responses (query) from EC regarding our site SAEs	Query letters sent	38	-	-	-
		Noted letters sent	50	-	-	-
7	Total no. of Adverse Events (AE) reported		-	-	-	-
8	Total no. of SUSAR/CIOMS reported:		2870	-	-	-

Status of the ongoing sponsored projects of IEC-I as on 30th Nov 2015

- 1 pharmaceutical sponsored project submitted in the Year 2001 is ongoing.
- 1 government sponsored project submitted in the Year 2004 is ongoing
- 1 pharmaceutical sponsored project submitted in the Year 2005 is ongoing
- 2 government sponsored projects submitted in the Year 2007 are ongoing
- 4 government sponsored projects submitted in the Year 2009 are ongoing
- 2 pharmaceutical and 1 government sponsored projects submitted in the Year 2010 are ongoing
- 1 pharmaceutical and 5 government sponsored projects submitted in the Year 2011 are ongoing
- 5 pharmaceutical and 3 government sponsored projects submitted in the Year 2012 are ongoing
- 8 pharmaceutical and 6 government sponsored projects submitted in the Year 2013 are ongoing
- 6 pharmaceutical and 5 government sponsored projects submitted in the Year 2015 are ongoing

Status of the ongoing academic projects of IEC-I as on 30th Nov 2015

- 8 thesis and 2 other academic project submitted in the year 2012 are ongoing.
- 58 thesis and 25 other academic projects submitted in the year 2013 are ongoing.
- 87 thesis and 41 other academic projects submitted in the year 2014 are ongoing.

Constitution of the IEC-I as on 30th Nov 2015
Member list of Institutional Ethics Committee – I (IEC-I)

Sr. No.	Name	Position on IEC-I	Designation & Affiliation	Qualification	Gender
1.	Dr. Padmavathy Menon	Chairperson (External)	Consultant Endocrinologist, Jupiter Hospital, Thane & LH Hiranandani Hospital, Powai, Mumbai.	M.D.	F
2.	Dr. Sharmila Jalgaonkar	Member Secretary	Assistant Professor (Pharmacology & Therapeutics) Seth GS Medical College and KEM Hospital Mumbai.	M.D.	F
3.	Dr. Smrati Bajpai	Member	Assistant Professor (Medicine) Seth GS Medical College and KEM Hospital Mumbai.	M.D., DNB.	F

4.	Dr. Yashashri Shetty	Member	Associate Professor (Pharmacology & Therapeutics) Seth GS Medical College and KEM Hospital Mumbai.	M.D., DBM.	F
5.	Dr. (Mrs.) Uma Jadhav	Member (Social scientist)	Community Development Officer (Obstetrics and Gynaecology) Seth GS Medical College and KEM Hospital Mumbai.	M.S.W., L.L.B, Ph.D Scholar (Health Systems Studies)	F
6.	Ms. Veena Johari	Member (External Legal Expert)	Independent Lawyer	L.L.B.	F
7.	Ms. Gitaali Pawaar	Member (External Lay person)	Trustee / Chairperson, Little MORE Charitable Trust, Mumbai.	B.A., D.C.A., PGDEM, M.E.M.	F
8.	Dr. Kaizad Damania	Member (External Scientific Expert)	Professor (Obstetrics &Gynaecology) N. Wadia Maternity Hospital, Mumbai.	M. D., DNB., F.C.P.S., D.G.O., D.F.P.	M
9.	Dr. Rujuta Mehta	Member (External Scientific Expert)	HOD PaediatricOrthopaedic, Bai JerbaiWadiaa Hospital for children, Mumbai.	M.S., DNB.	F
10.	Dr. Mohan Desai	Member	Professor(Orthopedics) Seth GS Medical College and KEM Hospital Mumbai.	M.S, MCPS	M
11.	Dr. Sona Dave	Member (External Scientific Expert)	Professor, (Anaesthesiology) TNMC & BYL Nair Charitable Hospital, Mumbai.	M.D., DA., DNB	F
12.	Dr. Sharad Patel	Member	Associate Professor (Adhoc) (Physiology) Seth GS Medical College and KEM Hospital Mumbai.	M.D.	M
13.	Ms. Jaimala Shetye	Member	Associate Professor (Physiotherapy) Seth GS Medical College and KEM Hospital Mumbai.	MPTH	F
14.	Dr. Alka A. Subramanyam	Member (External Scientific Expert)	Assistant Professor (Psychiatry) TNMC & BYL Nair Charitable Hospital, Mumbai.	M.D., D.N.B., DHA.	F
15.	Dr. Urmila Thatte	Member	Professor & Head (Clinical Pharmacology) Seth GS Medical College and KEM Hospital Mumbai.	M.D., DNB., Ph.D.	F

Activities of the **IEC-II** in the year 2015

A total of 11 meetings (10 full board meetings, 1 SOP training meeting) were held in the year 2015. A total of 8 pharmaceutical sponsored projects, 4 government sponsored projects, 61 other academic projects and 98 thesis / dissertations were submitted to the IEC-II for initial review during the year.

None of the Pharmaceutical projects were approved at first submission as there were scientific and ethical lacunae in the submitted protocols. The comments by the IEC-II members, pertaining to modifications in the protocol were sent to investigators. The answers to IEC-II comments were then reviewed and the project was granted approval. Following is the status of the projects submitted to the IEC-II in the year 2015

Activities of the IEC-II

Year 2011	Total reviewed projects	Under Process	Approved
PHARMA	8	4	4
GOVT	1	1	-
Thesis	98	20	78
Other Academic	61	27	34
Total	168	52	116

Status of the ongoing sponsored projects of IEC-II as on 30th Nov 2015

- 1 GOVT sponsored project submitted in the Year 2012 is ongoing
- 2 Pharma sponsored and 4 government sponsored projects submitted in the Year 2013 are ongoing
- 8 Pharma sponsored and 3 government sponsored projects submitted in the Year 2014 are ongoing

Status of the ongoing academic projects as on 30th Nov 2015

- 2 Thesis projects submitted in the Year 2007 are ongoing.
- 1 Thesis and 2 other academic project submitted in the Year 2008 are ongoing.
- 2 Thesis submitted in the Year 2009 are ongoing.
- 13 thesis and 11 other academic projects submitted in the year 2010 are ongoing.
- 3 thesis and 14 other academic projects submitted in the year 2011 are ongoing.
- 89 thesis and 12 other academic projects submitted in the year 2012 are ongoing.
- 63 thesis and 32 other academic projects submitted in the year 2013 are ongoing.
- 107 thesis and 47 other academic projects submitted in the year 2014 are ongoing.

Year 2015		PHARMA	GOVT
I	Total no. of projects reviewed	8	1
II	Total ongoing projects	4	1
III	Type of study		
	Phase I	1	-
	Phase III	5	-
	Phase IV	2	-
	NA	-	1

	Departments	PHARMA	GOVT	Thesis	Other Academic
1	Anaesthesia	-	-	14	6
2	Anatomy	-	-	-	2
3	Biochemistry	-	-	-	-
4	Cardiology	-	-	-	3
5	Clinical Pharmacology	-	-	-	8
6	Chest Medicine	-	-	2	-
7	Dermatology	-	-	2	2
8	Endocrinology	-	-	-	1
9	ENT	-	-	2	-
10	Forensic Medicine	-	-	2	-
11	Gastroenterology	-	-	-	3
12	General Surgery	-	-	7	-
13	Hematology	-	-	-	-
14	Medicine	1	-	11	2
15	Microbiology	-	-	2	2
16	Neurology	-	-	-	3
17	Neuro surgery	-	-	-	-
18	Neonatology	-	-	-	-
19	Nephrology	-	-	-	7
20	Nuclear medicine	-	-	1	-
21	Obstetrics and Gynaecology	-	-	22	1
22	Orthopaedics	1	-	4	1
23	Ophthalmology	5	-	3	-
24	OT	-	-	1	-
25	Pathology	-	-	3	1
26	Paediatrics	1	-	3	1
27	Paediatrics surgery	-	-	-	1
28	Plastic Surgery	-	-	-	-
29	Psychiatry	-	1	3	3
30	PSM	-	-	5	10
31	Pharmacology & Therapeutics	-	-	1	1
32	Physiology	-	-	2	-
33	PT	-	-	4	1
34	Radiology	-	-	3	-
35	Surgical Gastroenterology	-	-	-	1
36	Transfusion Medicine	-	-	1	-
37	Urology	-	-	-	1
	TOTAL Reviewed	8	1	98	61

Constitution of IEC-II

	Name	Position on IEC II	Designation & Affiliation	Qualification	Gender
1.	Dr. Sangeeta Desai	Chairperson (External)	Professor and Office in Charge, Molecular Pathology, Tata Memorial Centre, Mumbai.	M.D., DTM.	F
2.	Dr. Snehalata Gajbhiye	Member Secretary	Assistant Professor (Pharmacology & Therapeutics) Seth GS Medical College and KEM Hospital Mumbai.	M.D., FICS.	F
3.	Dr. Yuvaraj B. Chavan	Member	Professor (Additional) (PSM) Seth GS Medical College and KEM Hospital Mumbai.	M.D.	M
4.	Dr. Shobha Itollikar	Member (External)	-	M.D., D.N.B.	F
5.	Dr. Padmaja Marathe	Member	Professor (Additional) (Pharmacology & Therapeutics) Seth GS Medical College and KEM Hospital Mumbai.	M.D.	F
6.	Dr. Nilesh Thakre	Member (External Social Scientist)	Assistant Professor, Psychology, SNDT Women's University, Mumbai.	Ph.D. Psychology, M.A (Industrial & Business Psychology), M.I.R.P.M., M.A. (Clinical Psychology), N.E.T in Psychology, PGDIP., Dip TD.	M
7.	Dr. Subodh Sirur	Member (External Legal Expert)	Consultant, Dermatology & Venerology, Mahatma Gandhi Memorial Hospital, Mumbai	MBBS, DVD, LLM	M
8.	Ms. Leena Pednekar	Member (External Lay person)	Chief Dietician, Mahatma Gandhi Memorial Hospital, Mumbai.	P.G. in the area of Dietetics and Applied Nutrition.	F
9.	Dr. Padmaja Samant	Member	Professor, (Obstetrics & Gynaecology) Seth GS Medical College and KEM Hospital Mumbai.	Professor, (Obstetrics & Gynaecology) GSMC & KEMH	F
10.	Dr. Santosh Kondekar	Member (External)	Associate Professor, (Pediatrics) Topiwala National Medical College and B. Y. L. Nair Charitable Hospital, Mumbai.	M.D., D.N.B., D.C.H., F.C.P.S., F.M.E.	M

11.	Dr. Sujata Aiyer	Member	Associate Professor, (Orthopaedics) Seth GS Medical College and KEM Hospital Mumbai.	M.S., F.R.C.S.(UK), General Medical Council (UK), ECFMG.	F
12.	Dr. Sweta Salgaonkar	Member	Professor (Anesthesiology) Seth GS Medical College and KEM Hospital Mumbai.	M.D.	F
13.	Dr. Sunil Kuyare	Member (External)	Assistant Professor, (Microbiology) Dr.R.N.Cooper Municipal General Hospital Bhaktivedanta Swami Marg,JVPD,Juhu,Mumbai.	M.D., PGDHA,FME.	M
14.	Dr. Shilpa Adarkar	Member	Assistant Professor,(Psychiatry) Seth GS Medical College and KEM Hospital Mumbai.	M.D.	F
15.	Mrs. Chhaya Verma	Member	Professor (Physiotherapy) Seth GS Medical College and KEM Hospital Mumbai.	M.PTh.	F

Alternate Members of IEC-I & IEC-II effective as on 30 th Nov 2015					
1.	Dr. Pradnya Talawdekar	Alternate Member (External legal Expert)	Project Manager, Ojus Medical Institute, The Tulip Star, Juhu Tara Road Juhu, Mumbai.	B.A.M.S., L.L.M.	F
2.	Mrs. Sushma Singh	Alternate Member (External legal Expert)	-	B. Pharm. LL.B. LL.M Certificate in Alternative Disputes Resolution (ADR)	F
3.	Ms. Nivedita Chalill	Alternate Member (External Social Scientist)	-	M.A., Ph.D., M.Phil in social work, B.Sc(Occupational Therapy), PG Dip in Guidance & Counseling.	F
4.	Dr. (Mrs.) Helen Joseph	Alternate Member (External Social Scientist)	-	M.S.W., M. Phil., Ph.D.	F
5.	Mrs. Sharmila Kher	Alternate Member (External Layperson)	-	M. SC. Part 1 (Biotechnical science), Dip. In Journalism, PGDHA	F
6.	Mrs. Manisha Naik Dalal	Alternate Member (External Layperson)	-	M.Com	F
7.	Mrs. Manju Manda	Alternate Member (External Layperson)	Section officer Railways	B.Sc. Pharmacy	F

Several training activities were also carried out by both committees during the year

Journal of Postgraduate Medicine

Journal of Postgraduate Medicine (Print ISSN 0022-3859, CD ISSN 0972-2823), a multidisciplinary Quarterly biomedical journal, is one of the oldest medical journals from India. The journal is official publication of the Staff Society of Seth G. S. Medical College and K. E. M. Hospital, Mumbai, India. The journal is published, managed and funded by Medknow Publications, Mumbai, India. The Journal 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: CNKI (China National Knowledge Infrastructure), EBSCO Publishing's Electronic Databases, Exlibris – Primo Central, Google Scholar, Hinari, Infotrieve, Journal Guide, National Science Library, OpenJGate, ProQuest, TdNet, AMED, Bioline International, MOSBY YEARBOOK. The journal is indexed with:DOAJ, EMBASE/ Excerpta Medica, Index Copernicus, Indian Science Abstracts, IndMed, MEDLINE/Index Medicus, Scimago Journal Ranking, SCOPUS, Science Citation Index Expanded, Web of Science. The achievements of the journal for the year have been the following – 1) All issues are published before time 2) Most articles appear online "ahead of print" 3) Raising funds for the creation of a JPGM Ipad app and the app will be released on the foundation day on 22nd January 2016 4) Maintaining the impact factor close to 1 [IF for 2014 0.855].

Department of Medical Education

- Upgraded as an advanced centre on 7th October 2014. The Advanced centre for medical education and research [ACMER] was upgraded to the Department of Medical Education in the inaugural ceremony of the 3rd MCI Advanced Course in Faculty Development on 1st October 2015.

Activities

- Conducted Basic and Advanced Courses in Medical Education Technology
- A fellowship program instituted with FAIMER, USA

GSMC - KEM -MCI nodal center

- The 18th basic course on Medical Education Technology [28 participants]
- Sensitization program on Attitude and Communication Skills [AT-COM] module for resource faculty [20 participants]
- Sensitization program on Attitude and Communication Skills [AT-COM] module and revised basic course conducted [25 participants]
- 2nd MCI Advanced Course
- 3rd FIME Advanced Course
- 11th regional GSMC FAIMER program conducted. Dr John Boulet was foreign faculty
15 colleges are affiliated to the nodal centre. Faculty from the department of medical education went as observers to the above colleges. Faculty also attended several workshops and conferences throughout the year.

Research Society

Office bearers

- Hon. President: Dean Dr. A N Supe
- Hon. Vice President: Dr. Manjula Sarkar
- Hon. General Secretaries: Dr. C Sathe, Dr. N.Sawant
- Hon. Treasurer: Dr. M. G. Karmarkar

RESEARCH GRANTS: Rs. 50000/- grant sanctioned for each project

1	Dr N Gogtay Addl Prof. Clinical Pharmacology	Evaluation of prevalence of mutation in Chloroquine and sulphadoxine-pyrimethamine drug resistance associated with genes in <i>P. vivax</i> malaria isolate in a tertiary care center in Mumbai by nested- polymerase chain reaction techniques (nPCR).
2	Dr. CT Deshmukh Prof. Pediatrics Prof & I/C of PICU Pediatric Medicine	Pharmacokinetics – Pharmacodynamics relationship of vancomycin in children with suspected or proven Gram-positive bacterial infection admitted to Pediatric intensive care unit of tertiary care hospital
3	Dr. Samir Shaikh Asstt Prof. Neonatology	To study the correlation between serum magnesium level at birth and neurological outcome in neonates with perinatal depression.
4	Dr. U Thatte HOD Clinical Pharmacology	Assessment of modulation of activity of Paraoxonase-1 (PON-1) by statins in patients requiring statin therapy.
5	Dr. Gita Nataraj Prof & I/C Bacteriology division Microbiology	Utility of Vitek2 in rapid identification and antifungal susceptibility testing of yeasts in resource constrained setting.
6	Dr. P Vaideeswar, Addl Prof. Pathology	Vascular Tangle in the Inter-atrial Septum- Is it Sources of Cardiac Myxoma?
7	Dr. U Thatte HOD Clinical Pharmacology	Survey of public knowledge and perception about clinical research in Mumbai.
8	Dr. Sanjeeta Umbarkar AP, Anesthesia	Does Levosimendan offer renal protection during offpump coronary artery bypass surgery? Use of plasma gelatinase-associated lipocalin (n-GAL) as an early marker of AKI
9	Dr. Pallavi Rodge/ Surase Asstt Prof, Microbiology	Sero-clinical study of Acute Febrile Illnesses with multi-organ involvement in Tertiary Care centre.
10	Dr. N Gogtay Addl Prof, Clinical Pharmacology	Determination of laboratory reference intervals in healthy Indian adults at a tertiary referral centre.
11	Dr. Sandhya Kamat, Prof Pharmacology	Evaluation of the effect of Indian Medicinal plants in a Murine model of Dextran sulphate sodium (DSS) induced acute colitis.
12	Dr. MG Karmarkar, Prof Microbiology	Demonstration of ADE(Antibody dependent enhancement)like phenomenon in GAS (Group Streptococcus) SDSE (Streptococcus dysgalactiae subspecies equismilis) pharyngitis cases in endemic region like Mumbai
13	Shilpshree Palsule, Asstt. Prof Dept of OT	CAT (Comprehensive Assessment Tool) for assessment of functional capacity of the hand-a study on Indian population.

- Educational Grant
Grant of Rs. 25000/- is sanctioned for the scientific program for UG students Confluence 2015.
Grant of Rs. 10000/- is sanctioned to conduct CME of Physiology Department
Grant of Rs. 50000/- is sanctioned for JPGM app.
- Two projects by Dr P Kerkar [Cardiology] and Dr SH Ravat [Neurology] are ongoing

Staff Society

The executive committee members and office bearers of Staff Society from January 15 to July 15 were.

<i>Office bearers:</i>	President	Dean Dr. A. N. Supe
	Vice President	Dr. Amita Joshi-Pathology
	Hon. Secretary	Dr. Mridula Solanki -PSM
	Hon.Jt. Secretary	Dr. Aparna Deshpande- Surgery
	Editor JPGM	Dr. Nithya Gogtay- Clinical Pharmacology
	Treasurer	Dr. Ameet Fadia-Physiology

Executive Committee Members: Dr. Rashmi Patil-Anatomy, Dr. Surekha Prabhu- Biochemistry, Dr. Tejal Patel-Pharmacology, Dr. Siddharth Deshpande -Clinical Pharmacology, Dr. Harish Pathak- Forensic Medicine, Dr. Kranti Kadam-Psychiatry, Dr. Saroj Sahadev-Ophthalmology, Dr. Deepa Kane-Anesthesia, Dr. Neelam Redkar- Medicine, Dr. Atul Dongre- Skin & VD, Dr. Tukaram Jamale- Nephrology, Dr. Hetal Marfatia ENT, Dr. Surendar Bava, Dr. Meena Satia-Obst. & Gynaec, Mrs. Jaimala Shetye –Physiotherapy

New Executive Committee was formed from August 2015 to serve until 2017

<i>Office bearers:</i>	President	Dr. Avinash N Supe	Dean
	Vice President	Dr. Amita Joshi	Pathology
	Treasurer	Dr. Surekha Prabhu	Biochemistry
	Hon. Secretary	Dr. Jaimala Shetye	Physiotherapy
	Hon. Jt. Sec.	Dr. Santosh Salagre	Medicine
	Editor JPGM	Dr. Nithya Gogtay	Cl. Pharmac [upto 30 June 2016]

Executive Committee Members - Dr. Harish Gaikwad-Anatomy, Dr. Venkatesh Rathod - Physiology, Dr. Priyanka Prasad –Microbiology, Dr. Yashashri Shetty-Pharmacology, Dr. Ravindra Deokar-Forensic Medicine, Dr. Sujata Lavangare-Community Medicine, Dr. Heena Merchant-Psychiatry, Dr. Tukaram Jamale-Nephrology, Dr. Aakash Shukla-GI Medicine, Dr. Surendar Bava-Orthopedic, Dr. Neelam Sathe-ENT, Dr. Suchin Dhamnaskar-Surgery, Dr. Kapil Agrawal-Plastic surgery, Dr. Meena Satia- OBGY, Dr. Sweta Salgaonkar-Anesthesia

Monthly Scientific Meetings

1. 190th Meeting held on 24th August 2015: Felicitation of staff members who are due to retire in June / Aug 2015. Dr. BM Kandalkar, Dr. Sunita Shanbhag & Dr. Sonal Parekh were retiring faculty felicitated with floral tributes & mementos. Newly appointed faculty and promoted staff were welcomed in this meeting.

Guest lectures

- Dr. Lesley Hunt, A Colorectal Surgeon on "Is jungle se mujhe bachao- an English surgeon's experience of training in Sierra Leone".
- Dr. M. A. Muckaden, Prof & Head, Dept of Palliative Medicine, Tata Memorial Hospital on "Integration of Palliative care practices in Modern Medicine".
- Dr. Suresh Joshi, Consultant Cardiac Surgeon on "What is New in Cardiac Surgery?".
- Dr. Anurag Lila, Prof. Endocrinology on "Weight Management"
- Dr. Kamaljeet Singh, Psychiatrist Thana Mental Hospital on "Enriching our relations – common domestic problems and solutions"

Paper presentations

- From the departments of GI Surgery, Clinical Pharmacology, Urology, and OT.
Judges: Dr. PR Mehta, Prof & Head, Department of Microbiology, Dr. DN Shenvi - Prof. Department of Physiology & Dr. Gajanan Velhal- Addl. Professor, Dept. of Community Medicine, TNMC & BYL Nair Hospital, Mumbai

- 1st prize: Deshpande SP, Thaker SJ, Biswas M, Kulkarni DV, Bhatia SJ, Rajadhyaksha AG, Bendkhale SR, Gandhe PP, Gogtay NJ, Thatte UM - Dept of Clinical Pharmacology. Title: "Association between genetic polymorphisms of CYP2C9 and VKORC1 and adverse effects of Warfarin: An Audit"
- 2nd Prize: Shetty Y, Jalgaonkar SV, Bhide SS, Tripathi RK, Marathe PA, Katkar JV, Thatte UM Dept of Pharmacology. Title: "Assessment of Protocol Deviations submitted to the Institutional Ethics Committee of a teaching hospital in Mumbai, India"

Executive Committee Meetings: 14

Annual General Body Meeting: 1

Annual Lunch on Foundation Day:

- Saturday, 24th January 2015: Contributory Annual Lunch organized by the Staff Society with entertainment followed by Games and lunch in College lawn.

Mementoes of Seth GSMC & KEMH:

- Diamond paper weight 60,80mm, Visiting Cardholder, Chair shape Mobileholder-Crystal, Semicircle Cardholder no.1, Rectangle Cardholder no.2, Rectangle Cardholder, Mug with logo & KEM Photo, Cube B50 Paperweight, Sphere-cut Paperweight FBC 50, Ganesh Showpiece UPC 43238, Ganesh- Kalash Showpiece, Pink Ganesh- 2 layered 40mm base Showpiece etc. are made available at reasonable cost for the various programs organized in the institution.

Donations

- The Parel Chemist Gift shop gave Rs.10000/- & Rs. 5000/- from Mr. Uday Shetty Seth GSMC Canteen towards Foundation Day Dinner.

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-specialities) to patients and doctors from these peripheral centers.

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

Chairperson : Dr. Avinash Supe (Dean, KEM Hospital)

Members: [1] Dr. Sandeep Bavdekar, Prof. & HOD, Pediatrics, T.N. Medical College & BYL Nair Hospital.
[2] Dr. Kamakshi Bhate, Additional Professor, Preventive and Social Medicine Department.
[3] 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 2015 - November 2015 a total of 7250 patients have derived benefit of expert advice from specialists of KEM Hospital. The disciplines whose opinions have been sought include anesthesiology, ayurvedic medicine, cardiology, cardio-thoracic surgery, chest medicine, dermatology, dentistry, endocrinology, gastro-enterology, gastro-enterology surgery, general medicine, general surgery, gynecology and obstetrics, hematology, neonatology, neurology, neurosurgery, ophthalmology, orthopedics, otorhinolaryngology, pediatric surgery, pediatrics, plastic surgery and radiology.

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 while [Table 2](#) gives details of CMEs/ Academic Training Programs/ Academic Discussions conducted in KEM Telemedicine Center.

Table 1: Consultations provided at the KEM Telemedicine Center

Detailed district-wise list [January 2015 - November 2015]													
Sr No	District	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Total
1	Aheri	6	4		3								13
2	Akluj	30	24	37	35	42	42	39	43	47	38	26	403
3	Alibaug	18	7	5		1	3	1			1		36
4	Amravati	5		3	2	5	4	3	17	10	8	2	59
5	Armori				4								4
6	Aundh	9	11	20	39	14	24	13	30	27	23	2	212
7	Beed			1									1
8	Chandrapur	46	32	31	14	15	6	4	5	5	5		163
9	Chikhaldara						3	1	9	3	2	2	20
10	Chopada	37	64	4		2	2			1		2	112
11	Dharani	3	3	6									12
12	Gadchiroli							7	12	25	12	20	76
13	Gandhinglaj												
14	Gondia	18	6	35	2	1	25	37	56	23	26	7	236
15	Ghoti				1								1

16	Hinganghat		2	14		2							18
17	Hingoli								3				3
18	Hadgaon		11	33			1		4				49
19	Islampur	14	36	24	35	31	22	23	19	26	39	31	300
20	Jalana									2			2
21	Jalgaon	1		1		1		2					5
22	Kalvan	39	88	59	66	46	37	54	50	34	52	20	545
23	Kamthe	19	17	17	2	20	9	34	26	12	22	8	186
24	Karad										1		1
25	Karanja			1			1	1	2				5
26	Kinvat								1				1
27	Malegaon						1						1
28	Mangaon		1				1						2
29	Murbad		1										1
30	Nandurbar	58	84	78	79	90	83	95	85	87	73	67	879
31	Nanded							22	1	6	7		36
32	Nashik												
33	Navapur												
34	Osmanabad	8	15	28	11	11	6	15	45	9	12	22	182
35	Parbhani	16	7	20	14	13	6	16	10	15	16	18	151
36	Pusad							1					1
37	Ratnagiri	67	90	77	79	65	93	77	89	83	69	61	850
38	Ramtek	4			1		3	3	4	14	11	7	47
39	Satara	6				1		2	9		5		23
40	Sawantwadi	49	46	53	59	39	42	50	34	29	39	56	496
41	Shahapur	59	39	95	94	80	82	96	127	94	109	62	937
42	Shegaon	1	4			16	16	35			19		91
43	Shirpur		10	18	24	24	42	56	40	20	10	12	256
44	Sindhudurg	46	31	20	31	20	21	28	25	10	18	11	261
45	Thane	49	12	12	70	57	53	63	38	28	52	59	493
46	Tiroda										2		2
47	Udgir												
48	Umarga	3	1		1			8	6	1	14	2	36
49	Vaijapur								4			1	5
50	Wardha												
51	Warora					5	1						6
52	Washim		8	1	4	1	1	13	2			1	31
	Total	611	654	693	670	602	630	799	796	611	685	499	7250

Table 2: Details of CMEs/ Academic Training Programs/ Academic Discussions Conducted in KEM Telemedicine Center

CMEs/ Academic Training Programs/ Academic Discussions [January 2015 - November 2015]					
Sr. No.	C.M.E. Date (mm/dd/yyyy)	C.M.E. Time	Topic	Name of Speaker (Specialist Doctors)	Moderator
1	1/20/2015	8.30am	Case Discussion	--	Dr. Dhiraj Kumar
2	1/23/2015	8.30am	Post-transfusion RBC survival & kinetics- Principles and applied aspects	Dr. Ashish Varma	Dr. R.K. Chaudhari
3	1/27/2015	3.30pm	Case Discussion (CMC Vellore - Department of Endocrinology)	--	Dr. Nalini Shah
4	1/30/2015	8.30am	Scientific basis for test selection for TTI screening in Blood Transfusion Services	Dr. Lalit	Dr. A. Verma
5	2/2/2015	8.30am	Washed and volume reduced blood components; preparations and indications	Dr. Arvind S.	Dr. P. Agarwal
6	2/6/2015	8.30am	Accreditation of Blood Transfusion services- Requirements and current scenario	Dr. Vidya	
7	2/9/2015	3.30pm	Commercially available coagulation factor preparations	Dr. Ashish	Dr. Atul Sonker
8	2/13/2015	8.30am	Human Neutrophil Antigen system & their clinical significance	Dr. Ajit	Dr. Khetan
9	2/16/2015	8.30am	Congenital bleeding disorders- Approach and management	Dr. Anubha	Dr. Katharia
10	2/27/2015	8.30am	Approach to a case of platelet refractoriness	Dr. Yatendra	Dr. P.Elhence
11	3/7/2015	8.30am	ISBT 128 (SRMC Chennai)	Dr. Deepak	--
12	3/13/2015	8.30am	Bacterial contamination of Blood Components (KEM hospital)	Dr. Neha	--
13	3/16/2015	8.30am	Blood component support in ICU setting (SGPGI)	Dr. Ashish	Dr. Agarwal
14	3/23/2015	8.30am	Pathogen reduction and inactivation of blood components (SGPGI)	Dr. Anubha	Dr. Khetan
15	3/26/2015	8.30am	Strategies for voluntary blood donor recruitment and retention (SGPGI)	Dr. Jeetu	Dr. Katharia
16	3/26/2015	2.00pm	FAIMER Project - Introduction, Consent and MCQs (district and sub-district hospitals)	--	Dr. Shobhana Bhatia
17	3/30/2015	8.30am	Bio-safety precautions in Transfusion services (SGPGI)	Dr. Yatendra	Dr. Chaudhari
18	3/31/2015	10.00am	DSD Data Analysis (KEM hospital discussion with Manipal University)	--	Dr. Nalini Shah
19	4/24/2015	8.30am	ABOI Kidney Transplant	Dr. Anubha S.	Dr. R. Katharia
20	5/15/2015	8.30am	Flow cytometry - Role in Transfusion Medicine	Dr. Akshay	Dr. Sonkar
21	8/12/2015	3.30pm	Genetic Case presentation and discussion (KEM , SGPGI, CMC Vellore, Hyderabad)	Dr. Shruti Bajaj	--
22	10/14/2015	2.30pm	Awareness of Organ Donation	Dr. Kamaxi Bhate	--

Women's Development Committee

Established in November 2006. Comprised of representatives from the various cadres of teaching, non-teaching, nursing, clerical, labour staff and medical students. Current office bearers are Dr Avinash Supe [President], Dr Neena Sawant [Chairperson], Dr Ameet Fadia [Member], Dr Ravindra Deokar [Member], Dr.Yogita Patil (Member), Dr Mridula Solanki [Member], Dr Siddhi Chikhalkar [Member], Ms Rupali Borkar [Member], Ms Sadhna Bhatkhande [Member], Shri Tanay Dixit [Member], Smt Anjali Kharkar [Member], Smt Neha Dabholakr [Member], Smt Manasi Parab [Member], Smt Lakhbir Bajwa [Member], Smt Meenakshi Dongre [Member], Shri Sanjay Khare [Member], Mr Aweek agarwal [UG student, Member], and Miss Harshita Mishra [UG student, member]. The WDC is looking after the welfare of women employees and students.

It has conducted the following activities this year

- Haldi Kumkum program with demonstration of Exotic recipes by Ms Bharati Sanghrajka.
- Sukhi Jeevanachi gurukilli" a talk by Dr Vidya Joshi, Pune from Satguru Wamanrao Pai Jeevan Vidya foundation.
- International Women's day: Talk show on A Woman Can Make It Happen. Guests: Sunila Patil, Preeti Patil
- KEM's Got Talent where staff and students got an opportunity to show their literary talent with self written poetry/shayari recital.
- KEM Dandiya was organized by WDC in the LCR for the staff and students. Active participation was seen.

Support Services

Diet

- The Diet department is playing a key role in support services of the hospital. Its activities start at approximately 3.30 am in the morning and end at 5.30 pm in the evening. Work of the department is divided in two parts; Diet Office and Dietician who are working in cooperation with one another. Diet department has 26 schedule posts of workers which include 1 Head Cook, 16 Cooks, 9 Cook mates and 1 Sweeper. The team provides entire day meals to all indoor patients. Normal and therapeutic diets, Ryle's tube diet, Liquid diets are also prepared and distributed to the wards. Tea and meal services are provided to approximately 1500 patients daily, while 400-500 Ryle's tube/Liquid diets are prepared on a daily basis. Sweet dishes are prepared and served to all patients on the occasions of Independence day, Diwali, Christmas, Maharashtra day, and Foundation day of the hospital. Doorstep delivery of diet is provided through trolleys to all wards situated in old building. The Diet Department Office is controlled by 1 Head Clerk, 3 Clerks and 3 Peons. They prepare Summary sheets, Milk sheets, Tea book and Bread sheets daily, along with placing purchase orders for vegetables and other groceries as per requirement. There are 5 Dietician schedule posts, i.e Kitchen (2), CVTC (1), AKD (1), and Endocrine (1) whose duties include regular checking of foodstuff; diet planning and counseling of all referred IPD and OPD patients; conducting lectures for B.Sc/M.Sc nursing students; assessing research work of post graduate students; and daily rounds in AKD ICCU, ICCU, IRCU, LIC, Post renal transplant and dialysis wards.

Engineering [Civil]

- Civil Department in K.E.M. Hospital manages the day to day CIVIL maintenance of Hospital buildings for smooth functioning of Hospital Activities in coordination with various departments.
- In 2015 following major renovation activities were carried out.
 1. Renovation of Cath-Lab through turnkey project on 4th floor in Cardiology Department CVTS building.
 2. Repairs and Renovation of 1st floor Admin Block of Old Building, KEM Hospital through turnkey project for installation of New DSA machine (in progress).
 3. Repairs and Renovation of Ground floor for installation (in progress) of MRI Machine through turnkey project of Old Building, KEM Hospital.
 4. Renovation of staff Quarters within KEM Hospital Campus.
 5. Improvement of drainage line in phase wise manner surrounding college campus.
 6. Providing of mosquito proof arrangement to all water tanks so as to abate the nuisance of dengue, malaria.
 7. Major external repairs and terrace waterproofing work of M.S. Building is in progress by the department Dy.Ch.E.(HIC) of MCGM.
 8. Providing shed for OPD patient of CVTS building, internal additions and alterations to the existing OPD on ground floor of CVTS building is likely to complete during this financial year.

Engineering [Mechanical and Electrical]

- Mechanical and Electrical Engineering dept in K.E.M Hospital manage major activities like repairing and maintaining all medical equipments and machines, lifts, D.G sets, air conditioning systems, electrical fixtures, electrical rewiring, central oxygen, central suction, central N2O system and fire safety systems.

Library

Highlights & Achievements : In the year 2015, Seth G.S. Medical College Library subscribed to 156 journals, 6 databases (Clinical Key, Proquest Health & Medical Complete, Ovid MD, Acland anatomy, Up-to-Date, Wiley Core Collection) and purchased 47 books. All journals from Elsevier Co. including 'clinics on all subjects' and more than 800 e-journals and 145 e-books were made available online on Intranet. Online access to 71 e-books and 139 e-journals WAS made available on Ovid MD whereas a further 161 e-books and over 2000 e-journals were made available through Proquest. CCTV camera was installed on the first floor and ground floor library on 6th Nov 2015 to cover all exits and entrances, record clear images of all visitors as and when they enter and exit and protect rare books and journals. An 'Online Ovid Quiz' was organized from 23rd Nov 2015 to 4th Dec 2015 for promoting Ovid usage to end users of our institution. We also arranged following User Training Programmes for Institutional members - Ovid MD (16/1/15 & 27/8/15), Uptodate (16/1/15 & 27/8/15) Clinical Key (11/9/15). **Holdings:** Library journals holdings are available on the KEM Website on Internet. Updated Library books' list is 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:** Donation of Rs. 75,000/- was received by Gosumec Alumni Association for purchase of 113 books for Undergraduate section. Free Trial access was given to following databases.

- Access medicine' from McGraw-Hill Education- 5th Sept 2015 to 4th Oct 2015
- BMJ Best Practice & BMJ case reports'- 8th Oct 2015 to 7th Nov 2015
- Thieme otolaryngology - 1st Dec 2015 to 31st Dec 2015

Looking Ahead; Education : To subscribe Micro medics and more e-books, so that Doctors will get latest relevant information immediately on Intranet. It is proposed to purchase an aggregator to access Medical information on one click. Digitalization of old and new reading materials will facilitate the availability of library resources electronically. **Equipment :** Proposal put up for Compactors/ Steel trolley type racks i.e. compactors for keeping bound volumes to save space in the Library and make more space available for reading. Proposal put up for purchase of steel chairs for students. The Library Committee headed by Dr Avinash Supe meets periodically to take policy decisions, helps the Chief Medical Librarian for deciding purchase of Medical Journals, Books, Medical databases & other Library material, assists the library in introducing new technologies such as Intranet, and in acquiring donations/grants for Library.

Medical Stores

- The medical store plays an important role in the day to day functioning of the hospital, procurement, storage and distribution of drugs. Both schedule and non – schedule items are processed by the store. The total budget is 19.5 crores. The injection and tablet sections are fully air conditioned. There is also a large cold room with the temperature maintained between 2-8 C. Nine staff members work here.

Pharmacy

- In the year 2015, a total of 6100 vials were issued; and 8367 and 3215 distilled water packs/bottles were issued in litre and 500 ml packs respectively (unclear from the information provided by them). 5783 drums, 5739 trays and 13323 ETO items were sterilized by the Pharmacy department. 1346 medicinal items, 44 linen items, 29 quotations, and 153 specifications were checked while 13 complaints were addressed.

Appendix

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H. Phulsundar	Joint Labour Officer	7048		24107048	
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